

ARBOTHERM.
TECHNOLOGY I/2017-N



HOW TO PROVIDE **QUALITY RIGHT TO THE POINT?**

More than 60 years ago, the founders of Arbonia had one aim in mind: Providing fellow humans with "warming" solutions. But today our aim is much broader. Arbonia is a brand for heat requirements and fulfils highest expectations in public and business buildings. But we still adhere to the high standards of our founders: Customer support and solutions that are right to the point. What does this precisely mean? That's simple: We comply with supply and date arrangements in every detail. Starting with high-quality packaging as important component of the Arbonia standard of quality. The processing quality and the long

service life of our products have been convincing our customers for years now and are conform with the high requirements of currently valid regulations and standards. Individual customer service and highest possible flexibility of form and colour design are for us a matter of course. Our design expertise shows this, being acknowledged constantly by many awards. We at Arbonia develop all of this consistently and with passion – to provide you with precisely the room temperature solution that you need.

right to the point 



Flexible and safe:
The main application ranges
of our Arbotherm



Wall

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Call for tender text

Arbonia Arbotherm AT6

Radiator with vertically arranged, individually sealed flat oval steel pipes (60 x 10 mm) connected on the narrow side on the rear with the manifold pipes (Ø 32 mm) by means of hidden pressure welding, with rounded edges on all sides with

$R_{min} = 2$ mm.

Ready to install with 2 to 4 end-face connection threads for flow and return as well as for air vent and drain. 1- and 2-column version.

Coating according to DIN 55900 part 1 and part 2.

In compliance with the basic principles for the testing of the health and safety of radiators (statutory accident insurance).

Award winner for compliance with high hygiene requirements from the Institute Prof. Dr. Pieldner / Stuttgart, Germany.

Compressive strength and leak tested.

Heat output tested and measured in accordance with EN 442.

CE-compliant.

Suitable for hot water heating systems in accordance with DIN 18380 and water quality in accordance with VDI 2035, ÖNORM H5195 and SWKI BT 102-01.

Maximum permitted operating temperature: 110°C

Operating pressure:

6 bar / 600 kPa

10 bar / 1000 kPa (high-pressure version)

Suitably packed for transport.

Range available

- Spacing: 30, 35, 40, 45, 50, 55, 60, 65, 70 mm
- 2 depths:
 - 1-row: 89 mm
 - 2-row: 146 mm
- Height:
 - Minimum height: 300 mm
 - Maximum height: 3000 mm
- Lengths from 165–5995 mm (limited by spacing/weight)
- 2-pipe connections, on the side or from below/above
- From heights of 1800 mm with stabiliser welded in at the middle

Call for tender text

Arbonia Arbotherm AT7

Radiator with vertically arranged, individually sealed flat oval steel pipes (70 x 10 mm) connected on the narrow side on the rear with the manifold pipes (Ø 32 mm) by means of hidden pressure welding, with rounded edges on all sides with

$R_{min} = 2$ mm.

Ready to install with 2 to 4 end-face connection threads for flow and return as well as for air vent and drain. 1- and 2-column version.

Coating according to DIN 55900 part 1 and part 2.

In compliance with the basic principles for the testing of the health and safety of radiators (statutory accident insurance).

Award winner for compliance with high hygiene requirements from the Institute Prof. Dr. Pieldner / Stuttgart, Germany.

Compressive strength and leak tested.

Heat output tested and measured in accordance with EN 442.

CE-compliant.

Suitable for hot water heating systems in accordance with DIN 18380 and water quality in accordance with VDI 2035, ÖNORM H5195 and SWKI BT 102-01.

Maximum permitted operating temperature: 110°C

Operating pressure:

6 bar / 600 kPa

10 bar / 1000 kPa (high-pressure version)

Suitably packed for transport.

Range available

- Spacing: 30, 35, 40, 45, 50, 55, 60, 65, 70 mm
- 2 depths:
 - 1-row: 99 mm
 - 2-row: 166 mm
- Height:
 - Minimum height: 300 mm
 - Maximum height: 3000 mm
- Lengths from 165–5995 mm (limited by spacing/weight)
- 2-pipe connections, on the side or from below/above
- From heights of 1800 mm with stabiliser welded in at the middle

Call for tender text, sizes



Call for tender text

Arbonia Arbotherm AT6 with built-in valve

Radiator with vertically arranged, individually sealed flat oval steel pipes (60 x 10 mm) connected on the narrow side on the rear with the manifold pipes (Ø 32 mm) by means of hidden pressure welding, with rounded edges on all sides with

$R_{min} = 2$ mm.

With integrated, adjustable valve insert. The k_v value is preset at the factory and adjusted to the heat output.

Ready to install with connections for flow and return and air vent. Connection for drain optional. 1- and 2-column version.

Coating according to DIN 55900 part 1 and part 2.

In compliance with the basic principles for the testing of the health and safety of radiators (statutory accident insurance).

Award winner for compliance with high hygiene requirements from the Institute Prof. Dr. Pieldner / Stuttgart, Germany.

Compressive strength and leak tested.

Heat output tested and measured in accordance with EN 442.

CE-compliant.

Suitable for hot water heating systems in accordance with DIN 18380 and water quality in accordance with VDI 2035, ÖNORM H5195 and SWKI BT 102-01.

Maximum permitted operating temperature: 110°C

Operating pressure:

6 bar / 600 kPa

10 bar / 1000 kPa (high-pressure version)

Suitably packed for transport.

Range available

- Spacing: 40, 45, 50, 55, 60, 65, 70 mm
- 2 depths:
 - 1-row: 89 mm
 - 2-row: 146 mm
- Height:
 - Minimum height: 300 mm
 - Maximum height: 3000 mm
- Lengths from 165–5995 mm (limited by spacing/weight)
- From heights of 1800 mm with stabiliser welded in at the middle
- Built-in valve with factory-preset k_v , arranged on right or left
- Thermostatic sensor head with M30 x 1.5 connection (not included in the scope of delivery and must be ordered as an accessory)
- 2 connecting sleeves with 1/2" internal threads completely welded downwards for connection to 2-pipe systems or 1-pipe systems
- Built-in valve at bottom not possible

Call for tender text, sizes

Call for tender text

Arbonia Arbotherm AT7 with built-in valve

Radiator with vertically arranged, individually sealed flat oval steel pipes (70 x 10 mm) connected on the narrow side on the rear with the manifold pipes (Ø 32 mm) by means of hidden pressure welding, with rounded edges on all sides with

$R_{min} = 2$ mm.

With integrated, adjustable valve insert. The k_v value is preset at the factory and adjusted to the heat output.

Ready to install with connections for flow and return and air vent. Connection for drain optional. 1- and 2-column version.

Coating according to DIN 55900 part 1 and part 2.

In compliance with the basic principles for the testing of the health and safety of radiators (statutory accident insurance).

Award winner for compliance with high hygiene requirements from the Institute Prof. Dr. Pieldner / Stuttgart, Germany.

Compressive strength and leak tested.

Heat output tested and measured in accordance with EN 442.

CE-compliant.

Suitable for hot water heating systems in accordance with DIN 18380 and water quality in accordance with VDI 2035, ÖNORM H5195 and SWKI BT 102-01.

Maximum permitted operating temperature: 110°C

Operating pressure:

6 bar / 600 kPa

10 bar / 1000 kPa (high-pressure version)

Suitably packed for transport.

Range available

- Spacing: 40, 45, 50, 55, 60, 65, 70 mm
- 2 depths:
 - 1-row: 99 mm
 - 2-row: 166 mm
- Height:
 - Minimum height: 300 mm
 - Maximum height: 3000 mm
- Lengths from 165–5995 mm (limited by spacing/weight)
- From heights of 1800 mm with stabiliser welded in at the middle
- Built-in valve with factory-preset k_v , arranged on right or left
- Thermostatic sensor head with M30 x 1.5 connection (not included in the scope of delivery and must be ordered as an accessory)
- 2 connecting sleeves with 1/2" internal threads completely welded downwards for connection to 2-pipe systems or 1-pipe systems
- Built-in valve bottom not possible

**Maximum length L_{max} – spacing 30–40 mm**

depending on height and depth

Call for tender text, sizes

| Spacing TL [mm] | 30 | | | | 35 | | | | 40 | | | |
|------------------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|
| Number of rows | 1-row | | 2-row | | 1-row | | 2-row | | 1-row | | 2-row | |
| Depth T [mm] | 89 | | 146 | | 89 | | 146 | | 89 | | 146 | |
| Height H [mm] | L_{max} | | L_{max} | | L_{max} | | L_{max} | | L_{max} | | L_{max} | |
| | [el.] | [mm] | [el.] | [mm] | [el.] | [mm] | [el.] | [mm] | [el.] | [mm] | [el.] | [mm] |
| 300 | – | – | – | – | – | – | – | – | 68 | 2725 | 68 | 2725 |
| 350 | 68 | 2055 | 68 | 2055 | 68 | 2390 | 68 | 2390 | 68 | 2725 | 68 | 2725 |
| 400 | 68 | 2055 | 68 | 2055 | 68 | 2390 | 68 | 2390 | 68 | 2725 | 68 | 2725 |
| 450 | 68 | 2055 | 68 | 2055 | 68 | 2390 | 68 | 2390 | 68 | 2725 | 68 | 2725 |
| 500 | 68 | 2055 | 68 | 2055 | 68 | 2390 | 68 | 2390 | 68 | 2725 | 68 | 2725 |
| 550 | 68 | 2055 | 68 | 2055 | 68 | 2390 | 68 | 2390 | 68 | 2725 | 68 | 2725 |
| 600 | 68 | 2055 | 68 | 2055 | 68 | 2390 | 68 | 2390 | 68 | 2725 | 68 | 2725 |
| 650 | 68 | 2055 | 68 | 2055 | 68 | 2390 | 68 | 2390 | 68 | 2725 | 68 | 2725 |
| 700 | 68 | 2055 | 68 | 2055 | 68 | 2390 | 68 | 2390 | 68 | 2725 | 68 | 2725 |
| 750 | 68 | 2055 | 68 | 2055 | 68 | 2390 | 68 | 2390 | 68 | 2725 | 68 | 2725 |
| 800 | 68 | 2055 | 68 | 2055 | 68 | 2390 | 68 | 2390 | 68 | 2725 | 68 | 2725 |
| 900 | 68 | 2055 | 68 | 2055 | 68 | 2390 | 68 | 2390 | 68 | 2725 | 68 | 2725 |
| 1000 | 68 | 2055 | 68 | 2055 | 68 | 2390 | 68 | 2390 | 68 | 2725 | 68 | 2725 |
| 1100 | 68 | 2055 | 68 | 2055 | 68 | 2390 | 68 | 2390 | 68 | 2725 | 68 | 2725 |
| 1200 | 68 | 2055 | 68 | 2055 | 68 | 2390 | 64 | 2250 | 68 | 2725 | 64 | 2565 |
| 1250 | 68 | 2055 | 64 | 1935 | 68 | 2390 | 64 | 2250 | 68 | 2725 | 64 | 2565 |
| 1500 | 68 | 2055 | 52 | 1575 | 68 | 2390 | 52 | 1830 | 68 | 2725 | 52 | 2085 |
| 1600 | 68 | 2055 | 48 | 1455 | 68 | 2390 | 48 | 1690 | 68 | 2725 | 48 | 1925 |
| 1750 | 68 | 2055 | 44 | 1335 | 68 | 2390 | 44 | 1550 | 68 | 2725 | 44 | 1765 |
| 1800 | 68 | 2055 | 44 | 1335 | 68 | 2390 | 44 | 1550 | 68 | 2725 | 44 | 1765 |
| 1900 | 68 | 2055 | 40 | 1215 | 68 | 2390 | 40 | 1410 | 68 | 2725 | 40 | 1605 |
| 2000 | 68 | 2055 | 40 | 1215 | 68 | 2390 | 40 | 1410 | 68 | 2725 | 40 | 1605 |
| 2100 | 68 | 2055 | 38 | 1155 | 68 | 2390 | 38 | 1340 | 68 | 2725 | 38 | 1525 |
| 2200 | 68 | 2055 | 36 | 1095 | 68 | 2390 | 36 | 1270 | 68 | 2725 | 36 | 1445 |
| 2500 | 64 | 1935 | 32 | 975 | 64 | 2250 | 32 | 1130 | 64 | 2565 | 32 | 1285 |
| 3000 | 52 | 1575 | 26 | 795 | 52 | 1830 | 26 | 920 | 52 | 2085 | 26 | 1045 |

Calculation of the length L

depending on the spacing TL

Spacing TL: 30, 35, 40 mm

$$L = (\text{number of elements} - 1) \times TL + 45 \text{ [mm]}$$

Calculation example – length:

| | | | | | | | | |
|---------------------|---|----|---|---------|---|-------|---|--------|
| (Number of elements | - | 1) | x | spacing | + | 45 mm | = | length |
| (10 | - | 1) | x | 30 | + | 45 mm | = | 315 mm |



Maximum length L_{max} – spacing 45–55 mm

depending on height and depth

| Spacing TL [mm] | 45 | | | | 50 | | | | 55 | | | |
|------------------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|
| Number of rows | 1-row | | 2-row | | 1-row | | 2-row | | 1-row | | 2-row | |
| Depth T [mm] | 89 | | 146 | | 89 | | 146 | | 89 | | 146 | |
| Height H [mm] | L_{max} | | L_{max} | | L_{max} | | L_{max} | | L_{max} | | L_{max} | |
| | [el.] | [mm] | [el.] | [mm] | [el.] | [mm] | [el.] | [mm] | [el.] | [mm] | [el.] | [mm] |
| 300 | 68 | 3060 | 68 | 3060 | 68 | 3395 | 68 | 3395 | 68 | 3730 | 68 | 3730 |
| 350 | 68 | 3060 | 68 | 3060 | 68 | 3395 | 68 | 3395 | 68 | 3730 | 68 | 3730 |
| 400 | 68 | 3060 | 68 | 3060 | 68 | 3395 | 68 | 3395 | 68 | 3730 | 68 | 3730 |
| 450 | 68 | 3060 | 68 | 3060 | 68 | 3395 | 68 | 3395 | 68 | 3730 | 68 | 3730 |
| 500 | 68 | 3060 | 68 | 3060 | 68 | 3395 | 68 | 3395 | 68 | 3730 | 68 | 3730 |
| 550 | 68 | 3060 | 68 | 3060 | 68 | 3395 | 68 | 3395 | 68 | 3730 | 68 | 3730 |
| 600 | 68 | 3060 | 68 | 3060 | 68 | 3395 | 68 | 3395 | 68 | 3730 | 68 | 3730 |
| 650 | 68 | 3060 | 68 | 3060 | 68 | 3395 | 68 | 3395 | 68 | 3730 | 68 | 3730 |
| 700 | 68 | 3060 | 68 | 3060 | 68 | 3395 | 68 | 3395 | 68 | 3730 | 68 | 3730 |
| 750 | 68 | 3060 | 68 | 3060 | 68 | 3395 | 68 | 3395 | 68 | 3730 | 68 | 3730 |
| 800 | 68 | 3060 | 68 | 3060 | 68 | 3395 | 68 | 3395 | 68 | 3730 | 68 | 3730 |
| 900 | 68 | 3060 | 68 | 3060 | 68 | 3395 | 68 | 3395 | 68 | 3730 | 68 | 3730 |
| 1000 | 68 | 3060 | 68 | 3060 | 68 | 3395 | 68 | 3395 | 68 | 3730 | 68 | 3730 |
| 1100 | 68 | 3060 | 68 | 3060 | 68 | 3395 | 68 | 3395 | 68 | 3730 | 68 | 3730 |
| 1200 | 68 | 3060 | 64 | 2880 | 68 | 3395 | 64 | 3195 | 68 | 3730 | 64 | 3510 |
| 1250 | 68 | 3060 | 64 | 2880 | 68 | 3395 | 64 | 3195 | 68 | 3730 | 60 | 3290 |
| 1500 | 68 | 3060 | 52 | 2340 | 68 | 3395 | 52 | 2595 | 68 | 3730 | 52 | 2850 |
| 1600 | 68 | 3060 | 48 | 2160 | 68 | 3395 | 48 | 2395 | 68 | 3730 | 48 | 2630 |
| 1750 | 68 | 3060 | 44 | 1980 | 68 | 3395 | 44 | 2195 | 68 | 3730 | 44 | 2410 |
| 1800 | 68 | 3060 | 44 | 1980 | 68 | 3395 | 44 | 2195 | 68 | 3730 | 44 | 2410 |
| 1900 | 68 | 3060 | 40 | 1800 | 68 | 3395 | 40 | 1995 | 68 | 3730 | 40 | 2190 |
| 2000 | 68 | 3060 | 40 | 1800 | 68 | 3395 | 40 | 1995 | 68 | 3730 | 40 | 2190 |
| 2100 | 68 | 3060 | 38 | 1710 | 68 | 3395 | 38 | 1895 | 68 | 3730 | 38 | 2080 |
| 2200 | 68 | 3060 | 36 | 1620 | 68 | 3395 | 36 | 1795 | 68 | 3730 | 36 | 1970 |
| 2500 | 64 | 2880 | 32 | 1440 | 64 | 3195 | 32 | 1595 | 64 | 3510 | 32 | 1750 |
| 3000 | 52 | 2340 | 26 | 1170 | 52 | 2595 | 26 | 1295 | 52 | 2850 | 26 | 1620 |

Call for tender text, sizes

Calculation of the length L

depending on the spacing TL

Spacing TL: 45, 50, 55 mm

$$L = (\text{number of elements} - 1) \times \text{TL} + 45 \text{ [mm]}$$

Calculation example – length:

| | | | | | | | | |
|---------------------|---|----|---|---------|---|-------|---|--------|
| (Number of elements | - | 1) | x | spacing | + | 45 mm | = | length |
| (10 | - | 1) | x | 45 | + | 45 mm | = | 450 mm |

**Maximum length L_{max} – spacing 60–70 mm**

depending on height and depth

Call for tender text, sizes

| Spacing TL [mm] | 60 | | | | 65 | | | | 70 | | | |
|------------------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|
| Number of rows | 1-row | | 2-row | | 1-row | | 2-row | | 1-row | | 2-row | |
| Depth T [mm] | 89 | | 146 | | 89 | | 146 | | 89 | | 146 | |
| Height H [mm] | L_{max} | | L_{max} | | L_{max} | | L_{max} | | L_{max} | | L_{max} | |
| | [el.] | [mm] | [el.] | [mm] | [el.] | [mm] | [el.] | [mm] | [el.] | [mm] | [el.] | [mm] |
| 300 | 68 | 4065 | 68 | 4065 | 68 | 4400 | 68 | 4400 | 68 | 4735 | 68 | 4735 |
| 350 | 68 | 4065 | 68 | 4065 | 68 | 4400 | 68 | 4400 | 68 | 4735 | 68 | 4735 |
| 400 | 68 | 4065 | 68 | 4065 | 68 | 4400 | 68 | 4400 | 68 | 4735 | 68 | 4735 |
| 450 | 68 | 4065 | 68 | 4065 | 68 | 4400 | 68 | 4400 | 68 | 4735 | 68 | 4735 |
| 500 | 68 | 4065 | 68 | 4065 | 68 | 4400 | 68 | 4400 | 68 | 4735 | 68 | 4735 |
| 550 | 68 | 4065 | 68 | 4065 | 68 | 4400 | 68 | 4400 | 68 | 4735 | 68 | 4735 |
| 600 | 68 | 4065 | 68 | 4065 | 68 | 4400 | 68 | 4400 | 68 | 4735 | 68 | 4735 |
| 650 | 68 | 4065 | 68 | 4065 | 68 | 4400 | 68 | 4400 | 68 | 4735 | 68 | 4735 |
| 700 | 68 | 4065 | 68 | 4065 | 68 | 4400 | 68 | 4400 | 68 | 4735 | 68 | 4735 |
| 750 | 68 | 4065 | 68 | 4065 | 68 | 4400 | 68 | 4400 | 68 | 4735 | 68 | 4735 |
| 800 | 68 | 4065 | 68 | 4065 | 68 | 4400 | 68 | 4400 | 68 | 4735 | 68 | 4735 |
| 900 | 68 | 4065 | 68 | 4065 | 68 | 4400 | 68 | 4400 | 68 | 4735 | 68 | 4735 |
| 1000 | 68 | 4065 | 68 | 4065 | 68 | 4400 | 68 | 4400 | 68 | 4735 | 68 | 4735 |
| 1100 | 68 | 4065 | 68 | 4065 | 68 | 4400 | 68 | 4400 | 68 | 4735 | 68 | 4735 |
| 1200 | 68 | 4065 | 64 | 3825 | 68 | 4400 | 64 | 4140 | 68 | 4735 | 64 | 4455 |
| 1250 | 68 | 4065 | 60 | 3585 | 68 | 4400 | 60 | 3880 | 68 | 4735 | 60 | 4175 |
| 1500 | 68 | 4065 | 52 | 3105 | 68 | 4400 | 52 | 3360 | 68 | 4735 | 52 | 3615 |
| 1600 | 68 | 4065 | 48 | 2865 | 68 | 4400 | 48 | 3100 | 68 | 4735 | 48 | 3335 |
| 1750 | 68 | 4065 | 44 | 2625 | 68 | 4400 | 44 | 2840 | 68 | 4735 | 44 | 3055 |
| 1800 | 68 | 4065 | 44 | 2625 | 68 | 4400 | 44 | 2840 | 68 | 4735 | 44 | 3055 |
| 1900 | 68 | 4065 | 40 | 2385 | 68 | 4400 | 40 | 2580 | 68 | 4735 | 40 | 2775 |
| 2000 | 68 | 4065 | 40 | 2385 | 68 | 4400 | 40 | 2580 | 68 | 4735 | 40 | 2775 |
| 2100 | 68 | 4065 | 38 | 2265 | 68 | 4400 | 38 | 2450 | 68 | 4735 | 38 | 2635 |
| 2200 | 68 | 4065 | 36 | 2145 | 68 | 4400 | 36 | 2320 | 68 | 4735 | 36 | 2495 |
| 2500 | 60 | 3585 | 32 | 1905 | 60 | 3880 | 32 | 2060 | 60 | 4175 | 32 | 2215 |
| 3000 | 52 | 3105 | 26 | 1545 | 52 | 3360 | 26 | 1670 | 52 | 3615 | 26 | 1795 |

Calculation of the length L

depending on the spacing TL

Spacing TL: 60, 65, 70 mm

$$L = (\text{number of elements} - 1) \times TL + 45 \text{ [mm]}$$

Calculation example – length:

| | | | | | | | | |
|---------------------|---|----|---|---------|---|-------|---|--------|
| (Number of elements | - | 1) | x | spacing | + | 45 mm | = | length |
| (10 | - | 1) | x | 60 | + | 45 mm | = | 585 mm |



Maximum length L_{max} – spacing 30–40 mm

depending on height and depth

| Spacing TL [mm] | 30 | | | | 35 | | | | 40 | | | |
|------------------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|
| Number of rows | 1-row | | 2-row | | 1-row | | 2-row | | 1-row | | 2-row | |
| Depth T [mm] | 99 | | 166 | | 99 | | 166 | | 99 | | 166 | |
| Height H [mm] | L_{max} | | L_{max} | | L_{max} | | L_{max} | | L_{max} | | L_{max} | |
| | [el.] | [mm] | [el.] | [mm] | [el.] | [mm] | [el.] | [mm] | [el.] | [mm] | [el.] | [mm] |
| 300 | – | – | – | – | – | – | – | – | 68 | 2725 | 68 | 2725 |
| 350 | 68 | 2055 | 68 | 2055 | 68 | 2390 | 68 | 2390 | 68 | 2725 | 68 | 2725 |
| 400 | 68 | 2055 | 68 | 2055 | 68 | 2390 | 68 | 2390 | 68 | 2725 | 68 | 2725 |
| 450 | 68 | 2055 | 68 | 2055 | 68 | 2390 | 68 | 2390 | 68 | 2725 | 68 | 2725 |
| 500 | 68 | 2055 | 68 | 2055 | 68 | 2390 | 68 | 2390 | 68 | 2725 | 68 | 2725 |
| 550 | 68 | 2055 | 68 | 2055 | 68 | 2390 | 68 | 2390 | 68 | 2725 | 68 | 2725 |
| 600 | 68 | 2055 | 68 | 2055 | 68 | 2390 | 68 | 2390 | 68 | 2725 | 68 | 2725 |
| 650 | 68 | 2055 | 68 | 2055 | 68 | 2390 | 68 | 2390 | 68 | 2725 | 68 | 2725 |
| 700 | 68 | 2055 | 68 | 2055 | 68 | 2390 | 68 | 2390 | 68 | 2725 | 68 | 2725 |
| 750 | 68 | 2055 | 68 | 2055 | 68 | 2390 | 68 | 2390 | 68 | 2725 | 68 | 2725 |
| 800 | 68 | 2055 | 68 | 2055 | 68 | 2390 | 68 | 2390 | 68 | 2725 | 68 | 2725 |
| 900 | 68 | 2055 | 68 | 2055 | 68 | 2390 | 68 | 2390 | 68 | 2725 | 68 | 2725 |
| 1000 | 68 | 2055 | 64 | 1935 | 68 | 2390 | 64 | 2250 | 68 | 2725 | 64 | 2565 |
| 1100 | 68 | 2055 | 60 | 1815 | 68 | 2390 | 60 | 2110 | 68 | 2725 | 60 | 2405 |
| 1200 | 68 | 2055 | 56 | 1695 | 68 | 2390 | 56 | 1970 | 68 | 2725 | 56 | 2245 |
| 1250 | 68 | 2055 | 52 | 1575 | 68 | 2390 | 52 | 1830 | 68 | 2725 | 52 | 2085 |
| 1500 | 68 | 2055 | 44 | 1335 | 68 | 2390 | 44 | 1550 | 68 | 2725 | 44 | 1765 |
| 1600 | 68 | 2055 | 40 | 1215 | 68 | 2390 | 40 | 1410 | 68 | 2725 | 40 | 1605 |
| 1750 | 68 | 2055 | 38 | 1155 | 68 | 2390 | 38 | 1340 | 68 | 2725 | 38 | 1525 |
| 1800 | 68 | 2055 | 38 | 1155 | 68 | 2390 | 38 | 1340 | 68 | 2725 | 38 | 1525 |
| 1900 | 68 | 2055 | 34 | 1035 | 68 | 2390 | 34 | 1200 | 68 | 2725 | 34 | 1365 |
| 2000 | 64 | 1935 | 34 | 1035 | 64 | 2250 | 34 | 1200 | 64 | 2565 | 34 | 1365 |
| 2100 | 64 | 1935 | 32 | 975 | 64 | 2250 | 32 | 1130 | 60 | 2405 | 32 | 1285 |
| 2200 | 60 | 1815 | 30 | 915 | 60 | 2110 | 30 | 1060 | 60 | 2405 | 30 | 1205 |
| 2500 | 52 | 1575 | 26 | 795 | 52 | 1830 | 26 | 920 | 52 | 2085 | 26 | 1045 |
| 3000 | 44 | 1335 | 22 | 675 | 44 | 1550 | 22 | 780 | 44 | 1765 | 22 | 885 |

Call for tender text, sizes

Calculation of the length L

depending on the spacing TL

Spacing TL: 30, 35, 40 mm

$$L = (\text{number of elements} - 1) \times TL + 45 \text{ [mm]}$$

Calculation example – length:

$$\begin{array}{rclclclclcl}
 \text{(Number of elements} & - & 1) & \times & \text{spacing} & + & 45 \text{ mm} & = & \text{length} \\
 (10 & - & 1) & \times & 30 & + & 45 \text{ mm} & = & 315 \text{ mm}
 \end{array}$$

**Maximum length L_{max} – spacing 45–55 mm**

depending on height and depth

Call for tender text, sizes

| Spacing TL [mm] | 45 | | | | 50 | | | | 55 | | | |
|------------------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|
| Number of rows | 1-row | | 2-row | | 1-row | | 2-row | | 1-row | | 2-row | |
| Depth T [mm] | 99 | | 166 | | 99 | | 166 | | 99 | | 166 | |
| Height H [mm] | L_{max} | | L_{max} | | L_{max} | | L_{max} | | L_{max} | | L_{max} | |
| | [el.] | [mm] | [el.] | [mm] | [el.] | [mm] | [el.] | [mm] | [el.] | [mm] | [el.] | [mm] |
| 300 | 68 | 3060 | 68 | 3060 | 68 | 3395 | 68 | 3395 | 68 | 3730 | 68 | 3730 |
| 350 | 68 | 3060 | 68 | 3060 | 68 | 3395 | 68 | 3395 | 68 | 3730 | 68 | 3730 |
| 400 | 68 | 3060 | 68 | 3060 | 68 | 3395 | 68 | 3395 | 68 | 3730 | 68 | 3730 |
| 450 | 68 | 3060 | 68 | 3060 | 68 | 3395 | 68 | 3395 | 68 | 3730 | 68 | 3730 |
| 500 | 68 | 3060 | 68 | 3060 | 68 | 3395 | 68 | 3395 | 68 | 3730 | 68 | 3730 |
| 550 | 68 | 3060 | 68 | 3060 | 68 | 3395 | 68 | 3395 | 68 | 3730 | 68 | 3730 |
| 600 | 68 | 3060 | 68 | 3060 | 68 | 3395 | 68 | 3395 | 68 | 3730 | 68 | 3730 |
| 650 | 68 | 3060 | 68 | 3060 | 68 | 3395 | 68 | 3395 | 68 | 3730 | 68 | 3730 |
| 700 | 68 | 3060 | 68 | 3060 | 68 | 3395 | 68 | 3395 | 68 | 3730 | 68 | 3730 |
| 750 | 68 | 3060 | 68 | 3060 | 68 | 3395 | 68 | 3395 | 68 | 3730 | 68 | 3730 |
| 800 | 68 | 3060 | 68 | 3060 | 68 | 3395 | 68 | 3395 | 68 | 3730 | 68 | 3730 |
| 900 | 68 | 3060 | 68 | 3060 | 68 | 3395 | 68 | 3395 | 68 | 3730 | 68 | 3730 |
| 1000 | 68 | 3060 | 64 | 2880 | 68 | 3395 | 64 | 3195 | 68 | 3730 | 64 | 3510 |
| 1100 | 68 | 3060 | 60 | 2700 | 68 | 3395 | 60 | 2995 | 68 | 3730 | 60 | 3290 |
| 1200 | 68 | 3060 | 52 | 2340 | 68 | 3395 | 52 | 2595 | 68 | 3730 | 52 | 2850 |
| 1250 | 68 | 3060 | 52 | 2340 | 68 | 3395 | 52 | 2595 | 68 | 3730 | 52 | 2850 |
| 1500 | 68 | 3060 | 44 | 1980 | 68 | 3395 | 44 | 2195 | 68 | 3730 | 44 | 2410 |
| 1600 | 68 | 3060 | 40 | 1800 | 68 | 3395 | 40 | 1995 | 68 | 3730 | 40 | 2190 |
| 1750 | 68 | 3060 | 38 | 1710 | 68 | 3395 | 38 | 1895 | 68 | 3730 | 38 | 2080 |
| 1800 | 68 | 3060 | 38 | 1710 | 68 | 3395 | 38 | 1895 | 68 | 3730 | 38 | 2080 |
| 1900 | 68 | 3060 | 34 | 1530 | 68 | 3395 | 34 | 1695 | 68 | 3730 | 34 | 1860 |
| 2000 | 64 | 2880 | 32 | 1440 | 64 | 3195 | 32 | 1595 | 64 | 3510 | 32 | 1750 |
| 2100 | 60 | 2700 | 32 | 1440 | 60 | 2995 | 32 | 1595 | 60 | 3290 | 32 | 1750 |
| 2200 | 60 | 2700 | 30 | 1350 | 60 | 2995 | 30 | 1495 | 56 | 3070 | 30 | 1640 |
| 2500 | 52 | 2340 | 26 | 1170 | 52 | 2595 | 26 | 1295 | 52 | 2850 | 26 | 1620 |
| 3000 | 44 | 1980 | 22 | 990 | 44 | 2195 | 22 | 1095 | 44 | 2410 | 22 | 1200 |

Calculation of the length L

depending on the spacing TL

Spacing TL: 45, 50, 55 mm

$$L = (\text{number of elements} - 1) \times TL + 45 \text{ [mm]}$$

Calculation example – length:

| | | | | | | | | |
|---------------------|---|-----|---|---------|---|-------|---|--------|
| (Number of elements | - | 1) | x | spacing | + | 45 mm | = | length |
| (10 | - | 1) | x | 45 | + | 45 mm | = | 450 mm |



Maximum length L_{max} – spacing 60–70 mm

depending on height and depth

| Spacing TL [mm] | 60 | | | | 65 | | | | 70 | | | |
|------------------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|
| Number of rows | 1-row | | 2-row | | 1-row | | 2-row | | 1-row | | 2-row | |
| Depth T [mm] | 99 | | 166 | | 99 | | 166 | | 99 | | 166 | |
| Height H [mm] | L_{max} | | L_{max} | | L_{max} | | L_{max} | | L_{max} | | L_{max} | |
| | [el.] | [mm] | [el.] | [mm] | [el.] | [mm] | [el.] | [mm] | [el.] | [mm] | [el.] | [mm] |
| 300 | 68 | 4065 | 68 | 4065 | 68 | 4400 | 68 | 4400 | 68 | 4735 | 68 | 4735 |
| 350 | 68 | 4065 | 68 | 4065 | 68 | 4400 | 68 | 4400 | 68 | 4735 | 68 | 4735 |
| 400 | 68 | 4065 | 68 | 4065 | 68 | 4400 | 68 | 4400 | 68 | 4735 | 68 | 4735 |
| 450 | 68 | 4065 | 68 | 4065 | 68 | 4400 | 68 | 4400 | 68 | 4735 | 68 | 4735 |
| 500 | 68 | 4065 | 68 | 4065 | 68 | 4400 | 68 | 4400 | 68 | 4735 | 68 | 4735 |
| 550 | 68 | 4065 | 68 | 4065 | 68 | 4400 | 68 | 4400 | 68 | 4735 | 68 | 4735 |
| 600 | 68 | 4065 | 68 | 4065 | 68 | 4400 | 68 | 4400 | 68 | 4735 | 68 | 4735 |
| 650 | 68 | 4065 | 68 | 4065 | 68 | 4400 | 68 | 4400 | 68 | 4735 | 68 | 4735 |
| 700 | 68 | 4065 | 68 | 4065 | 68 | 4400 | 68 | 4400 | 68 | 4735 | 68 | 4735 |
| 750 | 68 | 4065 | 68 | 4065 | 68 | 4400 | 68 | 4400 | 68 | 4735 | 68 | 4735 |
| 800 | 68 | 4065 | 68 | 4065 | 68 | 4400 | 68 | 4400 | 68 | 4735 | 68 | 4735 |
| 900 | 68 | 4065 | 68 | 4065 | 68 | 4400 | 68 | 4400 | 68 | 4735 | 68 | 4735 |
| 1000 | 68 | 4065 | 64 | 3825 | 68 | 4400 | 64 | 4140 | 68 | 4735 | 64 | 4455 |
| 1100 | 68 | 4065 | 56 | 3345 | 68 | 4400 | 56 | 3620 | 68 | 4735 | 56 | 3895 |
| 1200 | 68 | 4065 | 52 | 3105 | 68 | 4400 | 52 | 3360 | 68 | 4735 | 52 | 3615 |
| 1250 | 68 | 4065 | 52 | 3105 | 68 | 4400 | 52 | 3360 | 68 | 4735 | 52 | 3615 |
| 1500 | 68 | 4065 | 44 | 2625 | 68 | 4400 | 44 | 2840 | 68 | 4735 | 44 | 3055 |
| 1600 | 68 | 4065 | 40 | 2385 | 68 | 4400 | 40 | 2580 | 68 | 4735 | 40 | 2775 |
| 1750 | 68 | 4065 | 38 | 2265 | 68 | 4400 | 38 | 2450 | 68 | 4735 | 38 | 2635 |
| 1800 | 68 | 4065 | 38 | 2265 | 68 | 4400 | 38 | 2450 | 68 | 4735 | 36 | 2495 |
| 1900 | 68 | 4065 | 34 | 2025 | 68 | 4400 | 34 | 2190 | 64 | 4455 | 34 | 2355 |
| 2000 | 64 | 3825 | 32 | 1905 | 64 | 4140 | 32 | 2060 | 64 | 4455 | 32 | 2215 |
| 2100 | 60 | 3585 | 32 | 1905 | 60 | 3880 | 30 | 1930 | 60 | 4175 | 30 | 2075 |
| 2200 | 56 | 3345 | 30 | 1785 | 56 | 3620 | 30 | 1930 | 56 | 3895 | 30 | 2075 |
| 2500 | 52 | 3105 | 26 | 1545 | 52 | 3360 | 26 | 1670 | 52 | 3615 | 26 | 1795 |
| 3000 | 44 | 2625 | 22 | 1305 | 44 | 2840 | 22 | 1410 | 44 | 3055 | 22 | 1515 |

Call for tender text, sizes

Calculation of the length L

depending on the spacing TL

Spacing TL: 60, 65, 70 mm

$$L = (\text{number of elements} - 1) \times TL + 45 \text{ [mm]}$$

Calculation example – length:

| | | | | | | | | |
|---------------------|---|----|---|---------|---|-------|---|--------|
| (Number of elements | - | 1) | x | spacing | + | 45 mm | = | length |
| (10 | - | 1) | x | 60 | + | 45 mm | = | 585 mm |



Technical data per element

Spacing 30 mm, 1-row

| Height H [mm] | Depth T [mm] | Version | Heat output to EN 442 | | | | Exponent n [] | Mass per element M [kg/el.] | Surface per element A [m ² /el.] | Water content per element W [l/el.] | Standard water flow q _{ms} [kg/h el.] | Radiated portions [%] |
|---------------|--------------|-------------|---------------------------------|--|---------------------------------|---------------------------------|----------------|-----------------------------|---|-------------------------------------|--|-----------------------|
| | | | Φ ΔT 60K 90/70/20°C [watts/el.] | Φ _l ΔT 50K 75/65/20°C [watts/el.] | Φ ΔT 42K 70/55/20°C [watts/el.] | Φ ΔT 30K 55/45/20°C [watts/el.] | | | | | | |
| 350 | 89 | AT6 1035-30 | 29 | 23 | 19 | 12 | 1.23 | 0.63 | 0.05 | 0.17 | 2.0 | 30 |
| 400 | 89 | AT6 1040-30 | 32 | 26 | 21 | 14 | 1.23 | 0.70 | 0.06 | 0.19 | 2.2 | 30 |
| 450 | 89 | AT6 1045-30 | 35 | 28 | 23 | 15 | 1.23 | 0.80 | 0.07 | 0.21 | 2.5 | 30 |
| 500 | 89 | AT6 1050-30 | 38 | 31 | 25 | 16 | 1.23 | 0.90 | 0.07 | 0.23 | 2.7 | 30 |
| 550 | 89 | AT6 1055-30 | 41 | 33 | 27 | 18 | 1.23 | 0.90 | 0.08 | 0.25 | 3.0 | 30 |
| 600 | 89 | AT6 1060-30 | 45 | 36 | 29 | 19 | 1.24 | 1.00 | 0.09 | 0.27 | 3.2 | 30 |
| 650 | 89 | AT6 1065-30 | 48 | 39 | 31 | 20 | 1.24 | 1.10 | 0.09 | 0.29 | 3.4 | 30 |
| 700 | 89 | AT6 1070-30 | 51 | 41 | 33 | 22 | 1.24 | 1.20 | 0.10 | 0.31 | 3.6 | 30 |
| 750 | 89 | AT6 1075-30 | 55 | 44 | 35 | 23 | 1.24 | 1.20 | 0.11 | 0.33 | 3.8 | 30 |
| 800 | 89 | AT6 1080-30 | 58 | 46 | 38 | 24 | 1.24 | 1.30 | 0.11 | 0.35 | 4.1 | 30 |
| 900 | 89 | AT6 1090-30 | 64 | 52 | 42 | 27 | 1.24 | 1.40 | 0.12 | 0.39 | 4.5 | 30 |
| 1000 | 89 | AT6 1100-30 | 71 | 57 | 46 | 30 | 1.25 | 1.60 | 0.14 | 0.43 | 5.0 | 30 |
| 1100 | 89 | AT6 1110-30 | 77 | 62 | 50 | 32 | 1.25 | 1.70 | 0.15 | 0.46 | 5.4 | 30 |
| 1200 | 89 | AT6 1120-30 | 84 | 67 | 54 | 35 | 1.25 | 1.90 | 0.16 | 0.50 | 5.8 | 30 |
| 1250 | 89 | AT6 1125-30 | 87 | 70 | 56 | 37 | 1.25 | 2.00 | 0.17 | 0.52 | 6.1 | 30 |
| 1500 | 89 | AT6 1150-30 | 103 | 83 | 67 | 43 | 1.26 | 2.30 | 0.20 | 0.62 | 7.0 | 30 |
| 1600 | 89 | AT6 1160-30 | 110 | 88 | 71 | 46 | 1.26 | 2.50 | 0.22 | 0.66 | 7.5 | 30 |
| 1750 | 89 | AT6 1175-30 | 119 | 96 | 77 | 50 | 1.27 | 2.70 | 0.24 | 0.72 | 8.1 | 30 |
| 1800 | 89 | AT6 1180-30 | 121 | 97 | 78 | 50 | 1.27 | 2.80 | 0.24 | 0.74 | 8.3 | 30 |
| 1900 | 89 | AT6 1190-30 | 129 | 103 | 83 | 54 | 1.27 | 2.90 | 0.26 | 0.78 | 8.8 | 30 |
| 2000 | 89 | AT6 1200-30 | 136 | 109 | 87 | 56 | 1.27 | 3.10 | 0.27 | 0.81 | 9.2 | 30 |
| 2100 | 89 | AT6 1210-30 | 142 | 114 | 92 | 59 | 1.28 | 3.20 | 0.28 | 0.85 | 9.7 | 30 |
| 2200 | 89 | AT6 1220-30 | 149 | 119 | 96 | 61 | 1.28 | 3.40 | 0.30 | 0.89 | 10.1 | 30 |
| 2500 | 89 | AT6 1250-30 | 169 | 134 | 108 | 69 | 1.29 | 3.80 | 0.34 | 1.01 | 11.5 | 30 |
| 3000 | 89 | AT6 1300-30 | 202 | 160 | 129 | 82 | 1.30 | 4.60 | 0.40 | 1.20 | 13.8 | 30 |

For individual calculations of heat outputs, see "General information"

Technical data per element



Technical data per element

Spacing 30 mm, 2-row

| Height H [mm] | Depth T [mm] | Version | Heat output to EN 442 | | | | Exponent n [] | Mass per element M [kg/el.] | Surface per element A [m ² /el.] | Water content per element W [l/el.] | Standard water flow q _{ms} [kg/h el.] | Radiated portions [%] |
|---------------|--------------|-------------|---------------------------------|--|---------------------------------|---------------------------------|----------------|-----------------------------|---|-------------------------------------|--|-----------------------|
| | | | Φ ΔT 60K 90/70/20°C [watts/el.] | Φ _L ΔT 50K 75/65/20°C [watts/el.] | Φ ΔT 42K 70/55/20°C [watts/el.] | Φ ΔT 30K 55/45/20°C [watts/el.] | | | | | | |
| 350 | 146 | AT6 2035-30 | 49 | 39 | 32 | 20 | 1.25 | 1.15 | 0.10 | 0.31 | 3.4 | 25 |
| 400 | 146 | AT6 2040-30 | 55 | 45 | 36 | 23 | 1.25 | 1.30 | 0.11 | 0.35 | 3.8 | 25 |
| 450 | 146 | AT6 2045-30 | 60 | 49 | 39 | 25 | 1.25 | 1.50 | 0.13 | 0.38 | 4.3 | 25 |
| 500 | 146 | AT6 2050-30 | 66 | 53 | 43 | 28 | 1.25 | 1.60 | 0.14 | 0.42 | 4.7 | 25 |
| 550 | 146 | AT6 2055-30 | 71 | 57 | 46 | 30 | 1.25 | 1.80 | 0.15 | 0.46 | 5.2 | 25 |
| 600 | 146 | AT6 2060-30 | 76 | 61 | 49 | 32 | 1.26 | 1.90 | 0.16 | 0.50 | 5.5 | 25 |
| 650 | 146 | AT6 2065-30 | 81 | 65 | 52 | 34 | 1.26 | 2.00 | 0.18 | 0.54 | 5.9 | 25 |
| 700 | 146 | AT6 2070-30 | 86 | 69 | 56 | 36 | 1.26 | 2.20 | 0.19 | 0.58 | 6.3 | 25 |
| 750 | 146 | AT6 2075-30 | 91 | 73 | 59 | 38 | 1.26 | 2.30 | 0.20 | 0.62 | 6.7 | 25 |
| 800 | 146 | AT6 2080-30 | 96 | 77 | 62 | 40 | 1.26 | 2.50 | 0.22 | 0.66 | 7.2 | 25 |
| 900 | 146 | AT6 2090-30 | 106 | 85 | 69 | 44 | 1.26 | 2.80 | 0.24 | 0.73 | 8.0 | 25 |
| 1000 | 146 | AT6 2100-30 | 117 | 93 | 75 | 48 | 1.27 | 3.10 | 0.27 | 0.81 | 8.9 | 25 |
| 1100 | 146 | AT6 2110-30 | 127 | 101 | 82 | 53 | 1.27 | 3.40 | 0.30 | 0.89 | 9.6 | 25 |
| 1200 | 146 | AT6 2120-30 | 137 | 110 | 88 | 57 | 1.27 | 3.70 | 0.32 | 0.97 | 10.4 | 25 |
| 1250 | 146 | AT6 2125-30 | 142 | 114 | 92 | 59 | 1.27 | 3.80 | 0.34 | 1.01 | 10.9 | 25 |
| 1500 | 146 | AT6 2150-30 | 168 | 134 | 108 | 69 | 1.28 | 4.60 | 0.40 | 1.20 | 12.7 | 25 |
| 1600 | 146 | AT6 2160-30 | 178 | 142 | 114 | 73 | 1.28 | 4.90 | 0.43 | 1.28 | 13.6 | 25 |
| 1750 | 146 | AT6 2175-30 | 194 | 154 | 124 | 79 | 1.29 | 5.30 | 0.47 | 1.40 | 14.9 | 25 |
| 1800 | 146 | AT6 2180-30 | 200 | 159 | 128 | 82 | 1.29 | 5.50 | 0.48 | 1.43 | 15.3 | 25 |
| 1900 | 146 | AT6 2190-30 | 209 | 166 | 134 | 85 | 1.29 | 5.80 | 0.51 | 1.51 | 16.3 | 25 |
| 2000 | 146 | AT6 2200-30 | 219 | 175 | 140 | 90 | 1.29 | 6.10 | 0.53 | 1.59 | 17.2 | 25 |
| 2100 | 146 | AT6 2210-30 | 230 | 183 | 147 | 93 | 1.30 | 6.30 | 0.56 | 1.67 | 18.2 | 25 |
| 2200 | 146 | AT6 2220-30 | 240 | 191 | 153 | 97 | 1.30 | 6.60 | 0.59 | 1.75 | 19.2 | 25 |
| 2500 | 146 | AT6 2250-30 | 271 | 215 | 172 | 109 | 1.31 | 7.50 | 0.66 | 1.98 | 21.9 | 25 |
| 3000 | 146 | AT6 2300-30 | 323 | 256 | 205 | 129 | 1.32 | 9.00 | 0.80 | 2.37 | 26.3 | 25 |

Technical data per element

For individual calculations of heat outputs, see "General information"



Technical data per element

Spacing 35 mm, 1-row

| Height H [mm] | Depth T [mm] | Version | Heat output to EN 442 | | | | Exponent n [] | Mass per element M [kg/el.] | Surface per element A [m ² /el.] | Water content per element W [l/el.] | Standard water flow q _{ms} [kg/h el.] | Radiated portions [%] |
|---------------|--------------|-------------|---------------------------------|--|---------------------------------|---------------------------------|----------------|-----------------------------|---|-------------------------------------|--|-----------------------|
| | | | Φ ΔT 60K 90/70/20°C [watts/el.] | Φ _L ΔT 50K 75/65/20°C [watts/el.] | Φ ΔT 42K 70/55/20°C [watts/el.] | Φ ΔT 30K 55/45/20°C [watts/el.] | | | | | | |
| 350 | 89 | AT6 1035-35 | 30 | 24 | 19 | 13 | 1.23 | 0.64 | 0.05 | 0.18 | 2.0 | 30 |
| 400 | 89 | AT6 1040-35 | 33 | 27 | 22 | 14 | 1.23 | 0.70 | 0.06 | 0.20 | 2.3 | 30 |
| 450 | 89 | AT6 1045-35 | 37 | 30 | 24 | 16 | 1.23 | 0.80 | 0.07 | 0.22 | 2.6 | 30 |
| 500 | 89 | AT6 1050-35 | 40 | 32 | 26 | 17 | 1.23 | 0.90 | 0.07 | 0.24 | 2.8 | 30 |
| 550 | 89 | AT6 1055-35 | 43 | 35 | 28 | 18 | 1.23 | 0.90 | 0.08 | 0.26 | 3.1 | 30 |
| 600 | 89 | AT6 1060-35 | 47 | 38 | 31 | 20 | 1.23 | 1.00 | 0.09 | 0.28 | 3.3 | 30 |
| 650 | 89 | AT6 1065-35 | 50 | 40 | 33 | 21 | 1.23 | 1.10 | 0.09 | 0.30 | 3.5 | 30 |
| 700 | 89 | AT6 1070-35 | 54 | 43 | 35 | 23 | 1.24 | 1.20 | 0.10 | 0.31 | 3.7 | 30 |
| 750 | 89 | AT6 1075-35 | 57 | 46 | 37 | 24 | 1.24 | 1.20 | 0.11 | 0.33 | 4.0 | 30 |
| 800 | 89 | AT6 1080-35 | 60 | 48 | 39 | 25 | 1.24 | 1.30 | 0.11 | 0.35 | 4.2 | 30 |
| 900 | 89 | AT6 1090-35 | 67 | 54 | 44 | 28 | 1.24 | 1.50 | 0.13 | 0.39 | 4.7 | 30 |
| 1000 | 89 | AT6 1100-35 | 74 | 59 | 48 | 31 | 1.24 | 1.60 | 0.14 | 0.43 | 5.2 | 30 |
| 1100 | 89 | AT6 1110-35 | 81 | 65 | 52 | 34 | 1.25 | 1.80 | 0.15 | 0.47 | 5.5 | 30 |
| 1200 | 89 | AT6 1120-35 | 87 | 70 | 57 | 37 | 1.25 | 1.90 | 0.17 | 0.51 | 6.0 | 30 |
| 1250 | 89 | AT6 1125-35 | 91 | 73 | 59 | 38 | 1.25 | 2.00 | 0.17 | 0.53 | 6.2 | 30 |
| 1500 | 89 | AT6 1150-35 | 108 | 86 | 70 | 45 | 1.26 | 2.40 | 0.20 | 0.63 | 7.3 | 30 |
| 1600 | 89 | AT6 1160-35 | 115 | 92 | 74 | 48 | 1.26 | 2.50 | 0.22 | 0.66 | 7.7 | 30 |
| 1750 | 89 | AT6 1175-35 | 125 | 100 | 80 | 52 | 1.27 | 2.70 | 0.24 | 0.72 | 8.4 | 30 |
| 1800 | 89 | AT6 1180-35 | 128 | 102 | 82 | 53 | 1.27 | 2.80 | 0.24 | 0.74 | 8.6 | 30 |
| 1900 | 89 | AT6 1190-35 | 135 | 108 | 87 | 56 | 1.27 | 2.90 | 0.26 | 0.78 | 9.0 | 30 |
| 2000 | 89 | AT6 1200-35 | 142 | 113 | 91 | 59 | 1.27 | 3.10 | 0.27 | 0.82 | 9.5 | 30 |
| 2100 | 89 | AT6 1210-35 | 148 | 119 | 96 | 62 | 1.27 | 3.20 | 0.28 | 0.86 | 10.0 | 30 |
| 2200 | 89 | AT6 1220-35 | 156 | 124 | 100 | 64 | 1.28 | 3.40 | 0.30 | 0.90 | 10.4 | 30 |
| 2500 | 89 | AT6 1250-35 | 176 | 140 | 113 | 72 | 1.29 | 3.80 | 0.34 | 1.01 | 11.9 | 30 |
| 3000 | 89 | AT6 1300-35 | 211 | 167 | 134 | 85 | 1.30 | 4.60 | 0.40 | 1.21 | 14.2 | 30 |

For individual calculations of heat outputs, see "General information"

Technical data per element



Technical data per element

Spacing 35 mm, 2-row

| Height H [mm] | Depth T [mm] | Version | Heat output to EN 442 | | | | Exponent n [] | Mass per element M [kg/el.] | Surface per element A [m ² /el.] | Water content per element W [l/el.] | Standard water flow q _{ms} [kg/h el.] | Radiated portions [%] |
|---------------|--------------|-------------|---------------------------------|--|---------------------------------|---------------------------------|----------------|-----------------------------|---|-------------------------------------|--|-----------------------|
| | | | Φ ΔT 60K 90/70/20°C [watts/el.] | Φ _L ΔT 50K 75/65/20°C [watts/el.] | Φ ΔT 42K 70/55/20°C [watts/el.] | Φ ΔT 30K 55/45/20°C [watts/el.] | | | | | | |
| 350 | 146 | AT6 2035-35 | 50 | 40 | 32 | 21 | 1.25 | 1.17 | 0.10 | 0.31 | 3.5 | 25 |
| 400 | 146 | AT6 2040-35 | 57 | 46 | 37 | 24 | 1.25 | 1.30 | 0.11 | 0.35 | 3.9 | 25 |
| 450 | 146 | AT6 2045-35 | 63 | 50 | 41 | 26 | 1.25 | 1.50 | 0.13 | 0.39 | 4.4 | 25 |
| 500 | 146 | AT6 2050-35 | 68 | 55 | 44 | 29 | 1.25 | 1.60 | 0.14 | 0.43 | 4.8 | 25 |
| 550 | 146 | AT6 2055-35 | 73 | 59 | 48 | 31 | 1.25 | 1.80 | 0.15 | 0.47 | 5.3 | 25 |
| 600 | 146 | AT6 2060-35 | 79 | 63 | 51 | 33 | 1.25 | 1.90 | 0.17 | 0.51 | 5.7 | 25 |
| 650 | 146 | AT6 2065-35 | 84 | 67 | 55 | 35 | 1.25 | 2.10 | 0.18 | 0.55 | 6.0 | 25 |
| 700 | 146 | AT6 2070-35 | 90 | 72 | 58 | 37 | 1.26 | 2.20 | 0.19 | 0.59 | 6.5 | 25 |
| 750 | 146 | AT6 2075-35 | 95 | 76 | 61 | 40 | 1.26 | 2.40 | 0.21 | 0.62 | 6.9 | 25 |
| 800 | 146 | AT6 2080-35 | 100 | 80 | 65 | 42 | 1.26 | 2.50 | 0.22 | 0.66 | 7.4 | 25 |
| 900 | 146 | AT6 2090-35 | 111 | 89 | 72 | 46 | 1.26 | 2.80 | 0.24 | 0.74 | 8.2 | 25 |
| 1000 | 146 | AT6 2100-35 | 122 | 98 | 79 | 51 | 1.26 | 3.10 | 0.27 | 0.82 | 9.1 | 25 |
| 1100 | 146 | AT6 2110-35 | 133 | 106 | 86 | 55 | 1.27 | 3.40 | 0.30 | 0.90 | 9.8 | 25 |
| 1200 | 146 | AT6 2120-35 | 144 | 115 | 93 | 60 | 1.27 | 3.70 | 0.32 | 0.97 | 10.7 | 25 |
| 1250 | 146 | AT6 2125-35 | 149 | 119 | 96 | 62 | 1.27 | 3.80 | 0.34 | 1.01 | 11.2 | 25 |
| 1500 | 146 | AT6 2150-35 | 176 | 141 | 113 | 73 | 1.28 | 4.60 | 0.40 | 1.21 | 13.1 | 25 |
| 1600 | 146 | AT6 2160-35 | 187 | 149 | 120 | 77 | 1.28 | 4.90 | 0.43 | 1.29 | 13.9 | 25 |
| 1750 | 146 | AT6 2175-35 | 204 | 162 | 130 | 83 | 1.29 | 5.30 | 0.47 | 1.40 | 15.2 | 25 |
| 1800 | 146 | AT6 2180-35 | 213 | 170 | 137 | 87 | 1.29 | 5.50 | 0.48 | 1.44 | 15.6 | 25 |
| 1900 | 146 | AT6 2190-35 | 220 | 175 | 141 | 90 | 1.29 | 5.80 | 0.51 | 1.52 | 16.6 | 25 |
| 2000 | 146 | AT6 2200-35 | 231 | 184 | 148 | 94 | 1.29 | 6.10 | 0.53 | 1.60 | 17.5 | 25 |
| 2100 | 146 | AT6 2210-35 | 241 | 192 | 154 | 99 | 1.29 | 6.40 | 0.56 | 1.67 | 18.5 | 25 |
| 2200 | 146 | AT6 2220-35 | 253 | 201 | 161 | 103 | 1.30 | 6.70 | 0.59 | 1.75 | 19.4 | 25 |
| 2500 | 146 | AT6 2250-35 | 286 | 227 | 182 | 115 | 1.31 | 7.50 | 0.67 | 1.99 | 22.2 | 25 |
| 3000 | 146 | AT6 2300-35 | 340 | 270 | 216 | 136 | 1.32 | 9.00 | 0.80 | 2.37 | 26.7 | 25 |

Technical data per element

For individual calculations of heat outputs, see "General information"



Technical data per element

Spacing 40 mm, 1-row

| Height H [mm] | Depth T [mm] | Version | Heat output to EN 442 | | | | Exponent n [] | Mass per element M [kg/el.] | Surface per element A [m ² /el.] | Water content per element W [l/el.] | Standard water flow q _{ms} [kg/h el.] | Radiated portions [%] |
|---------------|--------------|-------------|---------------------------------|--|---------------------------------|---------------------------------|----------------|-----------------------------|---|-------------------------------------|--|-----------------------|
| | | | Φ ΔT 60K 90/70/20°C [watts/el.] | Φ _L ΔT 50K 75/65/20°C [watts/el.] | Φ ΔT 42K 70/55/20°C [watts/el.] | Φ ΔT 30K 55/45/20°C [watts/el.] | | | | | | |
| 300 | 89 | AT6 1030-40 | 27 | 22 | 17 | 11 | 1.22 | 0.60 | 0.05 | 0.17 | 1.9 | 30 |
| 350 | 89 | AT6 1035-40 | 30 | 25 | 20 | 13 | 1.22 | 0.70 | 0.05 | 0.19 | 2.1 | 30 |
| 400 | 89 | AT6 1040-40 | 35 | 28 | 23 | 15 | 1.23 | 0.70 | 0.06 | 0.20 | 2.4 | 30 |
| 450 | 89 | AT6 1045-40 | 38 | 31 | 25 | 16 | 1.23 | 0.80 | 0.07 | 0.22 | 2.6 | 30 |
| 500 | 89 | AT6 1050-40 | 42 | 34 | 27 | 18 | 1.23 | 0.90 | 0.07 | 0.24 | 2.9 | 30 |
| 550 | 89 | AT6 1055-40 | 45 | 36 | 30 | 19 | 1.23 | 1.00 | 0.08 | 0.26 | 3.1 | 30 |
| 600 | 89 | AT6 1060-40 | 49 | 39 | 32 | 21 | 1.23 | 1.00 | 0.09 | 0.28 | 3.4 | 30 |
| 650 | 89 | AT6 1065-40 | 52 | 42 | 34 | 22 | 1.23 | 1.10 | 0.09 | 0.30 | 3.6 | 30 |
| 700 | 89 | AT6 1070-40 | 56 | 45 | 36 | 24 | 1.23 | 1.20 | 0.10 | 0.32 | 3.8 | 30 |
| 750 | 89 | AT6 1075-40 | 59 | 48 | 39 | 25 | 1.23 | 1.30 | 0.11 | 0.34 | 4.1 | 30 |
| 800 | 89 | AT6 1080-40 | 63 | 51 | 41 | 27 | 1.24 | 1.30 | 0.11 | 0.36 | 4.3 | 30 |
| 900 | 89 | AT6 1090-40 | 70 | 56 | 45 | 30 | 1.24 | 1.50 | 0.13 | 0.40 | 4.8 | 30 |
| 1000 | 89 | AT6 1100-40 | 77 | 62 | 50 | 33 | 1.24 | 1.60 | 0.14 | 0.44 | 5.3 | 30 |
| 1100 | 89 | AT6 1110-40 | 84 | 67 | 55 | 36 | 1.24 | 1.80 | 0.15 | 0.48 | 5.7 | 30 |
| 1200 | 89 | AT6 1120-40 | 91 | 73 | 59 | 38 | 1.25 | 1.90 | 0.17 | 0.52 | 6.2 | 30 |
| 1250 | 89 | AT6 1125-40 | 94 | 76 | 61 | 40 | 1.25 | 2.00 | 0.17 | 0.54 | 6.4 | 30 |
| 1500 | 89 | AT6 1150-40 | 112 | 90 | 73 | 47 | 1.26 | 2.40 | 0.21 | 0.63 | 7.5 | 30 |
| 1600 | 89 | AT6 1160-40 | 119 | 96 | 77 | 50 | 1.26 | 2.50 | 0.22 | 0.67 | 7.9 | 30 |
| 1750 | 89 | AT6 1175-40 | 130 | 104 | 84 | 54 | 1.26 | 2.70 | 0.24 | 0.73 | 8.6 | 30 |
| 1800 | 89 | AT6 1180-40 | 132 | 106 | 86 | 55 | 1.26 | 2.80 | 0.25 | 0.75 | 8.8 | 30 |
| 1900 | 89 | AT6 1190-40 | 141 | 113 | 91 | 58 | 1.27 | 3.00 | 0.26 | 0.79 | 9.3 | 30 |
| 2000 | 89 | AT6 1200-40 | 148 | 118 | 95 | 61 | 1.27 | 3.10 | 0.27 | 0.83 | 9.8 | 30 |
| 2100 | 89 | AT6 1210-40 | 155 | 124 | 100 | 64 | 1.27 | 3.30 | 0.28 | 0.87 | 10.3 | 30 |
| 2200 | 89 | AT6 1220-40 | 162 | 129 | 104 | 67 | 1.27 | 3.40 | 0.30 | 0.90 | 10.7 | 30 |
| 2500 | 89 | AT6 1250-40 | 183 | 146 | 118 | 75 | 1.28 | 3.90 | 0.34 | 1.02 | 12.2 | 30 |
| 3000 | 89 | AT6 1300-40 | 220 | 175 | 140 | 89 | 1.30 | 4.60 | 0.40 | 1.22 | 14.6 | 30 |

For individual calculations of heat outputs, see "General information"

Technical data per element



Technical data per element

Spacing 40 mm, 2-row

| Height H [mm] | Depth T [mm] | Version | Heat output to EN 442 | | | | Exponent n [] | Mass per element M [kg/el.] | Surface per element A [m ² /el.] | Water content per element W [l/el.] | Standard water flow q _{ms} [kg/h el.] | Radiated portions [%] |
|---------------|--------------|-------------|---------------------------------|--|---------------------------------|---------------------------------|----------------|-----------------------------|---|-------------------------------------|--|-----------------------|
| | | | Φ ΔT 60K 90/70/20°C [watts/el.] | Φ _L ΔT 50K 75/65/20°C [watts/el.] | Φ ΔT 42K 70/55/20°C [watts/el.] | Φ ΔT 30K 55/45/20°C [watts/el.] | | | | | | |
| 300 | 146 | AT6 2030-40 | 45 | 36 | 29 | 19 | 1.24 | 1.00 | 0.09 | 0.28 | 3.1 | 25 |
| 350 | 146 | AT6 2035-40 | 51 | 41 | 33 | 22 | 1.24 | 1.20 | 0.10 | 0.32 | 3.6 | 25 |
| 400 | 146 | AT6 2040-40 | 59 | 47 | 38 | 25 | 1.25 | 1.30 | 0.11 | 0.36 | 4.0 | 25 |
| 450 | 146 | AT6 2045-40 | 65 | 52 | 42 | 27 | 1.25 | 1.50 | 0.13 | 0.40 | 4.5 | 25 |
| 500 | 146 | AT6 2050-40 | 70 | 56 | 46 | 30 | 1.25 | 1.60 | 0.14 | 0.44 | 4.9 | 25 |
| 550 | 146 | AT6 2055-40 | 76 | 61 | 49 | 32 | 1.25 | 1.80 | 0.15 | 0.48 | 5.4 | 25 |
| 600 | 146 | AT6 2060-40 | 82 | 66 | 53 | 34 | 1.25 | 1.90 | 0.17 | 0.51 | 5.8 | 25 |
| 650 | 146 | AT6 2065-40 | 87 | 70 | 57 | 37 | 1.25 | 2.10 | 0.18 | 0.55 | 6.2 | 25 |
| 700 | 146 | AT6 2070-40 | 93 | 75 | 60 | 39 | 1.25 | 2.20 | 0.19 | 0.59 | 6.6 | 25 |
| 750 | 146 | AT6 2075-40 | 99 | 79 | 64 | 42 | 1.25 | 2.40 | 0.21 | 0.63 | 7.1 | 25 |
| 800 | 146 | AT6 2080-40 | 105 | 84 | 68 | 44 | 1.26 | 2.50 | 0.22 | 0.67 | 7.6 | 25 |
| 900 | 146 | AT6 2090-40 | 116 | 93 | 75 | 48 | 1.26 | 2.80 | 0.25 | 0.75 | 8.4 | 25 |
| 1000 | 146 | AT6 2100-40 | 127 | 102 | 82 | 53 | 1.26 | 3.10 | 0.27 | 0.83 | 9.3 | 25 |
| 1100 | 146 | AT6 2110-40 | 139 | 111 | 90 | 58 | 1.26 | 3.40 | 0.30 | 0.90 | 10.1 | 25 |
| 1200 | 146 | AT6 2120-40 | 150 | 120 | 97 | 62 | 1.27 | 3.70 | 0.32 | 0.98 | 10.9 | 25 |
| 1250 | 146 | AT6 2125-40 | 156 | 125 | 100 | 65 | 1.27 | 3.90 | 0.34 | 1.02 | 11.4 | 25 |
| 1500 | 146 | AT6 2150-40 | 185 | 147 | 119 | 76 | 1.28 | 4.60 | 0.40 | 1.21 | 13.4 | 25 |
| 1600 | 146 | AT6 2160-40 | 196 | 157 | 126 | 81 | 1.28 | 4.90 | 0.43 | 1.29 | 14.2 | 25 |
| 1750 | 146 | AT6 2175-40 | 213 | 170 | 137 | 88 | 1.28 | 5.30 | 0.47 | 1.41 | 15.5 | 25 |
| 1800 | 146 | AT6 2180-40 | 224 | 179 | 144 | 92 | 1.28 | 5.50 | 0.48 | 1.45 | 15.9 | 25 |
| 1900 | 146 | AT6 2190-40 | 231 | 184 | 148 | 94 | 1.29 | 5.80 | 0.51 | 1.53 | 16.9 | 25 |
| 2000 | 146 | AT6 2200-40 | 242 | 193 | 155 | 99 | 1.29 | 6.10 | 0.53 | 1.60 | 17.8 | 25 |
| 2100 | 146 | AT6 2210-40 | 253 | 202 | 162 | 104 | 1.29 | 6.40 | 0.56 | 1.68 | 18.8 | 25 |
| 2200 | 146 | AT6 2220-40 | 265 | 211 | 170 | 108 | 1.29 | 6.70 | 0.59 | 1.76 | 19.7 | 25 |
| 2500 | 146 | AT6 2250-40 | 300 | 238 | 191 | 122 | 1.30 | 7.60 | 0.67 | 1.99 | 22.4 | 25 |
| 3000 | 146 | AT6 2300-40 | 358 | 284 | 227 | 143 | 1.32 | 9.00 | 0.80 | 2.38 | 26.9 | 25 |

Technical data per element

For individual calculations of heat outputs, see "General information"



Technical data per element

Spacing 45 mm, 1-row

| Height H [mm] | Depth T [mm] | Version | Heat output to EN 442 | | | | Exponent n [] | Mass per element M [kg/el.] | Surface per element A [m ² /el.] | Water content per element W [l/el.] | Standard water flow q _{ms} [kg/h el.] | Radiated portions [%] |
|---------------|--------------|-------------|---------------------------------|--|---------------------------------|---------------------------------|----------------|-----------------------------|---|-------------------------------------|--|-----------------------|
| | | | Φ ΔT 60K 90/70/20°C [watts/el.] | Φ _L ΔT 50K 75/65/20°C [watts/el.] | Φ ΔT 42K 70/55/20°C [watts/el.] | Φ ΔT 30K 55/45/20°C [watts/el.] | | | | | | |
| 300 | 89 | AT6 1030-45 | 28 | 22 | 18 | 12 | 1.22 | 0.60 | 0.05 | 0.17 | 1.9 | 30 |
| 350 | 89 | AT6 1035-45 | 31 | 25 | 20 | 13 | 1.22 | 0.70 | 0.06 | 0.19 | 2.2 | 30 |
| 400 | 89 | AT6 1040-45 | 36 | 29 | 24 | 15 | 1.22 | 0.80 | 0.06 | 0.21 | 2.4 | 30 |
| 450 | 89 | AT6 1045-45 | 40 | 32 | 26 | 17 | 1.22 | 0.80 | 0.07 | 0.23 | 2.7 | 30 |
| 500 | 89 | AT6 1050-45 | 43 | 35 | 28 | 18 | 1.23 | 0.90 | 0.08 | 0.25 | 3.0 | 30 |
| 550 | 89 | AT6 1055-45 | 47 | 38 | 31 | 20 | 1.23 | 1.00 | 0.08 | 0.27 | 3.2 | 30 |
| 600 | 89 | AT6 1060-45 | 51 | 41 | 33 | 22 | 1.23 | 1.10 | 0.09 | 0.29 | 3.5 | 30 |
| 650 | 89 | AT6 1065-45 | 54 | 44 | 35 | 23 | 1.23 | 1.10 | 0.10 | 0.31 | 3.7 | 30 |
| 700 | 89 | AT6 1070-45 | 58 | 47 | 38 | 25 | 1.23 | 1.20 | 0.10 | 0.33 | 3.9 | 30 |
| 750 | 89 | AT6 1075-45 | 62 | 50 | 40 | 26 | 1.23 | 1.30 | 0.11 | 0.35 | 4.2 | 30 |
| 800 | 89 | AT6 1080-45 | 65 | 53 | 43 | 28 | 1.23 | 1.30 | 0.11 | 0.37 | 4.5 | 30 |
| 900 | 89 | AT6 1090-45 | 73 | 58 | 47 | 31 | 1.24 | 1.50 | 0.13 | 0.41 | 4.9 | 30 |
| 1000 | 89 | AT6 1100-45 | 80 | 64 | 52 | 34 | 1.24 | 1.60 | 0.14 | 0.44 | 5.4 | 30 |
| 1100 | 89 | AT6 1110-45 | 87 | 70 | 57 | 37 | 1.24 | 1.80 | 0.15 | 0.48 | 5.9 | 30 |
| 1200 | 89 | AT6 1120-45 | 95 | 76 | 62 | 40 | 1.24 | 1.90 | 0.17 | 0.52 | 6.3 | 30 |
| 1250 | 89 | AT6 1125-45 | 98 | 79 | 64 | 41 | 1.25 | 2.00 | 0.17 | 0.54 | 6.6 | 30 |
| 1500 | 89 | AT6 1150-45 | 117 | 94 | 76 | 49 | 1.25 | 2.40 | 0.21 | 0.64 | 7.7 | 30 |
| 1600 | 89 | AT6 1160-45 | 124 | 100 | 80 | 52 | 1.26 | 2.50 | 0.22 | 0.68 | 8.2 | 30 |
| 1750 | 89 | AT6 1175-45 | 135 | 108 | 87 | 56 | 1.26 | 2.80 | 0.24 | 0.74 | 8.9 | 30 |
| 1800 | 89 | AT6 1180-45 | 137 | 110 | 89 | 57 | 1.26 | 2.80 | 0.25 | 0.76 | 9.1 | 30 |
| 1900 | 89 | AT6 1190-45 | 146 | 117 | 95 | 61 | 1.26 | 3.00 | 0.26 | 0.79 | 9.6 | 30 |
| 2000 | 89 | AT6 1200-45 | 154 | 123 | 99 | 64 | 1.27 | 3.10 | 0.27 | 0.83 | 10.1 | 30 |
| 2100 | 89 | AT6 1210-45 | 161 | 129 | 104 | 67 | 1.27 | 3.30 | 0.29 | 0.87 | 10.6 | 30 |
| 2200 | 89 | AT6 1220-45 | 169 | 135 | 109 | 70 | 1.27 | 3.40 | 0.30 | 0.91 | 11.0 | 30 |
| 2500 | 89 | AT6 1250-45 | 191 | 152 | 123 | 79 | 1.28 | 3.90 | 0.34 | 1.03 | 12.5 | 30 |
| 3000 | 89 | AT6 1300-45 | 228 | 182 | 146 | 93 | 1.29 | 4.60 | 0.40 | 1.22 | 15.0 | 30 |

For individual calculations of heat outputs, see "General information"

Technical data per element



Technical data per element

Spacing 45 mm, 2-row

| Height H [mm] | Depth T [mm] | Version | Heat output to EN 442 | | | | Exponent n [] | Mass per element M [kg/el.] | Surface per element A [m ² /el.] | Water content per element W [l/el.] | Standard water flow q _{ms} [kg/h el.] | Radiated portions [%] |
|---------------|--------------|-------------|---------------------------------|--|---------------------------------|---------------------------------|----------------|-----------------------------|---|-------------------------------------|--|-----------------------|
| | | | Φ ΔT 60K 90/70/20°C [watts/el.] | Φ _L ΔT 50K 75/65/20°C [watts/el.] | Φ ΔT 42K 70/55/20°C [watts/el.] | Φ ΔT 30K 55/45/20°C [watts/el.] | | | | | | |
| 300 | 146 | AT6 2030-45 | 46 | 37 | 30 | 19 | 1.24 | 1.10 | 0.09 | 0.29 | 3.2 | 25 |
| 350 | 146 | AT6 2035-45 | 53 | 42 | 34 | 22 | 1.24 | 1.20 | 0.10 | 0.33 | 3.6 | 25 |
| 400 | 146 | AT6 2040-45 | 61 | 49 | 40 | 26 | 1.24 | 1.40 | 0.12 | 0.36 | 4.1 | 25 |
| 450 | 146 | AT6 2045-45 | 67 | 54 | 43 | 28 | 1.24 | 1.50 | 0.13 | 0.40 | 4.5 | 25 |
| 500 | 146 | AT6 2050-45 | 73 | 58 | 47 | 31 | 1.25 | 1.70 | 0.14 | 0.44 | 5.0 | 25 |
| 550 | 146 | AT6 2055-45 | 79 | 63 | 51 | 33 | 1.25 | 1.80 | 0.15 | 0.48 | 5.5 | 25 |
| 600 | 146 | AT6 2060-45 | 85 | 68 | 55 | 36 | 1.25 | 2.00 | 0.17 | 0.52 | 5.9 | 25 |
| 650 | 146 | AT6 2065-45 | 91 | 73 | 59 | 38 | 1.25 | 2.10 | 0.18 | 0.56 | 6.3 | 25 |
| 700 | 146 | AT6 2070-45 | 97 | 78 | 63 | 41 | 1.25 | 2.20 | 0.19 | 0.60 | 6.8 | 25 |
| 750 | 146 | AT6 2075-45 | 103 | 82 | 67 | 43 | 1.25 | 2.40 | 0.21 | 0.64 | 7.3 | 25 |
| 800 | 146 | AT6 2080-45 | 109 | 87 | 70 | 46 | 1.25 | 2.50 | 0.22 | 0.68 | 7.8 | 25 |
| 900 | 146 | AT6 2090-45 | 121 | 97 | 78 | 50 | 1.26 | 2.80 | 0.25 | 0.75 | 8.6 | 25 |
| 1000 | 146 | AT6 2100-45 | 133 | 106 | 86 | 55 | 1.26 | 3.10 | 0.27 | 0.83 | 9.6 | 25 |
| 1100 | 146 | AT6 2110-45 | 145 | 116 | 94 | 60 | 1.26 | 3.40 | 0.30 | 0.91 | 10.4 | 25 |
| 1200 | 146 | AT6 2120-45 | 157 | 125 | 101 | 65 | 1.26 | 3.70 | 0.33 | 0.99 | 11.2 | 25 |
| 1250 | 146 | AT6 2125-45 | 163 | 130 | 105 | 68 | 1.27 | 3.90 | 0.34 | 1.03 | 11.7 | 25 |
| 1500 | 146 | AT6 2150-45 | 193 | 154 | 124 | 80 | 1.27 | 4.60 | 0.40 | 1.22 | 13.7 | 25 |
| 1600 | 146 | AT6 2160-45 | 205 | 164 | 132 | 84 | 1.28 | 4.90 | 0.43 | 1.30 | 14.5 | 25 |
| 1750 | 146 | AT6 2175-45 | 223 | 178 | 143 | 92 | 1.28 | 5.40 | 0.47 | 1.41 | 15.8 | 25 |
| 1800 | 146 | AT6 2180-45 | 236 | 189 | 152 | 97 | 1.28 | 5.50 | 0.48 | 1.45 | 16.2 | 25 |
| 1900 | 146 | AT6 2190-45 | 241 | 192 | 155 | 99 | 1.28 | 5.80 | 0.51 | 1.53 | 17.1 | 25 |
| 2000 | 146 | AT6 2200-45 | 253 | 202 | 162 | 104 | 1.29 | 6.10 | 0.54 | 1.61 | 18.1 | 25 |
| 2100 | 146 | AT6 2210-45 | 266 | 212 | 170 | 109 | 1.29 | 6.40 | 0.56 | 1.69 | 19.0 | 25 |
| 2200 | 146 | AT6 2220-45 | 278 | 221 | 178 | 114 | 1.29 | 6.70 | 0.59 | 1.76 | 20.0 | 25 |
| 2500 | 146 | AT6 2250-45 | 314 | 250 | 200 | 128 | 1.30 | 7.60 | 0.67 | 2.00 | 22.7 | 25 |
| 3000 | 146 | AT6 2300-45 | 375 | 298 | 238 | 151 | 1.31 | 9.10 | 0.80 | 2.39 | 27.2 | 25 |

Technical data per element

For individual calculations of heat outputs, see "General information"



Technical data per element

Spacing 50 mm, 1-row

| Height H [mm] | Depth T [mm] | Version | Heat output to EN 442 | | | | Exponent n [] | Mass per element M [kg/el.] | Surface per element A [m ² /el.] | Water content per element W [l/el.] | Standard water flow q _{ms} [kg/h el.] | Radiated portions [%] |
|---------------|--------------|-------------|---------------------------------|--|---------------------------------|---------------------------------|----------------|-----------------------------|---|-------------------------------------|--|-----------------------|
| | | | Φ ΔT 60K 90/70/20°C [watts/el.] | Φ _L ΔT 50K 75/65/20°C [watts/el.] | Φ ΔT 42K 70/55/20°C [watts/el.] | Φ ΔT 30K 55/45/20°C [watts/el.] | | | | | | |
| 300 | 89 | AT6 1030-50 | 29 | 23 | 19 | 12 | 1.22 | 0.60 | 0.05 | 0.18 | 2.0 | 30 |
| 350 | 89 | AT6 1035-50 | 32 | 26 | 21 | 14 | 1.22 | 0.70 | 0.06 | 0.20 | 2.2 | 30 |
| 400 | 89 | AT6 1040-50 | 37 | 30 | 25 | 16 | 1.22 | 0.80 | 0.06 | 0.22 | 2.5 | 30 |
| 450 | 89 | AT6 1045-50 | 41 | 33 | 27 | 18 | 1.22 | 0.80 | 0.07 | 0.24 | 2.7 | 30 |
| 500 | 89 | AT6 1050-50 | 45 | 36 | 30 | 19 | 1.22 | 0.90 | 0.08 | 0.26 | 3.0 | 30 |
| 550 | 89 | AT6 1055-50 | 49 | 39 | 32 | 21 | 1.22 | 1.00 | 0.08 | 0.28 | 3.3 | 30 |
| 600 | 89 | AT6 1060-50 | 53 | 42 | 34 | 22 | 1.23 | 1.10 | 0.09 | 0.30 | 3.6 | 30 |
| 650 | 89 | AT6 1065-50 | 56 | 45 | 37 | 24 | 1.23 | 1.10 | 0.10 | 0.31 | 3.8 | 30 |
| 700 | 89 | AT6 1070-50 | 60 | 49 | 39 | 26 | 1.23 | 1.20 | 0.10 | 0.33 | 4.1 | 30 |
| 750 | 89 | AT6 1075-50 | 64 | 52 | 42 | 27 | 1.23 | 1.30 | 0.11 | 0.35 | 4.3 | 30 |
| 800 | 89 | AT6 1080-50 | 68 | 55 | 44 | 29 | 1.23 | 1.40 | 0.12 | 0.37 | 4.6 | 30 |
| 900 | 89 | AT6 1090-50 | 75 | 61 | 49 | 32 | 1.23 | 1.50 | 0.13 | 0.41 | 5.1 | 30 |
| 1000 | 89 | AT6 1100-50 | 83 | 67 | 54 | 35 | 1.24 | 1.70 | 0.14 | 0.45 | 5.6 | 30 |
| 1100 | 89 | AT6 1110-50 | 91 | 73 | 59 | 38 | 1.24 | 1.80 | 0.16 | 0.49 | 6.0 | 30 |
| 1200 | 89 | AT6 1120-50 | 98 | 79 | 64 | 42 | 1.24 | 2.00 | 0.17 | 0.53 | 6.5 | 30 |
| 1250 | 89 | AT6 1125-50 | 102 | 82 | 66 | 43 | 1.24 | 2.00 | 0.17 | 0.55 | 6.8 | 30 |
| 1500 | 89 | AT6 1150-50 | 121 | 97 | 79 | 51 | 1.25 | 2.40 | 0.21 | 0.65 | 7.9 | 30 |
| 1600 | 89 | AT6 1160-50 | 129 | 103 | 84 | 54 | 1.25 | 2.60 | 0.22 | 0.68 | 8.4 | 30 |
| 1750 | 89 | AT6 1175-50 | 140 | 113 | 91 | 59 | 1.26 | 2.80 | 0.24 | 0.74 | 9.1 | 30 |
| 1800 | 89 | AT6 1180-50 | 144 | 115 | 93 | 60 | 1.26 | 2.80 | 0.25 | 0.76 | 9.3 | 30 |
| 1900 | 89 | AT6 1190-50 | 152 | 122 | 98 | 63 | 1.26 | 3.00 | 0.26 | 0.80 | 9.8 | 30 |
| 2000 | 89 | AT6 1200-50 | 160 | 128 | 103 | 67 | 1.26 | 3.10 | 0.27 | 0.84 | 10.3 | 30 |
| 2100 | 89 | AT6 1210-50 | 168 | 134 | 108 | 69 | 1.27 | 3.30 | 0.29 | 0.88 | 10.8 | 30 |
| 2200 | 89 | AT6 1220-50 | 175 | 140 | 113 | 73 | 1.27 | 3.40 | 0.30 | 0.92 | 11.3 | 30 |
| 2500 | 89 | AT6 1250-50 | 198 | 158 | 127 | 82 | 1.28 | 3.90 | 0.34 | 1.03 | 12.9 | 30 |
| 3000 | 89 | AT6 1300-50 | 237 | 189 | 152 | 97 | 1.29 | 4.60 | 0.40 | 1.23 | 15.4 | 30 |

For individual calculations of heat outputs, see "General information"

Technical data per element



Technical data per element

Spacing 50 mm, 2-row

| Height H [mm] | Depth T [mm] | Version | Heat output to EN 442 | | | | Exponent n [] | Mass per element M [kg/el.] | Surface per element A [m ² /el.] | Water content per element W [l/el.] | Standard water flow q _{ms} [kg/h el.] | Radiated portions [%] |
|---------------|--------------|-------------|---------------------------------|--|---------------------------------|---------------------------------|----------------|-----------------------------|---|-------------------------------------|--|-----------------------|
| | | | Φ ΔT 60K 90/70/20°C [watts/el.] | Φ _L ΔT 50K 75/65/20°C [watts/el.] | Φ ΔT 42K 70/55/20°C [watts/el.] | Φ ΔT 30K 55/45/20°C [watts/el.] | | | | | | |
| 300 | 146 | AT6 2030-50 | 47 | 38 | 31 | 20 | 1.24 | 1.10 | 0.09 | 0.29 | 3.3 | 25 |
| 350 | 146 | AT6 2035-50 | 54 | 43 | 35 | 23 | 1.24 | 1.20 | 0.10 | 0.33 | 3.7 | 25 |
| 400 | 146 | AT6 2040-50 | 62 | 50 | 41 | 26 | 1.24 | 1.40 | 0.12 | 0.37 | 4.2 | 25 |
| 450 | 146 | AT6 2045-50 | 69 | 55 | 45 | 29 | 1.24 | 1.50 | 0.13 | 0.41 | 4.6 | 25 |
| 500 | 146 | AT6 2050-50 | 75 | 60 | 49 | 32 | 1.24 | 1.70 | 0.14 | 0.45 | 5.1 | 25 |
| 550 | 146 | AT6 2055-50 | 81 | 65 | 53 | 34 | 1.24 | 1.80 | 0.16 | 0.49 | 5.6 | 25 |
| 600 | 146 | AT6 2060-50 | 88 | 70 | 57 | 37 | 1.25 | 2.00 | 0.17 | 0.53 | 6.1 | 25 |
| 650 | 146 | AT6 2065-50 | 94 | 75 | 61 | 40 | 1.25 | 2.10 | 0.18 | 0.57 | 6.5 | 25 |
| 700 | 146 | AT6 2070-50 | 100 | 80 | 65 | 42 | 1.25 | 2.30 | 0.20 | 0.60 | 7.0 | 25 |
| 750 | 146 | AT6 2075-50 | 106 | 85 | 69 | 45 | 1.25 | 2.40 | 0.21 | 0.64 | 7.5 | 25 |
| 800 | 146 | AT6 2080-50 | 113 | 90 | 73 | 47 | 1.25 | 2.60 | 0.22 | 0.68 | 8.0 | 25 |
| 900 | 146 | AT6 2090-50 | 125 | 101 | 81 | 53 | 1.25 | 2.90 | 0.25 | 0.76 | 8.9 | 25 |
| 1000 | 146 | AT6 2100-50 | 138 | 111 | 89 | 58 | 1.26 | 3.20 | 0.27 | 0.84 | 9.8 | 25 |
| 1100 | 146 | AT6 2110-50 | 151 | 121 | 97 | 63 | 1.26 | 3.40 | 0.30 | 0.92 | 10.6 | 25 |
| 1200 | 146 | AT6 2120-50 | 163 | 131 | 106 | 68 | 1.26 | 3.70 | 0.33 | 0.99 | 11.5 | 25 |
| 1250 | 146 | AT6 2125-50 | 169 | 136 | 110 | 71 | 1.26 | 3.90 | 0.34 | 1.03 | 12.0 | 25 |
| 1500 | 146 | AT6 2150-50 | 201 | 161 | 130 | 83 | 1.27 | 4.60 | 0.41 | 1.23 | 14.0 | 25 |
| 1600 | 146 | AT6 2160-50 | 214 | 171 | 138 | 89 | 1.27 | 4.90 | 0.43 | 1.30 | 14.8 | 25 |
| 1750 | 146 | AT6 2175-50 | 233 | 186 | 150 | 96 | 1.28 | 5.40 | 0.47 | 1.42 | 16.1 | 25 |
| 1800 | 146 | AT6 2180-50 | 240 | 192 | 154 | 99 | 1.28 | 5.50 | 0.48 | 1.46 | 16.5 | 25 |
| 1900 | 146 | AT6 2190-50 | 252 | 201 | 162 | 104 | 1.28 | 5.80 | 0.51 | 1.54 | 17.4 | 25 |
| 2000 | 146 | AT6 2200-50 | 265 | 211 | 170 | 109 | 1.28 | 6.10 | 0.54 | 1.62 | 18.3 | 25 |
| 2100 | 146 | AT6 2210-50 | 278 | 221 | 178 | 114 | 1.29 | 6.40 | 0.56 | 1.69 | 19.3 | 25 |
| 2200 | 146 | AT6 2220-50 | 290 | 231 | 186 | 119 | 1.29 | 6.70 | 0.59 | 1.77 | 20.2 | 25 |
| 2500 | 146 | AT6 2250-50 | 329 | 261 | 210 | 133 | 1.30 | 7.60 | 0.67 | 2.00 | 22.9 | 25 |
| 3000 | 146 | AT6 2300-50 | 393 | 312 | 249 | 158 | 1.31 | 9.10 | 0.80 | 2.39 | 27.5 | 25 |

Technical data per element

For individual calculations of heat outputs, see "General information"



Technical data per element

Spacing 55 mm, 1-row

| Height H [mm] | Depth T [mm] | Version | Heat output to EN 442 | | | | Exponent n [] | Mass per element M [kg/el.] | Surface per element A [m ² /el.] | Water content per element W [l/el.] | Standard water flow q _{ms} [kg/h el.] | Radiated portions [%] |
|---------------|--------------|-------------|---------------------------------|--|---------------------------------|---------------------------------|----------------|-----------------------------|---|-------------------------------------|--|-----------------------|
| | | | Φ ΔT 60K 90/70/20°C [watts/el.] | Φ _L ΔT 50K 75/65/20°C [watts/el.] | Φ ΔT 42K 70/55/20°C [watts/el.] | Φ ΔT 30K 55/45/20°C [watts/el.] | | | | | | |
| 300 | 89 | AT6 1030-55 | 29 | 24 | 19 | 13 | 1.21 | 0.60 | 0.05 | 0.18 | 2.0 | 30 |
| 350 | 89 | AT6 1035-55 | 33 | 27 | 22 | 14 | 1.22 | 0.70 | 0.06 | 0.20 | 2.3 | 30 |
| 400 | 89 | AT6 1040-55 | 39 | 31 | 25 | 17 | 1.22 | 0.80 | 0.06 | 0.22 | 2.6 | 30 |
| 450 | 89 | AT6 1045-55 | 43 | 34 | 28 | 18 | 1.22 | 0.90 | 0.07 | 0.24 | 2.8 | 30 |
| 500 | 89 | AT6 1050-55 | 46 | 37 | 30 | 20 | 1.22 | 0.90 | 0.08 | 0.26 | 3.1 | 30 |
| 550 | 89 | AT6 1055-55 | 50 | 41 | 33 | 22 | 1.22 | 1.00 | 0.08 | 0.28 | 3.4 | 30 |
| 600 | 89 | AT6 1060-55 | 54 | 44 | 35 | 23 | 1.22 | 1.10 | 0.09 | 0.30 | 3.6 | 30 |
| 650 | 89 | AT6 1065-55 | 58 | 47 | 38 | 25 | 1.22 | 1.20 | 0.10 | 0.32 | 3.9 | 30 |
| 700 | 89 | AT6 1070-55 | 62 | 50 | 40 | 26 | 1.23 | 1.20 | 0.10 | 0.34 | 4.2 | 30 |
| 750 | 89 | AT6 1075-55 | 66 | 53 | 43 | 28 | 1.23 | 1.30 | 0.11 | 0.36 | 4.4 | 30 |
| 800 | 89 | AT6 1080-55 | 70 | 56 | 46 | 30 | 1.23 | 1.40 | 0.12 | 0.38 | 4.7 | 30 |
| 900 | 89 | AT6 1090-55 | 77 | 62 | 51 | 33 | 1.23 | 1.50 | 0.13 | 0.42 | 5.2 | 30 |
| 1000 | 89 | AT6 1100-55 | 85 | 69 | 56 | 36 | 1.23 | 1.70 | 0.14 | 0.46 | 5.7 | 30 |
| 1100 | 89 | AT6 1110-55 | 93 | 75 | 61 | 39 | 1.24 | 1.80 | 0.16 | 0.50 | 6.2 | 30 |
| 1200 | 89 | AT6 1120-55 | 101 | 81 | 66 | 43 | 1.24 | 2.00 | 0.17 | 0.53 | 6.7 | 30 |
| 1250 | 89 | AT6 1125-55 | 105 | 84 | 68 | 44 | 1.24 | 2.00 | 0.18 | 0.55 | 7.0 | 30 |
| 1500 | 89 | AT6 1150-55 | 124 | 100 | 81 | 52 | 1.25 | 2.40 | 0.21 | 0.65 | 8.1 | 30 |
| 1600 | 89 | AT6 1160-55 | 132 | 106 | 86 | 56 | 1.25 | 2.60 | 0.22 | 0.69 | 8.6 | 30 |
| 1750 | 89 | AT6 1175-55 | 144 | 115 | 93 | 60 | 1.25 | 2.80 | 0.24 | 0.75 | 9.3 | 30 |
| 1800 | 89 | AT6 1180-55 | 146 | 117 | 94 | 61 | 1.26 | 2.90 | 0.25 | 0.77 | 9.6 | 30 |
| 1900 | 89 | AT6 1190-55 | 156 | 125 | 101 | 65 | 1.26 | 3.00 | 0.26 | 0.81 | 10.1 | 30 |
| 2000 | 89 | AT6 1200-55 | 164 | 131 | 106 | 68 | 1.26 | 3.20 | 0.27 | 0.85 | 10.6 | 30 |
| 2100 | 89 | AT6 1210-55 | 171 | 137 | 111 | 72 | 1.26 | 3.30 | 0.29 | 0.88 | 11.1 | 30 |
| 2200 | 89 | AT6 1220-55 | 180 | 144 | 116 | 74 | 1.27 | 3.50 | 0.30 | 0.92 | 11.6 | 30 |
| 2500 | 89 | AT6 1250-55 | 203 | 162 | 131 | 84 | 1.28 | 3.90 | 0.34 | 1.04 | 13.2 | 30 |
| 3000 | 89 | AT6 1300-55 | 243 | 193 | 155 | 99 | 1.29 | 4.60 | 0.41 | 1.23 | 15.8 | 30 |

For individual calculations of heat outputs, see "General information"

Technical data per element



Technical data per element

Spacing 55 mm, 2-row

| Height H [mm] | Depth T [mm] | Version | Heat output to EN 442 | | | | Exponent n [] | Mass per element M [kg/el.] | Surface per element A [m ² /el.] | Water content per element W [l/el.] | Standard water flow q _{ms} [kg/h el.] | Radiated portions [%] |
|---------------|--------------|-------------|---------------------------------|--|---------------------------------|---------------------------------|----------------|-----------------------------|---|-------------------------------------|--|-----------------------|
| | | | Φ ΔT 60K 90/70/20°C [watts/el.] | Φ _L ΔT 50K 75/65/20°C [watts/el.] | Φ ΔT 42K 70/55/20°C [watts/el.] | Φ ΔT 30K 55/45/20°C [watts/el.] | | | | | | |
| 300 | 146 | AT6 2030-55 | 48 | 39 | 32 | 21 | 1.23 | 1.10 | 0.09 | 0.30 | 3.4 | 25 |
| 350 | 146 | AT6 2035-55 | 55 | 44 | 36 | 23 | 1.24 | 1.20 | 0.10 | 0.34 | 3.8 | 25 |
| 400 | 146 | AT6 2040-55 | 64 | 52 | 42 | 27 | 1.24 | 1.40 | 0.12 | 0.38 | 4.3 | 25 |
| 450 | 146 | AT6 2045-55 | 70 | 57 | 46 | 30 | 1.24 | 1.50 | 0.13 | 0.42 | 4.7 | 25 |
| 500 | 146 | AT6 2050-55 | 77 | 62 | 50 | 33 | 1.24 | 1.70 | 0.14 | 0.46 | 5.2 | 25 |
| 550 | 146 | AT6 2055-55 | 83 | 67 | 54 | 35 | 1.24 | 1.80 | 0.16 | 0.49 | 5.7 | 25 |
| 600 | 146 | AT6 2060-55 | 90 | 72 | 58 | 38 | 1.24 | 2.00 | 0.17 | 0.53 | 6.2 | 25 |
| 650 | 146 | AT6 2065-55 | 96 | 77 | 63 | 41 | 1.24 | 2.10 | 0.18 | 0.57 | 6.6 | 25 |
| 700 | 146 | AT6 2070-55 | 103 | 82 | 67 | 43 | 1.25 | 2.30 | 0.20 | 0.61 | 7.2 | 25 |
| 750 | 146 | AT6 2075-55 | 109 | 88 | 71 | 46 | 1.25 | 2.40 | 0.21 | 0.65 | 7.6 | 25 |
| 800 | 146 | AT6 2080-55 | 115 | 93 | 75 | 49 | 1.25 | 2.60 | 0.22 | 0.69 | 8.2 | 25 |
| 900 | 146 | AT6 2090-55 | 128 | 103 | 83 | 54 | 1.25 | 2.90 | 0.25 | 0.77 | 9.1 | 25 |
| 1000 | 146 | AT6 2100-55 | 141 | 113 | 92 | 59 | 1.25 | 3.20 | 0.28 | 0.84 | 10.0 | 25 |
| 1100 | 146 | AT6 2110-55 | 154 | 124 | 100 | 64 | 1.26 | 3.50 | 0.30 | 0.92 | 10.9 | 25 |
| 1200 | 146 | AT6 2120-55 | 167 | 134 | 108 | 70 | 1.26 | 3.80 | 0.33 | 1.00 | 11.8 | 25 |
| 1250 | 146 | AT6 2125-55 | 173 | 139 | 112 | 72 | 1.26 | 3.90 | 0.34 | 1.04 | 12.2 | 25 |
| 1500 | 146 | AT6 2150-55 | 206 | 165 | 133 | 85 | 1.27 | 4.70 | 0.41 | 1.23 | 14.3 | 25 |
| 1600 | 146 | AT6 2160-55 | 219 | 175 | 141 | 91 | 1.27 | 4.90 | 0.43 | 1.31 | 15.1 | 25 |
| 1750 | 146 | AT6 2175-55 | 238 | 190 | 153 | 99 | 1.27 | 5.40 | 0.47 | 1.43 | 16.4 | 25 |
| 1800 | 146 | AT6 2180-55 | 244 | 195 | 157 | 101 | 1.28 | 5.50 | 0.49 | 1.47 | 16.8 | 25 |
| 1900 | 146 | AT6 2190-55 | 258 | 206 | 166 | 106 | 1.28 | 5.80 | 0.51 | 1.54 | 17.7 | 25 |
| 2000 | 146 | AT6 2200-55 | 271 | 216 | 174 | 112 | 1.28 | 6.10 | 0.54 | 1.62 | 18.6 | 25 |
| 2100 | 146 | AT6 2210-55 | 284 | 226 | 182 | 117 | 1.28 | 6.40 | 0.56 | 1.70 | 19.5 | 25 |
| 2200 | 146 | AT6 2220-55 | 297 | 237 | 190 | 122 | 1.29 | 6.70 | 0.59 | 1.78 | 20.4 | 25 |
| 2500 | 146 | AT6 2250-55 | 337 | 268 | 215 | 137 | 1.30 | 7.60 | 0.67 | 2.01 | 23.1 | 25 |
| 3000 | 146 | AT6 2300-55 | 402 | 319 | 255 | 162 | 1.31 | 9.10 | 0.80 | 2.40 | 27.7 | 25 |

Technical data per element

For individual calculations of heat outputs, see "General information"



Technical data per element

Spacing 60 mm, 1-row

| Height H [mm] | Depth T [mm] | Version | Heat output to EN 442 | | | | Exponent n [] | Mass per element M [kg/el.] | Surface per element A [m ² /el.] | Water content per element W [l/el.] | Standard water flow q _{ms} [kg/h el.] | Radiated portions [%] |
|---------------|--------------|-------------|---------------------------------|--|---------------------------------|---------------------------------|----------------|-----------------------------|---|-------------------------------------|--|-----------------------|
| | | | Φ ΔT 60K 90/70/20°C [watts/el.] | Φ _L ΔT 50K 75/65/20°C [watts/el.] | Φ ΔT 42K 70/55/20°C [watts/el.] | Φ ΔT 30K 55/45/20°C [watts/el.] | | | | | | |
| 300 | 89 | AT6 1030-60 | 30 | 25 | 20 | 13 | 1.21 | 0.70 | 0.05 | 0.19 | 2.1 | 30 |
| 350 | 89 | AT6 1035-60 | 34 | 28 | 22 | 15 | 1.21 | 0.70 | 0.06 | 0.21 | 2.4 | 30 |
| 400 | 89 | AT6 1040-60 | 40 | 32 | 26 | 17 | 1.22 | 0.80 | 0.07 | 0.23 | 2.6 | 30 |
| 450 | 89 | AT6 1045-60 | 44 | 35 | 29 | 19 | 1.22 | 0.90 | 0.07 | 0.25 | 2.9 | 30 |
| 500 | 89 | AT6 1050-60 | 48 | 39 | 31 | 20 | 1.22 | 1.00 | 0.08 | 0.27 | 3.2 | 30 |
| 550 | 89 | AT6 1055-60 | 52 | 42 | 34 | 22 | 1.22 | 1.00 | 0.08 | 0.29 | 3.4 | 30 |
| 600 | 89 | AT6 1060-60 | 56 | 45 | 37 | 24 | 1.22 | 1.10 | 0.09 | 0.31 | 3.7 | 30 |
| 650 | 89 | AT6 1065-60 | 60 | 48 | 39 | 26 | 1.22 | 1.20 | 0.10 | 0.33 | 4.0 | 30 |
| 700 | 89 | AT6 1070-60 | 64 | 51 | 42 | 27 | 1.22 | 1.30 | 0.10 | 0.35 | 4.3 | 30 |
| 750 | 89 | AT6 1075-60 | 68 | 54 | 44 | 29 | 1.23 | 1.30 | 0.11 | 0.37 | 4.5 | 30 |
| 800 | 89 | AT6 1080-60 | 72 | 58 | 47 | 31 | 1.23 | 1.40 | 0.12 | 0.39 | 4.8 | 30 |
| 900 | 89 | AT6 1090-60 | 79 | 64 | 52 | 34 | 1.23 | 1.50 | 0.13 | 0.42 | 5.3 | 30 |
| 1000 | 89 | AT6 1100-60 | 87 | 70 | 57 | 37 | 1.23 | 1.70 | 0.14 | 0.46 | 5.9 | 30 |
| 1100 | 89 | AT6 1110-60 | 95 | 77 | 62 | 41 | 1.23 | 1.80 | 0.16 | 0.50 | 6.4 | 30 |
| 1200 | 89 | AT6 1120-60 | 103 | 83 | 67 | 44 | 1.24 | 2.00 | 0.17 | 0.54 | 6.9 | 30 |
| 1250 | 89 | AT6 1125-60 | 107 | 86 | 70 | 45 | 1.24 | 2.10 | 0.18 | 0.56 | 7.1 | 30 |
| 1500 | 89 | AT6 1150-60 | 128 | 102 | 83 | 54 | 1.25 | 2.40 | 0.21 | 0.66 | 8.4 | 30 |
| 1600 | 89 | AT6 1160-60 | 135 | 109 | 88 | 57 | 1.25 | 2.60 | 0.22 | 0.70 | 8.8 | 30 |
| 1750 | 89 | AT6 1175-60 | 147 | 118 | 96 | 62 | 1.25 | 2.80 | 0.24 | 0.76 | 9.6 | 30 |
| 1800 | 89 | AT6 1180-60 | 150 | 120 | 97 | 63 | 1.25 | 2.90 | 0.25 | 0.77 | 9.8 | 30 |
| 1900 | 89 | AT6 1190-60 | 160 | 128 | 103 | 67 | 1.26 | 3.00 | 0.26 | 0.81 | 10.3 | 30 |
| 2000 | 89 | AT6 1200-60 | 167 | 134 | 108 | 70 | 1.26 | 3.20 | 0.28 | 0.85 | 10.9 | 30 |
| 2100 | 89 | AT6 1210-60 | 175 | 141 | 113 | 73 | 1.26 | 3.30 | 0.29 | 0.89 | 11.4 | 30 |
| 2200 | 89 | AT6 1220-60 | 183 | 147 | 119 | 77 | 1.26 | 3.50 | 0.30 | 0.93 | 12.0 | 30 |
| 2500 | 89 | AT6 1250-60 | 208 | 166 | 134 | 86 | 1.27 | 3.90 | 0.34 | 1.05 | 13.6 | 30 |
| 3000 | 89 | AT6 1300-60 | 248 | 198 | 159 | 102 | 1.29 | 4.70 | 0.41 | 1.24 | 16.2 | 30 |

For individual calculations of heat outputs, see "General information"

Technical data per element



Technical data per element

Spacing 60 mm, 2-row

| Height H [mm] | Depth T [mm] | Version | Heat output to EN 442 | | | | Exponent n [] | Mass per element M [kg/el.] | Surface per element A [m ² /el.] | Water content per element W [l/el.] | Standard water flow q _{ms} [kg/h el.] | Radiated portions [%] |
|---------------|--------------|-------------|---------------------------------|--|---------------------------------|---------------------------------|----------------|-----------------------------|---|-------------------------------------|--|-----------------------|
| | | | Φ ΔT 60K 90/70/20°C [watts/el.] | Φ _L ΔT 50K 75/65/20°C [watts/el.] | Φ ΔT 42K 70/55/20°C [watts/el.] | Φ ΔT 30K 55/45/20°C [watts/el.] | | | | | | |
| 300 | 146 | AT6 2030-60 | 50 | 40 | 32 | 21 | 1.23 | 1.10 | 0.09 | 0.31 | 3.4 | 25 |
| 350 | 146 | AT6 2035-60 | 56 | 45 | 37 | 24 | 1.23 | 1.30 | 0.11 | 0.35 | 3.9 | 25 |
| 400 | 146 | AT6 2040-60 | 66 | 53 | 43 | 28 | 1.24 | 1.40 | 0.12 | 0.38 | 4.3 | 25 |
| 450 | 146 | AT6 2045-60 | 72 | 58 | 47 | 31 | 1.24 | 1.60 | 0.13 | 0.42 | 4.8 | 25 |
| 500 | 146 | AT6 2050-60 | 79 | 63 | 51 | 33 | 1.24 | 1.70 | 0.14 | 0.46 | 5.3 | 25 |
| 550 | 146 | AT6 2055-60 | 85 | 69 | 56 | 36 | 1.24 | 1.90 | 0.16 | 0.50 | 5.8 | 25 |
| 600 | 146 | AT6 2060-60 | 92 | 74 | 60 | 39 | 1.24 | 2.00 | 0.17 | 0.54 | 6.3 | 25 |
| 650 | 146 | AT6 2065-60 | 98 | 79 | 64 | 42 | 1.24 | 2.10 | 0.18 | 0.58 | 6.8 | 25 |
| 700 | 146 | AT6 2070-60 | 105 | 84 | 68 | 44 | 1.24 | 2.30 | 0.20 | 0.62 | 7.3 | 25 |
| 750 | 146 | AT6 2075-60 | 112 | 90 | 72 | 47 | 1.25 | 2.40 | 0.21 | 0.66 | 7.8 | 25 |
| 800 | 146 | AT6 2080-60 | 118 | 95 | 77 | 50 | 1.25 | 2.60 | 0.22 | 0.70 | 8.3 | 25 |
| 900 | 146 | AT6 2090-60 | 131 | 105 | 85 | 55 | 1.25 | 2.90 | 0.25 | 0.77 | 9.3 | 25 |
| 1000 | 146 | AT6 2100-60 | 144 | 116 | 94 | 61 | 1.25 | 3.20 | 0.28 | 0.85 | 10.2 | 25 |
| 1100 | 146 | AT6 2110-60 | 158 | 126 | 102 | 66 | 1.25 | 3.50 | 0.30 | 0.93 | 11.2 | 25 |
| 1200 | 146 | AT6 2120-60 | 171 | 137 | 111 | 71 | 1.26 | 3.80 | 0.33 | 1.01 | 12.1 | 25 |
| 1250 | 146 | AT6 2125-60 | 178 | 142 | 115 | 74 | 1.26 | 3.90 | 0.34 | 1.05 | 12.5 | 25 |
| 1500 | 146 | AT6 2150-60 | 211 | 169 | 136 | 87 | 1.27 | 4.70 | 0.41 | 1.24 | 14.6 | 25 |
| 1600 | 146 | AT6 2160-60 | 224 | 179 | 144 | 93 | 1.27 | 5.00 | 0.43 | 1.32 | 15.4 | 25 |
| 1750 | 146 | AT6 2175-60 | 244 | 195 | 157 | 101 | 1.27 | 5.40 | 0.47 | 1.43 | 16.6 | 25 |
| 1800 | 146 | AT6 2180-60 | 248 | 198 | 160 | 103 | 1.27 | 5.60 | 0.49 | 1.47 | 17.0 | 25 |
| 1900 | 146 | AT6 2190-60 | 264 | 211 | 169 | 109 | 1.28 | 5.90 | 0.51 | 1.55 | 17.9 | 25 |
| 2000 | 146 | AT6 2200-60 | 277 | 221 | 178 | 114 | 1.28 | 6.10 | 0.54 | 1.63 | 18.8 | 25 |
| 2100 | 146 | AT6 2210-60 | 290 | 232 | 186 | 120 | 1.28 | 6.40 | 0.57 | 1.71 | 19.7 | 25 |
| 2200 | 146 | AT6 2220-60 | 304 | 242 | 195 | 125 | 1.28 | 6.70 | 0.59 | 1.78 | 20.6 | 25 |
| 2500 | 146 | AT6 2250-60 | 344 | 274 | 220 | 141 | 1.29 | 7.60 | 0.67 | 2.02 | 23.3 | 25 |
| 3000 | 146 | AT6 2300-60 | 411 | 326 | 261 | 166 | 1.31 | 9.10 | 0.80 | 2.41 | 27.9 | 25 |

Technical data per element

For individual calculations of heat outputs, see "General information"



Technical data per element

Spacing 65 mm, 1-row

| Height H [mm] | Depth T [mm] | Version | Heat output to EN 442 | | | | Exponent n [] | Mass per element M [kg/el.] | Surface per element A [m ² /el.] | Water content per element W [l/el.] | Standard water flow q _{ms} [kg/h el.] | Radiated portions [%] |
|---------------|--------------|-------------|---------------------------------|--|---------------------------------|---------------------------------|----------------|-----------------------------|---|-------------------------------------|--|-----------------------|
| | | | Φ ΔT 60K 90/70/20°C [watts/el.] | Φ_L ΔT 50K 75/65/20°C [watts/el.] | Φ ΔT 42K 70/55/20°C [watts/el.] | Φ ΔT 30K 55/45/20°C [watts/el.] | | | | | | |
| 300 | 89 | AT6 1030-65 | 31 | 25 | 21 | 14 | 1.21 | 0.70 | 0.05 | 0.20 | 2.2 | 30 |
| 350 | 89 | AT6 1035-65 | 35 | 28 | 23 | 15 | 1.21 | 0.70 | 0.06 | 0.22 | 2.4 | 30 |
| 400 | 89 | AT6 1040-65 | 41 | 33 | 27 | 18 | 1.21 | 0.80 | 0.07 | 0.24 | 2.7 | 30 |
| 450 | 89 | AT6 1045-65 | 45 | 36 | 30 | 19 | 1.22 | 0.90 | 0.07 | 0.26 | 2.9 | 30 |
| 500 | 89 | AT6 1050-65 | 49 | 40 | 32 | 21 | 1.22 | 1.00 | 0.08 | 0.28 | 3.3 | 30 |
| 550 | 89 | AT6 1055-65 | 53 | 43 | 35 | 23 | 1.22 | 1.00 | 0.09 | 0.29 | 3.5 | 30 |
| 600 | 89 | AT6 1060-65 | 57 | 46 | 37 | 25 | 1.22 | 1.10 | 0.09 | 0.31 | 3.8 | 30 |
| 650 | 89 | AT6 1065-65 | 61 | 49 | 40 | 26 | 1.22 | 1.20 | 0.10 | 0.33 | 4.1 | 30 |
| 700 | 89 | AT6 1070-65 | 65 | 53 | 43 | 28 | 1.22 | 1.30 | 0.11 | 0.35 | 4.4 | 30 |
| 750 | 89 | AT6 1075-65 | 69 | 56 | 45 | 30 | 1.22 | 1.30 | 0.11 | 0.37 | 4.7 | 30 |
| 800 | 89 | AT6 1080-65 | 73 | 59 | 48 | 32 | 1.22 | 1.40 | 0.12 | 0.39 | 4.9 | 30 |
| 900 | 89 | AT6 1090-65 | 82 | 66 | 53 | 35 | 1.23 | 1.60 | 0.13 | 0.43 | 5.5 | 30 |
| 1000 | 89 | AT6 1100-65 | 90 | 72 | 59 | 38 | 1.23 | 1.70 | 0.15 | 0.47 | 6.0 | 30 |
| 1100 | 89 | AT6 1110-65 | 98 | 79 | 64 | 42 | 1.23 | 1.90 | 0.16 | 0.51 | 6.5 | 30 |
| 1200 | 89 | AT6 1120-65 | 106 | 85 | 69 | 45 | 1.24 | 2.00 | 0.17 | 0.55 | 7.1 | 30 |
| 1250 | 89 | AT6 1125-65 | 110 | 89 | 72 | 47 | 1.24 | 2.10 | 0.18 | 0.57 | 7.3 | 30 |
| 1500 | 89 | AT6 1150-65 | 130 | 105 | 85 | 55 | 1.24 | 2.50 | 0.21 | 0.66 | 8.6 | 30 |
| 1600 | 89 | AT6 1160-65 | 139 | 111 | 90 | 58 | 1.25 | 2.60 | 0.22 | 0.70 | 9.1 | 30 |
| 1750 | 89 | AT6 1175-65 | 148 | 119 | 96 | 62 | 1.25 | 2.80 | 0.24 | 0.76 | 9.8 | 30 |
| 1800 | 89 | AT6 1180-65 | 152 | 122 | 99 | 64 | 1.25 | 2.90 | 0.25 | 0.78 | 10.0 | 30 |
| 1900 | 89 | AT6 1190-65 | 163 | 131 | 106 | 69 | 1.25 | 3.00 | 0.26 | 0.82 | 10.6 | 30 |
| 2000 | 89 | AT6 1200-65 | 171 | 137 | 111 | 72 | 1.26 | 3.20 | 0.28 | 0.86 | 11.1 | 30 |
| 2100 | 89 | AT6 1210-65 | 180 | 144 | 116 | 75 | 1.26 | 3.30 | 0.29 | 0.90 | 11.7 | 30 |
| 2200 | 89 | AT6 1220-65 | 188 | 150 | 121 | 78 | 1.26 | 3.50 | 0.30 | 0.94 | 12.2 | 30 |
| 2500 | 89 | AT6 1250-65 | 213 | 170 | 137 | 88 | 1.27 | 3.90 | 0.34 | 1.05 | 13.9 | 30 |
| 3000 | 89 | AT6 1300-65 | 254 | 203 | 163 | 104 | 1.28 | 4.70 | 0.41 | 1.25 | 16.6 | 30 |

For individual calculations of heat outputs, see "General information"

Technical data per element



Technical data per element

Spacing 65 mm, 2-row

| Height H [mm] | Depth T [mm] | Version | Heat output to EN 442 | | | | Exponent n [] | Mass per element M [kg/el.] | Surface per element A [m ² /el.] | Water content per element W [l/el.] | Standard water flow q _{ms} [kg/h el.] | Radiated portions [%] |
|---------------|--------------|-------------|---------------------------------|--|---------------------------------|---------------------------------|----------------|-----------------------------|---|-------------------------------------|--|-----------------------|
| | | | Φ ΔT 60K 90/70/20°C [watts/el.] | Φ _L ΔT 50K 75/65/20°C [watts/el.] | Φ ΔT 42K 70/55/20°C [watts/el.] | Φ ΔT 30K 55/45/20°C [watts/el.] | | | | | | |
| 300 | 146 | AT6 2030-65 | 51 | 41 | 33 | 22 | 1.23 | 1.10 | 0.09 | 0.31 | 3.5 | 25 |
| 350 | 146 | AT6 2035-65 | 57 | 46 | 37 | 24 | 1.23 | 1.30 | 0.11 | 0.35 | 4.0 | 25 |
| 400 | 146 | AT6 2040-65 | 67 | 54 | 44 | 29 | 1.23 | 1.40 | 0.12 | 0.39 | 4.4 | 25 |
| 450 | 146 | AT6 2045-65 | 74 | 59 | 48 | 31 | 1.24 | 1.60 | 0.13 | 0.43 | 4.9 | 25 |
| 500 | 146 | AT6 2050-65 | 81 | 65 | 53 | 34 | 1.24 | 1.70 | 0.15 | 0.47 | 5.4 | 25 |
| 550 | 146 | AT6 2055-65 | 87 | 70 | 57 | 37 | 1.24 | 1.90 | 0.16 | 0.51 | 5.9 | 25 |
| 600 | 146 | AT6 2060-65 | 94 | 76 | 61 | 40 | 1.24 | 2.00 | 0.17 | 0.55 | 6.5 | 25 |
| 650 | 146 | AT6 2065-65 | 101 | 81 | 66 | 43 | 1.24 | 2.20 | 0.19 | 0.58 | 6.9 | 25 |
| 700 | 146 | AT6 2070-65 | 107 | 86 | 70 | 45 | 1.24 | 2.30 | 0.20 | 0.62 | 7.5 | 25 |
| 750 | 146 | AT6 2075-65 | 114 | 92 | 74 | 48 | 1.24 | 2.50 | 0.21 | 0.66 | 8.0 | 25 |
| 800 | 146 | AT6 2080-65 | 121 | 97 | 79 | 51 | 1.24 | 2.60 | 0.22 | 0.70 | 8.5 | 25 |
| 900 | 146 | AT6 2090-65 | 134 | 108 | 87 | 56 | 1.25 | 2.90 | 0.25 | 0.78 | 9.5 | 25 |
| 1000 | 146 | AT6 2100-65 | 148 | 119 | 96 | 62 | 1.25 | 3.20 | 0.28 | 0.86 | 10.5 | 25 |
| 1100 | 146 | AT6 2110-65 | 161 | 129 | 105 | 68 | 1.25 | 3.50 | 0.30 | 0.93 | 11.4 | 25 |
| 1200 | 146 | AT6 2120-65 | 175 | 140 | 113 | 73 | 1.26 | 3.80 | 0.33 | 1.01 | 12.3 | 25 |
| 1250 | 146 | AT6 2125-65 | 182 | 146 | 117 | 76 | 1.26 | 3.90 | 0.34 | 1.05 | 12.7 | 25 |
| 1500 | 146 | AT6 2150-65 | 215 | 172 | 139 | 90 | 1.26 | 4.70 | 0.41 | 1.25 | 14.9 | 25 |
| 1600 | 146 | AT6 2160-65 | 229 | 183 | 148 | 95 | 1.27 | 5.00 | 0.43 | 1.32 | 15.7 | 25 |
| 1750 | 146 | AT6 2175-65 | 249 | 199 | 161 | 103 | 1.27 | 5.40 | 0.47 | 1.44 | 16.9 | 25 |
| 1800 | 146 | AT6 2180-65 | 251 | 201 | 162 | 104 | 1.27 | 5.60 | 0.49 | 1.48 | 17.3 | 25 |
| 1900 | 146 | AT6 2190-65 | 269 | 215 | 174 | 112 | 1.27 | 5.90 | 0.51 | 1.56 | 18.2 | 25 |
| 2000 | 146 | AT6 2200-65 | 283 | 226 | 182 | 117 | 1.28 | 6.20 | 0.54 | 1.63 | 19.0 | 25 |
| 2100 | 146 | AT6 2210-65 | 297 | 237 | 191 | 122 | 1.28 | 6.50 | 0.57 | 1.71 | 19.9 | 25 |
| 2200 | 146 | AT6 2220-65 | 310 | 248 | 199 | 128 | 1.28 | 6.80 | 0.59 | 1.79 | 20.8 | 25 |
| 2500 | 146 | AT6 2250-65 | 352 | 280 | 225 | 144 | 1.29 | 7.60 | 0.67 | 2.02 | 23.5 | 25 |
| 3000 | 146 | AT6 2300-65 | 420 | 334 | 268 | 170 | 1.30 | 9.10 | 0.80 | 2.41 | 28.0 | 25 |

Technical data per element

For individual calculations of heat outputs, see "General information"



Technical data per element

Spacing 70 mm, 1-row

| Height H [mm] | Depth T [mm] | Version | Heat output to EN 442 | | | | Exponent n [] | Mass per element M [kg/el.] | Surface per element A [m ² /el.] | Water content per element W [l/el.] | Standard water flow q _{ms} [kg/h el.] | Radiated portions [%] |
|---------------|--------------|-------------|---------------------------------|--|---------------------------------|---------------------------------|----------------|-----------------------------|---|-------------------------------------|--|-----------------------|
| | | | Φ ΔT 60K 90/70/20°C [watts/el.] | Φ _L ΔT 50K 75/65/20°C [watts/el.] | Φ ΔT 42K 70/55/20°C [watts/el.] | Φ ΔT 30K 55/45/20°C [watts/el.] | | | | | | |
| 300 | 89 | AT6 1030-70 | 32 | 26 | 21 | 14 | 1.21 | 0.70 | 0.05 | 0.20 | 2.2 | 30 |
| 350 | 89 | AT6 1035-70 | 36 | 29 | 24 | 16 | 1.21 | 0.80 | 0.06 | 0.22 | 2.5 | 30 |
| 400 | 89 | AT6 1040-70 | 42 | 34 | 28 | 18 | 1.21 | 0.80 | 0.07 | 0.24 | 2.8 | 30 |
| 450 | 89 | AT6 1045-70 | 46 | 37 | 30 | 20 | 1.21 | 0.90 | 0.07 | 0.26 | 3.0 | 30 |
| 500 | 89 | AT6 1050-70 | 51 | 41 | 33 | 22 | 1.21 | 1.00 | 0.08 | 0.28 | 3.3 | 30 |
| 550 | 89 | AT6 1055-70 | 55 | 44 | 36 | 23 | 1.22 | 1.10 | 0.09 | 0.30 | 3.6 | 30 |
| 600 | 89 | AT6 1060-70 | 59 | 47 | 39 | 25 | 1.22 | 1.10 | 0.09 | 0.32 | 3.9 | 30 |
| 650 | 89 | AT6 1065-70 | 63 | 51 | 41 | 27 | 1.22 | 1.20 | 0.10 | 0.34 | 4.2 | 30 |
| 700 | 89 | AT6 1070-70 | 67 | 54 | 44 | 29 | 1.22 | 1.30 | 0.11 | 0.36 | 4.5 | 30 |
| 750 | 89 | AT6 1075-70 | 71 | 57 | 47 | 31 | 1.22 | 1.40 | 0.11 | 0.38 | 4.8 | 30 |
| 800 | 89 | AT6 1080-70 | 75 | 61 | 49 | 32 | 1.22 | 1.40 | 0.12 | 0.40 | 5.1 | 30 |
| 900 | 89 | AT6 1090-70 | 84 | 67 | 55 | 36 | 1.23 | 1.60 | 0.13 | 0.44 | 5.6 | 30 |
| 1000 | 89 | AT6 1100-70 | 92 | 74 | 60 | 39 | 1.23 | 1.70 | 0.15 | 0.48 | 6.1 | 30 |
| 1100 | 89 | AT6 1110-70 | 100 | 81 | 65 | 43 | 1.23 | 1.90 | 0.16 | 0.52 | 6.7 | 30 |
| 1200 | 89 | AT6 1120-70 | 108 | 87 | 71 | 46 | 1.23 | 2.00 | 0.17 | 0.55 | 7.2 | 30 |
| 1250 | 89 | AT6 1125-70 | 113 | 91 | 74 | 48 | 1.23 | 2.10 | 0.18 | 0.57 | 7.5 | 30 |
| 1500 | 89 | AT6 1150-70 | 134 | 107 | 87 | 57 | 1.24 | 2.50 | 0.21 | 0.67 | 8.8 | 30 |
| 1600 | 89 | AT6 1160-70 | 142 | 114 | 92 | 60 | 1.24 | 2.60 | 0.22 | 0.71 | 9.3 | 30 |
| 1750 | 89 | AT6 1175-70 | 151 | 121 | 98 | 63 | 1.25 | 2.80 | 0.24 | 0.77 | 10.0 | 30 |
| 1800 | 89 | AT6 1180-70 | 156 | 125 | 101 | 66 | 1.25 | 2.90 | 0.25 | 0.79 | 10.3 | 30 |
| 1900 | 89 | AT6 1190-70 | 167 | 134 | 108 | 70 | 1.25 | 3.10 | 0.26 | 0.83 | 10.9 | 30 |
| 2000 | 89 | AT6 1200-70 | 175 | 141 | 113 | 73 | 1.26 | 3.20 | 0.28 | 0.87 | 11.4 | 30 |
| 2100 | 89 | AT6 1210-70 | 184 | 147 | 119 | 77 | 1.26 | 3.40 | 0.29 | 0.90 | 12.0 | 30 |
| 2200 | 89 | AT6 1220-70 | 192 | 154 | 124 | 80 | 1.26 | 3.50 | 0.30 | 0.94 | 12.5 | 30 |
| 2500 | 89 | AT6 1250-70 | 217 | 174 | 140 | 90 | 1.27 | 4.00 | 0.34 | 1.06 | 14.2 | 30 |
| 3000 | 89 | AT6 1300-70 | 259 | 207 | 167 | 107 | 1.28 | 4.70 | 0.41 | 1.25 | 17.0 | 30 |

For individual calculations of heat outputs, see "General information"

Technical data per element



Technical data per element

Spacing 70 mm, 2-row

| Height H [mm] | Depth T [mm] | Version | Heat output to EN 442 | | | | Exponent n [] | Mass per element M [kg/el.] | Surface per element A [m ² /el.] | Water content per element W [l/el.] | Standard water flow q _{ms} [kg/h el.] | Radiated portions [%] |
|---------------|--------------|-------------|---------------------------------|--|---------------------------------|---------------------------------|----------------|-----------------------------|---|-------------------------------------|--|-----------------------|
| | | | Φ ΔT 60K 90/70/20°C [watts/el.] | Φ _L ΔT 50K 75/65/20°C [watts/el.] | Φ ΔT 42K 70/55/20°C [watts/el.] | Φ ΔT 30K 55/45/20°C [watts/el.] | | | | | | |
| 300 | 146 | AT6 2030-70 | 52 | 42 | 34 | 22 | 1.23 | 1.10 | 0.09 | 0.32 | 3.6 | 25 |
| 350 | 146 | AT6 2035-70 | 58 | 47 | 38 | 25 | 1.23 | 1.30 | 0.11 | 0.36 | 4.0 | 25 |
| 400 | 146 | AT6 2040-70 | 69 | 55 | 45 | 29 | 1.23 | 1.40 | 0.12 | 0.40 | 4.5 | 25 |
| 450 | 146 | AT6 2045-70 | 76 | 61 | 49 | 32 | 1.23 | 1.60 | 0.13 | 0.44 | 4.9 | 25 |
| 500 | 146 | AT6 2050-70 | 82 | 66 | 54 | 35 | 1.23 | 1.70 | 0.15 | 0.47 | 5.5 | 25 |
| 550 | 146 | AT6 2055-70 | 89 | 72 | 58 | 38 | 1.24 | 1.90 | 0.16 | 0.51 | 6.0 | 25 |
| 600 | 146 | AT6 2060-70 | 96 | 77 | 63 | 41 | 1.24 | 2.00 | 0.17 | 0.55 | 6.6 | 25 |
| 650 | 146 | AT6 2065-70 | 103 | 83 | 67 | 44 | 1.24 | 2.20 | 0.19 | 0.59 | 7.1 | 25 |
| 700 | 146 | AT6 2070-70 | 110 | 88 | 72 | 47 | 1.24 | 2.30 | 0.20 | 0.63 | 7.7 | 25 |
| 750 | 146 | AT6 2075-70 | 117 | 94 | 76 | 49 | 1.24 | 2.50 | 0.21 | 0.67 | 8.2 | 25 |
| 800 | 146 | AT6 2080-70 | 124 | 99 | 80 | 52 | 1.24 | 2.60 | 0.23 | 0.71 | 8.7 | 25 |
| 900 | 146 | AT6 2090-70 | 137 | 110 | 89 | 58 | 1.25 | 2.90 | 0.25 | 0.79 | 9.7 | 25 |
| 1000 | 146 | AT6 2100-70 | 151 | 121 | 98 | 64 | 1.25 | 3.20 | 0.28 | 0.86 | 10.7 | 25 |
| 1100 | 146 | AT6 2110-70 | 165 | 132 | 107 | 69 | 1.25 | 3.50 | 0.30 | 0.94 | 11.7 | 25 |
| 1200 | 146 | AT6 2120-70 | 179 | 143 | 116 | 75 | 1.25 | 3.80 | 0.33 | 1.02 | 12.6 | 25 |
| 1250 | 146 | AT6 2125-70 | 185 | 149 | 120 | 78 | 1.25 | 4.00 | 0.34 | 1.06 | 13.0 | 25 |
| 1500 | 146 | AT6 2150-70 | 220 | 176 | 142 | 92 | 1.26 | 4.70 | 0.41 | 1.25 | 15.2 | 25 |
| 1600 | 146 | AT6 2160-70 | 234 | 187 | 151 | 98 | 1.26 | 5.00 | 0.44 | 1.33 | 16.0 | 25 |
| 1750 | 146 | AT6 2175-70 | 255 | 204 | 164 | 106 | 1.27 | 5.40 | 0.48 | 1.45 | 17.2 | 25 |
| 1800 | 146 | AT6 2180-70 | 266 | 213 | 172 | 110 | 1.27 | 5.60 | 0.49 | 1.49 | 17.5 | 25 |
| 1900 | 146 | AT6 2190-70 | 275 | 220 | 178 | 114 | 1.27 | 5.90 | 0.51 | 1.56 | 18.4 | 25 |
| 2000 | 146 | AT6 2200-70 | 290 | 231 | 186 | 119 | 1.28 | 6.20 | 0.54 | 1.64 | 19.2 | 25 |
| 2100 | 146 | AT6 2210-70 | 304 | 242 | 195 | 125 | 1.28 | 6.50 | 0.57 | 1.72 | 20.1 | 25 |
| 2200 | 146 | AT6 2220-70 | 317 | 253 | 204 | 131 | 1.28 | 6.80 | 0.59 | 1.80 | 20.9 | 25 |
| 2500 | 146 | AT6 2250-70 | 359 | 286 | 230 | 147 | 1.29 | 7.70 | 0.67 | 2.03 | 23.6 | 25 |
| 3000 | 146 | AT6 2300-70 | 429 | 341 | 274 | 174 | 1.30 | 9.10 | 0.80 | 2.42 | 28.2 | 25 |

Technical data per element

For individual calculations of heat outputs, see "General information"



Technical data per element

Spacing 30 mm, 1-row

| Height H [mm] | Depth T [mm] | Version | Heat output to EN 442 | | | | Exponent n [] | Mass per element M [kg/el.] | Surface per element A [m ² /el.] | Water content per element W [l/el.] | Standard water flow q _{ms} [kg/h el.] | Radiated portions [%] |
|---------------|--------------|-------------|---------------------------------|--|---------------------------------|---------------------------------|----------------|-----------------------------|---|-------------------------------------|--|-----------------------|
| | | | Φ ΔT 60K 90/70/20°C [watts/el.] | Φ _L ΔT 50K 75/65/20°C [watts/el.] | Φ ΔT 42K 70/55/20°C [watts/el.] | Φ ΔT 30K 55/45/20°C [watts/el.] | | | | | | |
| 350 | 99 | AT7 1035-30 | 31 | 25 | 20 | 13 | 1.21 | 0.70 | 0.06 | 0.20 | 2.2 | 30 |
| 400 | 99 | AT7 1040-30 | 35 | 28 | 23 | 15 | 1.26 | 0.80 | 0.07 | 0.22 | 2.3 | 30 |
| 450 | 99 | AT7 1045-30 | 37 | 30 | 24 | 16 | 1.26 | 0.90 | 0.07 | 0.24 | 2.6 | 30 |
| 500 | 99 | AT7 1050-30 | 41 | 33 | 27 | 17 | 1.26 | 1.00 | 0.08 | 0.26 | 2.8 | 30 |
| 550 | 99 | AT7 1055-30 | 44 | 36 | 29 | 19 | 1.26 | 1.10 | 0.09 | 0.28 | 3.0 | 30 |
| 600 | 99 | AT7 1060-30 | 48 | 38 | 31 | 20 | 1.26 | 1.20 | 0.10 | 0.30 | 3.3 | 30 |
| 650 | 99 | AT7 1065-30 | 51 | 41 | 33 | 21 | 1.26 | 1.30 | 0.11 | 0.33 | 3.5 | 30 |
| 700 | 99 | AT7 1070-30 | 54 | 43 | 35 | 23 | 1.26 | 1.40 | 0.11 | 0.35 | 3.7 | 30 |
| 750 | 99 | AT7 1075-30 | 57 | 46 | 37 | 24 | 1.27 | 1.50 | 0.12 | 0.37 | 4.0 | 30 |
| 800 | 99 | AT7 1080-30 | 60 | 48 | 39 | 25 | 1.27 | 1.50 | 0.13 | 0.39 | 4.2 | 30 |
| 900 | 99 | AT7 1090-30 | 67 | 53 | 43 | 28 | 1.27 | 1.70 | 0.14 | 0.43 | 4.8 | 30 |
| 1000 | 99 | AT7 1100-30 | 73 | 58 | 47 | 30 | 1.27 | 1.90 | 0.16 | 0.48 | 5.3 | 30 |
| 1100 | 99 | AT7 1110-30 | 81 | 64 | 52 | 33 | 1.28 | 2.10 | 0.17 | 0.51 | 5.8 | 30 |
| 1200 | 99 | AT7 1120-30 | 88 | 70 | 56 | 36 | 1.28 | 2.30 | 0.17 | 0.54 | 6.2 | 30 |
| 1250 | 99 | AT7 1125-30 | 91 | 73 | 59 | 38 | 1.28 | 2.40 | 0.20 | 0.55 | 6.5 | 30 |
| 1500 | 99 | AT7 1150-30 | 110 | 87 | 70 | 45 | 1.30 | 2.80 | 0.23 | 0.63 | 7.6 | 30 |
| 1600 | 99 | AT7 1160-30 | 117 | 93 | 75 | 48 | 1.30 | 3.00 | 0.25 | 0.66 | 8.1 | 30 |
| 1750 | 99 | AT7 1175-30 | 128 | 102 | 82 | 52 | 1.30 | 3.30 | 0.27 | 0.75 | 8.9 | 30 |
| 1800 | 99 | AT7 1180-30 | 132 | 106 | 86 | 55 | 1.26 | 3.20 | 0.28 | 0.86 | 9.1 | 30 |
| 1900 | 99 | AT7 1190-30 | 139 | 111 | 89 | 57 | 1.29 | 3.50 | 0.29 | 0.84 | 9.6 | 30 |
| 2000 | 99 | AT7 1200-30 | 146 | 116 | 93 | 60 | 1.29 | 3.70 | 0.31 | 0.90 | 10.1 | 30 |
| 2100 | 99 | AT7 1210-30 | 154 | 122 | 98 | 63 | 1.29 | 3.90 | 0.32 | 0.96 | 10.6 | 30 |
| 2200 | 99 | AT7 1220-30 | 161 | 128 | 103 | 66 | 1.29 | 4.10 | 0.34 | 1.03 | 11.1 | 30 |
| 2500 | 99 | AT7 1250-30 | 183 | 146 | 117 | 75 | 1.29 | 4.60 | 0.39 | 1.21 | 12.6 | 30 |
| 3000 | 99 | AT7 1300-30 | 221 | 176 | 141 | 90 | 1.29 | 5.50 | 0.46 | 1.51 | 15.1 | 30 |

For individual calculations of heat outputs, see "General information"

Technical data per element



Technical data per element

Spacing 30 mm, 2-row

| Height H [mm] | Depth T [mm] | Version | Heat output to EN 442 | | | | Exponent n [] | Mass per element M [kg/el.] | Surface per element A [m ² /el.] | Water content per element W [l/el.] | Standard water flow q _{ms} [kg/h el.] | Radiated portions [%] |
|---------------|--------------|-------------|---------------------------------|--|---------------------------------|---------------------------------|----------------|-----------------------------|---|-------------------------------------|--|-----------------------|
| | | | Φ ΔT 60K 90/70/20°C [watts/el.] | Φ _L ΔT 50K 75/65/20°C [watts/el.] | Φ ΔT 42K 70/55/20°C [watts/el.] | Φ ΔT 30K 55/45/20°C [watts/el.] | | | | | | |
| 350 | 166 | AT7 2035-30 | 53 | 43 | 35 | 23 | 1.23 | 1.30 | 0.11 | 0.35 | 3.7 | 25 |
| 400 | 166 | AT7 2040-30 | 61 | 49 | 40 | 25 | 1.27 | 1.50 | 0.13 | 0.40 | 4.0 | 25 |
| 450 | 166 | AT7 2045-30 | 67 | 53 | 43 | 28 | 1.28 | 1.70 | 0.14 | 0.44 | 4.5 | 25 |
| 500 | 166 | AT7 2050-30 | 72 | 58 | 46 | 30 | 1.28 | 1.90 | 0.16 | 0.48 | 4.8 | 25 |
| 550 | 166 | AT7 2055-30 | 78 | 62 | 50 | 32 | 1.28 | 2.10 | 0.17 | 0.52 | 5.3 | 25 |
| 600 | 166 | AT7 2060-30 | 83 | 66 | 53 | 34 | 1.28 | 2.30 | 0.19 | 0.57 | 5.7 | 25 |
| 650 | 166 | AT7 2065-30 | 88 | 70 | 57 | 36 | 1.29 | 2.40 | 0.20 | 0.61 | 6.2 | 25 |
| 700 | 166 | AT7 2070-30 | 94 | 75 | 60 | 38 | 1.29 | 2.60 | 0.22 | 0.65 | 6.5 | 25 |
| 750 | 166 | AT7 2075-30 | 99 | 79 | 64 | 41 | 1.29 | 2.80 | 0.23 | 0.69 | 7.0 | 25 |
| 800 | 166 | AT7 2080-30 | 105 | 84 | 67 | 43 | 1.29 | 3.00 | 0.25 | 0.73 | 7.4 | 25 |
| 900 | 166 | AT7 2090-30 | 116 | 93 | 74 | 47 | 1.30 | 3.30 | 0.28 | 0.81 | 8.5 | 25 |
| 1000 | 166 | AT7 2100-30 | 128 | 102 | 82 | 52 | 1.30 | 3.70 | 0.31 | 0.90 | 9.4 | 25 |
| 1100 | 166 | AT7 2110-30 | 137 | 109 | 87 | 55 | 1.31 | 4.10 | 0.34 | 0.99 | 10.2 | 25 |
| 1200 | 166 | AT7 2120-30 | 150 | 119 | 95 | 60 | 1.31 | 4.40 | 0.37 | 1.08 | 11.1 | 25 |
| 1250 | 166 | AT7 2125-30 | 156 | 124 | 99 | 63 | 1.31 | 4.60 | 0.39 | 1.13 | 11.6 | 25 |
| 1500 | 166 | AT7 2150-30 | 186 | 147 | 118 | 74 | 1.32 | 5.50 | 0.46 | 1.37 | 13.8 | 25 |
| 1600 | 166 | AT7 2160-30 | 198 | 156 | 125 | 79 | 1.33 | 5.90 | 0.49 | 1.46 | 14.7 | 25 |
| 1750 | 166 | AT7 2175-30 | 215 | 170 | 136 | 86 | 1.33 | 6.40 | 0.54 | 1.60 | 16.2 | 25 |
| 1800 | 166 | AT7 2180-30 | 220 | 174 | 139 | 88 | 1.33 | 6.30 | 0.55 | 1.68 | 16.8 | 25 |
| 1900 | 166 | AT7 2190-30 | 232 | 184 | 147 | 92 | 1.33 | 6.90 | 0.58 | 1.73 | 17.8 | 25 |
| 2000 | 166 | AT7 2200-30 | 244 | 193 | 154 | 97 | 1.33 | 7.30 | 0.61 | 1.82 | 18.9 | 25 |
| 2100 | 166 | AT7 2210-30 | 255 | 202 | 161 | 102 | 1.33 | 7.70 | 0.64 | 1.90 | 19.9 | 25 |
| 2200 | 166 | AT7 2220-30 | 265 | 210 | 168 | 106 | 1.33 | 8.00 | 0.67 | 1.99 | 21.0 | 25 |
| 2500 | 166 | AT7 2250-30 | 301 | 238 | 190 | 120 | 1.33 | 9.10 | 0.76 | 2.26 | 23.9 | 25 |
| 3000 | 166 | AT7 2300-30 | 356 | 281 | 225 | 142 | 1.33 | 10.90 | 0.92 | 2.70 | 28.8 | 25 |

Technical data per element

For individual calculations of heat outputs, see "General information"



Technical data per element

Spacing 35 mm, 1-row

| Height H [mm] | Depth T [mm] | Version | Heat output to EN 442 | | | | Exponent n [] | Mass per element M [kg/el.] | Surface per element A [m ² /el.] | Water content per element W [l/el.] | Standard water flow q _{ms} [kg/h el.] | Radiated portions [%] |
|---------------|--------------|-------------|---------------------------------|--|---------------------------------|---------------------------------|----------------|-----------------------------|---|-------------------------------------|--|-----------------------|
| | | | Φ ΔT 60K 90/70/20°C [watts/el.] | Φ _L ΔT 50K 75/65/20°C [watts/el.] | Φ ΔT 42K 70/55/20°C [watts/el.] | Φ ΔT 30K 55/45/20°C [watts/el.] | | | | | | |
| 350 | 99 | AT7 1035-35 | 32 | 26 | 21 | 14 | 1.21 | 0.70 | 0.06 | 0.20 | 2.2 | 30 |
| 400 | 99 | AT7 1040-35 | 37 | 29 | 24 | 15 | 1.26 | 0.80 | 0.07 | 0.22 | 2.4 | 30 |
| 450 | 99 | AT7 1045-35 | 40 | 32 | 26 | 17 | 1.26 | 0.90 | 0.08 | 0.24 | 2.7 | 30 |
| 500 | 99 | AT7 1050-35 | 43 | 35 | 28 | 18 | 1.26 | 1.00 | 0.08 | 0.26 | 2.9 | 30 |
| 550 | 99 | AT7 1055-35 | 46 | 37 | 30 | 19 | 1.26 | 1.10 | 0.09 | 0.28 | 3.1 | 30 |
| 600 | 99 | AT7 1060-35 | 50 | 40 | 32 | 21 | 1.26 | 1.20 | 0.10 | 0.30 | 3.4 | 30 |
| 650 | 99 | AT7 1065-35 | 53 | 43 | 35 | 22 | 1.26 | 1.30 | 0.11 | 0.32 | 3.7 | 30 |
| 700 | 99 | AT7 1070-35 | 56 | 45 | 36 | 23 | 1.27 | 1.40 | 0.11 | 0.35 | 3.9 | 30 |
| 750 | 99 | AT7 1075-35 | 60 | 48 | 39 | 25 | 1.27 | 1.50 | 0.12 | 0.37 | 4.1 | 30 |
| 800 | 99 | AT7 1080-35 | 63 | 51 | 41 | 26 | 1.27 | 1.60 | 0.13 | 0.39 | 4.4 | 30 |
| 900 | 99 | AT7 1090-35 | 70 | 56 | 45 | 29 | 1.27 | 1.70 | 0.14 | 0.43 | 4.9 | 30 |
| 1000 | 99 | AT7 1100-35 | 77 | 61 | 49 | 32 | 1.27 | 1.90 | 0.16 | 0.47 | 5.4 | 30 |
| 1100 | 99 | AT7 1110-35 | 85 | 68 | 54 | 35 | 1.28 | 2.10 | 0.17 | 0.51 | 5.9 | 30 |
| 1200 | 99 | AT7 1120-35 | 92 | 74 | 59 | 38 | 1.29 | 2.30 | 0.17 | 0.55 | 6.4 | 30 |
| 1250 | 99 | AT7 1125-35 | 96 | 77 | 62 | 39 | 1.29 | 2.40 | 0.20 | 0.56 | 6.6 | 30 |
| 1500 | 99 | AT7 1150-35 | 116 | 92 | 73 | 47 | 1.31 | 2.80 | 0.23 | 0.66 | 7.9 | 30 |
| 1600 | 99 | AT7 1160-35 | 123 | 98 | 78 | 50 | 1.31 | 3.00 | 0.25 | 0.69 | 8.3 | 30 |
| 1750 | 99 | AT7 1175-35 | 134 | 107 | 86 | 55 | 1.30 | 3.30 | 0.27 | 0.77 | 9.1 | 30 |
| 1800 | 99 | AT7 1180-35 | 136 | 109 | 88 | 56 | 1.27 | 3.20 | 0.28 | 0.87 | 9.4 | 30 |
| 1900 | 99 | AT7 1190-35 | 146 | 116 | 93 | 60 | 1.29 | 3.50 | 0.30 | 0.85 | 9.9 | 30 |
| 2000 | 99 | AT7 1200-35 | 153 | 122 | 98 | 63 | 1.29 | 3.70 | 0.31 | 0.91 | 10.4 | 30 |
| 2100 | 99 | AT7 1210-35 | 161 | 128 | 103 | 66 | 1.28 | 3.90 | 0.33 | 0.96 | 10.9 | 30 |
| 2200 | 99 | AT7 1220-35 | 168 | 135 | 108 | 70 | 1.27 | 4.10 | 0.34 | 1.01 | 11.4 | 30 |
| 2500 | 99 | AT7 1250-35 | 192 | 153 | 124 | 80 | 1.27 | 4.60 | 0.39 | 1.17 | 12.9 | 30 |
| 3000 | 99 | AT7 1300-35 | 232 | 185 | 149 | 96 | 1.27 | 5.50 | 0.46 | 1.44 | 15.5 | 30 |

For individual calculations of heat outputs, see "General information"

Technical data per element



Technical data per element

Spacing 35 mm, 2-row

| Height H [mm] | Depth T [mm] | Version | Heat output to EN 442 | | | | Exponent n [] | Mass per element M [kg/el.] | Surface per element A [m ² /el.] | Water content per element W [l/el.] | Standard water flow q _{ms} [kg/h el.] | Radiated portions [%] |
|---------------|--------------|-------------|---------------------------------|--|---------------------------------|---------------------------------|----------------|-----------------------------|---|-------------------------------------|--|-----------------------|
| | | | Φ ΔT 60K 90/70/20°C [watts/el.] | Φ _L ΔT 50K 75/65/20°C [watts/el.] | Φ ΔT 42K 70/55/20°C [watts/el.] | Φ ΔT 30K 55/45/20°C [watts/el.] | | | | | | |
| 350 | 166 | AT7 2035-35 | 55 | 44 | 36 | 23 | 1.23 | 1.30 | 0.11 | 0.36 | 3.8 | 25 |
| 400 | 166 | AT7 2040-35 | 64 | 51 | 41 | 27 | 1.27 | 1.60 | 0.13 | 0.39 | 4.1 | 25 |
| 450 | 166 | AT7 2045-35 | 70 | 56 | 45 | 29 | 1.27 | 1.70 | 0.14 | 0.43 | 4.6 | 25 |
| 500 | 166 | AT7 2050-35 | 75 | 60 | 48 | 31 | 1.27 | 1.90 | 0.16 | 0.48 | 5.0 | 25 |
| 550 | 166 | AT7 2055-35 | 80 | 64 | 52 | 33 | 1.28 | 2.10 | 0.17 | 0.52 | 5.4 | 25 |
| 600 | 166 | AT7 2060-35 | 86 | 69 | 55 | 36 | 1.28 | 2.30 | 0.19 | 0.56 | 5.9 | 25 |
| 650 | 166 | AT7 2065-35 | 92 | 73 | 59 | 38 | 1.28 | 2.50 | 0.21 | 0.60 | 6.3 | 25 |
| 700 | 166 | AT7 2070-35 | 98 | 78 | 63 | 40 | 1.29 | 2.60 | 0.22 | 0.64 | 6.7 | 25 |
| 750 | 166 | AT7 2075-35 | 103 | 82 | 66 | 42 | 1.29 | 2.80 | 0.24 | 0.68 | 7.2 | 25 |
| 800 | 166 | AT7 2080-35 | 109 | 87 | 70 | 45 | 1.29 | 3.00 | 0.25 | 0.72 | 7.7 | 25 |
| 900 | 166 | AT7 2090-35 | 121 | 96 | 77 | 49 | 1.30 | 3.40 | 0.28 | 0.80 | 8.7 | 25 |
| 1000 | 166 | AT7 2100-35 | 134 | 106 | 85 | 54 | 1.31 | 3.70 | 0.31 | 0.89 | 9.6 | 25 |
| 1100 | 166 | AT7 2110-35 | 145 | 115 | 92 | 58 | 1.31 | 4.10 | 0.34 | 0.98 | 10.5 | 25 |
| 1200 | 166 | AT7 2120-35 | 157 | 125 | 100 | 63 | 1.31 | 4.40 | 0.37 | 1.08 | 11.4 | 25 |
| 1250 | 166 | AT7 2125-35 | 164 | 130 | 104 | 66 | 1.32 | 4.60 | 0.39 | 1.13 | 11.9 | 25 |
| 1500 | 166 | AT7 2150-35 | 195 | 154 | 123 | 78 | 1.32 | 5.50 | 0.46 | 1.37 | 14.1 | 25 |
| 1600 | 166 | AT7 2160-35 | 207 | 164 | 131 | 82 | 1.33 | 5.90 | 0.49 | 1.47 | 15.0 | 25 |
| 1750 | 166 | AT7 2175-35 | 231 | 183 | 146 | 92 | 1.33 | 6.40 | 0.54 | 1.60 | 16.5 | 25 |
| 1800 | 166 | AT7 2180-35 | 250 | 199 | 160 | 102 | 1.29 | 6.30 | 0.55 | 1.69 | 17.1 | 25 |
| 1900 | 166 | AT7 2190-35 | 244 | 193 | 154 | 97 | 1.33 | 7.00 | 0.58 | 1.74 | 18.1 | 25 |
| 2000 | 166 | AT7 2200-35 | 255 | 202 | 161 | 102 | 1.33 | 7.30 | 0.61 | 1.82 | 19.2 | 25 |
| 2100 | 166 | AT7 2210-35 | 268 | 212 | 169 | 107 | 1.33 | 7.70 | 0.64 | 1.91 | 20.2 | 25 |
| 2200 | 166 | AT7 2220-35 | 280 | 221 | 177 | 111 | 1.33 | 8.00 | 0.67 | 2.00 | 21.2 | 25 |
| 2500 | 166 | AT7 2250-35 | 315 | 249 | 199 | 125 | 1.33 | 9.10 | 0.77 | 2.27 | 24.2 | 25 |
| 3000 | 166 | AT7 2300-35 | 373 | 295 | 236 | 149 | 1.33 | 10.90 | 0.92 | 2.71 | 29.0 | 25 |

Technical data per element

For individual calculations of heat outputs, see "General information"



Technical data per element

Spacing 40 mm, 1-row

| Height H [mm] | Depth T [mm] | Version | Heat output to EN 442 | | | | Exponent n [] | Mass per element M [kg/el.] | Surface per element A [m ² /el.] | Water content per element W [l/el.] | Standard water flow q _{ms} [kg/h el.] | Radiated portions [%] |
|---------------|--------------|-------------|---------------------------------|--|---------------------------------|---------------------------------|----------------|-----------------------------|---|-------------------------------------|--|-----------------------|
| | | | Φ ΔT 60K 90/70/20°C [watts/el.] | Φ _L ΔT 50K 75/65/20°C [watts/el.] | Φ ΔT 42K 70/55/20°C [watts/el.] | Φ ΔT 30K 55/45/20°C [watts/el.] | | | | | | |
| 300 | 99 | AT7 1030-40 | 29 | 23 | 19 | 12 | 1.20 | 0.70 | 0.05 | 0.19 | 2.0 | 30 |
| 350 | 99 | AT7 1035-40 | 33 | 27 | 22 | 14 | 1.20 | 0.80 | 0.06 | 0.21 | 2.3 | 30 |
| 400 | 99 | AT7 1040-40 | 38 | 31 | 25 | 16 | 1.26 | 0.90 | 0.07 | 0.22 | 2.5 | 30 |
| 450 | 99 | AT7 1045-40 | 41 | 33 | 27 | 17 | 1.26 | 0.90 | 0.08 | 0.24 | 2.8 | 30 |
| 500 | 99 | AT7 1050-40 | 45 | 36 | 29 | 19 | 1.26 | 1.00 | 0.08 | 0.26 | 3.0 | 30 |
| 550 | 99 | AT7 1055-40 | 49 | 39 | 32 | 20 | 1.26 | 1.10 | 0.09 | 0.28 | 3.3 | 30 |
| 600 | 99 | AT7 1060-40 | 52 | 42 | 34 | 22 | 1.26 | 1.20 | 0.10 | 0.30 | 3.5 | 30 |
| 650 | 99 | AT7 1065-40 | 56 | 45 | 36 | 23 | 1.27 | 1.30 | 0.11 | 0.32 | 3.8 | 30 |
| 700 | 99 | AT7 1070-40 | 59 | 47 | 38 | 24 | 1.27 | 1.40 | 0.11 | 0.34 | 4.0 | 30 |
| 750 | 99 | AT7 1075-40 | 63 | 50 | 40 | 26 | 1.27 | 1.50 | 0.12 | 0.37 | 4.3 | 30 |
| 800 | 99 | AT7 1080-40 | 66 | 53 | 43 | 27 | 1.27 | 1.60 | 0.13 | 0.39 | 4.5 | 30 |
| 900 | 99 | AT7 1090-40 | 73 | 58 | 47 | 30 | 1.27 | 1.80 | 0.15 | 0.43 | 5.1 | 30 |
| 1000 | 99 | AT7 1100-40 | 80 | 64 | 52 | 33 | 1.28 | 1.90 | 0.16 | 0.47 | 5.6 | 30 |
| 1100 | 99 | AT7 1110-40 | 88 | 70 | 57 | 36 | 1.29 | 2.10 | 0.18 | 0.51 | 6.1 | 30 |
| 1200 | 99 | AT7 1120-40 | 96 | 77 | 62 | 39 | 1.29 | 2.30 | 0.18 | 0.55 | 6.6 | 30 |
| 1250 | 99 | AT7 1125-40 | 100 | 80 | 64 | 41 | 1.30 | 2.40 | 0.20 | 0.58 | 6.9 | 30 |
| 1500 | 99 | AT7 1150-40 | 121 | 96 | 76 | 48 | 1.32 | 2.90 | 0.24 | 0.68 | 8.1 | 30 |
| 1600 | 99 | AT7 1160-40 | 129 | 102 | 81 | 51 | 1.33 | 3.00 | 0.25 | 0.73 | 8.6 | 30 |
| 1750 | 99 | AT7 1175-40 | 140 | 111 | 89 | 57 | 1.31 | 3.30 | 0.27 | 0.80 | 9.4 | 30 |
| 1800 | 99 | AT7 1180-40 | 141 | 112 | 90 | 58 | 1.29 | 3.30 | 0.28 | 0.87 | 9.7 | 30 |
| 1900 | 99 | AT7 1190-40 | 152 | 121 | 97 | 62 | 1.29 | 3.60 | 0.30 | 0.86 | 10.1 | 30 |
| 2000 | 99 | AT7 1200-40 | 160 | 127 | 102 | 66 | 1.28 | 3.70 | 0.31 | 0.91 | 10.7 | 30 |
| 2100 | 99 | AT7 1210-40 | 167 | 134 | 108 | 69 | 1.27 | 3.70 | 0.33 | 0.95 | 11.2 | 30 |
| 2200 | 99 | AT7 1220-40 | 175 | 140 | 113 | 73 | 1.26 | 4.10 | 0.34 | 1.00 | 11.7 | 30 |
| 2500 | 99 | AT7 1250-40 | 199 | 160 | 129 | 83 | 1.26 | 4.60 | 0.39 | 1.14 | 13.3 | 30 |
| 3000 | 99 | AT7 1300-40 | 241 | 193 | 156 | 101 | 1.26 | 5.50 | 0.46 | 1.37 | 15.8 | 30 |

For individual calculations of heat outputs, see "General information"

Technical data per element



Technical data per element

Spacing 40 mm, 2-row

| Height H [mm] | Depth T [mm] | Version | Heat output to EN 442 | | | | Exponent n [] | Mass per element M [kg/el.] | Surface per element A [m ² /el.] | Water content per element W [l/el.] | Standard water flow q _{ms} [kg/h el.] | Radiated portions [%] |
|---------------|--------------|-------------|---------------------------------|--|---------------------------------|---------------------------------|----------------|-----------------------------|---|-------------------------------------|--|-----------------------|
| | | | Φ ΔT 60K 90/70/20°C [watts/el.] | Φ _L ΔT 50K 75/65/20°C [watts/el.] | Φ ΔT 42K 70/55/20°C [watts/el.] | Φ ΔT 30K 55/45/20°C [watts/el.] | | | | | | |
| 300 | 166 | AT7 2030-40 | 48 | 39 | 31 | 20 | 1.22 | 1.20 | 0.10 | 0.32 | 3.3 | 25 |
| 350 | 166 | AT7 2035-40 | 56 | 45 | 37 | 24 | 1.22 | 1.40 | 0.12 | 0.37 | 3.9 | 25 |
| 400 | 166 | AT7 2040-40 | 66 | 53 | 43 | 28 | 1.26 | 1.60 | 0.13 | 0.39 | 4.2 | 25 |
| 450 | 166 | AT7 2045-40 | 72 | 58 | 47 | 30 | 1.26 | 1.80 | 0.15 | 0.43 | 4.7 | 25 |
| 500 | 166 | AT7 2050-40 | 78 | 62 | 50 | 32 | 1.27 | 1.90 | 0.16 | 0.47 | 5.1 | 25 |
| 550 | 166 | AT7 2055-40 | 84 | 67 | 54 | 35 | 1.27 | 2.10 | 0.18 | 0.51 | 5.6 | 25 |
| 600 | 166 | AT7 2060-40 | 89 | 71 | 57 | 37 | 1.28 | 2.30 | 0.19 | 0.55 | 6.0 | 25 |
| 650 | 166 | AT7 2065-40 | 95 | 76 | 61 | 39 | 1.28 | 2.50 | 0.21 | 0.59 | 6.5 | 25 |
| 700 | 166 | AT7 2070-40 | 101 | 81 | 65 | 41 | 1.29 | 2.70 | 0.22 | 0.63 | 6.9 | 25 |
| 750 | 166 | AT7 2075-40 | 107 | 85 | 68 | 44 | 1.29 | 2.80 | 0.24 | 0.67 | 7.4 | 25 |
| 800 | 166 | AT7 2080-40 | 114 | 90 | 72 | 46 | 1.30 | 3.00 | 0.25 | 0.71 | 7.9 | 25 |
| 900 | 166 | AT7 2090-40 | 126 | 100 | 80 | 51 | 1.30 | 3.40 | 0.28 | 0.79 | 8.9 | 25 |
| 1000 | 166 | AT7 2100-40 | 139 | 110 | 88 | 56 | 1.31 | 3.70 | 0.31 | 0.87 | 9.9 | 25 |
| 1100 | 166 | AT7 2110-40 | 151 | 120 | 96 | 61 | 1.32 | 4.10 | 0.34 | 0.98 | 10.8 | 25 |
| 1200 | 166 | AT7 2120-40 | 164 | 130 | 104 | 66 | 1.32 | 4.50 | 0.37 | 1.08 | 11.7 | 25 |
| 1250 | 166 | AT7 2125-40 | 171 | 135 | 108 | 68 | 1.32 | 4.60 | 0.39 | 1.13 | 12.2 | 25 |
| 1500 | 166 | AT7 2150-40 | 203 | 161 | 129 | 81 | 1.32 | 5.50 | 0.46 | 1.38 | 14.4 | 25 |
| 1600 | 166 | AT7 2160-40 | 216 | 171 | 137 | 86 | 1.33 | 5.90 | 0.49 | 1.48 | 15.4 | 25 |
| 1750 | 166 | AT7 2175-40 | 241 | 191 | 152 | 96 | 1.33 | 6.40 | 0.54 | 1.61 | 16.8 | 25 |
| 1800 | 166 | AT7 2180-40 | 255 | 202 | 162 | 103 | 1.31 | 6.30 | 0.55 | 1.70 | 17.4 | 25 |
| 1900 | 166 | AT7 2190-40 | 254 | 201 | 161 | 101 | 1.33 | 7.00 | 0.58 | 1.74 | 18.4 | 25 |
| 2000 | 166 | AT7 2200-40 | 267 | 211 | 168 | 106 | 1.33 | 7.30 | 0.62 | 1.83 | 19.4 | 25 |
| 2100 | 166 | AT7 2210-40 | 280 | 221 | 176 | 111 | 1.34 | 7.70 | 0.65 | 1.92 | 20.4 | 25 |
| 2200 | 166 | AT7 2220-40 | 292 | 231 | 184 | 115 | 1.34 | 8.10 | 0.68 | 2.01 | 21.5 | 25 |
| 2500 | 166 | AT7 2250-40 | 329 | 260 | 207 | 130 | 1.34 | 9.10 | 0.77 | 2.28 | 24.4 | 25 |
| 3000 | 166 | AT7 2300-40 | 390 | 308 | 245 | 154 | 1.34 | 10.90 | 0.92 | 2.72 | 29.2 | 25 |

Technical data per element

For individual calculations of heat outputs, see "General information"



Technical data per element

Spacing 45 mm, 1-row

| Height H [mm] | Depth T [mm] | Version | Heat output to EN 442 | | | | Exponent n [] | Mass per element M [kg/el.] | Surface per element A [m ² /el.] | Water content per element W [l/el.] | Standard water flow q _{ms} [kg/h el.] | Radiated portions [%] |
|---------------|--------------|-------------|---------------------------------|--|---------------------------------|---------------------------------|----------------|-----------------------------|---|-------------------------------------|--|-----------------------|
| | | | Φ ΔT 60K 90/70/20°C [watts/el.] | Φ _L ΔT 50K 75/65/20°C [watts/el.] | Φ ΔT 42K 70/55/20°C [watts/el.] | Φ ΔT 30K 55/45/20°C [watts/el.] | | | | | | |
| 300 | 99 | AT7 1030-45 | 30 | 24 | 20 | 13 | 1.20 | 0.70 | 0.06 | 0.19 | 2.1 | 30 |
| 350 | 99 | AT7 1035-45 | 34 | 28 | 23 | 15 | 1.20 | 0.80 | 0.06 | 0.22 | 2.4 | 30 |
| 400 | 99 | AT7 1040-45 | 40 | 32 | 26 | 17 | 1.25 | 0.90 | 0.07 | 0.23 | 2.6 | 30 |
| 450 | 99 | AT7 1045-45 | 43 | 35 | 28 | 18 | 1.25 | 1.00 | 0.08 | 0.25 | 2.8 | 30 |
| 500 | 99 | AT7 1050-45 | 47 | 38 | 31 | 20 | 1.26 | 1.00 | 0.09 | 0.27 | 3.1 | 30 |
| 550 | 99 | AT7 1055-45 | 51 | 41 | 33 | 21 | 1.26 | 1.10 | 0.09 | 0.29 | 3.4 | 30 |
| 600 | 99 | AT7 1060-45 | 54 | 44 | 35 | 23 | 1.26 | 1.20 | 0.10 | 0.31 | 3.6 | 30 |
| 650 | 99 | AT7 1065-45 | 57 | 46 | 37 | 24 | 1.26 | 1.30 | 0.11 | 0.33 | 3.9 | 30 |
| 700 | 99 | AT7 1070-45 | 62 | 49 | 40 | 26 | 1.27 | 1.40 | 0.12 | 0.35 | 4.2 | 30 |
| 750 | 99 | AT7 1075-45 | 65 | 52 | 42 | 27 | 1.27 | 1.50 | 0.12 | 0.37 | 4.5 | 30 |
| 800 | 99 | AT7 1080-45 | 69 | 55 | 44 | 29 | 1.27 | 1.60 | 0.13 | 0.39 | 4.7 | 30 |
| 900 | 99 | AT7 1090-45 | 76 | 61 | 49 | 31 | 1.28 | 1.80 | 0.15 | 0.43 | 5.3 | 30 |
| 1000 | 99 | AT7 1100-45 | 83 | 66 | 53 | 34 | 1.28 | 2.00 | 0.16 | 0.47 | 5.8 | 30 |
| 1100 | 99 | AT7 1110-45 | 92 | 73 | 59 | 38 | 1.29 | 2.10 | 0.18 | 0.51 | 6.3 | 30 |
| 1200 | 99 | AT7 1120-45 | 100 | 80 | 64 | 41 | 1.30 | 2.30 | 0.18 | 0.56 | 6.8 | 30 |
| 1250 | 99 | AT7 1125-45 | 104 | 83 | 66 | 42 | 1.31 | 2.40 | 0.20 | 0.59 | 7.1 | 30 |
| 1500 | 99 | AT7 1150-45 | 125 | 99 | 79 | 50 | 1.33 | 2.90 | 0.24 | 0.71 | 8.4 | 30 |
| 1600 | 99 | AT7 1160-45 | 134 | 106 | 84 | 53 | 1.34 | 3.00 | 0.25 | 0.76 | 9.0 | 30 |
| 1750 | 99 | AT7 1175-45 | 145 | 115 | 92 | 58 | 1.33 | 3.30 | 0.27 | 0.83 | 9.7 | 30 |
| 1800 | 99 | AT7 1180-45 | 146 | 116 | 93 | 59 | 1.30 | 3.30 | 0.28 | 0.88 | 10.0 | 30 |
| 1900 | 99 | AT7 1190-45 | 158 | 125 | 100 | 63 | 1.32 | 3.60 | 0.30 | 0.89 | 10.4 | 30 |
| 2000 | 99 | AT7 1200-45 | 166 | 132 | 106 | 67 | 1.31 | 3.80 | 0.31 | 0.94 | 10.9 | 30 |
| 2100 | 99 | AT7 1210-45 | 174 | 139 | 111 | 71 | 1.30 | 3.90 | 0.33 | 0.98 | 11.5 | 30 |
| 2200 | 99 | AT7 1220-45 | 183 | 145 | 117 | 75 | 1.29 | 4.10 | 0.34 | 1.02 | 12.0 | 30 |
| 2500 | 99 | AT7 1250-45 | 208 | 166 | 133 | 85 | 1.29 | 4.70 | 0.39 | 1.16 | 13.6 | 30 |
| 3000 | 99 | AT7 1300-45 | 251 | 200 | 161 | 103 | 1.29 | 5.50 | 0.46 | 1.38 | 16.2 | 30 |

For individual calculations of heat outputs, see "General information"

Technical data per element



Technical data per element

Spacing 45 mm, 2-row

| Height H [mm] | Depth T [mm] | Version | Heat output to EN 442 | | | | Exponent n [] | Mass per element M [kg/el.] | Surface per element A [m ² /el.] | Water content per element W [l/el.] | Standard water flow q _{ms} [kg/h el.] | Radiated portions [%] |
|---------------|--------------|-------------|---------------------------------|--|---------------------------------|---------------------------------|----------------|-----------------------------|---|-------------------------------------|--|-----------------------|
| | | | Φ ΔT 60K 90/70/20°C [watts/el.] | Φ _L ΔT 50K 75/65/20°C [watts/el.] | Φ ΔT 42K 70/55/20°C [watts/el.] | Φ ΔT 30K 55/45/20°C [watts/el.] | | | | | | |
| 300 | 166 | AT7 2030-45 | 49 | 40 | 32 | 21 | 1.22 | 1.20 | 0.10 | 0.33 | 3.4 | 25 |
| 350 | 166 | AT7 2035-45 | 58 | 46 | 38 | 25 | 1.22 | 1.40 | 0.12 | 0.37 | 4.0 | 25 |
| 400 | 166 | AT7 2040-45 | 68 | 55 | 44 | 29 | 1.26 | 1.60 | 0.13 | 0.39 | 4.3 | 25 |
| 450 | 166 | AT7 2045-45 | 74 | 59 | 48 | 31 | 1.26 | 1.80 | 0.15 | 0.43 | 4.8 | 25 |
| 500 | 166 | AT7 2050-45 | 80 | 64 | 52 | 33 | 1.27 | 2.00 | 0.16 | 0.47 | 5.3 | 25 |
| 550 | 166 | AT7 2055-45 | 86 | 69 | 56 | 36 | 1.27 | 2.10 | 0.18 | 0.51 | 5.7 | 25 |
| 600 | 166 | AT7 2060-45 | 92 | 74 | 59 | 38 | 1.28 | 2.30 | 0.19 | 0.55 | 6.2 | 25 |
| 650 | 166 | AT7 2065-45 | 98 | 79 | 63 | 41 | 1.28 | 2.50 | 0.21 | 0.59 | 6.7 | 25 |
| 700 | 166 | AT7 2070-45 | 105 | 83 | 67 | 43 | 1.29 | 2.70 | 0.22 | 0.63 | 7.1 | 25 |
| 750 | 166 | AT7 2075-45 | 111 | 88 | 71 | 45 | 1.29 | 2.80 | 0.24 | 0.67 | 7.6 | 25 |
| 800 | 166 | AT7 2080-45 | 117 | 93 | 75 | 48 | 1.30 | 3.00 | 0.25 | 0.71 | 8.1 | 25 |
| 900 | 166 | AT7 2090-45 | 130 | 103 | 83 | 52 | 1.31 | 3.40 | 0.28 | 0.79 | 9.2 | 25 |
| 1000 | 166 | AT7 2100-45 | 143 | 114 | 91 | 57 | 1.32 | 3.70 | 0.31 | 0.86 | 10.1 | 25 |
| 1100 | 166 | AT7 2110-45 | 157 | 124 | 99 | 63 | 1.32 | 4.10 | 0.34 | 0.97 | 11.1 | 25 |
| 1200 | 166 | AT7 2120-45 | 170 | 135 | 108 | 68 | 1.32 | 4.50 | 0.37 | 1.07 | 12.0 | 25 |
| 1250 | 166 | AT7 2125-45 | 177 | 140 | 112 | 71 | 1.32 | 4.70 | 0.39 | 1.12 | 12.5 | 25 |
| 1500 | 166 | AT7 2150-45 | 211 | 167 | 133 | 84 | 1.32 | 5.60 | 0.46 | 1.38 | 14.8 | 25 |
| 1600 | 166 | AT7 2160-45 | 223 | 177 | 141 | 89 | 1.32 | 6.00 | 0.49 | 1.49 | 15.7 | 25 |
| 1750 | 166 | AT7 2175-45 | 244 | 193 | 154 | 97 | 1.33 | 6.50 | 0.54 | 1.62 | 17.1 | 25 |
| 1800 | 166 | AT7 2180-45 | 250 | 198 | 158 | 100 | 1.32 | 6.40 | 0.56 | 1.70 | 17.7 | 25 |
| 1900 | 166 | AT7 2190-45 | 264 | 209 | 167 | 105 | 1.33 | 7.00 | 0.59 | 1.76 | 18.7 | 25 |
| 2000 | 166 | AT7 2200-45 | 277 | 219 | 175 | 110 | 1.33 | 7.40 | 0.62 | 1.85 | 19.7 | 25 |
| 2100 | 166 | AT7 2210-45 | 290 | 229 | 183 | 115 | 1.33 | 7.70 | 0.65 | 1.94 | 20.7 | 25 |
| 2200 | 166 | AT7 2220-45 | 303 | 240 | 191 | 120 | 1.34 | 8.10 | 0.68 | 2.03 | 21.7 | 25 |
| 2500 | 166 | AT7 2250-45 | 342 | 270 | 215 | 135 | 1.34 | 9.20 | 0.77 | 2.30 | 24.6 | 25 |
| 3000 | 166 | AT7 2300-45 | 405 | 320 | 255 | 160 | 1.34 | 11.00 | 0.92 | 2.75 | 29.4 | 25 |

Technical data per element

For individual calculations of heat outputs, see "General information"



Technical data per element

Spacing 50 mm, 1-row

| Height H [mm] | Depth T [mm] | Version | Heat output to EN 442 | | | | Exponent n [] | Mass per element M [kg/el.] | Surface per element A [m ² /el.] | Water content per element W [l/el.] | Standard water flow q _{ms} [kg/h el.] | Radiated portions [%] |
|---------------|--------------|-------------|---------------------------------|--|---------------------------------|---------------------------------|----------------|-----------------------------|---|-------------------------------------|--|-----------------------|
| | | | Φ ΔT 60K 90/70/20°C [watts/el.] | Φ _L ΔT 50K 75/65/20°C [watts/el.] | Φ ΔT 42K 70/55/20°C [watts/el.] | Φ ΔT 30K 55/45/20°C [watts/el.] | | | | | | |
| 300 | 99 | AT7 1030-50 | 31 | 25 | 20 | 13 | 1.20 | 0.70 | 0.06 | 0.20 | 2.1 | 30 |
| 350 | 99 | AT7 1035-50 | 35 | 29 | 23 | 15 | 1.20 | 0.80 | 0.06 | 0.22 | 2.5 | 30 |
| 400 | 99 | AT7 1040-50 | 41 | 33 | 27 | 17 | 1.25 | 0.90 | 0.07 | 0.24 | 2.6 | 30 |
| 450 | 99 | AT7 1045-50 | 45 | 36 | 29 | 19 | 1.25 | 1.00 | 0.08 | 0.26 | 2.9 | 30 |
| 500 | 99 | AT7 1050-50 | 49 | 39 | 32 | 20 | 1.25 | 1.10 | 0.09 | 0.27 | 3.2 | 30 |
| 550 | 99 | AT7 1055-50 | 53 | 42 | 34 | 22 | 1.26 | 1.20 | 0.09 | 0.29 | 3.5 | 30 |
| 600 | 99 | AT7 1060-50 | 56 | 45 | 37 | 24 | 1.20 | 1.20 | 0.10 | 0.31 | 3.8 | 30 |
| 650 | 99 | AT7 1065-50 | 60 | 48 | 39 | 25 | 1.26 | 1.30 | 0.11 | 0.33 | 4.1 | 30 |
| 700 | 99 | AT7 1070-50 | 64 | 51 | 41 | 27 | 1.27 | 1.40 | 0.12 | 0.35 | 4.3 | 30 |
| 750 | 99 | AT7 1075-50 | 68 | 54 | 44 | 28 | 1.27 | 1.50 | 0.12 | 0.37 | 4.6 | 30 |
| 800 | 99 | AT7 1080-50 | 71 | 57 | 46 | 30 | 1.27 | 1.60 | 0.13 | 0.39 | 4.9 | 30 |
| 900 | 99 | AT7 1090-50 | 79 | 63 | 51 | 32 | 1.28 | 1.80 | 0.15 | 0.42 | 5.5 | 30 |
| 1000 | 99 | AT7 1100-50 | 86 | 69 | 55 | 36 | 1.28 | 2.00 | 0.16 | 0.46 | 6.0 | 30 |
| 1100 | 99 | AT7 1110-50 | 94 | 75 | 60 | 38 | 1.30 | 2.20 | 0.18 | 0.52 | 6.5 | 30 |
| 1200 | 99 | AT7 1120-50 | 104 | 82 | 66 | 42 | 1.31 | 2.30 | 0.18 | 0.57 | 7.1 | 30 |
| 1250 | 99 | AT7 1125-50 | 108 | 86 | 68 | 43 | 1.31 | 2.40 | 0.20 | 0.60 | 7.3 | 30 |
| 1500 | 99 | AT7 1150-50 | 130 | 102 | 82 | 51 | 1.34 | 2.90 | 0.24 | 0.74 | 8.7 | 30 |
| 1600 | 99 | AT7 1160-50 | 138 | 109 | 87 | 54 | 1.35 | 3.10 | 0.25 | 0.79 | 9.3 | 30 |
| 1750 | 99 | AT7 1175-50 | 151 | 119 | 95 | 60 | 1.34 | 3.30 | 0.28 | 0.86 | 10.1 | 30 |
| 1800 | 99 | AT7 1180-50 | 152 | 120 | 96 | 61 | 1.31 | 3.30 | 0.28 | 0.89 | 10.4 | 30 |
| 1900 | 99 | AT7 1190-50 | 164 | 130 | 103 | 65 | 1.34 | 3.60 | 0.30 | 0.92 | 10.7 | 30 |
| 2000 | 99 | AT7 1200-50 | 172 | 136 | 109 | 69 | 1.33 | 3.80 | 0.31 | 0.96 | 11.2 | 30 |
| 2100 | 99 | AT7 1210-50 | 181 | 143 | 115 | 72 | 1.32 | 4.00 | 0.33 | 1.00 | 11.8 | 30 |
| 2200 | 99 | AT7 1220-50 | 190 | 150 | 120 | 76 | 1.32 | 4.20 | 0.34 | 1.05 | 12.3 | 30 |
| 2500 | 99 | AT7 1250-50 | 216 | 171 | 137 | 87 | 1.32 | 4.70 | 0.39 | 1.17 | 13.9 | 30 |
| 3000 | 99 | AT7 1300-50 | 261 | 207 | 165 | 104 | 1.32 | 5.60 | 0.46 | 1.39 | 16.6 | 30 |

For individual calculations of heat outputs, see "General information"

Technical data per element



Technical data per element

Spacing 50 mm, 2-row

| Height H [mm] | Depth T [mm] | Version | Heat output to EN 442 | | | | Exponent n [] | Mass per element M [kg/el.] | Surface per element A [m ² /el.] | Water content per element W [l/el.] | Standard water flow q _{ms} [kg/h el.] | Radiated portions [%] |
|---------------|--------------|-------------|---------------------------------|--|---------------------------------|---------------------------------|----------------|-----------------------------|---|-------------------------------------|--|-----------------------|
| | | | Φ ΔT 60K 90/70/20°C [watts/el.] | Φ _L ΔT 50K 75/65/20°C [watts/el.] | Φ ΔT 42K 70/55/20°C [watts/el.] | Φ ΔT 30K 55/45/20°C [watts/el.] | | | | | | |
| 300 | 166 | AT7 2030-50 | 51 | 41 | 33 | 22 | 1.22 | 1.20 | 0.10 | 0.33 | 3.5 | 25 |
| 350 | 166 | AT7 2035-50 | 59 | 48 | 39 | 25 | 1.22 | 1.40 | 0.12 | 0.38 | 4.1 | 25 |
| 400 | 166 | AT7 2040-50 | 70 | 56 | 45 | 29 | 1.26 | 1.60 | 0.13 | 0.39 | 4.5 | 25 |
| 450 | 166 | AT7 2045-50 | 76 | 61 | 49 | 32 | 1.26 | 1.80 | 0.15 | 0.43 | 4.9 | 25 |
| 500 | 166 | AT7 2050-50 | 83 | 66 | 53 | 34 | 1.27 | 2.00 | 0.16 | 0.47 | 5.4 | 25 |
| 550 | 166 | AT7 2055-50 | 89 | 71 | 57 | 37 | 1.28 | 2.10 | 0.18 | 0.51 | 5.9 | 25 |
| 600 | 166 | AT7 2060-50 | 95 | 76 | 61 | 39 | 1.28 | 2.30 | 0.19 | 0.55 | 6.4 | 25 |
| 650 | 166 | AT7 2065-50 | 101 | 81 | 65 | 41 | 1.29 | 2.50 | 0.21 | 0.59 | 6.9 | 25 |
| 700 | 166 | AT7 2070-50 | 108 | 86 | 69 | 44 | 1.29 | 2.70 | 0.22 | 0.62 | 7.4 | 25 |
| 750 | 166 | AT7 2075-50 | 114 | 91 | 73 | 46 | 1.30 | 2.90 | 0.24 | 0.66 | 7.8 | 25 |
| 800 | 166 | AT7 2080-50 | 121 | 96 | 77 | 49 | 1.31 | 3.00 | 0.25 | 0.70 | 8.4 | 25 |
| 900 | 166 | AT7 2090-50 | 134 | 106 | 85 | 54 | 1.32 | 3.40 | 0.28 | 0.78 | 9.4 | 25 |
| 1000 | 166 | AT7 2100-50 | 148 | 117 | 93 | 59 | 1.33 | 3.80 | 0.31 | 0.85 | 10.3 | 25 |
| 1100 | 166 | AT7 2110-50 | 162 | 128 | 102 | 64 | 1.33 | 4.10 | 0.34 | 0.96 | 11.4 | 25 |
| 1200 | 166 | AT7 2120-50 | 176 | 140 | 111 | 70 | 1.33 | 4.50 | 0.37 | 1.07 | 12.3 | 25 |
| 1250 | 166 | AT7 2125-50 | 183 | 145 | 116 | 73 | 1.33 | 4.70 | 0.39 | 1.12 | 12.7 | 25 |
| 1500 | 166 | AT7 2150-50 | 218 | 173 | 138 | 87 | 1.33 | 5.60 | 0.47 | 1.39 | 15.1 | 25 |
| 1600 | 166 | AT7 2160-50 | 231 | 183 | 147 | 93 | 1.32 | 6.00 | 0.50 | 1.48 | 16.0 | 25 |
| 1750 | 166 | AT7 2175-50 | 252 | 200 | 159 | 100 | 1.33 | 6.50 | 0.54 | 1.63 | 17.4 | 25 |
| 1800 | 166 | AT7 2180-50 | 258 | 204 | 163 | 103 | 1.33 | 6.40 | 0.56 | 1.71 | 17.9 | 25 |
| 1900 | 166 | AT7 2190-50 | 273 | 216 | 172 | 108 | 1.33 | 7.00 | 0.59 | 1.77 | 18.9 | 25 |
| 2000 | 166 | AT7 2200-50 | 286 | 226 | 181 | 114 | 1.33 | 7.40 | 0.62 | 1.86 | 19.9 | 25 |
| 2100 | 166 | AT7 2210-50 | 300 | 237 | 189 | 119 | 1.33 | 7.80 | 0.65 | 1.95 | 20.9 | 25 |
| 2200 | 166 | AT7 2220-50 | 313 | 248 | 198 | 125 | 1.33 | 8.10 | 0.68 | 2.05 | 21.9 | 25 |
| 2500 | 166 | AT7 2250-50 | 353 | 279 | 223 | 140 | 1.33 | 9.20 | 0.77 | 2.32 | 24.8 | 25 |
| 3000 | 166 | AT7 2300-50 | 418 | 330 | 264 | 166 | 1.33 | 11.00 | 0.92 | 2.78 | 29.5 | 25 |

Technical data per element

For individual calculations of heat outputs, see "General information"



Technical data per element

Spacing 55 mm, 1-row

| Height H [mm] | Depth T [mm] | Version | Heat output to EN 442 | | | | Exponent n [] | Mass per element M [kg/el.] | Surface per element A [m ² /el.] | Water content per element W [l/el.] | Standard water flow q _{ms} [kg/h el.] | Radiated portions [%] |
|---------------|--------------|-------------|---------------------------------|--|---------------------------------|---------------------------------|----------------|-----------------------------|---|-------------------------------------|--|-----------------------|
| | | | Φ ΔT 60K 90/70/20°C [watts/el.] | Φ _L ΔT 50K 75/65/20°C [watts/el.] | Φ ΔT 42K 70/55/20°C [watts/el.] | Φ ΔT 30K 55/45/20°C [watts/el.] | | | | | | |
| 300 | 99 | AT7 1030-55 | 32 | 26 | 21 | 14 | 1.19 | 0.70 | 0.06 | 0.21 | 2.2 | 30 |
| 350 | 99 | AT7 1035-55 | 36 | 30 | 24 | 16 | 1.19 | 0.80 | 0.06 | 0.23 | 2.5 | 30 |
| 400 | 99 | AT7 1040-55 | 42 | 34 | 28 | 18 | 1.25 | 0.90 | 0.07 | 0.24 | 2.7 | 30 |
| 450 | 99 | AT7 1045-55 | 46 | 37 | 30 | 19 | 1.25 | 1.00 | 0.08 | 0.26 | 3.0 | 30 |
| 500 | 99 | AT7 1050-55 | 50 | 40 | 33 | 21 | 1.26 | 1.10 | 0.09 | 0.28 | 3.3 | 30 |
| 550 | 99 | AT7 1055-55 | 54 | 43 | 35 | 22 | 1.26 | 1.20 | 0.10 | 0.30 | 3.6 | 30 |
| 600 | 99 | AT7 1060-55 | 58 | 47 | 38 | 24 | 1.26 | 1.30 | 0.10 | 0.32 | 3.8 | 30 |
| 650 | 99 | AT7 1065-55 | 62 | 50 | 40 | 26 | 1.26 | 1.40 | 0.11 | 0.34 | 4.2 | 30 |
| 700 | 99 | AT7 1070-55 | 66 | 53 | 42 | 27 | 1.27 | 1.40 | 0.12 | 0.36 | 4.4 | 30 |
| 750 | 99 | AT7 1075-55 | 70 | 56 | 45 | 29 | 1.27 | 1.50 | 0.13 | 0.38 | 4.7 | 30 |
| 800 | 99 | AT7 1080-55 | 74 | 59 | 47 | 31 | 1.27 | 1.60 | 0.13 | 0.40 | 5.0 | 30 |
| 900 | 99 | AT7 1090-55 | 81 | 65 | 52 | 33 | 1.28 | 1.80 | 0.15 | 0.44 | 5.6 | 30 |
| 1000 | 99 | AT7 1100-55 | 89 | 71 | 57 | 37 | 1.28 | 2.00 | 0.16 | 0.48 | 6.1 | 30 |
| 1100 | 99 | AT7 1110-55 | 98 | 78 | 62 | 40 | 1.29 | 2.20 | 0.18 | 0.53 | 6.6 | 30 |
| 1200 | 99 | AT7 1120-55 | 106 | 85 | 68 | 43 | 1.30 | 2.40 | 0.18 | 0.58 | 7.2 | 30 |
| 1250 | 99 | AT7 1125-55 | 111 | 88 | 71 | 45 | 1.31 | 2.40 | 0.20 | 0.60 | 7.4 | 30 |
| 1500 | 99 | AT7 1150-55 | 133 | 105 | 84 | 53 | 1.33 | 2.90 | 0.24 | 0.73 | 8.8 | 30 |
| 1600 | 99 | AT7 1160-55 | 142 | 112 | 90 | 56 | 1.34 | 3.10 | 0.25 | 0.78 | 9.4 | 30 |
| 1750 | 99 | AT7 1175-55 | 155 | 123 | 98 | 62 | 1.33 | 3.40 | 0.28 | 0.85 | 10.2 | 30 |
| 1800 | 99 | AT7 1180-55 | 153 | 122 | 98 | 63 | 1.28 | 3.30 | 0.28 | 0.89 | 10.5 | 30 |
| 1900 | 99 | AT7 1190-55 | 168 | 133 | 107 | 67 | 1.32 | 3.60 | 0.30 | 0.92 | 11.0 | 30 |
| 2000 | 99 | AT7 1200-55 | 177 | 140 | 112 | 71 | 1.32 | 3.80 | 0.31 | 0.96 | 11.6 | 30 |
| 2100 | 99 | AT7 1210-55 | 186 | 148 | 118 | 75 | 1.31 | 4.00 | 0.33 | 1.01 | 12.2 | 30 |
| 2200 | 99 | AT7 1220-55 | 195 | 155 | 124 | 79 | 1.30 | 4.20 | 0.34 | 1.06 | 12.7 | 30 |
| 2500 | 99 | AT7 1250-55 | 222 | 176 | 141 | 90 | 1.30 | 4.70 | 0.39 | 1.19 | 14.4 | 30 |
| 3000 | 99 | AT7 1300-55 | 268 | 213 | 171 | 109 | 1.30 | 5.60 | 0.47 | 1.43 | 17.2 | 30 |

For individual calculations of heat outputs, see "General information"

Technical data per element



Technical data per element

Spacing 55 mm, 2-row

| Height H [mm] | Depth T [mm] | Version | Heat output to EN 442 | | | | Exponent n [] | Mass per element M [kg/el.] | Surface per element A [m ² /el.] | Water content per element W [l/el.] | Standard water flow q _{ms} [kg/h el.] | Radiated portions [%] |
|---------------|--------------|-------------|---------------------------------|--|---------------------------------|---------------------------------|----------------|-----------------------------|---|-------------------------------------|--|-----------------------|
| | | | Φ ΔT 60K 90/70/20°C [watts/el.] | Φ _L ΔT 50K 75/65/20°C [watts/el.] | Φ ΔT 42K 70/55/20°C [watts/el.] | Φ ΔT 30K 55/45/20°C [watts/el.] | | | | | | |
| 300 | 166 | AT7 2030-55 | 52 | 42 | 34 | 23 | 1.21 | 1.20 | 0.10 | 0.34 | 3.6 | 25 |
| 350 | 166 | AT7 2035-55 | 60 | 49 | 40 | 26 | 1.21 | 1.40 | 0.12 | 0.39 | 4.2 | 25 |
| 400 | 166 | AT7 2040-55 | 72 | 58 | 47 | 30 | 1.26 | 1.60 | 0.13 | 0.40 | 4.6 | 25 |
| 450 | 166 | AT7 2045-55 | 79 | 63 | 51 | 33 | 1.27 | 1.80 | 0.15 | 0.44 | 5.1 | 25 |
| 500 | 166 | AT7 2050-55 | 85 | 68 | 55 | 35 | 1.27 | 2.00 | 0.16 | 0.48 | 5.6 | 25 |
| 550 | 166 | AT7 2055-55 | 91 | 73 | 59 | 38 | 1.28 | 2.20 | 0.18 | 0.52 | 6.1 | 25 |
| 600 | 166 | AT7 2060-55 | 98 | 78 | 63 | 40 | 1.28 | 2.30 | 0.19 | 0.56 | 6.6 | 25 |
| 650 | 166 | AT7 2065-55 | 104 | 83 | 67 | 43 | 1.29 | 2.50 | 0.21 | 0.60 | 7.1 | 25 |
| 700 | 166 | AT7 2070-55 | 110 | 88 | 71 | 45 | 1.29 | 2.70 | 0.22 | 0.64 | 7.6 | 25 |
| 750 | 166 | AT7 2075-55 | 117 | 93 | 75 | 48 | 1.30 | 2.90 | 0.24 | 0.68 | 8.1 | 25 |
| 800 | 166 | AT7 2080-55 | 124 | 98 | 79 | 50 | 1.30 | 3.10 | 0.25 | 0.72 | 8.6 | 25 |
| 900 | 166 | AT7 2090-55 | 138 | 109 | 87 | 55 | 1.32 | 3.40 | 0.29 | 0.80 | 9.7 | 25 |
| 1000 | 166 | AT7 2100-55 | 152 | 120 | 96 | 60 | 1.33 | 3.80 | 0.32 | 0.88 | 10.6 | 25 |
| 1100 | 166 | AT7 2110-55 | 167 | 132 | 106 | 67 | 1.33 | 4.10 | 0.35 | 0.98 | 11.7 | 25 |
| 1200 | 166 | AT7 2120-55 | 181 | 144 | 115 | 73 | 1.32 | 4.50 | 0.38 | 1.08 | 12.6 | 25 |
| 1250 | 166 | AT7 2125-55 | 189 | 150 | 119 | 76 | 1.32 | 4.70 | 0.39 | 1.13 | 13.1 | 25 |
| 1500 | 166 | AT7 2150-55 | 224 | 178 | 142 | 90 | 1.32 | 5.60 | 0.47 | 1.38 | 15.5 | 25 |
| 1600 | 166 | AT7 2160-55 | 239 | 189 | 151 | 96 | 1.32 | 6.00 | 0.50 | 1.47 | 16.4 | 25 |
| 1750 | 166 | AT7 2175-55 | 260 | 206 | 164 | 104 | 1.32 | 6.50 | 0.54 | 1.62 | 17.8 | 25 |
| 1800 | 166 | AT7 2180-55 | 265 | 211 | 169 | 108 | 1.30 | 6.40 | 0.56 | 1.72 | 18.3 | 25 |
| 1900 | 166 | AT7 2190-55 | 281 | 222 | 178 | 112 | 1.32 | 7.10 | 0.59 | 1.77 | 19.3 | 25 |
| 2000 | 166 | AT7 2200-55 | 294 | 233 | 186 | 118 | 1.32 | 7.40 | 0.62 | 1.86 | 20.3 | 25 |
| 2100 | 166 | AT7 2210-55 | 308 | 244 | 195 | 123 | 1.32 | 7.80 | 0.65 | 1.95 | 21.3 | 25 |
| 2200 | 166 | AT7 2220-55 | 321 | 255 | 204 | 130 | 1.31 | 8.10 | 0.68 | 2.05 | 22.3 | 25 |
| 2500 | 166 | AT7 2250-55 | 362 | 287 | 230 | 146 | 1.31 | 9.20 | 0.77 | 2.33 | 25.2 | 25 |
| 3000 | 166 | AT7 2300-55 | 429 | 340 | 272 | 173 | 1.31 | 11.00 | 0.92 | 2.80 | 30.1 | 25 |

Technical data per element

For individual calculations of heat outputs, see "General information"



Technical data per element

Spacing 60 mm, 1-row

| Height H [mm] | Depth T [mm] | Version | Heat output to EN 442 | | | | Exponent n [] | Mass per element M [kg/el.] | Surface per element A [m ² /el.] | Water content per element W [l/el.] | Standard water flow q _{ms} [kg/h el.] | Radiated portions [%] |
|---------------|--------------|-------------|---------------------------------|--|---------------------------------|---------------------------------|----------------|-----------------------------|---|-------------------------------------|--|-----------------------|
| | | | Φ ΔT 60K 90/70/20°C [watts/el.] | Φ _L ΔT 50K 75/65/20°C [watts/el.] | Φ ΔT 42K 70/55/20°C [watts/el.] | Φ ΔT 30K 55/45/20°C [watts/el.] | | | | | | |
| 300 | 99 | AT7 1030-60 | 33 | 27 | 22 | 14 | 1.18 | 0.70 | 0.06 | 0.21 | 2.3 | 30 |
| 350 | 99 | AT7 1035-60 | 37 | 30 | 25 | 16 | 1.18 | 0.80 | 0.07 | 0.23 | 2.6 | 30 |
| 400 | 99 | AT7 1040-60 | 44 | 35 | 28 | 18 | 1.25 | 0.90 | 0.07 | 0.24 | 2.8 | 30 |
| 450 | 99 | AT7 1045-60 | 48 | 38 | 31 | 20 | 1.25 | 1.00 | 0.08 | 0.27 | 3.1 | 30 |
| 500 | 99 | AT7 1050-60 | 51 | 41 | 33 | 21 | 1.26 | 1.10 | 0.09 | 0.29 | 3.4 | 30 |
| 550 | 99 | AT7 1055-60 | 56 | 45 | 36 | 23 | 1.26 | 1.20 | 0.10 | 0.31 | 3.7 | 30 |
| 600 | 99 | AT7 1060-60 | 60 | 48 | 39 | 25 | 1.26 | 1.30 | 0.10 | 0.33 | 4.0 | 30 |
| 650 | 99 | AT7 1065-60 | 64 | 51 | 41 | 27 | 1.26 | 1.40 | 0.11 | 0.35 | 4.2 | 30 |
| 700 | 99 | AT7 1070-60 | 68 | 54 | 44 | 28 | 1.27 | 1.50 | 0.12 | 0.37 | 4.6 | 30 |
| 750 | 99 | AT7 1075-60 | 72 | 57 | 46 | 30 | 1.27 | 1.50 | 0.13 | 0.39 | 4.8 | 30 |
| 800 | 99 | AT7 1080-60 | 75 | 60 | 48 | 31 | 1.27 | 1.60 | 0.13 | 0.41 | 5.1 | 30 |
| 900 | 99 | AT7 1090-60 | 84 | 67 | 54 | 34 | 1.28 | 1.80 | 0.15 | 0.45 | 5.7 | 30 |
| 1000 | 99 | AT7 1100-60 | 92 | 73 | 59 | 38 | 1.28 | 2.00 | 0.16 | 0.49 | 6.3 | 30 |
| 1100 | 99 | AT7 1110-60 | 100 | 80 | 64 | 41 | 1.29 | 2.20 | 0.18 | 0.54 | 6.8 | 30 |
| 1200 | 99 | AT7 1120-60 | 109 | 87 | 70 | 44 | 1.30 | 2.40 | 0.18 | 0.58 | 7.4 | 30 |
| 1250 | 99 | AT7 1125-60 | 113 | 90 | 72 | 46 | 1.30 | 2.50 | 0.20 | 0.60 | 7.7 | 30 |
| 1500 | 99 | AT7 1150-60 | 137 | 108 | 87 | 55 | 1.32 | 2.90 | 0.24 | 0.72 | 9.1 | 30 |
| 1600 | 99 | AT7 1160-60 | 145 | 115 | 92 | 58 | 1.33 | 3.10 | 0.26 | 0.76 | 9.7 | 30 |
| 1750 | 99 | AT7 1175-60 | 159 | 126 | 101 | 64 | 1.32 | 3.40 | 0.28 | 0.84 | 10.5 | 30 |
| 1800 | 99 | AT7 1180-60 | 162 | 130 | 105 | 68 | 1.24 | 3.30 | 0.29 | 0.90 | 10.8 | 30 |
| 1900 | 99 | AT7 1190-60 | 173 | 137 | 110 | 70 | 1.31 | 3.70 | 0.30 | 0.91 | 11.4 | 30 |
| 2000 | 99 | AT7 1200-60 | 181 | 144 | 116 | 74 | 1.30 | 3.80 | 0.32 | 0.96 | 12.0 | 30 |
| 2100 | 99 | AT7 1210-60 | 190 | 152 | 122 | 78 | 1.29 | 4.00 | 0.33 | 1.01 | 12.6 | 30 |
| 2200 | 99 | AT7 1220-60 | 199 | 159 | 128 | 82 | 1.29 | 4.20 | 0.35 | 1.06 | 13.1 | 30 |
| 2500 | 99 | AT7 1250-60 | 227 | 181 | 145 | 93 | 1.29 | 4.80 | 0.39 | 1.22 | 14.9 | 30 |
| 3000 | 99 | AT7 1300-60 | 275 | 219 | 176 | 112 | 1.29 | 5.70 | 0.47 | 1.47 | 17.8 | 30 |

For individual calculations of heat outputs, see "General information"

Technical data per element



Technical data per element

Spacing 60 mm, 2-row

| Height H [mm] | Depth T [mm] | Version | Heat output to EN 442 | | | | Exponent n [] | Mass per element M [kg/el.] | Surface per element A [m ² /el.] | Water content per element W [l/el.] | Standard water flow q _{ms} [kg/h el.] | Radiated portions [%] |
|---------------|--------------|-------------|---------------------------------|--|---------------------------------|---------------------------------|----------------|-----------------------------|---|-------------------------------------|--|-----------------------|
| | | | Φ ΔT 60K 90/70/20°C [watts/el.] | Φ _L ΔT 50K 75/65/20°C [watts/el.] | Φ ΔT 42K 70/55/20°C [watts/el.] | Φ ΔT 30K 55/45/20°C [watts/el.] | | | | | | |
| 300 | 166 | AT7 2030-60 | 54 | 43 | 35 | 23 | 1.20 | 1.30 | 0.10 | 0.35 | 3.7 | 25 |
| 350 | 166 | AT7 2035-60 | 62 | 50 | 41 | 27 | 1.20 | 1.40 | 0.12 | 0.39 | 4.3 | 25 |
| 400 | 166 | AT7 2040-60 | 74 | 59 | 48 | 31 | 1.26 | 1.60 | 0.13 | 0.41 | 4.7 | 25 |
| 450 | 166 | AT7 2045-60 | 80 | 64 | 52 | 33 | 1.27 | 1.80 | 0.15 | 0.45 | 5.2 | 25 |
| 500 | 166 | AT7 2050-60 | 87 | 69 | 56 | 36 | 1.27 | 2.00 | 0.16 | 0.49 | 5.7 | 25 |
| 550 | 166 | AT7 2055-60 | 93 | 75 | 60 | 38 | 1.28 | 2.20 | 0.18 | 0.54 | 6.2 | 25 |
| 600 | 166 | AT7 2060-60 | 100 | 80 | 64 | 41 | 1.28 | 2.40 | 0.20 | 0.58 | 6.7 | 25 |
| 650 | 166 | AT7 2065-60 | 107 | 85 | 68 | 44 | 1.29 | 2.50 | 0.21 | 0.62 | 7.3 | 25 |
| 700 | 166 | AT7 2070-60 | 113 | 90 | 72 | 46 | 1.29 | 2.70 | 0.23 | 0.66 | 7.8 | 25 |
| 750 | 166 | AT7 2075-60 | 120 | 95 | 77 | 49 | 1.30 | 2.90 | 0.24 | 0.70 | 8.3 | 25 |
| 800 | 166 | AT7 2080-60 | 127 | 101 | 81 | 51 | 1.30 | 3.10 | 0.26 | 0.74 | 8.9 | 25 |
| 900 | 166 | AT7 2090-60 | 140 | 112 | 89 | 57 | 1.31 | 3.40 | 0.29 | 0.83 | 9.9 | 25 |
| 1000 | 166 | AT7 2100-60 | 155 | 123 | 98 | 62 | 1.33 | 3.80 | 0.32 | 0.91 | 10.9 | 25 |
| 1100 | 166 | AT7 2110-60 | 172 | 136 | 109 | 69 | 1.32 | 4.20 | 0.35 | 1.01 | 12.0 | 25 |
| 1200 | 166 | AT7 2120-60 | 187 | 148 | 118 | 75 | 1.32 | 4.50 | 0.38 | 1.10 | 13.0 | 25 |
| 1250 | 166 | AT7 2125-60 | 194 | 154 | 123 | 78 | 1.32 | 4.70 | 0.39 | 1.15 | 13.4 | 25 |
| 1500 | 166 | AT7 2150-60 | 231 | 183 | 146 | 92 | 1.32 | 5.60 | 0.47 | 1.38 | 15.9 | 25 |
| 1600 | 166 | AT7 2160-60 | 245 | 194 | 155 | 98 | 1.32 | 6.00 | 0.50 | 1.47 | 16.9 | 25 |
| 1750 | 166 | AT7 2175-60 | 266 | 211 | 169 | 107 | 1.31 | 6.50 | 0.54 | 1.62 | 18.2 | 25 |
| 1800 | 166 | AT7 2180-60 | 272 | 218 | 176 | 114 | 1.26 | 6.40 | 0.56 | 1.72 | 18.7 | 25 |
| 1900 | 166 | AT7 2190-60 | 288 | 228 | 183 | 116 | 1.31 | 7.10 | 0.59 | 1.76 | 19.7 | 25 |
| 2000 | 166 | AT7 2200-60 | 301 | 240 | 192 | 122 | 1.30 | 7.40 | 0.62 | 1.86 | 20.7 | 25 |
| 2100 | 166 | AT7 2210-60 | 316 | 251 | 201 | 128 | 1.30 | 7.80 | 0.65 | 1.95 | 21.7 | 25 |
| 2200 | 166 | AT7 2220-60 | 329 | 262 | 211 | 135 | 1.29 | 8.20 | 0.68 | 2.05 | 22.7 | 25 |
| 2500 | 166 | AT7 2250-60 | 371 | 295 | 237 | 152 | 1.29 | 9.20 | 0.77 | 2.34 | 25.6 | 25 |
| 3000 | 166 | AT7 2300-60 | 439 | 350 | 281 | 180 | 1.29 | 11.00 | 0.92 | 2.82 | 30.6 | 25 |

Technical data per element

For individual calculations of heat outputs, see "General information"



Technical data per element

Spacing 65 mm, 1-row

| Height H [mm] | Depth T [mm] | Version | Heat output to EN 442 | | | | Exponent n [] | Mass per element M [kg/el.] | Surface per element A [m ² /el.] | Water content per element W [l/el.] | Standard water flow q _{ms} [kg/h el.] | Radiated portions [%] |
|---------------|--------------|-------------|---------------------------------|--|---------------------------------|---------------------------------|----------------|-----------------------------|---|-------------------------------------|--|-----------------------|
| | | | Φ ΔT 60K 90/70/20°C [watts/el.] | Φ _L ΔT 50K 75/65/20°C [watts/el.] | Φ ΔT 42K 70/55/20°C [watts/el.] | Φ ΔT 30K 55/45/20°C [watts/el.] | | | | | | |
| 300 | 99 | AT7 1030-65 | 34 | 27 | 22 | 15 | 1.20 | 0.70 | 0.06 | 0.22 | 2.4 | 30 |
| 350 | 99 | AT7 1035-65 | 38 | 31 | 25 | 17 | 1.20 | 0.80 | 0.07 | 0.24 | 2.7 | 30 |
| 400 | 99 | AT7 1040-65 | 45 | 36 | 29 | 19 | 1.25 | 0.90 | 0.07 | 0.25 | 3.0 | 30 |
| 450 | 99 | AT7 1045-65 | 49 | 39 | 32 | 21 | 1.25 | 1.00 | 0.08 | 0.27 | 3.2 | 30 |
| 500 | 99 | AT7 1050-65 | 53 | 43 | 34 | 22 | 1.26 | 1.10 | 0.09 | 0.29 | 3.5 | 30 |
| 550 | 99 | AT7 1055-65 | 57 | 46 | 37 | 24 | 1.26 | 1.20 | 0.10 | 0.31 | 3.8 | 30 |
| 600 | 99 | AT7 1060-65 | 61 | 49 | 40 | 26 | 1.26 | 1.30 | 0.10 | 0.33 | 4.1 | 30 |
| 650 | 99 | AT7 1065-65 | 65 | 52 | 42 | 27 | 1.26 | 1.40 | 0.11 | 0.35 | 4.4 | 30 |
| 700 | 99 | AT7 1070-65 | 70 | 56 | 45 | 29 | 1.27 | 1.50 | 0.12 | 0.38 | 4.7 | 30 |
| 750 | 99 | AT7 1075-65 | 74 | 59 | 47 | 31 | 1.27 | 1.60 | 0.13 | 0.40 | 5.0 | 30 |
| 800 | 99 | AT7 1080-65 | 78 | 62 | 50 | 32 | 1.27 | 1.70 | 0.13 | 0.42 | 5.2 | 30 |
| 900 | 99 | AT7 1090-65 | 86 | 69 | 55 | 35 | 1.28 | 1.80 | 0.15 | 0.46 | 5.8 | 30 |
| 1000 | 99 | AT7 1100-65 | 94 | 75 | 60 | 39 | 1.28 | 2.00 | 0.17 | 0.51 | 6.4 | 30 |
| 1100 | 99 | AT7 1110-65 | 103 | 82 | 66 | 42 | 1.29 | 2.20 | 0.18 | 0.55 | 7.0 | 30 |
| 1200 | 99 | AT7 1120-65 | 112 | 89 | 72 | 46 | 1.29 | 2.40 | 0.18 | 0.59 | 7.5 | 30 |
| 1250 | 99 | AT7 1125-65 | 117 | 93 | 74 | 47 | 1.30 | 2.50 | 0.20 | 0.61 | 7.8 | 30 |
| 1500 | 99 | AT7 1150-65 | 140 | 111 | 89 | 56 | 1.31 | 2.90 | 0.24 | 0.71 | 9.3 | 30 |
| 1600 | 99 | AT7 1160-65 | 149 | 118 | 95 | 60 | 1.32 | 3.10 | 0.26 | 0.75 | 9.9 | 30 |
| 1750 | 99 | AT7 1175-65 | 163 | 129 | 104 | 66 | 1.31 | 3.40 | 0.28 | 0.83 | 10.7 | 30 |
| 1800 | 99 | AT7 1180-65 | 159 | 128 | 104 | 67 | 1.24 | 3.30 | 0.29 | 0.91 | 11.0 | 30 |
| 1900 | 99 | AT7 1190-65 | 177 | 141 | 113 | 72 | 1.30 | 3.70 | 0.30 | 0.91 | 11.7 | 30 |
| 2000 | 99 | AT7 1200-65 | 186 | 148 | 119 | 76 | 1.30 | 3.80 | 0.32 | 0.96 | 12.3 | 30 |
| 2100 | 99 | AT7 1210-65 | 195 | 155 | 125 | 80 | 1.29 | 4.00 | 0.33 | 1.02 | 12.9 | 30 |
| 2200 | 99 | AT7 1220-65 | 204 | 163 | 131 | 84 | 1.29 | 4.20 | 0.35 | 1.07 | 13.5 | 30 |
| 2500 | 99 | AT7 1250-65 | 233 | 186 | 149 | 95 | 1.29 | 4.80 | 0.39 | 1.24 | 15.3 | 30 |
| 3000 | 99 | AT7 1300-65 | 281 | 224 | 180 | 115 | 1.29 | 5.70 | 0.47 | 1.51 | 18.3 | 30 |

For individual calculations of heat outputs, see "General information"

Technical data per element



Technical data per element

Spacing 65 mm, 2-row

| Height H [mm] | Depth T [mm] | Version | Heat output to EN 442 | | | | Exponent n [] | Mass per element M [kg/el.] | Surface per element A [m ² /el.] | Water content per element W [l/el.] | Standard water flow q _{ms} [kg/h el.] | Radiated portions [%] |
|---------------|--------------|-------------|---------------------------------|--|---------------------------------|---------------------------------|----------------|-----------------------------|---|-------------------------------------|--|-----------------------|
| | | | Φ ΔT 60K 90/70/20°C [watts/el.] | Φ_L ΔT 50K 75/65/20°C [watts/el.] | Φ ΔT 42K 70/55/20°C [watts/el.] | Φ ΔT 30K 55/45/20°C [watts/el.] | | | | | | |
| 300 | 166 | AT7 2030-65 | 55 | 44 | 36 | 24 | 1.22 | 1.30 | 0.11 | 0.35 | 3.8 | 25 |
| 350 | 166 | AT7 2035-65 | 63 | 51 | 41 | 27 | 1.22 | 1.40 | 0.12 | 0.40 | 4.4 | 25 |
| 400 | 166 | AT7 2040-65 | 75 | 60 | 49 | 31 | 1.26 | 1.70 | 0.14 | 0.41 | 4.8 | 25 |
| 450 | 166 | AT7 2045-65 | 82 | 66 | 53 | 34 | 1.26 | 1.80 | 0.15 | 0.45 | 5.3 | 25 |
| 500 | 166 | AT7 2050-65 | 89 | 71 | 57 | 37 | 1.27 | 2.00 | 0.17 | 0.49 | 5.8 | 25 |
| 550 | 166 | AT7 2055-65 | 95 | 76 | 61 | 40 | 1.27 | 2.20 | 0.18 | 0.54 | 6.4 | 25 |
| 600 | 166 | AT7 2060-65 | 102 | 81 | 66 | 42 | 1.28 | 2.40 | 0.20 | 0.58 | 6.9 | 25 |
| 650 | 166 | AT7 2065-65 | 109 | 87 | 70 | 45 | 1.28 | 2.60 | 0.21 | 0.63 | 7.4 | 25 |
| 700 | 166 | AT7 2070-65 | 116 | 92 | 74 | 47 | 1.29 | 2.70 | 0.23 | 0.67 | 8.0 | 25 |
| 750 | 166 | AT7 2075-65 | 122 | 97 | 78 | 50 | 1.29 | 2.90 | 0.24 | 0.72 | 8.5 | 25 |
| 800 | 166 | AT7 2080-65 | 129 | 103 | 83 | 53 | 1.30 | 3.10 | 0.26 | 0.76 | 9.1 | 25 |
| 900 | 166 | AT7 2090-65 | 144 | 114 | 91 | 58 | 1.31 | 3.50 | 0.29 | 0.85 | 10.1 | 25 |
| 1000 | 166 | AT7 2100-65 | 158 | 125 | 100 | 63 | 1.32 | 3.80 | 0.32 | 0.94 | 11.2 | 25 |
| 1100 | 166 | AT7 2110-65 | 175 | 139 | 111 | 70 | 1.32 | 4.20 | 0.35 | 1.03 | 12.3 | 25 |
| 1200 | 166 | AT7 2120-65 | 191 | 152 | 121 | 77 | 1.32 | 4.60 | 0.38 | 1.11 | 13.3 | 25 |
| 1250 | 166 | AT7 2125-65 | 199 | 158 | 126 | 80 | 1.32 | 4.70 | 0.39 | 1.16 | 13.7 | 25 |
| 1500 | 166 | AT7 2150-65 | 236 | 187 | 150 | 95 | 1.31 | 5.70 | 0.47 | 1.37 | 16.2 | 25 |
| 1600 | 166 | AT7 2160-65 | 251 | 199 | 159 | 101 | 1.31 | 6.00 | 0.50 | 1.46 | 17.2 | 25 |
| 1750 | 166 | AT7 2175-65 | 273 | 217 | 174 | 110 | 1.31 | 6.60 | 0.54 | 1.60 | 18.5 | 25 |
| 1800 | 166 | AT7 2180-65 | 276 | 221 | 179 | 115 | 1.26 | 6.40 | 0.56 | 1.73 | 19.0 | 25 |
| 1900 | 166 | AT7 2190-65 | 295 | 234 | 188 | 119 | 1.31 | 7.10 | 0.59 | 1.74 | 20.0 | 25 |
| 2000 | 166 | AT7 2200-65 | 310 | 246 | 197 | 125 | 1.31 | 7.50 | 0.62 | 1.83 | 21.0 | 25 |
| 2100 | 166 | AT7 2210-65 | 324 | 257 | 206 | 131 | 1.31 | 7.80 | 0.65 | 1.92 | 22.0 | 25 |
| 2200 | 166 | AT7 2220-65 | 338 | 269 | 216 | 137 | 1.30 | 8.20 | 0.68 | 2.01 | 22.9 | 25 |
| 2500 | 166 | AT7 2250-65 | 381 | 303 | 243 | 155 | 1.30 | 9.30 | 0.77 | 2.29 | 25.9 | 25 |
| 3000 | 166 | AT7 2300-65 | 451 | 359 | 288 | 183 | 1.30 | 11.10 | 0.92 | 2.74 | 30.9 | 25 |

Technical data per element

For individual calculations of heat outputs, see "General information"



Technical data per element

Spacing 70 mm, 1-row

| Height H [mm] | Depth T [mm] | Version | Heat output to EN 442 | | | | Exponent n [] | Mass per element M [kg/el.] | Surface per element A [m ² /el.] | Water content per element W [l/el.] | Standard water flow q _{ms} [kg/h el.] | Radiated portions [%] |
|---------------|--------------|-------------|---------------------------------|--|---------------------------------|---------------------------------|----------------|-----------------------------|---|-------------------------------------|--|-----------------------|
| | | | Φ ΔT 60K 90/70/20°C [watts/el.] | Φ _L ΔT 50K 75/65/20°C [watts/el.] | Φ ΔT 42K 70/55/20°C [watts/el.] | Φ ΔT 30K 55/45/20°C [watts/el.] | | | | | | |
| 300 | 99 | AT7 1030-70 | 35 | 28 | 23 | 15 | 1.21 | 0.80 | 0.06 | 0.22 | 2.4 | 30 |
| 350 | 99 | AT7 1035-70 | 39 | 32 | 26 | 17 | 1.21 | 0.90 | 0.07 | 0.25 | 2.7 | 30 |
| 400 | 99 | AT7 1040-70 | 46 | 37 | 30 | 19 | 1.25 | 0.90 | 0.08 | 0.25 | 3.0 | 30 |
| 450 | 99 | AT7 1045-70 | 50 | 40 | 33 | 21 | 1.25 | 1.00 | 0.08 | 0.27 | 3.3 | 30 |
| 500 | 99 | AT7 1050-70 | 54 | 44 | 35 | 23 | 1.26 | 1.10 | 0.09 | 0.29 | 3.6 | 30 |
| 550 | 99 | AT7 1055-70 | 59 | 47 | 38 | 25 | 1.26 | 1.20 | 0.10 | 0.32 | 3.9 | 30 |
| 600 | 99 | AT7 1060-70 | 63 | 50 | 41 | 26 | 1.26 | 1.30 | 0.11 | 0.34 | 4.2 | 30 |
| 650 | 99 | AT7 1065-70 | 67 | 54 | 43 | 28 | 1.26 | 1.40 | 0.11 | 0.36 | 4.5 | 30 |
| 700 | 99 | AT7 1070-70 | 71 | 57 | 46 | 30 | 1.27 | 1.50 | 0.12 | 0.38 | 4.8 | 30 |
| 750 | 99 | AT7 1075-70 | 75 | 60 | 49 | 31 | 1.27 | 1.60 | 0.13 | 0.41 | 5.0 | 30 |
| 800 | 99 | AT7 1080-70 | 80 | 64 | 51 | 33 | 1.27 | 1.70 | 0.14 | 0.43 | 5.4 | 30 |
| 900 | 99 | AT7 1090-70 | 88 | 70 | 56 | 36 | 1.28 | 1.90 | 0.15 | 0.48 | 5.9 | 30 |
| 1000 | 99 | AT7 1100-70 | 96 | 77 | 62 | 40 | 1.28 | 2.00 | 0.17 | 0.52 | 6.5 | 30 |
| 1100 | 99 | AT7 1110-70 | 105 | 84 | 67 | 43 | 1.28 | 2.20 | 0.18 | 0.56 | 7.1 | 30 |
| 1200 | 99 | AT7 1120-70 | 114 | 91 | 73 | 47 | 1.29 | 2.40 | 0.18 | 0.59 | 7.7 | 30 |
| 1250 | 99 | AT7 1125-70 | 119 | 95 | 76 | 49 | 1.29 | 2.50 | 0.20 | 0.61 | 8.0 | 30 |
| 1500 | 99 | AT7 1150-70 | 143 | 114 | 91 | 58 | 1.30 | 3.00 | 0.24 | 0.70 | 9.4 | 30 |
| 1600 | 99 | AT7 1160-70 | 153 | 121 | 97 | 62 | 1.31 | 3.10 | 0.26 | 0.73 | 10.1 | 30 |
| 1750 | 99 | AT7 1175-70 | 167 | 132 | 106 | 68 | 1.30 | 3.40 | 0.28 | 0.82 | 10.9 | 30 |
| 1800 | 99 | AT7 1180-70 | 162 | 130 | 106 | 69 | 1.23 | 3.40 | 0.29 | 0.91 | 11.2 | 30 |
| 1900 | 99 | AT7 1190-70 | 181 | 144 | 115 | 73 | 1.30 | 3.70 | 0.30 | 0.91 | 12.0 | 30 |
| 2000 | 99 | AT7 1200-70 | 190 | 151 | 121 | 77 | 1.30 | 3.90 | 0.32 | 0.96 | 12.6 | 30 |
| 2100 | 99 | AT7 1210-70 | 200 | 159 | 128 | 82 | 1.29 | 4.00 | 0.33 | 1.02 | 13.2 | 30 |
| 2200 | 99 | AT7 1220-70 | 209 | 167 | 134 | 86 | 1.29 | 4.20 | 0.35 | 1.08 | 13.9 | 30 |
| 2500 | 99 | AT7 1250-70 | 238 | 190 | 153 | 97 | 1.29 | 4.80 | 0.39 | 1.26 | 15.7 | 30 |
| 3000 | 99 | AT7 1300-70 | 288 | 229 | 184 | 118 | 1.29 | 5.70 | 0.47 | 1.55 | 18.9 | 30 |

For individual calculations of heat outputs, see "General information"

Technical data per element



Technical data per element

Spacing 70 mm, 2-row

| Height H [mm] | Depth T [mm] | Version | Heat output to EN 442 | | | | Exponent n [] | Mass per element M [kg/el.] | Surface per element A [m ² /el.] | Water content per element W [l/el.] | Standard water flow q _{ms} [kg/h el.] | Radiated portions [%] |
|---------------|--------------|-------------|---------------------------------|--|---------------------------------|---------------------------------|----------------|-----------------------------|---|-------------------------------------|--|-----------------------|
| | | | Φ ΔT 60K 90/70/20°C [watts/el.] | Φ _L ΔT 50K 75/65/20°C [watts/el.] | Φ ΔT 42K 70/55/20°C [watts/el.] | Φ ΔT 30K 55/45/20°C [watts/el.] | | | | | | |
| 300 | 166 | AT7 2030-70 | 56 | 45 | 37 | 24 | 1.23 | 1.30 | 0.11 | 0.36 | 3.9 | 25 |
| 350 | 166 | AT7 2035-70 | 64 | 52 | 42 | 27 | 1.23 | 1.50 | 0.12 | 0.41 | 4.4 | 25 |
| 400 | 166 | AT7 2040-70 | 77 | 62 | 50 | 32 | 1.25 | 1.70 | 0.14 | 0.40 | 4.9 | 25 |
| 450 | 166 | AT7 2045-70 | 84 | 67 | 54 | 35 | 1.25 | 1.90 | 0.15 | 0.45 | 5.4 | 25 |
| 500 | 166 | AT7 2050-70 | 90 | 72 | 58 | 38 | 1.26 | 2.00 | 0.17 | 0.50 | 6.0 | 25 |
| 550 | 166 | AT7 2055-70 | 97 | 78 | 63 | 40 | 1.27 | 2.20 | 0.18 | 0.54 | 6.5 | 25 |
| 600 | 166 | AT7 2060-70 | 104 | 83 | 67 | 43 | 1.27 | 2.40 | 0.20 | 0.59 | 7.0 | 25 |
| 650 | 166 | AT7 2065-70 | 110 | 88 | 71 | 45 | 1.28 | 2.60 | 0.21 | 0.64 | 7.6 | 25 |
| 700 | 166 | AT7 2070-70 | 118 | 94 | 76 | 48 | 1.28 | 2.80 | 0.23 | 0.69 | 8.2 | 25 |
| 750 | 166 | AT7 2075-70 | 125 | 99 | 80 | 51 | 1.29 | 2.90 | 0.24 | 0.73 | 8.7 | 25 |
| 800 | 166 | AT7 2080-70 | 132 | 105 | 84 | 54 | 1.30 | 3.10 | 0.26 | 0.78 | 9.3 | 25 |
| 900 | 166 | AT7 2090-70 | 147 | 116 | 93 | 59 | 1.31 | 3.50 | 0.29 | 0.88 | 10.4 | 25 |
| 1000 | 166 | AT7 2100-70 | 161 | 128 | 102 | 65 | 1.32 | 3.80 | 0.32 | 0.97 | 11.4 | 25 |
| 1100 | 166 | AT7 2110-70 | 180 | 143 | 114 | 72 | 1.32 | 4.20 | 0.35 | 1.05 | 12.6 | 25 |
| 1200 | 166 | AT7 2120-70 | 196 | 155 | 124 | 78 | 1.32 | 4.60 | 0.38 | 1.13 | 13.6 | 25 |
| 1250 | 166 | AT7 2125-70 | 204 | 161 | 129 | 82 | 1.32 | 4.80 | 0.39 | 1.17 | 14.0 | 25 |
| 1500 | 166 | AT7 2150-70 | 242 | 192 | 153 | 97 | 1.31 | 5.70 | 0.47 | 1.37 | 16.5 | 25 |
| 1600 | 166 | AT7 2160-70 | 257 | 204 | 163 | 104 | 1.31 | 6.00 | 0.50 | 1.45 | 17.5 | 25 |
| 1750 | 166 | AT7 2175-70 | 279 | 222 | 178 | 113 | 1.31 | 6.60 | 0.55 | 1.58 | 18.9 | 25 |
| 1800 | 166 | AT7 2180-70 | 280 | 225 | 182 | 118 | 1.25 | 6.40 | 0.56 | 1.74 | 19.3 | 25 |
| 1900 | 166 | AT7 2190-70 | 302 | 240 | 192 | 122 | 1.31 | 7.10 | 0.59 | 1.71 | 20.3 | 25 |
| 2000 | 166 | AT7 2200-70 | 317 | 252 | 201 | 128 | 1.31 | 7.50 | 0.62 | 1.80 | 21.3 | 25 |
| 2100 | 166 | AT7 2210-70 | 332 | 263 | 211 | 134 | 1.31 | 7.80 | 0.65 | 1.88 | 22.2 | 25 |
| 2200 | 166 | AT7 2220-70 | 347 | 275 | 220 | 139 | 1.32 | 8.20 | 0.68 | 1.97 | 23.1 | 25 |
| 2500 | 166 | AT7 2250-70 | 391 | 310 | 248 | 157 | 1.32 | 9.30 | 0.77 | 2.23 | 26.1 | 25 |
| 3000 | 166 | AT7 2300-70 | 463 | 367 | 293 | 186 | 1.32 | 11.10 | 0.92 | 2.66 | 31.2 | 25 |

Technical data per element

For individual calculations of heat outputs, see "General information"

2-pipe connections without built-in valve

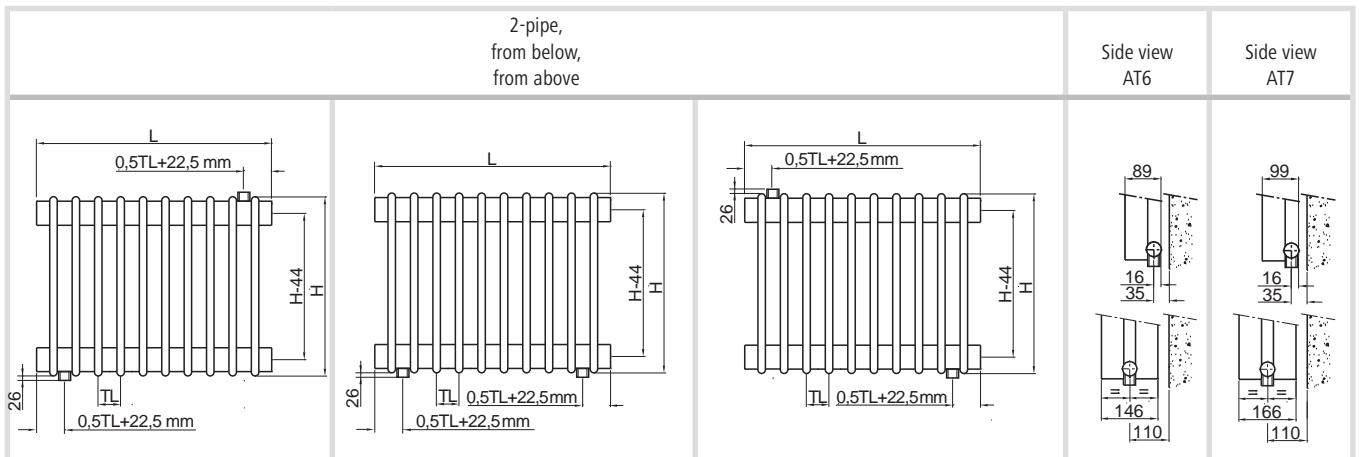
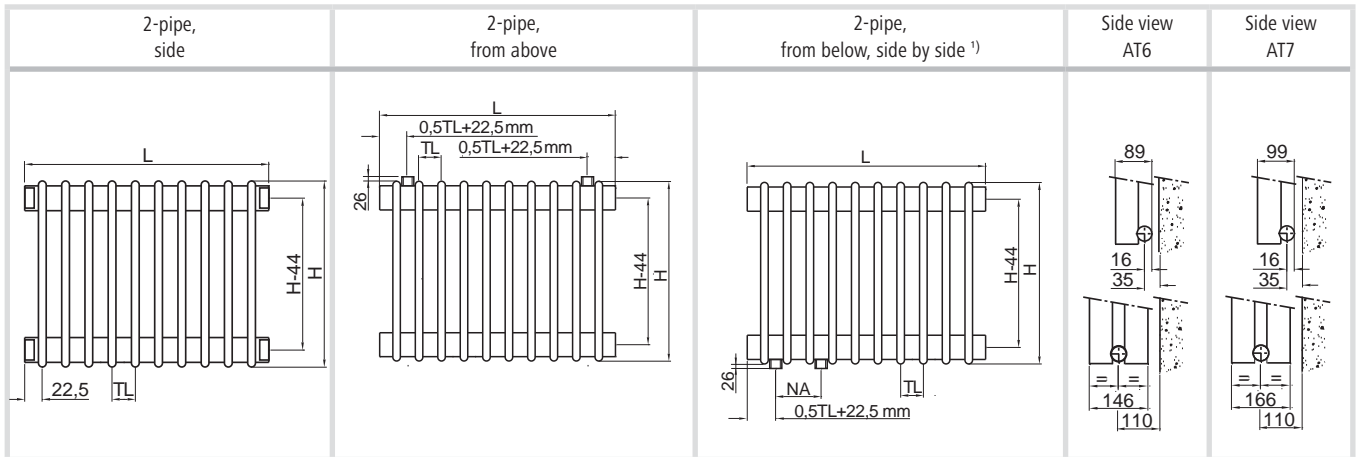
| Connection system | Ordering code 5 | ζ value | | Arrangement ordering code 6 | Connection size | Ordering code 7 | |
|---|------------------|---------|-------|------------------------------|---|------------------|----------------|
| | | 1-row | 2-row | | | Flow | Return |
| 2-pipe, side | 2 | 1.0 | 3.0 | | 3/8" thread 1/2" thread 3/4" thread | | |
| 2-pipe, side | 2 | 1.3 | 3.3 | | 3/8" thread 1/2" thread 3/4" thread | | |
| 2-pipe, side | 2 | 1.5 | 3.5 | | 3/8" thread 1/2" thread 3/4" thread | | |
| 2-pipe, from below, from above | 2 | 1.3 | 3.0 | | 3/8" thread 1/2" thread 3/4" thread | 38 12 34 | 38 12 34 |
| 2-pipe, from below | 2 | 1.3 | 3.0 | | 3/8" thread 1/2" thread 3/4" thread | | |
| 2-pipe, from below, side by side from above | 2 | 1.3 | 3.0 | | 3/8" thread 1/2" thread 3/4" thread | | |
| 2-pipe, from below, from above | 2 | 1.3 | 3.3 | | 3/8" thread 1/2" thread 3/4" thread | | |
| 2-pipe, from below, middle | 2 | 1.3 | 3.3 | | 3/8" thread 1/2" thread 3/4" thread | | |

Special connections – design according to drawing – ordering code |5| = 99

○ Standard baffle; ⊙ baffle with Ø 12 mm hole; ● 100% sealing baffle



Dimensional drawings



TL: spacing; H: height; L: length
 $L = ((\text{number of elements} - 1) \times TL) + 45 \text{ mm}$

¹⁾

| | | | | | | | | | |
|--------------|----|-----|-----|-----|-----|-----|-----|-----|-----|
| Spacing TL | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 |
| Hub distance | 90 | 105 | 120 | 135 | 100 | 110 | 120 | 130 | 140 |

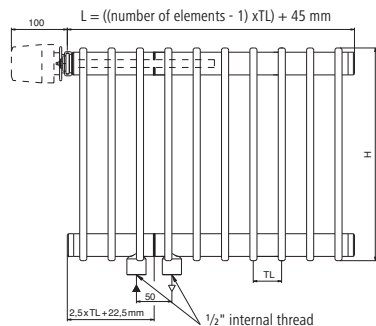
Connection images

2-pipe connections with built-in valve

General

The Arbotherm from Arbonia can also be equipped with a built-in valve with a factory-preset k_v . In addition to practical benefits during installation, this also provides aesthetic advantages, because the valve is built into the upper manifold pipe on the right or left. The connections to the heating system are provided in the downwards direction.

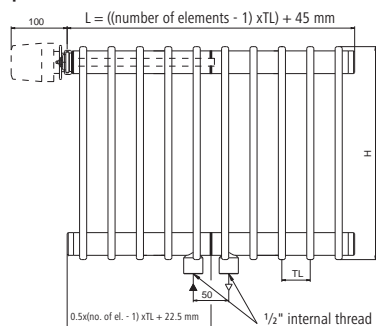
Built-in valve at top; connections at bottom, left (or right)



Range available

- Factory-preset k_v built-in valve, integrated at top in the manifold pipe:
 - Arranged on left or right
 - Thermostatic sensor head is not included in the scope of delivery and must be ordered as an accessory
- Connections:
 - 2 connecting sleeves with 1/2" internal threads completely welded downwards for connection to 2-pipe systems or 1-pipe systems (with the appropriate screw connection)
 - Connection thread for M30 x 1.5 thermostatic sensor head
 - Connections on bottom of heating pipes
- Spacing 40 mm and larger
- Built-in valve below is not possible

Built-in valve at top; connections below, centred



H: Height
L: Length
TL: Spacing

Connection options



| Connection system | Ordering code [5] | | Arrangement ordering code [6] | | Connection size | Ordering code [7] | |
|--|----------------------|---|----------------------------------|--|-----------------|----------------------|--------|
| | | | | | | Flow | Return |
| 2-pipe from bottom, built-in valve integrated side top | 31 | Standard valve with M30 x 1.5 connection | | | 1/2" thread | 12 | 12 |
| | 41 | Valve with fine adjustment and M30 x 1.5 connection | | | | | |
| | 31 | Standard valve with M30 x 1.5 connection | | | 1/2" thread | | |
| | 41 | Valve with fine adjustment and M30 x 1.5 connection | | | | | |

L: recommended position for air vent connection

1/2": internal thread



Air vent and drain

| Description | | Characteristic | Ordering code |
|---|--|---|--|
| Air vent | Version | | |
| | Air vent connection – standard version | 8 | 4 |
| | Built-in air vent with rotatable outlet | 8 | 1 |
| | No air vent, only if imperative | 8 | 3 |
| | Arrangement | | |
| | Position recommended by factory – standard version ¹⁾ | 9 | – |
| Position on request ²⁾ | 9 |  | |
| Connection size | | | |
| ³ / ₈ " internal thread | 10 | 38 | |
| ¹ / ₂ " internal thread | 10 | 12 | |
| Drain ³⁾ | Version | | |
| | No drain desired – standard version | 11 | 3 |
| | Drain connection | 11 | 4 |
| | Arrangement | | |
| | Position recommended by factory – standard version | 12 | – |
| | Position on request ²⁾ | 12 |  |
| Connection size | | | |
| ³ / ₈ " internal thread | 13 | 38 | |
| ¹ / ₂ " internal thread | 13 | 12 | |

Connection images

¹⁾ For position, see graphics for arrangement of the connections in the table "Connection options for flow/return"

²⁾ If, for technical reasons, the connection cannot be placed at the desired position, it will instead be placed in the position recommended by the factory

³⁾ Drain for centre connection ordering code l6l = 99 – only possible at position 4 with connection size ¹/₂".



Angled version



- Please provide a drawing with dimensions or template with your order
- Radiator must still be transportable

| Dimensional drawing | | Ordering code [20] |
|---------------------|--|-----------------------|
| | | 71 |

L1, L2: Length of the limbs, measured on the wall
W: Distance to wall
T: Depth
 α : Angle



Curved version



- Maximum height: 2000 mm
- Minimum length: 16 elements
- Minimum radius R_{min} :
 - 1-row version: 1800 mm
 - 2-row version: 2200 mm
- Radiator must still be transportable
- Please provide a drawing with dimensions or template with your order

| Dimensional drawings | | Ordering code [20] |
|----------------------|-----------------------|-----------------------|
| <p>Inside radius</p> | <p>Outside radius</p> | 70 |


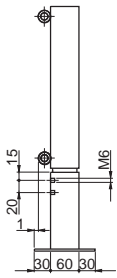
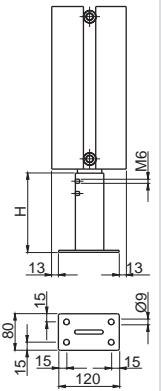
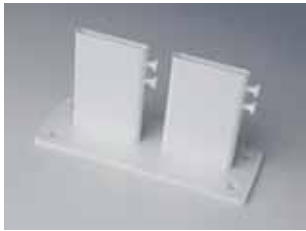
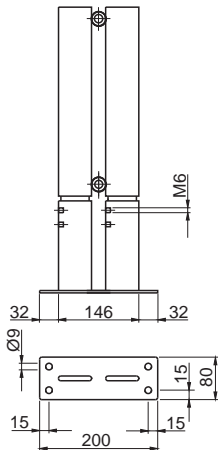
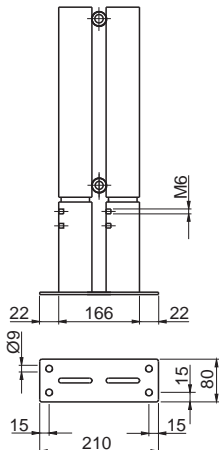
- L: Length
 W: Distance to wall
 D: Depth
 R: Bending radius (inside radius/outside radius)



Fixing with feet



- Standard height of foot: $h = 150 \text{ mm}$
- Radiator must still be transportable
- **Requirement classes 1 and 2:**
 - From a height of over 600 mm, a wall support is necessary in the upper section of the radiator (one bracket per foot)
 - Possible wall support variants are wall bracket ZB0049 or wall bracket ZB0282/ZB0287 in combination with suspension lugs
- **Requirement class 3** (e.g. schools):
 - A wall support must always be used (one bracket per foot)
 - Possible wall support variants are wall bracket ZB0049 or wall bracket ZB0282/ZB0287 in combination with suspension lugs
- The maximum extension range for adjustable brackets is 40% of H without loss of stability

| Description | Dimensional drawings | | Ordering code 16 |
|--|--|--|-------------------|
| Flat oval foot, single • Fixed (FF) or adjustable (FV) • 1-row  | Single-row AT6  | Double-row AT6  | FF FV |
| Flat oval foot, double • Fixed (FFD) or adjustable (FVD) • 2-row  | AT6  | AT7  | FFD FVD |



Arrangement and number of feet

Depending on the length

| Length [mm] | Number of feet | Drawings |
|-------------|----------------|----------|
| Up to 1500 | 2 | |
| Up to 3000 | 3 | |
| Up to 4500 | 4 | |
| Up to 5995 | 5 | |

Distribution of the inside feet: With even distribution over the theoretical dimension or to the left on the next element

Position of the feet

Depending on the connections

| Connection | Type of feet | Position of the feet | Characteristics |
|------------------------|--|----------------------|--|
| Side connections | Flat oval foot, single | | <ul style="list-style-type: none"> • Feet on third element |
| | Flat oval foot, double | | |
| Connections from below | Flat oval foot, single | | <ul style="list-style-type: none"> • Feet on third element with spacing 40 to 70 mm • Feet on fourth element with spacing 30 and 35 mm |
| | Flat oval foot, double | | |
| 1-pipe connection | Flat oval foot, single Flat oval foot, double | | <ul style="list-style-type: none"> • Feet on second element |

TL: Spacing



Bevelled version



- Please provide a drawing with dimensions or template with your order
- Radiator must still be transportable

| Dimensional drawing | Ordering code 20 |
|---------------------|--------------------------------------|
| | <p style="text-align: center;">-</p> |

- H1: Height of beginning of bevel
H2: Height of end of bevel
L: Length

Stair railing



- Please provide a drawing with dimensions or template with your order
- If necessary oversize from the factory for an extra charge
- Radiator must still be transportable



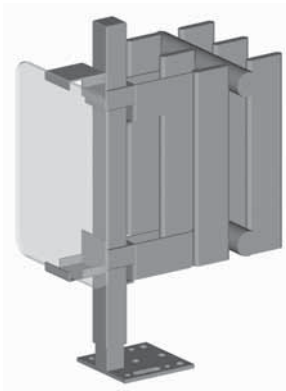
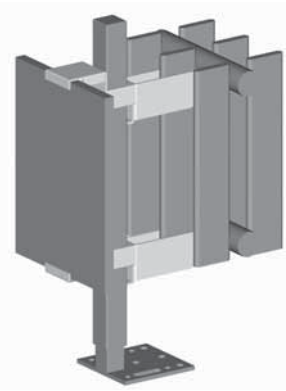
Coupled radiators

- Radiators are supplied individually
- Connections must be installed on site
- Recommended connection size between the radiators: 3/4" thread (or one size larger than flow/return)
- ζ value = 1.0 applies to inlet and outlet for connection sizes from 3/8" thread to 3/4" thread and up to a water velocity of 1 m/s
- ζ total value = ζ value x number of inlets and outlets

| Connection system | Description | Sequence of coupled radiators (enter in column "Special characteristics") | | | Ordering code 5 |
|---|---|--|----------------------|---------------------|---------------------|
| | | First radiator 1 | Middle radiator 2 | Final radiator 3 | |
| Connection on same side | <ul style="list-style-type: none"> • Max. 2 radiators • Maximum length: $L_{max} = 6$ m • Please provide a drawing with your order | | | | 75 |
| Connection on alternating sides, lateral | <ul style="list-style-type: none"> • Max. 5 radiators • Maximum length: $L_{max} = 18$ m • Please provide a drawing with your order | | | | 76 |
| Connection on alternating sides, from below | <ul style="list-style-type: none"> • Max. 5 radiators • Maximum length: $L_{max} = 18$ m • Please provide a drawing with your order | | | | 99 |






On request

| Description | | Characteristic | Ordering code |
|--|---|----------------|---------------|
| Pressure version | High-pressure version 10 bar (1000 kPa) | 14 | 10 |
| Special versions | Design according to drawing | 20 | 99 |
| | Special height | 20 | SBH |
| | Larger lengths | 20 | 99 |
| Stabilisers | 1-row, on request height up to 1750 mm | 19 | ST |
| | 2-row, on request up to height 1750 mm | 19 | ST |
| WVO radiation shields glass | <ul style="list-style-type: none"> • DELODUR K6 safety glass • Thickness 6 mm • Partially reflective on one side (emission number $\epsilon \leq 0.3$), turned towards radiator • Hemmed edges, rounded corners  | - | - |
| WVO radiation shields sheet metal | <ul style="list-style-type: none"> • Metal shielding based on the sandwich procedure with built-in polystyrene insulation which is laminated with an aluminium foil on one side • K-value $< 0.9 \text{ W/m}^2 \text{ K}$ • Finish painting is possible in AF, CF and SF  | - | - |

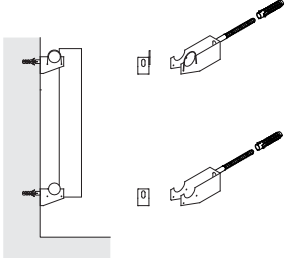
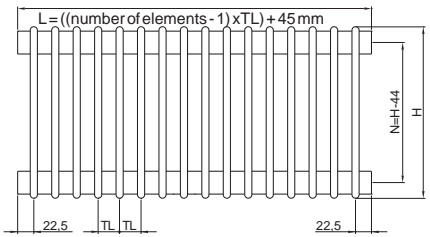
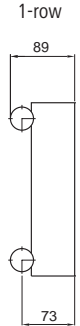
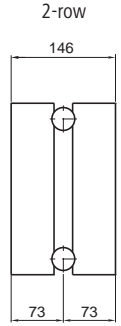


Possible combinations – fixings according to VDI 6036

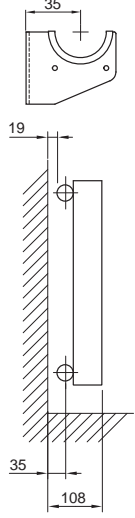
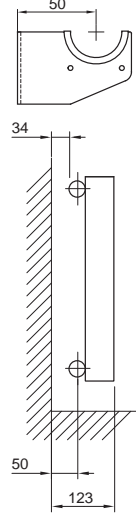
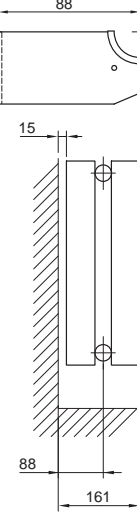
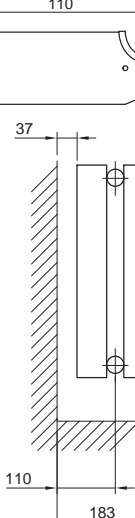
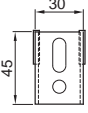
| | | | |
|--|--|--|--|
| <p>Suspension lugs Wall bracket short Wall bracket short</p> | <p>Wall bracket adjustable Wall bracket adjustable</p> | <p>Built-into-wall bracket in combination with dehinging safety device Built-into-wall bracket</p> | <p>Wall bracket for flat pipe radiator with dehinging safety device clip Wall bracket</p> |
|  <p>RC I/II</p> |  <p>RC I/II</p> |  <p>RC I/II</p> |  <p>RC I/II</p> |
| <p>Wall bracket short in combination with shift restraint Wall bracket short</p> | <p>Wall bracket adjustable in combination with shift restraint Wall bracket adjustable</p> | <p>Soil stand bracket in combination with carrier set</p> | |
|  <p>RC III</p> |  <p>RC III</p> |  <p>RC I/II RC III</p> | |



Fixing with wall bracket ZB0049 for Arbotherm

| | | |
|-------------------------|--|----------------------|
| Fixing type | Description and dimensional drawings | Ordering code 16 |
| Without suspension lugs | <ul style="list-style-type: none"> • Standard version • The number of fixing brackets must not be less than the minimum  <p>Top: Bracket for Arbotherm ZB0049 Safety clip ZB0050 Bottom: Bracket for Arbotherm ZB0049</p> <p>Front view</p>  <p>$L = ((\text{number of elements} - 1) \times TL) + 45 \text{ mm}$</p> <p>1-row</p>  <p>2-row</p>  | B1 |

Dimensional drawings

| Rows | 1-row | | 2-row | | |
|------------------|---|---|---|---|---|
| Distance to wall | 19 mm | 34 mm | 15 mm | 37 mm | |
| Product code | ZB0049 (L = 35 mm) | ZB0049 (L = 50 mm) | ZB0049 (L = 88 mm) | ZB0049 (L = 110 mm) | Rear view of bracket |
| |  |  |  |  |  |

Wall brackets

| Description Product code | Characteristic | Dimensions ordering code [4] | Surface/finish ordering code [17] | Product version ordering code [3] | |
|---|---|---|--------------------------------------|--------------------------------------|-----------------------------|
| Bracket ZB0049 | <ul style="list-style-type: none"> For Arbotherm 1-row Use only in combination with set of screws and dowels ZK0071 0001 Surface: <ul style="list-style-type: none"> Finished in [AF], [CF], [SF] Galvanised [ZN] | L = 35 mm | AF | ZB0049 0002 | |
| | | | CF | ZB0049 ¹⁾ | |
| | | | SF | ZB0049 ¹⁾ | |
| | | | ZN | ZB0049 0001 | |
| | | L = 50 mm | AF | ZB0049 0004 | |
| | | | CF | ZB0049 ¹⁾ | |
| | | | SF | ZB0049 ¹⁾ | |
| | | | ZN | ZB0049 0003 | |
| | | <ul style="list-style-type: none"> For Arbotherm 2-row Use only in combination with set of screws and dowels ZK0071 0001 Surface: <ul style="list-style-type: none"> Finished in [AF], [CF], [SF] Galvanised [ZN] | L = 88 mm | AF | ZB0049 0006 |
| | | | | CF | ZB0049 ¹⁾ |
| | | | | SF | ZB0049 ¹⁾ |
| | | | | ZN | ZB0049 0005 |
| L = 110 mm | AF | | ZB0049 0008 | | |
| | CF | | ZB0049 ¹⁾ | | |
| | SF | | ZB0049 ¹⁾ | | |
| | ZN | | ZB0049 0007 | | |
| Safety clip ZB0050 0001 | <ul style="list-style-type: none"> For bracket ZB0049 Material: <ul style="list-style-type: none"> Stainless spring steel | - | - | ZB0050 0001 | |
| Screw and dowel set ZK0071 0001 | <ul style="list-style-type: none"> Comprising: <ul style="list-style-type: none"> 12 screws (width across flats 13 mm, length 90 mm) 12 dowels (drill hole Ø10 mm, length 80 mm) 12 washers Surface: <ul style="list-style-type: none"> Galvanised [ZN] | - | - | ZK0071 0001 | |

Minimum number of brackets

depending on the version and its length in elements according to VDI 6036 – requirement classes 1 and 2.

| Version | Height (mm) | Length [el.] | | | | | | | | | |
|---------|-------------|--------------------------|------------------|--------------------------|------------------|--------------------------|------------------|---------------------------|------------------|---------------------------|------------------|
| | | Fixing brackets [4 pcs.] | Suitable bracket | Fixing brackets [6 pcs.] | Suitable bracket | Fixing brackets [8 pcs.] | Suitable bracket | Fixing brackets [10 pcs.] | Suitable bracket | Fixing brackets [12 pcs.] | Suitable bracket |
| 1-row | 300–1000 | 6–32 | 4x ZB0049 | 33–62 | 6x ZB0049 | 63–68 | 8x ZB0049 | - | 10x ZB0049 | - | 12x ZB0049 |
| | >1000–2000 | 6–22 | | 23–42 | | 43–54 | | 55–68 | | - | |
| | >2000–3000 | 6–22 | | 23–32 | | 33–42 | | 43–54 | | 55–62 | |
| 2-row | 300–1000 | 6–30 | 4x ZB0049 | 31–48 | 6x ZB0049 | 49–68 | 8x ZB0049 | - | 10x ZB0049 | - | 12x ZB0049 |
| | >1000–2000 | 6–14 | | 15–30 | | 31–38 | | 39–48 | | 49–58 | |
| | >2000–3000 | 6–14 | | 15–22 | | 23–30 | | 31–38 | | - | |

Stated number of fixing points tested on a wall of T14 vertical coring lightweight brick with 15 mm thick plaster and appropriate to recommended connection situations according to VDI 6036 attachment D. For definition of VDI 6036 attachment D, see "General information – VDI 6036".

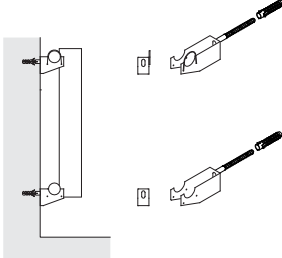
Wall-building material must be tested on site for sufficient loading capacity.

If no information has been given with the order regarding the requirement class or case/place of application, the brackets are always delivered according to requirement classes 1 and 2.

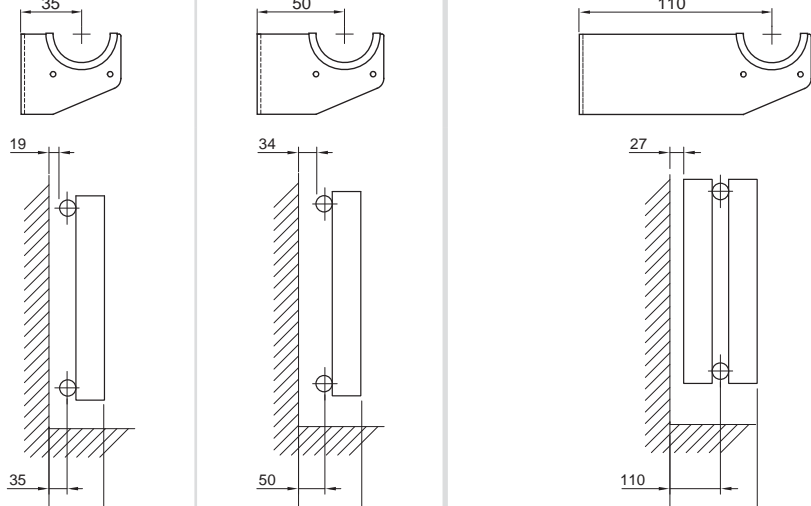
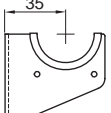

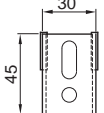
¹⁾ Dimensions characteristic [4], Surface/finish characteristic [17], Surface/colour characteristic [18/0] and Surface/colour code characteristic [18] must be specified with the order (for description, see section "General information" and colour chart)
When delivery unit is not specified, then delivery unit will be 1 pc.



Fixing with wall bracket ZB0049 for Arbotherm




| | | |
|--------------------------------|---|-------------------------------|
| <p>Fixing type</p> | <p>Description and dimensional drawings</p> | <p>Ordering code 16 </p> |
| <p>Without suspension lugs</p> | <ul style="list-style-type: none"> • Standard version • The number of fixing brackets must not be less than the minimum  <p>Top: Bracket for Arbotherm ZB0049 Safety clip ZB0050</p> <p>Bottom: Bracket for Arbotherm ZB0049</p> <p>Front view</p> <div style="display: flex; justify-content: space-around;"> <div> <p>Top view of a row of brackets with dimensions: $L = ((\text{number of elements} - 1) \times TL) + 45 \text{ mm}$, $N=H-44$, H, and 22.5 mm offsets.</p> </div> <div> <p>1-row side view with dimensions 99 mm and 83 mm.</p> </div> <div> <p>2-row side view with dimensions 166 mm, 83 mm, and 83 mm.</p> </div> </div> | <p>B1</p> |

Dimensional drawings

| Rows | 1-row | | 2-row | | |
|--|---|-----------------------|--|--|---|
| Distance to wall | 19 mm | 34 mm | 27 mm | | |
| Product code | ZB0049 (L = 35 mm) | ZB0049 (L = 50 mm) | ZB0049 (L = 110 mm) | | Rear view of bracket |
|  |  | |  | |  |

Fixing

Wall brackets

| Description Product code | | Characteristic | Dimensions ordering code [4] | Surface/finish ordering code [17] | Product version ordering code [3] |
|---|--|---|---------------------------------|--------------------------------------|--------------------------------------|
| Bracket ZB0049 |  | <ul style="list-style-type: none"> For Arbotherm 1-row Use only in combination with set of screws and dowels ZK0071 0001 Surface: <ul style="list-style-type: none"> Finished in [AF], [CF], [SF] Galvanised [ZN] | L = 35 mm | AF | ZB0049 0002 |
| | | | | CF | ZB0049 ¹⁾ |
| | | | | SF | ZB0049 ¹⁾ |
| | | | | ZN | ZB0049 0001 |
| | | | L = 50 mm | AF | ZB0049 0004 |
| | | | | CF | ZB0049 ¹⁾ |
| | | | | SF | ZB0049 ¹⁾ |
| | | | | ZN | ZB0049 0003 |
| | | | L = 110 mm | AF | ZB0049 0008 |
| | | | | CF | ZB0049 ¹⁾ |
| | | | | SF | ZB0049 ¹⁾ |
| | | | | ZN | ZB0049 0007 |
| Safety clip ZB0050 0001 |  | <ul style="list-style-type: none"> For bracket ZB0049 Material: <ul style="list-style-type: none"> Stainless spring steel | - | - | ZB0050 0001 |
| Screw and dowel set ZK0071 0001 |  | <ul style="list-style-type: none"> Comprising: <ul style="list-style-type: none"> 12 screws (width across flats 13 mm, length 90 mm) 12 dowels (drill hole Ø10 mm, length 80 mm) 12 washers Surface: <ul style="list-style-type: none"> Galvanised [ZN] | - | - | ZK0071 0001 |

Minimum number of brackets

depending on the version and its length in elements according to VDI 6036 – requirement classes 1 and 2.

| Version | Height (mm) | Length [el.] | | | | | | | | | |
|---------|-------------|--------------------------|------------------|--------------------------|------------------|--------------------------|------------------|---------------------------|------------------|---------------------------|------------------|
| | | Fixing brackets [4 pcs.] | Suitable bracket | Fixing brackets [6 pcs.] | Suitable bracket | Fixing brackets [8 pcs.] | Suitable bracket | Fixing brackets [10 pcs.] | Suitable bracket | Fixing brackets [12 pcs.] | Suitable bracket |
| 1-row | 300–1000 | 6–32 | 4x ZB0049 | 33–62 | 6x ZB0049 | 63–68 | 8x ZB0049 | - | 10x ZB0049 | - | 12x ZB0049 |
| | >1000–2000 | 6–22 | | 23–42 | | 43–54 | | 55–68 | | - | |
| | >2000–3000 | 6–22 | | 23–32 | | 33–42 | | 43–54 | | 55–62 | |
| 2-row | 300–1000 | 6–30 | 4x ZB0049 | 31–48 | 6x ZB0049 | 49–68 | 8x ZB0049 | - | 10x ZB0049 | - | 12x ZB0049 |
| | >1000–2000 | 6–14 | | 15–30 | | 31–38 | | 39–48 | | 49–58 | |
| | >2000–3000 | 6–14 | | 15–22 | | 23–30 | | 31–38 | | - | |

Stated number of fixing points tested on a wall of T14 vertical coring lightweight brick with 15 mm thick plaster and appropriate to recommended connection situations according to VDI 6036 attachment D. For definition of VDI 6036 attachment D, see "General information – VDI 6036".

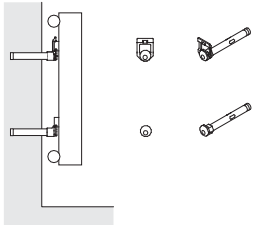
Wall-building material must be tested on site for sufficient loading capacity.

If no information has been given with the order regarding the requirement class or case/place of application, the brackets are always delivered according to requirement classes 1 and 2.

¹⁾ Dimensions characteristic [4], Surface/finish characteristic [17], Surface/colour characteristic [18/0] and Surface/colour code characteristic [18] must be specified with the order (for description, see section "General information" and colour chart)
When delivery unit is not specified, then delivery unit will be 1 pc.



Fixing with built-into-wall bracket

| Fixing type | Description and dimensional drawings | Ordering code 16 |
|-------------------------|---|----------------------|
| Without suspension lugs | <ul style="list-style-type: none"> The number of fixing brackets must not be less than the minimum Combination built-into-wall bracket top/built-into-wall bracket bottom – installation of the bottom built-into-wall bracket without the supplied dehisng safety device  <p>Top: Built-into-wall bracket ZB0278 0005–ZB0278 0008</p> <p>Safety clip ZB0279 0002</p> <p>Bottom: Built-into-wall bracket ZB0278 0005–ZB0278 0008</p> | B2 |

Usability of ZB0278 – requirement classes 1 and 2

| Version | AT6 | | | | | | | | | | | | | | | | AT7 | | | | | | | | | | | | | | | | | | | |
|---------|-------|----|----|----|----|----|----|----|-------|----|----|----|----|----|----|----|-------|----|----|----|----|----|----|----|-------|----|----|----|----|----|----|----|----|----|----|----|
| | 1-row | | | | | | | | 2-row | | | | | | | | 1-row | | | | | | | | 2-row | | | | | | | | | | | |
| Spacing | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 |
| ZB0278 | • | • | • | • | • | • | • | • | • | – | – | – | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | – | – | – | • | • | • | • | • | • |

Minimum number of brackets

depending on the version, its length in elements and its spacing according to VDI 6036 – requirement classes 1 and 2.

| Version | Spacing TL [mm] | Suspension lugs = number of brackets | |
|--------------------|--------------------|--------------------------------------|-------|
| | | 4/6 | 6/8 |
| Number of elements | | | |
| AT6, AT7 | 30 | 5–56 | 57–68 |
| AT6, AT7 | 35–40 | 5–56 | 57–68 |
| AT6, AT7 | 45–50 | 5–34 | 35–68 |
| AT6, AT7 | 55–60 | 5–34 | 35–68 |
| AT6, AT7 | 65–70 | 5–34 | 35–68 |



Stated number of fixing points tested on a wall of T14 vertical coring lightweight brick with 15 mm thick plaster and appropriate to recommended connection situations according to VDI 6036 attachment D. For definition of VDI 6036 attachment D, see "General information – VDI 6036".

Wall-building material must be tested on site for sufficient loading capacity.

If no information has been given with the order regarding the requirement class or case/place of application, the brackets are always delivered according to requirement classes 1 and 2.



Built-into-wall brackets

| Description Product code | | Characteristic | Dimensions ordering code 4 | Surface/finish ordering code 17 | Product version ordering code 3 |
|--|---|--|--------------------------------|-------------------------------------|-------------------------------------|
| Built-into-wall bracket ZB0278 0005– ZB0278 0008 |  | <ul style="list-style-type: none"> • Expansion plug with double wedge, parallel spread, Ø 18 mm • Adjustable height. Height adjustment range = 9 mm | L = 95 mm | ZN | ZB0278 0005 |
| | | | L = 130 mm | ZN | ZB0278 0006 |
| | | | L = 160 mm | ZN | ZB0278 0007 |
| | | | L = 200 mm | ZN | ZB0278 0008 |
| Safety clip ZB0279 0002 |  | <ul style="list-style-type: none"> • For built-into-wall bracket Ø 18mm ZB0278 • Material: <ul style="list-style-type: none"> – Plastic: white | | | ZB0279 0002 |

¹⁾ Dimensions characteristic |4|, Surface/finish characteristic |17|, Surface/colour characteristic |18/0| and Surface/colour code characteristic |18| must be specified with the order (for description, see section "General information" and colour chart)
When delivery unit is not specified, then delivery unit will be 1 pc.



Fixing with wall bracket

| Fixing type | Description and dimensional drawings | Ordering code 16 |
|-------------------------|---|----------------------|
| Without suspension lugs | <ul style="list-style-type: none"> The number of fixing brackets must not be less than the minimum Combination of wall bracket top/wall bracket bottom – installation of the lower wall bracket without the supplied dehisging safety device <p>Top: Wall bracket short ZB0282 Wall bracket short ZB0282 Wall bracket adjustable ZB0287 Wall bracket adjustable ZB0287</p> <p>Bottom: Wall bracket short ZB0282 Wall bracket short ZB0282 Wall bracket adjustable ZB0287 Wall bracket adjustable ZB0287</p> | B2 |

Usability of ZB0282 and ZB0287 – requirement classes 1 and 2

| Version | AT6 | | | | | | | | | | | | | | AT7 | | | | | | | | | | | | | | | | | | | | | |
|---------|-------|----|----|----|----|----|----|-------|----|----|----|----|----|----|-------|----|----|----|----|----|----|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | 1-row | | | | | | | 2-row | | | | | | | 1-row | | | | | | | 2-row | | | | | | | | | | | | | | |
| Spacing | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 |
| ZB0282 | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| ZB0287 | • | • | • | • | • | • | • | • | • | – | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | – | • | • | • | • | • | • | • | • |

Minimum number of brackets

depending on the version, its length in elements and its spacing according to VDI 6036 – requirement classes 1 and 2.

| Version | Spacing TL [mm] | Suspension lugs = number of brackets | |
|----------|--------------------|--------------------------------------|-------|
| | | 4/6 | 6/8 |
| | | Number of elements | |
| AT6, AT7 | 30 | 5–56 | 57–68 |
| AT6, AT7 | 35–40 | 5–56 | 57–68 |
| AT6, AT7 | 45–50 | 5–34 | 35–68 |
| AT6, AT7 | 55–60 | 5–34 | 35–68 |
| AT6, AT7 | 65–70 | 5–34 | 35–68 |

Stated number of fixing points tested on a wall of T14 vertical coring lightweight brick with 15 mm thick plaster and appropriate to recommended connection situations according to VDI 6036 attachment D. For definition of VDI 6036 attachment D, see "General information – VDI 6036".



For adjustable wall bracket (ZB0287) with distance to wall of 60–100 mm, please request separate allocation.

Wall-building material must be tested on site for sufficient loading capacity.

If no information has been given with the order regarding the requirement class or case/place of application, the brackets are always delivered according to requirement classes 1 and 2.



Wall brackets

| Description Product code | | Characteristic | Dimensions ordering code 4 | Surface/finish ordering code 17 | Product Version Ordering code 3 |
|--|---|---|---------------------------------|-------------------------------------|--|
| Wall bracket short ZB0282 |  | <ul style="list-style-type: none"> • Wall bracket for clamp holder or suspension lugs • Comprising: <ul style="list-style-type: none"> – 1 wall bracket – Dehinging safety device – Screws and dowels • Surface: <ul style="list-style-type: none"> – Finished in AF , CF , SF | Distance to wall = 23 mm | AF | ZB0282 0001 |
| | | | | CF | ZB0282 ¹⁾ |
| | | | | SF | ZB0282 ¹⁾ |
| | | | Distance to wall = 33 mm | AF | ZB0282 0002 |
| | | | | CF | ZB0282 ¹⁾ |
| | | | | SF | ZB0282 ¹⁾ |
| | | | Distance to wall = 43 mm | AF | ZB0282 0003 |
| | | | | CF | ZB0282 ¹⁾ |
| | | | | SF | ZB0282 ¹⁾ |
| | | | Distance to wall = 53 mm | AF | ZB0282 0004 |
| | | | | CF | ZB0282 ¹⁾ |
| | | | | SF | ZB0282 ¹⁾ |
| Wall bracket adjustable ZB0287 |  | <ul style="list-style-type: none"> • Wall bracket for clamp holder or suspension lugs • Comprising: <ul style="list-style-type: none"> – 1 wall bracket, adjustable – Dehinging safety device – Screws and dowels • Surface: <ul style="list-style-type: none"> – Finished in AF , CF , SF | Distance to wall = 35–45 mm | AF | ZB0287 0001 |
| | | | | CF | ZB0287 ¹⁾ |
| | | | | SF | ZB0287 ¹⁾ |
| | | | Distance to wall = 45–60 mm | AF | ZB0287 0002 |
| | | | | CF | ZB0287 ¹⁾ |
| | | | | SF | ZB0287 ¹⁾ |
| | | | Distance to wall = 60–100 mm | AF | ZB0287 0003 |
| | | | | CF | ZB0287 ¹⁾ |
| | | | | SF | ZB0287 ¹⁾ |

¹⁾ Dimensions characteristic |4|, Surface/finish characteristic |17|, Surface/colour characteristic |18/0| and Surface/colour code characteristic |18| must be specified with the order (for description, see section "General information" and colour chart)
When delivery unit is not specified, then delivery unit will be 1 pc.



Fixing with suspension lugs according to VDI 6036 – requirement classes 1 and 2.

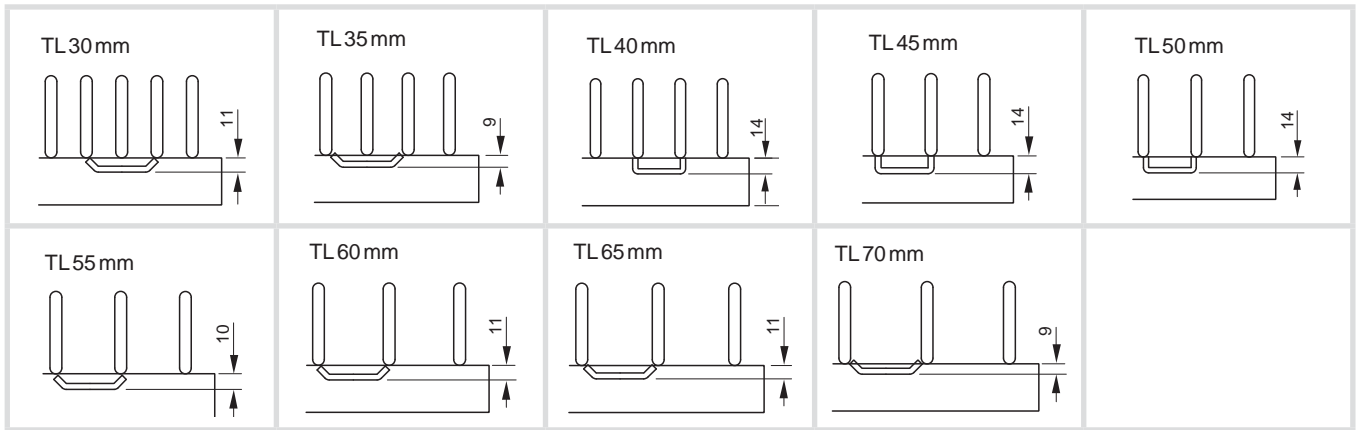
| Height H [mm] | Dimensional drawings | | Detail |
|---------------|----------------------|-------------|--------|
| | Up to 500 mm | Over 500 mm | |
| 300–2000 | | | |
| 2100–3000 | | | |

| Height H [mm] | 4/6 suspension lugs length (el.) | 6/8 suspension lugs length (el.) | |
|---------------|----------------------------------|----------------------------------|-------|
| | 300–2000 | | |
| 2100–3000 | | | |
| Spacing | 30 | 5–56 | 57–68 |
| | 35–40 | 5–56 | 57–68 |
| | 45–50 | 5–34 | 35–68 |
| | 55–60 | 5–34 | 35–68 |
| | 65–70 | 5–34 | 35–68 |

TL: Spacing

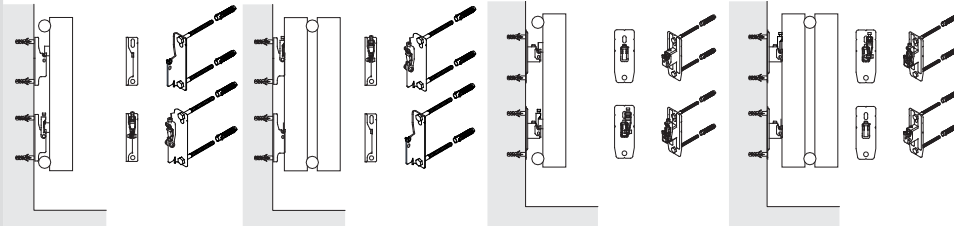


Fixing with suspension lugs according to VDI 6036 – requirement classes 1 and 2.





Fixing with wall bracket

| Fixing type | Description and dimensional drawings | Ordering code 16 |
|-------------------------|---|----------------------|
| Without suspension lugs | <ul style="list-style-type: none"> The number of fixing brackets must not be less than the minimum With the 1-row version, it is possible to mount the ZK0020 0002 dehinging safety device and shift restraint in the lower section Combination of wall bracket top/wall bracket bottom <ul style="list-style-type: none"> Installation of the lower wall bracket without the supplied dehinging safety device Where the height is > 1.5 x length, the radiator must be secured against shifting using the ZK0082 0001 shift restraint. This should be installed in the upper section for the 1-row version and in the lower section for the 2-row version.  | B2 |

Usability of brackets – requirement class 3 (e.g. schools).

| Version | AT6 | | | | | | | | | | | | | | AT7 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|-------|----|----|----|----|----|----|-------|----|----|----|----|----|----|-------|----|----|----|----|----|----|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|---|---|---|---|---|
| | 1-row | | | | | | | 2-row | | | | | | | 1-row | | | | | | | 2-row | | | | | | | | | | | | | | | | | | | | |
| Spacing | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | | | | | | |
| ZB0282 | • | • | • | • | • | • | • | • | • | – | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | – | • | • | • | • | • | • | • | • |
| ZB0287 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | • | • | • | • | – | – | – | – | – | – | – | – | – | – | – | – | – | – | • | • | • | • | | | | | |

Minimum number of brackets

depending on the version and its length in elements according to VDI 6036 – requirement class 3 (e.g. schools).

| Version | Spacing TL [mm] | Suspension lugs = number of brackets | | | | | | | |
|---------|-----------------|--------------------------------------|-------|-------|-------|-------|-------|-------|--|
| | | 4/6 | 6/8 | 8/10 | 10 | 12 | 14 | 16 | |
| | | Number of elements | | | | | | | |
| AT7 | 30 | 5–34 | 35–50 | 51–68 | | | | | |
| AT7 | 35–40 | 5–26 | 27–40 | 41–54 | 55–68 | | | | |
| AT7 | 45–50 | 5–22 | 23–36 | 37–48 | 49–60 | 61–68 | | | |
| AT7 | 55–60 | 5–20 | 21–30 | 31–40 | 41–50 | 51–60 | 61–68 | | |
| AT7 | 65–70 | 5–18 | 19–26 | 27–36 | 37–46 | 47–54 | 55–62 | 63–68 | |





Stated number of fixing points tested on a wall of T14 vertical coring lightweight brick with 15 mm thick plaster and appropriate to recommended connection situations according to VDI 6036 attachment D. For definition of VDI 6036 attachment D, see "General information – VDI 6036".

Wall-building material must be tested on site for sufficient loading capacity.

If no information has been given with the order regarding the requirement class or case/place of application, the brackets are always delivered according to requirement classes 1 and 2.



Wall brackets

| Description Product code | Characteristic | Dimensions ordering code [4] | Surface/finish ordering code [17] | Product version ordering code [3] | |
|--|---|--|--------------------------------------|---|--|
| Wall bracket short ZB0282  | <ul style="list-style-type: none"> • Wall bracket for clamp holder or suspension lugs • Comprising: <ul style="list-style-type: none"> – 1 wall bracket – Dehinging safety device – Screws and dowels • Surface: <ul style="list-style-type: none"> – Finished in AF , CF , SF | Distance to wall = 23 mm | AF | ZB0282 0001 | |
| | | | CF | ZB0282 ¹⁾ | |
| | | | SF | ZB0282 ¹⁾ | |
| | | Distance to wall = 33 mm | AF | ZB0282 0002 | |
| | | | CF | ZB0282 ¹⁾ | |
| | | | SF | ZB0282 ¹⁾ | |
| | | Distance to wall = 43 mm | AF | ZB0282 0003 | |
| | | | CF | ZB0282 ¹⁾ | |
| | | | SF | ZB0282 ¹⁾ | |
| | | Distance to wall = 53 mm | AF | ZB0282 0004 | |
| | | | CF | ZB0282 ¹⁾ | |
| | | | SF | ZB0282 ¹⁾ | |
| Wall bracket adjustable ZB0287  | <ul style="list-style-type: none"> • Wall bracket for clamp holder or suspension lugs • Comprising: <ul style="list-style-type: none"> – 1 wall bracket, adjustable – Dehinging safety device – Screws and dowels • Surface: <ul style="list-style-type: none"> – Finished in AF , CF , SF | Distance to wall = 35–45 mm | AF | ZB0287 0001 | |
| | | | CF | ZB0287 ¹⁾ | |
| | | | SF | ZB0287 ¹⁾ | |
| | | Distance to wall = 45–60 mm | AF | ZB0287 0002 | |
| | | | CF | ZB0287 ¹⁾ | |
| | | | SF | ZB0287 ¹⁾ | |
| Dehinging safety device and shift restraint set ZK0020 0001, ZK0020 0002  | <ul style="list-style-type: none"> • For ZB0282 • Comprising: <ul style="list-style-type: none"> – 2 dehinging safety device and shift restraint brackets • Material/surface: <ul style="list-style-type: none"> – Stainless steel | | – | ZK0020 0001 | |
| | | | | <ul style="list-style-type: none"> • For ZB0287 • Comprising: <ul style="list-style-type: none"> – 2 dehinging safety device and shift restraint brackets • Material/surface: <ul style="list-style-type: none"> – Stainless steel | |
| | Shift restraint for lower lug ZK0082 0001  | <ul style="list-style-type: none"> • Suitable for requirement classes I–III with connection situation in acc. with VDI 6036 attachment D. • For installation on the upper and lower lug. Also required if height > 1.5 x length. • To secure the upper and lower section of the radiator against shifting. • Material/surface: <ul style="list-style-type: none"> – Stainless steel | | | |
| | | | | | |

¹⁾ Dimensions characteristic [4], Surface/finish characteristic [17], Surface/colour characteristic [18/0] and Surface/colour code characteristic [18] must be specified with the order (for description, see section "General information" and colour chart)
When delivery unit is not specified, then delivery unit will be 1 pc.



Fixing with suspension lugs according to VDI 6036 – requirement class 3 (e.g. schools)

| Height H [mm] | Dimensional drawings | | Detail |
|---------------|----------------------|-------------|--------|
| | Up to 500 mm | Over 500 mm | |
| 300–2000 | | | |
| 2100–3000 | | | |

| Height H [mm] | 4/6 suspension lugs length (el.) | 6/8 suspension lugs length (el.) | 8/10 suspension lugs length (el.) | |
|---------------|----------------------------------|----------------------------------|-----------------------------------|-------|
| 300–2000 | | | | |
| 2100–3000 | | | | |
| Spacing | 30 | 5–34 | 35–50 | 51–68 |
| | 35–40 | 5–26 | 27–40 | 41–54 |
| | 45–50 | 5–22 | 23–36 | 37–48 |
| | 55–60 | 5–20 | 21–30 | 31–40 |
| | 65–70 | 5–18 | 19–26 | 27–36 |

| Height H [mm] | 10 suspension lugs length (el.) | 12 suspension lugs length (el.) | 14 suspension lugs length (el.) | |
|---------------|---------------------------------|---------------------------------|---------------------------------|-------|
| 300–2000 | | | | |
| Spacing | 30 | – | – | – |
| | 35–40 | 55–68 | – | – |
| | 45–50 | 49–60 | 61–68 | – |
| | 55–60 | 41–50 | 51–60 | 61–68 |
| | 65–70 | 37–46 | 47–54 | 55–62 |

TL: Spacing



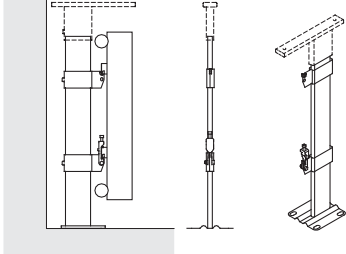
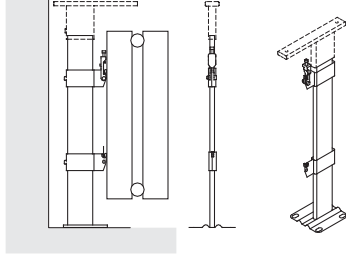
| Height H [mm] | 16 suspension lugs length (el.) | |
|---------------|---------------------------------|-------|
| 300–2000 | | |
| Spacing | 30 | – |
| | 35–40 | – |
| | 45–50 | – |
| | 55–60 | – |
| | 65–70 | 63–68 |

Fixing with suspension lugs

| | | | | |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| <p>TL 30 mm</p> | <p>TL 35 mm</p> | <p>TL 40 mm</p> | <p>TL 45 mm</p> | <p>TL 50 mm</p> |
| <p>TL 55 mm</p> | <p>TL 60 mm</p> | <p>TL 65 mm</p> | <p>TL 70 mm</p> | |

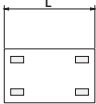
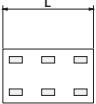


Fixing with soil stand bracket

| Fixing type | Description and dimensional drawings |
|----------------------|---|
| With suspension lugs | <ul style="list-style-type: none"> The number of fixing brackets must not be less than the minimum Possible for all versions up to a radiator height of 900 mm <ul style="list-style-type: none"> Requirement classes 1, 2 and 3 up to a stand pipe length of 750 mm (for installation on an unfinished floor 900 mm) Requirement classes 1 and 2 up to a stand pipe length of 1200 mm Recommendation: <ul style="list-style-type: none"> For finished floor: length of soil stand bracket pipe = radiator height + 150 mm For unfinished floor: length of soil stand bracket pipe = radiator height + 300 mm <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;">  <p>Soil stand bracket ZB0308</p> <p>with carrier set ZB0332</p> <p>Optionally with window sill support ZC0105–ZC0106</p> </div> <div style="text-align: center;">  <p>Soil stand bracket ZB0310</p> <p>with carrier set ZB0310</p> <p>Optionally with window sill support ZC0105–ZC0106</p> </div> </div> |

Usability of brackets – requirement classes 1, 2 and 3 (e.g. schools).

| Version | AT6 | | | | | | | | | | | | | | AT7 | | | | | | | | | | | | | | | | | | | | | |
|-------------------|-------|----|----|----|----|----|----|-------|----|----|----|----|----|----|-------|----|----|----|----|----|----|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | 1-row | | | | | | | 2-row | | | | | | | 1-row | | | | | | | 2-row | | | | | | | | | | | | | | |
| Spacing | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 |
| ZB0332, ZB0310 | • | • | • | • | • | • | • | • | • | – | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | – | • | • | • | • | • | • | • | • |

| Height H [mm] | 4/6 suspension lugs length (el.) | 6 suspension lugs length (el.) |
|---------------|---|---|
| 300–900 |  |  |
| Spacing | | |
| 30 | 5–56 | 57–68 |
| 35–40 | 5–56 | 57–68 |
| 45–50 | 5–34 | 35–68 |
| 55–60 | 5–34 | 35–68 |
| 65–70 | 5–34 | 35–68 |

Minimum number of soil stand brackets and carrier sets

depending on the version and its length in elements according to VDI 6036 – requirement classes 1, 2 and 3 (e.g. schools).

| Version | Spacing TL [mm] | 4 suspension lugs | Soil stand brackets | Carrier sets | 6 suspension lugs | Soil stand brackets | Carrier sets |
|----------|-----------------|-------------------|---------------------|--------------|-------------------|---------------------|--------------|
| | | Number [el.] | Piece(s) | Piece(s) | Number [el.] | Piece(s) | Piece(s) |
| AT6, AT7 | 30 | 5–56 | 2 | 2 | 57–68 | 3 | 3 |
| AT6, AT7 | 35–40 | 5–56 | | | 57–68 | | |
| AT6, AT7 | 45–50 | 5–34 | | | 35–68 | | |
| AT6, AT7 | 55–60 | 5–34 | | | 35–68 | | |
| AT6, AT7 | 65–70 | 5–34 | | | 35–68 | | |

Composition of the ground must be tested on site for sufficient bearing capacity.

If no information has been given with the order regarding the requirement class or case/place of application, the brackets are always delivered according to requirement classes 1 and 2.



Floor fixings





| Description Product code | Characteristic | Dimensions ordering code [4] | Surface/finish ordering code [17] | Product version ordering code [3] |
|--|---|--|--------------------------------------|--------------------------------------|
| Soil stand bracket ZB0308 | <ul style="list-style-type: none"> • With floor slab for screw mounting • Rectangular pipe 60 x 10 mm • Surface: <ul style="list-style-type: none"> – Finished in AF , CF , SF | H = 450 mm | AF | ZB0308 0001 |
| | | | CF | ZB0308 ¹⁾ |
| | | | SF | ZB0308 ¹⁾ |
| | | H = 550 mm | AF | ZB0308 0002 |
| | | | CF | ZB0308 ¹⁾ |
| | | | SF | ZB0308 ¹⁾ |
| | | H = 600 mm | AF | ZB0308 0003 |
| | | | CF | ZB0308 ¹⁾ |
| | | | SF | ZB0308 ¹⁾ |
| | | H = 650 mm | AF | ZB0308 0004 |
| | | | CF | ZB0308 ¹⁾ |
| | | | SF | ZB0308 ¹⁾ |
| H = 750 mm | AF | ZB0308 0005 | | |
| | CF | ZB0308 ¹⁾ | | |
| | SF | ZB0308 ¹⁾ | | |
| H = 850 mm | AF | ZB0308 0006 | | |
| | CF | ZB0308 ¹⁾ | | |
| | SF | ZB0308 ¹⁾ | | |
| H = 900 mm | AF | ZB0308 0007 | | |
| | CF | ZB0308 ¹⁾ | | |
| | SF | ZB0308 ¹⁾ | | |
| H = 1050 mm | AF | ZB0308 0008 | | |
| | CF | ZB0308 ¹⁾ | | |
| | SF | ZB0308 ¹⁾ | | |
| H = 1200 mm | AF | ZB0308 0009 | | |
| | CF | ZB0308 ¹⁾ | | |
| | SF | ZB0308 ¹⁾ | | |
| Carrier set ZB0310, ZB0332 | <ul style="list-style-type: none"> • For soil stand bracket 60 x 10 mm • Comprising: <ul style="list-style-type: none"> – 1 carrier for upper lug – 1 carrier for lower lug – 2 sound insulation clips – 1 shift restraint ZK0020 0001 • Surface: <ul style="list-style-type: none"> – Finished in AF , CF , SF | A = 16 mm | AF | ZB0310 0001 |
| | | | CF | ZB0310 ¹⁾ |
| | | | SF | ZB0310 ¹⁾ |
| | | A = 29 mm | AF | ZB0332 0001 |
| | | | SF | ZB0332 ¹⁾ |
| Cover rosette ZB0373 | <ul style="list-style-type: none"> • For soil stand bracket 60 x 10 mm • For installation on unfinished floor • Material: <ul style="list-style-type: none"> – Plastic: white • Surface: <ul style="list-style-type: none"> – Finished in CF , SF | 100 x 40 mm Opening: 60 x 10 mm | – | ZB0373 0001 |
| | | | CF | ZB0373 ¹⁾ |
| | | | SF | ZB0373 ¹⁾ |
| Cover rosette ZB0374 | <ul style="list-style-type: none"> • For soil stand bracket 60 x 10 mm • For finished floor mounting • Material: <ul style="list-style-type: none"> – Plastic: white • Surface: <ul style="list-style-type: none"> – Finished in CF , SF | 115 x 110 mm Opening: 60 x 10 mm | – | ZB0374 0001 |
| | | | CF | ZB0374 ¹⁾ |
| | | | SF | ZB0374 ¹⁾ |
| Window sill support ZC0105, ZC0106 | <ul style="list-style-type: none"> • For soil stand bracket 60 x 10 mm • Adjustment range 80–120 mm • Shelf (window sill) on site • Not to be used as a seat • Surface: <ul style="list-style-type: none"> – Finished in AF , CF , SF | L = 160 mm | AF | ZC0105 0001 |
| | | | CF | ZC0105 ¹⁾ |
| | | | SF | ZC0105 ¹⁾ |
| | | L = 200 mm | AF | ZC0106 0001 |
| | | | SF | ZC0106 ¹⁾ |

Fixing

¹⁾ Dimensions characteristic [4], Surface/finish characteristic [17], Surface/colour characteristic [18/0] and Surface/colour code characteristic [18] must be specified with the order (for description, see section "General information" and colour chart)
When delivery unit is not specified, then delivery unit will be 1 pc.






Accessories – fittings


| Description Product code | Characteristic | Dimensions ordering code 4 | Surface/finish ordering code 17 | Product version ordering code 3 |
|--|--|--|-------------------------------------|-------------------------------------|
| Thermostatic sensor head ZV0001 0002 |  <ul style="list-style-type: none"> Made by Honeywell For radiator with built-in valve M30 x 1.5 Version: <ul style="list-style-type: none"> – CR | – | CR | ZV0001 0002 |
| Upper part of the thermostat ZV0010 0001 |  <ul style="list-style-type: none"> For radiator with built-in valve For thermostatic sensor head with M30 x 1.5 k_v value adjustable | – | - | ZV0010 0001 |
| Air vent ZT0009 0001– ZT0009 0003 |  <ul style="list-style-type: none"> With valve and rotating outflow head With O-ring seal Surface: <ul style="list-style-type: none"> – High-gloss nickel-plated Surface of outflow head: <ul style="list-style-type: none"> – White | 1/4" thread | White | ZT0009 0001 |
| | | 3/8" thread | White | ZT0009 0002 |
| | | 1/2" thread | White | ZT0009 0003 |
| Blanking plug ZT0008 0001– ZT0008 0003 |  <ul style="list-style-type: none"> With O-ring seal Width across flats 22 mm Surface: <ul style="list-style-type: none"> – High-gloss nickel-plated | 1/2" thread | - | ZT0008 0001 |
| | | 3/8" thread | - | ZT0008 0002 |
| Valve shut-off block straight form ZV0040 | <p>Consisting of:</p> <ul style="list-style-type: none"> Valve shut-off block <ul style="list-style-type: none"> – Straight – 50 mm axial distance – For connecting 2-pipe radiators to 1-pipe or 2-pipe systems (adjustable bypass) – With integrated valve for thermostat with M30 x 1.5 – For radiators with 1/2" internal thread – Lockable and presettable – Flow and return freely selectable (note flow and return on radiator) – Self-sealing to radiator Matching cover Surface of cover: <ul style="list-style-type: none"> – Finished in AF – CR – Stainless-steel appearance | 1/2" external thread x 3/4" external thread | AF | ZV0040 0001 |
| | | | CR | ZV0040 0002 |
| | | | Stainless steel | ZV0040 0003 |

¹⁾ Dimensions characteristic |4|, Surface/finish characteristic |17|, Surface/colour characteristic |18/0| and Surface/colour code characteristic |18| must be specified with the order (for description, see section "General information" and colour chart)
When delivery unit is not specified, then delivery unit will be 1 pc.

Accessories – fittings

| Description Product code | | Characteristic | Dimensions ordering code 4 | Surface/finish ordering code 17 | Product version ordering code 3 |
|---|---|---|---|-------------------------------------|-------------------------------------|
| Valve shut-off block angled form ZV0041 |  | Consisting of: <ul style="list-style-type: none"> Valve shut-off block <ul style="list-style-type: none"> Angled 50 mm axial distance For connecting 2-pipe radiators to 1-pipe or 2-pipe systems (adjustable bypass) With integrated valve for thermostat with M30 x 1.5 For radiators with 1/2" internal thread Lockable and presettable Flow and return freely selectable (note flow and return on radiator) Self-sealing to radiator Matching cover Surface of cover: <ul style="list-style-type: none"> Finished in AF CR Stainless-steel appearance | 1/2" external thread x 3/4" external thread | AF | ZV0041 0001 |
| | | | | CR | ZV0041 0002 |
| | | | | Stainless steel | ZV0041 0003 |
| Reducer ZT0010 0001 |  | <ul style="list-style-type: none"> With O-ring seal For 2-pipe connections 1/2" external thread x 3/8" internal thread Surface: <ul style="list-style-type: none"> High-gloss nickel-plated | 1/2" external thread x 3/8" internal thread | - | ZT0010 0001 |
| Reducer ZT0011 0001 |  | <ul style="list-style-type: none"> Built-in valve (50 mm axial distance for flow/return) 1/2" external thread x 3/4" external thread Surface: <ul style="list-style-type: none"> High-gloss nickel-plated | 1/2" external thread x 3/4" external thread | - | ZT0011 0001 ⁰⁰⁰¹ |

Accessories – attachments



| Description Product code | | Characteristic | Dimensions ordering code 4 | Surface/finish ordering code 17 | Product version ordering code 3 |
|-----------------------------|---|---|--------------------------------|-------------------------------------|-------------------------------------|
| Towel rail ZC0017 |  | <ul style="list-style-type: none"> For Arbotherm Surface: <ul style="list-style-type: none"> CR | L = 500 mm | CR | ZC0017 0001 |
| | | | L = 700 mm | CR | ZC0017 0002 |

¹⁾ Dimensions characteristic |4|, Surface/finish characteristic |17|, Surface/colour characteristic |18/0| and Surface/colour code characteristic |18| must be specified with the order (for description, see section "General information" and colour chart)




When delivery unit is not specified, then delivery unit will be 1 pc.



Covers

| Description Product code | | Characteristic | Dimensions ordering code 4 | Surface/finish ordering code 17 | Product version ordering code 3 |
|--|---|--|--------------------------------|-------------------------------------|-------------------------------------|
| Cap set ZA0092 0001– ZA0092 0002 |  | <ul style="list-style-type: none"> For screws with width across flats of 13 mm Comprising: <ul style="list-style-type: none"> – 12 caps Material/surface: <ul style="list-style-type: none"> – White | White | - | ZA0092 0001 |
| |  | <ul style="list-style-type: none"> For screws with width across flats of 13 mm Comprising: <ul style="list-style-type: none"> – 12 caps Material/surface: <ul style="list-style-type: none"> – RAL 7024 | RAL 7024 | - | ZA0092 0002 |

Assembling aids

| Description Product code | | Characteristic | Dimensions ordering code 4 | Surface/finish ordering code 17 | Product version ordering code 3 |
|---|---|--|--------------------------------|-------------------------------------|-------------------------------------|
| Touch-up paint ZK0001 0002 |  | <ul style="list-style-type: none"> For repairing paint damage on finished or powder-coated radiators 12 ml SG silk gloss | RAL 9016 | - | ZK0001 0002 |
| Paint spray can ZK0002 0002 |  | <ul style="list-style-type: none"> Original colour for repairing paint damage on finished or powder-coated radiators 150 ml SG silk gloss | RAL 9016 | - | ZK0002 0002 |
| Paint can and hardener ZK0003 |  | <ul style="list-style-type: none"> For repairing paint damage on finished or powder-coated radiators 50 g SG silk gloss Please indicate CF/SF number | CF | - | ZK0003 ¹⁾ |
| | | | SF | - | ZK0003 ¹⁾ |

¹⁾ Dimensions characteristic |4|, Surface/finish characteristic |17|, Surface/colour characteristic |18/0| and Surface/colour code characteristic |18| must be specified with the order (for description, see section "General information" and colour chart)
When delivery unit is not specified, then delivery unit will be 1 pc.

k_v values for AT6, 1-row, spacing 30 mm

| Height [mm] | AT6, 1-row, spacing 30 mm | | | | |
|-------------|---------------------------|--------------|--------------|--------------|--------------|
| | Length [el.] | Length [el.] | Length [el.] | Length [el.] | Length [el.] |
| 210 | 5-29 | 30-65 | 66-199 | | |
| 280 | 5-29 | 30-65 | 66-199 | | |
| 300 | 5-29 | 30-65 | 66-199 | | |
| 350 | 5-29 | 30-65 | 66-199 | | |
| 400 | 5-27 | 28-59 | 60-199 | | |
| 450 | 5-25 | 26-53 | 54-199 | | |
| 500 | 5-23 | 24-49 | 50-199 | | |
| 550 | 5-21 | 22-45 | 46-63 | 64-199 | |
| 600 | 5-19 | 20-41 | 42-59 | 60-199 | |
| 650 | 5-18 | 19-39 | 40-55 | 56-65 | 66-199 |
| 700 | 5-17 | 18-37 | 38-51 | 52-61 | 62-199 |
| 750 | 5-16 | 17-35 | 36-49 | 50-57 | 58-199 |
| 800 | 5-15 | 16-33 | 34-45 | 46-55 | 56-199 |
| 900 | 5-14 | 15-29 | 30-41 | 42-49 | 50-199 |
| 1000 | 5-13 | 14-27 | 28-37 | 38-45 | 46-199 |
| 1100 | 5-12 | 13-25 | 26-35 | 36-41 | 42-199 |
| 1200 | 5-11 | 12-23 | 24-31 | 32-37 | 38-199 |
| 1250 | 5-10 | 11-21 | 22-31 | 32-37 | 38-199 |
| 1500 | 5-9 | 10-19 | 20-25 | 26-31 | 32-199 |
| 1600 | 5-8 | 9-18 | 19-25 | 26-29 | 30-199 |
| 1750 | 5-8 | 9-16 | 17-23 | 24-27 | 28-199 |
| 1800 | 5-8 | 9-16 | 17-23 | 24-27 | 28-199 |
| 1900 | 5-7 | 8-15 | 16-21 | 22-25 | 26-199 |
| 2000 | 5-7 | 8-14 | 15-20 | 21-23 | 24-199 |
| 2100 | 5-7 | 8-14 | 15-19 | 20-23 | 24-199 |
| 2200 | 5-6 | 7-13 | 14-18 | 19-21 | 22-199 |
| 2500 | 5-6 | 7-12 | 13-16 | 17-19 | 20-199 |
| 3000 | 5-6 | 5-10 | 11-14 | 15-16 | 17-199 |

k_v values for AT6, 2-row, spacing 30 mm

| Height [mm] | AT6, 2-row, spacing 30 mm | | | | |
|-------------|---------------------------|--------------|--------------|--------------|--------------|
| | Length [el.] | Length [el.] | Length [el.] | Length [el.] | Length [el.] |
| 210 | 5-18 | 17-39 | 40-55 | 56-65 | 66-199 |
| 280 | 5-18 | 17-39 | 40-55 | 56-65 | 66-199 |
| 300 | 5-18 | 17-39 | 40-55 | 56-65 | 66-199 |
| 350 | 5-18 | 17-39 | 40-55 | 56-65 | 66-199 |
| 400 | 5-16 | 17-33 | 34-47 | 48-57 | 58-199 |
| 450 | 5-15 | 16-31 | 32-43 | 44-53 | 54-199 |
| 500 | 5-14 | 15-29 | 30-41 | 42-49 | 50-199 |
| 550 | 5-13 | 14-27 | 28-37 | 38-45 | 46-199 |
| 600 | 5-12 | 13-25 | 26-35 | 36-41 | 42-199 |
| 650 | 5-11 | 12-23 | 24-33 | 34-39 | 40-199 |
| 700 | 5-10 | 11-21 | 22-31 | 32-37 | 38-199 |
| 750 | 5-10 | 11-21 | 22-29 | 30-35 | 36-199 |
| 800 | 5-9 | 10-20 | 21-27 | 28-33 | 34-199 |
| 900 | 5-9 | 10-18 | 19-25 | 26-29 | 30-199 |
| 1000 | 5-7 | 8-17 | 18-23 | 24-27 | 28-199 |
| 1100 | 5-7 | 8-15 | 16-21 | 22-25 | 26-199 |
| 1200 | 5-7 | 8-14 | 15-20 | 21-23 | 24-199 |
| 1250 | 5-7 | 8-14 | 15-19 | 20-23 | 24-199 |
| 1500 | 5-6 | 7-12 | 13-16 | 17-20 | 21-199 |
| 1600 | 5-6 | 5-11 | 12-16 | 17-18 | 19-199 |
| 1750 | | 5-10 | 11-14 | 15-17 | 18-199 |
| 1800 | | 5-9 | 10-12 | 13-15 | 16-199 |
| 1900 | | 5-10 | 11-13 | 14-16 | 17-199 |
| 2000 | | 5-9 | 10-13 | 14-15 | 16-199 |
| 2100 | | 5-9 | 10-12 | 13-14 | 15-199 |
| 2200 | | 5-8 | 9-12 | 13-14 | 15-199 |
| 2500 | | 5-8 | 9-10 | 11-12 | 13-199 |
| 3000 | | 5-6 | 7-9 | 10-11 | 12-199 |



k_v values for AT6, 1-row, spacing 35 mm

| Height [mm] | AT6, 1-row, spacing 35 mm | | | | |
|-------------|---------------------------|--------------|--------------|--------------|--------------|
| | Length [el.] | Length [el.] | Length [el.] | Length [el.] | Length [el.] |
| 210 | 5-28 | 29-62 | 63-171 | | |
| 280 | 5-28 | 29-62 | 63-171 | | |
| 300 | 5-28 | 29-62 | 63-171 | | |
| 350 | 5-28 | 29-62 | 63-171 | | |
| 400 | 5-24 | 25-54 | 55-171 | | |
| 450 | 5-22 | 23-50 | 51-171 | | |
| 500 | 5-20 | 21-46 | 47-64 | 65-171 | |
| 550 | 5-19 | 20-42 | 43-60 | 61-171 | |
| 600 | 5-18 | 19-38 | 39-56 | 57-66 | 67-171 |
| 650 | 5-16 | 17-36 | 37-52 | 53-62 | 63-171 |
| 700 | 5-15 | 16-34 | 35-48 | 49-58 | 59-171 |
| 750 | 5-14 | 15-32 | 33-46 | 47-54 | 55-171 |
| 800 | 5-14 | 15-30 | 31-42 | 43-52 | 53-171 |
| 900 | 5-12 | 13-26 | 27-38 | 39-46 | 47-171 |
| 1000 | 5-11 | 12-24 | 25-34 | 35-42 | 43-171 |
| 1100 | 5-10 | 11-22 | 23-32 | 33-38 | 39-171 |
| 1200 | 5-9 | 10-20 | 21-30 | 31-36 | 37-171 |
| 1250 | 5-9 | 10-20 | 21-28 | 29-34 | 35-171 |
| 1500 | 5-7 | 8-17 | 18-24 | 25-28 | 29-171 |
| 1600 | 5-7 | 8-16 | 17-22 | 23-26 | 27-171 |
| 1750 | 5-6 | 7-15 | 16-20 | 21-24 | 25-171 |
| 1800 | 5-6 | 7-15 | 16-20 | 21-24 | 25-171 |
| 1900 | 5-6 | 7-14 | 15-19 | 20-22 | 23-171 |
| 2000 | 5-6 | 7-13 | 14-18 | 19-22 | 23-171 |
| 2100 | 5 | 6-12 | 13-17 | 18-20 | 21-171 |
| 2200 | 5 | 6-12 | 13-17 | 18-20 | 21-171 |
| 2500 | | 5-10 | 11-15 | 16-18 | 19-171 |
| 3000 | | 5-9 | 10-12 | 13-15 | 16-171 |

k_v values for AT6, 2-row, spacing 35 mm

| Height [mm] | AT6, 2-row, spacing 35 mm | | | | |
|-------------|---------------------------|--------------|--------------|--------------|--------------|
| | Length [el.] | Length [el.] | Length [el.] | Length [el.] | Length [el.] |
| 210 | 5-17 | 18-36 | 37-52 | 53-62 | 63-171 |
| 280 | 5-17 | 18-36 | 37-52 | 53-62 | 63-171 |
| 300 | 5-17 | 18-36 | 37-52 | 53-62 | 63-171 |
| 350 | 5-17 | 18-36 | 37-52 | 53-62 | 63-171 |
| 400 | 5-14 | 15-32 | 33-46 | 47-54 | 55-171 |
| 450 | 5-13 | 14-28 | 29-42 | 43-50 | 51-171 |
| 500 | 5-12 | 13-26 | 27-38 | 39-46 | 47-171 |
| 550 | 5-11 | 12-24 | 25-36 | 37-42 | 43-171 |
| 600 | 5-10 | 11-22 | 23-32 | 33-40 | 41-171 |
| 650 | 5-10 | 11-22 | 23-30 | 31-36 | 37-171 |
| 700 | 5-9 | 10-20 | 21-28 | 29-34 | 35-171 |
| 750 | 5-9 | 10-19 | 20-26 | 27-32 | 33-171 |
| 800 | 5-8 | 9-18 | 19-26 | 27-30 | 31-171 |
| 900 | 5-7 | 8-16 | 17-22 | 23-28 | 29-171 |
| 1000 | 5-7 | 8-15 | 16-20 | 21-24 | 25-171 |
| 1100 | 5-6 | 7-14 | 15-20 | 21-22 | 23-171 |
| 1200 | 5 | 6-13 | 14-18 | 19-22 | 23-171 |
| 1250 | 5 | 6-12 | 13-17 | 18-20 | 21-171 |
| 1500 | 5 | 5-10 | 11-15 | 16-18 | 19-171 |
| 1600 | | 5-10 | 11-14 | 15-17 | 18-171 |
| 1750 | | 5-9 | 10-13 | 14-15 | 16-171 |
| 1800 | | 5-8 | 9-11 | 12-14 | 15-171 |
| 1900 | | 5-8 | 9-12 | 13-14 | 15-171 |
| 2000 | | 5-8 | 9-11 | 12-13 | 14-171 |
| 2100 | | 5-7 | 8-11 | 12-13 | 14-171 |
| 2200 | | 5-7 | 8-10 | 11-12 | 13-171 |
| 2500 | | 5-6 | 7-9 | 10-11 | 12-171 |
| 3000 | | 5 | 6-7 | 8-9 | 10-171 |

k_v values for AT6, 1-row, spacing 40 mm

| Height [mm] | AT6, 1-row, spacing 40 mm | | | | |
|-------------|---------------------------|--------------|--------------|--------------|--------------|
| | Length [el.] | Length [el.] | Length [el.] | Length [el.] | Length [el.] |
| 210 | 5-30 | 31-149 | | | |
| 280 | 5-30 | 31-149 | | | |
| 300 | 5-30 | 31-149 | | | |
| 350 | 5-26 | 27-60 | 61-149 | | |
| 400 | 5-24 | 25-52 | 53-149 | | |
| 450 | 5-22 | 23-48 | 49-149 | | |
| 500 | 5-20 | 21-44 | 45-62 | 63-149 | |
| 550 | 5-18 | 19-40 | 41-58 | 59-149 | |
| 600 | 5-17 | 18-38 | 39-52 | 53-64 | 65-149 |
| 650 | 5-16 | 17-34 | 35-50 | 51-60 | 61-149 |
| 700 | 5-15 | 16-32 | 33-46 | 47-56 | 57-149 |
| 750 | 5-14 | 15-30 | 31-44 | 45-52 | 53-149 |
| 800 | 5-13 | 14-28 | 29-40 | 41-50 | 51-149 |
| 900 | 5-12 | 13-26 | 27-36 | 37-44 | 45-149 |
| 1000 | 5-11 | 12-24 | 25-34 | 35-40 | 41-149 |
| 1100 | 5-10 | 11-22 | 23-30 | 31-36 | 37-149 |
| 1200 | 5-9 | 10-20 | 21-28 | 29-34 | 35-149 |
| 1250 | 5-9 | 10-19 | 20-28 | 29-32 | 33-149 |
| 1500 | 5-7 | 8-16 | 17-22 | 23-28 | 29-149 |
| 1600 | 5-7 | 8-15 | 16-22 | 23-26 | 27-149 |
| 1750 | 5-6 | 7-14 | 15-20 | 21-24 | 25-149 |
| 1800 | 5-6 | 7-14 | 15-20 | 21-24 | 25-149 |
| 1900 | 5-6 | 7-13 | 14-18 | 19-22 | 23-149 |
| 2000 | 5 | 6-12 | 13-18 | 19-20 | 21-149 |
| 2100 | 5 | 6-12 | 13-18 | 18-20 | 21-149 |
| 2200 | 5 | 6-11 | 12-16 | 17-19 | 20-149 |
| 2500 | 5 | 5-10 | 11-14 | 15-17 | 18-149 |
| 3000 | | 5-8 | 9-12 | 13-14 | 15-149 |

k_v values for AT6, 2-row, spacing 40 mm

| Height [mm] | AT6, 2-row, spacing 40 mm | | | | |
|-------------|---------------------------|--------------|--------------|--------------|--------------|
| | Length [el.] | Length [el.] | Length [el.] | Length [el.] | Length [el.] |
| 210 | 5-19 | 20-40 | 41-58 | 59-149 | |
| 280 | 5-19 | 20-40 | 41-58 | 59-149 | |
| 300 | 5-19 | 20-40 | 41-58 | 59-149 | |
| 350 | 5-16 | 17-36 | 37-50 | 51-60 | 61-149 |
| 400 | 5-14 | 15-30 | 31-44 | 45-52 | 53-149 |
| 450 | 5-13 | 14-28 | 29-40 | 41-48 | 49-149 |
| 500 | 5-12 | 13-26 | 27-36 | 37-44 | 45-149 |
| 550 | 5-11 | 12-24 | 25-34 | 35-40 | 41-149 |
| 600 | 5-10 | 11-22 | 23-32 | 33-38 | 39-149 |
| 650 | 5-9 | 10-20 | 21-30 | 31-36 | 37-149 |
| 700 | 5-9 | 10-20 | 21-28 | 29-32 | 33-149 |
| 750 | 5-8 | 9-19 | 20-26 | 27-30 | 31-149 |
| 800 | 5-8 | 9-18 | 19-24 | 25-30 | 31-149 |
| 900 | 5-7 | 8-16 | 17-22 | 23-26 | 27-149 |
| 1000 | 5-6 | 7-14 | 15-20 | 21-24 | 25-149 |
| 1100 | 5-6 | 7-13 | 14-19 | 20-22 | 21-149 |
| 1200 | 5 | 6-12 | 13-17 | 18-20 | 21-149 |
| 1250 | 5 | 6-12 | 13-17 | 18-20 | 21-149 |
| 1500 | 5 | 5-10 | 11-14 | 15-17 | 18-149 |
| 1600 | | 5-9 | 10-13 | 14-16 | 17-149 |
| 1750 | | 5-8 | 9-12 | 13-14 | 15-149 |
| 1800 | | 5-8 | 9-11 | 12-13 | 14-149 |
| 1900 | | 5-8 | 9-11 | 12-13 | 14-149 |
| 2000 | | 5-7 | 8-11 | 12-13 | 14-149 |
| 2100 | | 5-7 | 8-10 | 11-12 | 13-149 |
| 2200 | | 5-7 | 8-10 | 11-12 | 13-149 |
| 2500 | | 5-6 | 7-8 | 9-10 | 11-149 |
| 3000 | | 5 | 6-7 | 8-9 | 10-149 |



k_v values for AT6, 1-row, spacing 45 mm

| Height [mm] | AT6, 1-row, spacing 45 mm | | | | |
|-------------|---------------------------|--------------|--------------|--------------|--------------|
| | Length [el.] | Length [el.] | Length [el.] | Length [el.] | Length [el.] |
| 210 | 5-30 | 31-66 | 67-133 | | |
| 280 | 5-30 | 31-66 | 67-133 | | |
| 300 | 5-30 | 31-66 | 67-133 | | |
| 350 | 5-26 | 27-58 | 59-133 | | |
| 400 | 5-20 | 21-50 | 51-133 | | |
| 450 | 5-19 | 20-46 | 47-66 | 67-133 | |
| 500 | 5-18 | 19-42 | 43-60 | 61-133 | |
| 550 | 5-18 | 19-38 | 39-54 | 55-66 | 67-133 |
| 600 | 5-16 | 17-36 | 37-50 | 51-60 | 61-133 |
| 650 | 5-15 | 16-34 | 35-48 | 49-56 | 57-133 |
| 700 | 5-15 | 16-32 | 33-44 | 45-54 | 55-133 |
| 750 | 5-13 | 14-30 | 31-42 | 43-50 | 51-133 |
| 800 | 5-12 | 13-28 | 29-40 | 41-48 | 49-133 |
| 900 | 5-11 | 12-24 | 25-36 | 37-42 | 43-133 |
| 1000 | 5-10 | 11-22 | 23-32 | 33-38 | 39-133 |
| 1100 | 5-9 | 10-20 | 21-30 | 31-36 | 37-133 |
| 1200 | 5-8 | 9-19 | 20-26 | 27-32 | 33-133 |
| 1250 | 5-8 | 9-19 | 20-26 | 27-32 | 33-133 |
| 1500 | 5-7 | 8-16 | 17-22 | 23-26 | 27-133 |
| 1600 | 5-6 | 7-15 | 16-20 | 21-24 | 25-133 |
| 1750 | 5-6 | 7-13 | 14-19 | 20-22 | 23-133 |
| 1800 | 5-6 | 7-14 | 15-20 | 21-24 | 25-133 |
| 1900 | 5 | 6-12 | 13-18 | 19-20 | 21-133 |
| 2000 | 5 | 6-12 | 13-17 | 18-20 | 21-133 |
| 2100 | 5 | 6-11 | 12-16 | 17-19 | 20-133 |
| 2200 | 5 | 6-11 | 12-15 | 16-18 | 19-133 |
| 2500 | 5 | 5-9 | 10-14 | 15-16 | 17-133 |
| 3000 | | 5-8 | 9-11 | 12-14 | 15-133 |

k_v values for AT6, 2-row, spacing 45 mm

| Height [mm] | AT6, 2-row, spacing 45 mm | | | | |
|-------------|---------------------------|--------------|--------------|--------------|--------------|
| | Length [el.] | Length [el.] | Length [el.] | Length [el.] | Length [el.] |
| 210 | 5-18 | 19-40 | 41-56 | 57-133 | |
| 280 | 5-18 | 19-40 | 41-56 | 57-133 | |
| 300 | 5-18 | 19-40 | 41-56 | 57-133 | |
| 350 | 5-16 | 17-34 | 35-50 | 51-58 | 59-133 |
| 400 | 5-14 | 15-30 | 31-42 | 43-50 | 51-133 |
| 450 | 5-12 | 13-28 | 29-38 | 39-46 | 47-133 |
| 500 | 5-11 | 12-24 | 25-36 | 37-42 | 43-133 |
| 550 | 5-10 | 11-22 | 23-32 | 33-40 | 41-133 |
| 600 | 5-10 | 11-22 | 23-30 | 31-36 | 37-133 |
| 650 | 5-9 | 10-20 | 21-28 | 29-34 | 35-133 |
| 700 | 5-8 | 9-19 | 20-26 | 27-32 | 33-133 |
| 750 | 5-8 | 9-18 | 19-24 | 25-30 | 31-133 |
| 800 | 5-7 | 8-17 | 19-24 | 25-28 | 29-133 |
| 900 | 5-7 | 8-15 | 16-22 | 23-26 | 27-133 |
| 1000 | 5-6 | 7-14 | 15-20 | 21-22 | 23-133 |
| 1100 | 5 | 6-13 | 14-18 | 19-20 | 21-133 |
| 1200 | 5 | 6-12 | 13-16 | 17-20 | 21-133 |
| 1250 | 5 | 6-11 | 13-16 | 17-19 | 20-133 |
| 1500 | 5 | 5-9 | 10-13 | 14-16 | 17-133 |
| 1600 | | 5-9 | 10-13 | 14-15 | 16-133 |
| 1750 | | 5-8 | 9-11 | 12-14 | 15-133 |
| 1800 | | 5-8 | 9-11 | 12-13 | 14-133 |
| 1900 | | 5-7 | 8-11 | 12-13 | 14-133 |
| 2000 | | 5-7 | 8-10 | 11-12 | 13-133 |
| 2100 | | 5-7 | 8-10 | 11-12 | 13-133 |
| 2200 | | 5-6 | 7-9 | 10-11 | 12-133 |
| 2500 | | 5-6 | 7-8 | 9-10 | 11-133 |
| 3000 | | 5 | 6-7 | 8 | 9-133 |

k_v values for AT6, 1-row, spacing 50 mm

| Height [mm] | AT6, 1-row, spacing 50 mm | | | | |
|-------------|---------------------------|--------------|--------------|--------------|--------------|
| | Length [el.] | Length [el.] | Length [el.] | Length [el.] | Length [el.] |
| 210 | 5-28 | 29-64 | 65-120 | | |
| 280 | 5-28 | 29-64 | 65-120 | | |
| 300 | 5-28 | 29-64 | 65-120 | | |
| 350 | 5-26 | 27-56 | 57-120 | | |
| 400 | 5-22 | 23-48 | 49-120 | | |
| 450 | 5-20 | 21-44 | 45-62 | 63-120 | |
| 500 | 5-18 | 19-40 | 41-58 | 59-120 | |
| 550 | 5-17 | 18-38 | 39-52 | 53-64 | 65-120 |
| 600 | 5-16 | 17-34 | 35-48 | 49-58 | 59-120 |
| 650 | 5-15 | 16-32 | 33-46 | 47-54 | 55-120 |
| 700 | 5-14 | 15-30 | 31-42 | 43-52 | 53-120 |
| 750 | 5-13 | 14-28 | 29-40 | 41-48 | 49-120 |
| 800 | 5-12 | 13-26 | 27-38 | 39-46 | 47-120 |
| 900 | 5-11 | 12-24 | 25-34 | 35-40 | 41-120 |
| 1000 | 5-10 | 11-22 | 23-30 | 31-36 | 37-120 |
| 1100 | 5-9 | 10-20 | 21-28 | 29-34 | 35-120 |
| 1200 | 5-8 | 9-19 | 20-26 | 27-32 | 33-120 |
| 1250 | 5-8 | 9-18 | 19-24 | 25-30 | 31-120 |
| 1500 | 5-7 | 8-15 | 16-20 | 21-26 | 27-120 |
| 1600 | 5-6 | 7-14 | 15-20 | 21-24 | 25-120 |
| 1750 | 5-6 | 7-13 | 14-18 | 19-22 | 23-120 |
| 1800 | 5-6 | 6-12 | 14-19 | 20-22 | 23-120 |
| 1900 | 5 | 6-12 | 13-17 | 18-20 | 21-120 |
| 2000 | 5 | 6-11 | 12-16 | 17-19 | 20-120 |
| 2100 | 5 | 6-11 | 12-15 | 16-18 | 19-120 |
| 2200 | 5 | 5-10 | 11-15 | 16-18 | 19-120 |
| 2500 | | 5-9 | 10-13 | 14-16 | 17-120 |
| 3000 | | 5-8 | 9-11 | 12-13 | 14-120 |

k_v values for AT6, 2-row, spacing 50 mm

| Height [mm] | AT6, 2-row, spacing 50 mm | | | | |
|-------------|---------------------------|--------------|--------------|--------------|--------------|
| | Length [el.] | Length [el.] | Length [el.] | Length [el.] | Length [el.] |
| 210 | 5-18 | 19-38 | 39-54 | 55-66 | 67-120 |
| 280 | 5-18 | 19-38 | 39-54 | 55-66 | 67-120 |
| 300 | 5-18 | 19-38 | 39-54 | 55-66 | 67-120 |
| 350 | 5-15 | 16-32 | 33-48 | 49-58 | 59-120 |
| 400 | 5-13 | 14-28 | 29-42 | 43-50 | 51-120 |
| 450 | 5-12 | 13-26 | 27-38 | 39-44 | 45-120 |
| 500 | 5-11 | 12-24 | 25-34 | 35-40 | 41-120 |
| 550 | 5-10 | 11-22 | 23-32 | 33-38 | 39-120 |
| 600 | 5-9 | 10-20 | 21-30 | 31-36 | 37-120 |
| 650 | 5-9 | 10-19 | 20-28 | 29-32 | 33-120 |
| 700 | 5-8 | 9-18 | 19-26 | 27-30 | 31-120 |
| 750 | 5-8 | 9-17 | 18-24 | 25-28 | 29-120 |
| 800 | 5-7 | 8-16 | 17-22 | 23-28 | 29-120 |
| 900 | 5-6 | 7-14 | 15-20 | 21-24 | 25-120 |
| 1000 | 5-6 | 7-13 | 14-19 | 20-22 | 23-120 |
| 1100 | 5 | 6-12 | 13-17 | 18-20 | 21-120 |
| 1200 | 5 | 6-11 | 12-16 | 17-19 | 20-120 |
| 1250 | 5 | 6-11 | 12-15 | 16-18 | 19-120 |
| 1500 | 5 | 5-9 | 10-13 | 14-15 | 16-120 |
| 1600 | | 5-8 | 9-12 | 13-14 | 15-120 |
| 1750 | | 5-8 | 9-11 | 12-13 | 14-120 |
| 1800 | | 5-7 | 8-11 | 12-13 | 14-120 |
| 1900 | | 5-7 | 8-10 | 11-12 | 13-120 |
| 2000 | | 5-7 | 8-10 | 11-12 | 13-120 |
| 2100 | | 5-6 | 7-9 | 10-11 | 12-120 |
| 2200 | | 5-6 | 7-9 | 10-11 | 12-120 |
| 2500 | | 5 | 6-8 | 9-9 | 10-120 |
| 3000 | | 5 | 5-6 | 7-8 | 9-120 |



k_v values for AT6, 1-row, spacing 55 mm

| Height [mm] | AT6, 1-row, spacing 55 mm | | | | |
|-------------|---------------------------|--------------|--------------|--------------|--------------|
| | Length [el.] | Length [el.] | Length [el.] | Length [el.] | Length [el.] |
| 210 | 5-28 | 29-62 | 63-109 | | |
| 280 | 5-28 | 29-62 | 63-109 | | |
| 300 | 5-28 | 29-62 | 63-109 | | |
| 350 | 5-24 | 25-56 | 57-109 | | |
| 400 | 5-20 | 21-48 | 49-66 | 67-109 | |
| 450 | 5-19 | 20-42 | 43-60 | 61-109 | |
| 500 | 5-18 | 19-40 | 41-56 | 57-66 | 67-109 |
| 550 | 5-16 | 17-36 | 37-52 | 53-62 | 63-109 |
| 600 | 5-15 | 16-34 | 35-48 | 49-56 | 57-109 |
| 650 | 5-14 | 15-32 | 33-44 | 45-52 | 53-109 |
| 700 | 5-13 | 14-30 | 31-42 | 43-50 | 51-109 |
| 750 | 5-12 | 13-28 | 29-38 | 39-46 | 47-109 |
| 800 | 5-12 | 13-26 | 27-36 | 37-44 | 45-109 |
| 900 | 5-10 | 11-24 | 25-32 | 33-40 | 41-109 |
| 1000 | 5-9 | 10-20 | 21-30 | 31-36 | 37-109 |
| 1100 | 5-9 | 10-20 | 21-28 | 29-32 | 33-109 |
| 1200 | 5-8 | 9-18 | 19-26 | 27-30 | 31-109 |
| 1250 | 5-8 | 9-17 | 18-24 | 25-30 | 31-109 |
| 1500 | 5-6 | 7-15 | 16-20 | 21-24 | 25-109 |
| 1600 | 5-6 | 7-14 | 15-20 | 21-22 | 23-109 |
| 1750 | 5-6 | 7-13 | 14-18 | 19-20 | 21-109 |
| 1800 | 5-6 | 7-13 | 14-19 | 20-22 | 23-109 |
| 1900 | 5 | 6-12 | 13-17 | 18-20 | 21-109 |
| 2000 | 5 | 6-11 | 12-16 | 17-19 | 20-109 |
| 2100 | 5 | 6-10 | 11-15 | 16-18 | 19-109 |
| 2200 | 5 | 5-10 | 11-14 | 15-17 | 18-109 |
| 2500 | | 5-9 | 10-13 | 14-15 | 16-109 |
| 3000 | | 5-7 | 8-11 | 12-13 | 14-109 |

k_v values for AT6, 2-row, spacing 55 mm

| Height [mm] | AT6, 2-row, spacing 55 mm | | | | |
|-------------|---------------------------|--------------|--------------|--------------|--------------|
| | Length [el.] | Length [el.] | Length [el.] | Length [el.] | Length [el.] |
| 210 | 5-17 | 18-38 | 39-54 | 55-64 | 65-109 |
| 280 | 5-17 | 18-38 | 39-54 | 55-64 | 65-109 |
| 300 | 5-17 | 18-38 | 39-54 | 55-64 | 65-109 |
| 350 | 5-15 | 16-34 | 35-46 | 47-56 | 57-109 |
| 400 | 5-13 | 14-28 | 29-40 | 41-48 | 49-109 |
| 450 | 5-12 | 13-26 | 27-36 | 37-44 | 45-109 |
| 500 | 5-11 | 12-24 | 25-34 | 35-40 | 41-109 |
| 550 | 5-10 | 11-22 | 23-30 | 31-36 | 37-109 |
| 600 | 5-9 | 10-20 | 21-28 | 29-34 | 35-109 |
| 650 | 5-8 | 9-19 | 20-26 | 27-32 | 33-109 |
| 700 | 5-8 | 9-18 | 19-24 | 25-30 | 31-109 |
| 750 | 5-7 | 8-17 | 18-24 | 25-28 | 29-109 |
| 800 | 5-7 | 8-16 | 17-22 | 23-26 | 27-109 |
| 900 | 5-6 | 7-14 | 15-20 | 21-24 | 25-109 |
| 1000 | 5-6 | 7-13 | 14-18 | 19-22 | 23-109 |
| 1100 | 5 | 6-12 | 13-17 | 18-20 | 21-109 |
| 1200 | 5 | 6-11 | 12-15 | 16-18 | 19-109 |
| 1250 | 5 | 5-10 | 11-15 | 16-18 | 19-109 |
| 1500 | | 5-9 | 10-12 | 13-15 | 16-109 |
| 1600 | | 5-8 | 9-12 | 13-14 | 15-109 |
| 1750 | | 5-7 | 8-11 | 12-13 | 14-109 |
| 1800 | | 5-7 | 8-10 | 11-13 | 14-109 |
| 1900 | | 5-7 | 8-10 | 11-12 | 13-109 |
| 2000 | | 5-7 | 8-9 | 10-11 | 12-109 |
| 2100 | | 5-6 | 7-9 | 10-11 | 12-109 |
| 2200 | | 5-6 | 7-9 | 10 | 11-109 |
| 2500 | | 5 | 6-7 | 8-9 | 10-109 |
| 3000 | | 5 | 5-6 | 7-8 | 9-109 |

k_v values for AT6, 1-row, spacing 60 mm

| Height [mm] | AT6, 1-row, spacing 60 mm | | | | |
|----------------|---------------------------|-----------------|-----------------|-----------------|-----------------|
| | Length [el.] | Length [el.] | Length [el.] | Length [el.] | Length [el.] |
| 210 | 5-26 | 27-60 | 61-100 | | |
| 280 | 5-26 | 27-60 | 61-100 | | |
| 300 | 5-26 | 27-60 | 61-100 | | |
| 350 | 5-24 | 25-54 | 55-100 | | |
| 400 | 5-20 | 21-46 | 47-64 | 65-100 | |
| 450 | 5-19 | 20-42 | 43-58 | 59-64 | |
| 500 | 5-17 | 18-38 | 39-54 | 55-60 | 61-100 |
| 550 | 5-16 | 17-34 | 35-50 | 51-56 | 57-100 |
| 600 | 5-15 | 16-32 | 33-46 | 47-56 | 57-100 |
| 650 | 5-14 | 15-30 | 31-42 | 43-52 | 53-100 |
| 700 | 5-13 | 14-28 | 29-40 | 41-48 | 49-100 |
| 750 | 5-12 | 13-26 | 27-38 | 28-46 | 47-100 |
| 800 | 5-11 | 12-26 | 27-36 | 37-42 | 43-100 |
| 900 | 5-10 | 11-22 | 23-32 | 33-38 | 39-100 |
| 1000 | 5-9 | 10-20 | 21-30 | 31-34 | 35-100 |
| 1100 | 5-8 | 9-19 | 20-26 | 27-32 | 33-100 |
| 1200 | 5-8 | 9-18 | 19-24 | 25-30 | 31-100 |
| 1250 | 5-7 | 8-17 | 18-24 | 25-28 | 29-100 |
| 1500 | 5-6 | 7-14 | 15-20 | 21-24 | 25-100 |
| 1600 | 5-6 | 7-13 | 14-19 | 20-22 | 23-100 |
| 1750 | 5-6 | 7-12 | 13-17 | 18-20 | 21-100 |
| 1800 | 5-6 | 7-13 | 14-18 | 19-22 | 23-100 |
| 1900 | 5 | 6-11 | 12-16 | 17-19 | 20-100 |
| 2000 | 5 | 6-11 | 12-15 | 16-18 | 19-100 |
| 2100 | 5 | 5-10 | 11-15 | 16-18 | 19-100 |
| 2200 | | 5-10 | 11-14 | 15-17 | 18-100 |
| 2500 | | 5-9 | 10-12 | 13-15 | 16-100 |
| 3000 | | 5-7 | 8-10 | 11-12 | 13-100 |

k_v values for AT6, 2-row, spacing 60 mm

| Height [mm] | AT6, 2-row, spacing 60 mm | | | | |
|----------------|---------------------------|-----------------|-----------------|-----------------|-----------------|
| | Length [el.] | Length [el.] | Length [el.] | Length [el.] | Length [el.] |
| 210 | 5-17 | 18-36 | 37-52 | 53-62 | 63-100 |
| 280 | 5-17 | 18-36 | 37-52 | 53-62 | 63-100 |
| 300 | 5-17 | 18-36 | 37-52 | 53-62 | 63-100 |
| 350 | 5-15 | 16-32 | 33-46 | 47-54 | 55-100 |
| 400 | 5-12 | 13-28 | 29-40 | 41-46 | 47-100 |
| 450 | 5-11 | 12-24 | 25-36 | 37-42 | 43-100 |
| 500 | 5-10 | 11-22 | 23-32 | 33-38 | 39-100 |
| 550 | 5-9 | 10-20 | 21-30 | 31-36 | 37-100 |
| 600 | 5-9 | 10-20 | 21-28 | 29-34 | 35-100 |
| 650 | 5-8 | 9-19 | 20-26 | 27-30 | 31-100 |
| 700 | 5-8 | 9-17 | 18-24 | 25-30 | 31-100 |
| 750 | 5-7 | 8-16 | 17-22 | 23-28 | 29-100 |
| 800 | 5-7 | 8-15 | 16-22 | 23-26 | 27-100 |
| 900 | 5-6 | 7-14 | 15-20 | 21-24 | 25-100 |
| 1000 | 5 | 6-12 | 13-18 | 19-20 | 21-100 |
| 1100 | 5 | 6-11 | 12-16 | 17-20 | 21-100 |
| 1200 | 5 | 6-11 | 12-15 | 16-18 | 19-100 |
| 1250 | 5 | 5-10 | 11-14 | 15-17 | 18-100 |
| 1500 | | 5-8 | 9-12 | 13-15 | 16-100 |
| 1600 | | 5-8 | 9-11 | 12-14 | 15-100 |
| 1750 | | 5-7 | 8-10 | 11-13 | 14-100 |
| 1800 | | 5-7 | 8-10 | 11-12 | 13-100 |
| 1900 | | 5-7 | 8-10 | 11-12 | 13-100 |
| 2000 | | 5-6 | 7-9 | 10-11 | 12-100 |
| 2100 | | 5-6 | 7-9 | 10 | 11-100 |
| 2200 | | 5-6 | 7-8 | 9-10 | 11-100 |
| 2500 | | 5 | 6-8 | 9 | 10-100 |
| 3000 | | 5 | 5-6 | 7 | 8-100 |



k_v values for AT6, 1-row, spacing 65 mm

| Height [mm] | AT6, 1-row, spacing 65 mm | | | | |
|-------------|---------------------------|--------------|--------------|--------------|--------------|
| | Length [el.] | Length [el.] | Length [el.] | Length [el.] | Length [el.] |
| 210 | 5-26 | 27-58 | 59-92 | | |
| 280 | 5-26 | 27-58 | 59-92 | | |
| 300 | 5-26 | 27-58 | 59-92 | | |
| 350 | 5-24 | 25-52 | 53-92 | | |
| 400 | 5-20 | 21-44 | 45-62 | 63-92 | |
| 450 | 5-18 | 19-40 | 41-58 | 59-92 | |
| 500 | 5-17 | 18-36 | 37-52 | 53-62 | 63-92 |
| 550 | 5-15 | 16-34 | 35-48 | 49-58 | 59-92 |
| 600 | 5-14 | 15-32 | 33-44 | 45-54 | 55-92 |
| 650 | 5-13 | 14-30 | 31-42 | 43-50 | 51-92 |
| 700 | 5-12 | 13-28 | 29-40 | 41-46 | 47-92 |
| 750 | 5-12 | 13-26 | 27-36 | 37-44 | 45-92 |
| 800 | 5-11 | 12-24 | 25-34 | 35-42 | 43-92 |
| 900 | 5-10 | 11-22 | 23-32 | 33-38 | 39-92 |
| 1000 | 5-9 | 10-20 | 21-28 | 29-34 | 35-92 |
| 1100 | 5-8 | 9-19 | 20-26 | 27-32 | 33-92 |
| 1200 | 5-8 | 9-17 | 18-24 | 25-28 | 29-92 |
| 1250 | 5-7 | 8-16 | 17-22 | 23-28 | 29-92 |
| 1500 | 5-6 | 7-14 | 15-20 | 21-24 | 25-92 |
| 1600 | 5-6 | 7-13 | 14-19 | 20-22 | 23-92 |
| 1750 | 5 | 6-12 | 13-17 | 18-20 | 21-92 |
| 1800 | 5 | 6-12 | 13-18 | 18-20 | 21-92 |
| 1900 | 5 | 6-11 | 12-16 | 17-19 | 20-92 |
| 2000 | 5 | 5-10 | 11-15 | 16-18 | 19-92 |
| 2100 | | 5-10 | 11-14 | 15-17 | 18-92 |
| 2200 | | 5-10 | 11-14 | 15-16 | 17-92 |
| 2500 | | 5-8 | 9-12 | 13-14 | 15-92 |
| 3000 | | 5-7 | 8-10 | 11-12 | 13-92 |

k_v values for AT6, 2-row, spacing 65 mm

| Height [mm] | AT6, 2-row, spacing 65 mm | | | | |
|-------------|---------------------------|--------------|--------------|--------------|--------------|
| | Length [el.] | Length [el.] | Length [el.] | Length [el.] | Length [el.] |
| 210 | 5-16 | 17-36 | 37-50 | 51-60 | 61-92 |
| 280 | 5-16 | 17-36 | 37-50 | 51-60 | 61-92 |
| 300 | 5-16 | 17-36 | 37-50 | 51-60 | 61-92 |
| 350 | 5-14 | 15-32 | 33-44 | 45-54 | 55-92 |
| 400 | 5-12 | 13-26 | 27-38 | 39-46 | 47-92 |
| 450 | 5-11 | 12-24 | 25-34 | 35-42 | 43-92 |
| 500 | 5-10 | 11-22 | 23-32 | 33-38 | 39-92 |
| 550 | 5-9 | 10-20 | 21-30 | 31-36 | 37-92 |
| 600 | 5-9 | 10-19 | 20-28 | 29-32 | 33-92 |
| 650 | 5-8 | 9-18 | 19-26 | 27-30 | 31-92 |
| 700 | 5-7 | 8-17 | 18-24 | 25-28 | 29-92 |
| 750 | 5-7 | 8-16 | 17-22 | 23-26 | 27-92 |
| 800 | 5-7 | 8-15 | 16-20 | 21-26 | 27-92 |
| 900 | 5-6 | 7-13 | 14-19 | 20-22 | 23-92 |
| 1000 | 5 | 6-12 | 13-17 | 18-19 | 20-92 |
| 1100 | 5 | 6-11 | 12-16 | 17-19 | 20-92 |
| 1200 | 5 | 5-10 | 11-15 | 16-18 | 19-92 |
| 1250 | | 5-10 | 11-14 | 15-17 | 18-92 |
| 1500 | | 5-8 | 9-12 | 13-14 | 15-92 |
| 1600 | | 5-8 | 9-11 | 12-13 | 14-92 |
| 1750 | | 5-7 | 8-10 | 11-12 | 13-92 |
| 1800 | | 5-7 | 8-10 | 11-12 | 13-92 |
| 1900 | | 5-7 | 8-9 | 10-11 | 12-92 |
| 2000 | | 5-6 | 7-9 | 10-11 | 12-92 |
| 2100 | | 5-6 | 7-9 | 10 | 11-92 |
| 2200 | | 5-6 | 7-8 | 9-10 | 11-92 |
| 2500 | | 5 | 6-7 | 8-9 | 10-92 |
| 3000 | | 5 | 5-6 | 7 | 8-92 |

k_v values for AT6, 1-row, spacing 70 mm

| Height [mm] | AT6, 1-row, spacing 70 mm | | | | |
|-------------|---------------------------|--------------|--------------|--------------|--------------|
| | Length [el.] | Length [el.] | Length [el.] | Length [el.] | Length [el.] |
| 210 | 5-26 | 27-56 | 57-86 | | |
| 280 | 5-26 | 27-56 | 57-86 | | |
| 300 | 5-26 | 27-56 | 57-86 | | |
| 350 | 5-22 | 23-50 | 51-86 | | |
| 400 | 5-19 | 20-42 | 43-60 | 61-86 | |
| 450 | 5-18 | 19-38 | 39-56 | 57-66 | 67-86 |
| 500 | 5-16 | 17-36 | 37-50 | 51-60 | 61-86 |
| 550 | 5-15 | 16-32 | 33-46 | 47-56 | 57-86 |
| 600 | 5-14 | 15-30 | 31-44 | 45-52 | 53-86 |
| 650 | 5-13 | 14-28 | 29-40 | 41-48 | 49-86 |
| 700 | 5-12 | 13-26 | 27-38 | 39-46 | 47-86 |
| 750 | 5-11 | 12-26 | 27-36 | 37-42 | 43-86 |
| 800 | 5-11 | 12-24 | 25-34 | 35-40 | 41-86 |
| 900 | 5-10 | 11-22 | 23-30 | 31-36 | 37-86 |
| 1000 | 5-9 | 10-20 | 21-28 | 29-34 | 35-86 |
| 1100 | 5-8 | 9-18 | 19-26 | 27-30 | 31-86 |
| 1200 | 5-7 | 8-17 | 18-24 | 25-28 | 29-86 |
| 1250 | 5-7 | 8-16 | 17-22 | 23-26 | 27-86 |
| 1500 | 5-6 | 7-14 | 15-19 | 20-22 | 23-86 |
| 1600 | 5-6 | 7-13 | 14-18 | 19-22 | 23-86 |
| 1750 | 5 | 6-12 | 13-17 | 18-20 | 21-86 |
| 1800 | 5 | 6-12 | 13-17 | 18-20 | 21-86 |
| 1900 | 5 | 6-11 | 12-15 | 16-18 | 19-86 |
| 2000 | 5 | 5-10 | 11-15 | 16-18 | 19-86 |
| 2100 | | 5-10 | 11-14 | 15-17 | 18-86 |
| 2200 | | 5-9 | 10-13 | 14-16 | 17-86 |
| 2500 | | 5-8 | 9-12 | 13-14 | 15-86 |
| 3000 | | 5-7 | 8-10 | 11-12 | 13-86 |

k_v values for AT6, 2-row, spacing 70 mm

| Height [mm] | AT6, 2-row, spacing 70 mm | | | | |
|-------------|---------------------------|--------------|--------------|--------------|--------------|
| | Length [el.] | Length [el.] | Length [el.] | Length [el.] | Length [el.] |
| 210 | 5-16 | 17-34 | 35-50 | 51-60 | 61-86 |
| 280 | 5-16 | 17-34 | 35-50 | 51-60 | 61-86 |
| 300 | 5-16 | 17-34 | 35-50 | 51-60 | 61-86 |
| 350 | 5-14 | 15-30 | 31-44 | 45-52 | 53-86 |
| 400 | 5-12 | 13-26 | 27-38 | 39-44 | 45-86 |
| 450 | 5-11 | 12-24 | 25-34 | 35-40 | 41-86 |
| 500 | 5-10 | 11-22 | 23-30 | 31-38 | 39-86 |
| 550 | 5-9 | 10-20 | 21-28 | 29-34 | 35-86 |
| 600 | 5-8 | 9-19 | 20-26 | 27-32 | 33-86 |
| 650 | 5-8 | 9-18 | 19-24 | 25-30 | 31-86 |
| 700 | 5-7 | 8-17 | 18-24 | 25-28 | 29-86 |
| 750 | 5-7 | 8-16 | 17-22 | 23-26 | 27-86 |
| 800 | 5-6 | 7-15 | 16-20 | 21-24 | 25-86 |
| 900 | 5-6 | 7-13 | 14-19 | 20-22 | 23-86 |
| 1000 | 5 | 6-12 | 13-17 | 18-20 | 21-86 |
| 1100 | 5 | 6-11 | 12-16 | 17-19 | 20-86 |
| 1200 | 5 | 5-10 | 11-14 | 15-17 | 18-86 |
| 1250 | | 5-10 | 11-14 | 15-17 | 18-86 |
| 1500 | | 5-8 | 9-12 | 13-14 | 15-86 |
| 1600 | | 5-8 | 9-11 | 12-13 | 14-86 |
| 1750 | | 5-7 | 8-10 | 11-12 | 13-86 |
| 1800 | | 5-7 | 8-10 | 11-12 | 13-86 |
| 1900 | | 5-6 | 7-9 | 10-11 | 12-86 |
| 2000 | | 5-6 | 7-9 | 10-11 | 12-86 |
| 2100 | | 5-6 | 7-8 | 9-10 | 11-86 |
| 2200 | | 5 | 6-8 | 9-10 | 11-86 |
| 2500 | | 5 | 6-7 | 8 | 9-86 |
| 3000 | | 5 | 5-6 | 7 | 8-86 |



k_v values for AT7, 1-row, spacing 30 mm

| Height [mm] | AT7, 1-row, spacing 30 mm | | | | |
|-------------|---------------------------|--------------|--------------|--------------|--------------|
| | Length [el.] | Length [el.] | Length [el.] | Length [el.] | Length [el.] |
| 210 | 5-27 | 28-59 | 60-199 | | |
| 280 | 5-27 | 28-59 | 60-199 | | |
| 300 | 5-27 | 28-59 | 60-199 | | |
| 350 | 5-27 | 28-59 | 60-199 | | |
| 400 | 5-25 | 26-55 | 56-199 | | |
| 450 | 5-23 | 24-49 | 50-199 | | |
| 500 | 5-21 | 22-45 | 46-65 | 66-199 | |
| 550 | 5-20 | 21-43 | 44-59 | 60-199 | |
| 600 | 5-18 | 19-39 | 40-55 | 56-67 | 68-199 |
| 650 | 5-17 | 18-37 | 38-53 | 54-63 | 64-199 |
| 700 | 5-16 | 17-35 | 36-49 | 50-59 | 60-199 |
| 750 | 5-16 | 17-33 | 34-47 | 48-55 | 56-199 |
| 800 | 5-15 | 16-31 | 32-45 | 46-53 | 54-199 |
| 900 | 5-13 | 14-29 | 30-41 | 42-47 | 48-199 |
| 1000 | 5-12 | 13-25 | 26-37 | 38-43 | 44-199 |
| 1100 | 5-11 | 12-23 | 24-33 | 34-39 | 40-199 |
| 1200 | 5-10 | 11-21 | 22-31 | 32-37 | 38-199 |
| 1250 | 5-10 | 11-21 | 22-29 | 30-35 | 36-199 |
| 1500 | 5-8 | 9-18 | 19-25 | 26-29 | 30-199 |
| 1600 | 5-8 | 9-17 | 18-23 | 24-27 | 28-199 |
| 1750 | 5-7 | 8-15 | 16-21 | 22-25 | 26-199 |
| 1800 | 5-7 | 8-15 | 16-21 | 22-23 | 24-199 |
| 1900 | 5-7 | 8-14 | 15-20 | 21-23 | 24-199 |
| 2000 | 5-6 | 7-14 | 15-19 | 20-21 | 22-199 |
| 2100 | 5-6 | 7-13 | 14-18 | 19-21 | 22-199 |
| 2200 | 5-6 | 7-12 | 13-17 | 18-20 | 21-199 |
| 2500 | | 5-11 | 12-15 | 16-18 | 19-199 |
| 3000 | | 5-9 | 10-13 | 14-15 | 16-199 |

k_v values for AT7, 1-row, spacing 30 mm

| Height [mm] | AT7, 2-row, spacing 30 mm | | | | |
|-------------|---------------------------|--------------|--------------|--------------|--------------|
| | Length [el.] | Length [el.] | Length [el.] | Length [el.] | Length [el.] |
| 210 | 5-16 | 17-35 | 36-49 | 50-59 | 60-199 |
| 280 | 5-16 | 17-35 | 36-49 | 50-59 | 60-199 |
| 300 | 5-16 | 17-35 | 36-49 | 50-59 | 60-199 |
| 350 | 5-16 | 17-35 | 36-49 | 50-59 | 60-199 |
| 400 | 5-15 | 16-31 | 32-43 | 44-51 | 52-199 |
| 450 | 5-13 | 14-29 | 30-41 | 42-47 | 48-199 |
| 500 | 5-12 | 13-27 | 28-37 | 38-45 | 46-199 |
| 550 | 5-12 | 13-25 | 26-35 | 36-41 | 42-199 |
| 600 | 5-11 | 12-23 | 24-31 | 32-39 | 40-199 |
| 650 | 5-10 | 11-21 | 22-29 | 30-37 | 38-199 |
| 700 | 5-10 | 11-21 | 22-27 | 28-35 | 36-199 |
| 750 | 5-9 | 10-20 | 21-25 | 26-33 | 34-199 |
| 800 | 5-9 | 10-19 | 20-23 | 24-31 | 32-199 |
| 900 | 5-8 | 9-17 | 18-21 | 22-27 | 28-199 |
| 1000 | 5-7 | 8-15 | 16-20 | 21-25 | 26-199 |
| 1100 | 5-7 | 8-14 | 15-19 | 20-23 | 24-199 |
| 1200 | 5-6 | 7-13 | 14-18 | 19-21 | 22-199 |
| 1250 | 5-6 | 7-13 | 14-15 | 16-21 | 22-199 |
| 1500 | | 5-11 | 12-14 | 15-18 | 19-199 |
| 1600 | | 5-10 | 11-13 | 14-17 | 18-199 |
| 1750 | | 5-9 | 10-13 | 14-16 | 17-199 |
| 1800 | | 5-8 | 9-12 | 13-14 | 15-199 |
| 1900 | | 5-9 | 10-12 | 13-14 | 15-199 |
| 2000 | | 5-8 | 9-12 | 13-14 | 15-199 |
| 2100 | | 5-8 | 9-11 | 12-13 | 14-199 |
| 2200 | | 5-8 | 9-11 | 12-13 | 14-199 |
| 2500 | | 5-7 | 8-10 | 11 | 12-199 |
| 3000 | | 5-6 | 7 | 8-10 | 11-199 |

k_v values for AT7, 1-row, spacing 35 mm

| Height [mm] | AT7, 1-row, spacing 35 mm | | | | |
|-------------|---------------------------|--------------|--------------|--------------|--------------|
| | Length [el.] | Length [el.] | Length [el.] | Length [el.] | Length [el.] |
| 210 | 5-26 | 27-56 | 57-171 | | |
| 280 | 5-26 | 27-56 | 57-171 | | |
| 300 | 5-26 | 27-56 | 57-171 | | |
| 350 | 5-26 | 27-56 | 57-171 | | |
| 400 | 5-22 | 23-50 | 51-171 | | |
| 450 | 5-20 | 21-46 | 47-171 | | |
| 500 | 5-19 | 20-42 | 43-60 | 61-171 | |
| 550 | 5-18 | 19-40 | 41-56 | 57-66 | 67-171 |
| 600 | 5-17 | 18-36 | 37-52 | 53-62 | 63-171 |
| 650 | 5-16 | 17-34 | 35-48 | 49-58 | 59-171 |
| 700 | 5-15 | 16-32 | 33-46 | 47-54 | 55-171 |
| 750 | 5-14 | 15-30 | 31-44 | 45-52 | 53-171 |
| 800 | 5-13 | 14-28 | 29-42 | 43-50 | 51-171 |
| 900 | 5-12 | 13-26 | 27-38 | 39-44 | 45-171 |
| 1000 | 5-11 | 12-24 | 25-32 | 33-40 | 41-171 |
| 1100 | 5-10 | 11-22 | 23-34 | 35-36 | 37-171 |
| 1200 | 5-9 | 10-20 | 21-30 | 31-34 | 35-171 |
| 1250 | 5-9 | 10-19 | 20-26 | 27-32 | 33-171 |
| 1500 | 5-7 | 8-16 | 17-22 | 23-26 | 27-171 |
| 1600 | 5-7 | 8-15 | 16-20 | 21-26 | 27-171 |
| 1750 | 5-6 | 7-14 | 15-20 | 21-22 | 23-171 |
| 1800 | 5-6 | 7-13 | 14-19 | 20-22 | 23-171 |
| 1900 | 5 | 6-13 | 14-18 | 19-20 | 21-171 |
| 2000 | 5 | 6-12 | 13-17 | 18-20 | 21-171 |
| 2100 | 5 | 6-11 | 12-16 | 17-19 | 20-171 |
| 2200 | 5 | 6-11 | 12-15 | 16-18 | 19-171 |
| 2500 | | 5-9 | 10-13 | 14-16 | 17-171 |
| 3000 | | 5-8 | 9-11 | 12-13 | 14-171 |

k_v values for AT7, 2-row, spacing 35 mm

| Height [mm] | AT7, 2-row, spacing 35 mm | | | | |
|-------------|---------------------------|--------------|--------------|--------------|--------------|
| | Length [el.] | Length [el.] | Length [el.] | Length [el.] | Length [el.] |
| 210 | 5-15 | 16-34 | 35-48 | 49-56 | 57-171 |
| 280 | 5-15 | 16-34 | 35-48 | 49-56 | 57-171 |
| 300 | 5-15 | 16-34 | 35-48 | 49-56 | 57-171 |
| 350 | 5-15 | 16-34 | 35-48 | 49-56 | 57-171 |
| 400 | 5-13 | 14-28 | 29-40 | 41-48 | 49-171 |
| 450 | 5-12 | 13-26 | 27-38 | 39-44 | 45-171 |
| 500 | 5-11 | 12-24 | 25-34 | 35-42 | 43-171 |
| 550 | 5-10 | 11-22 | 23-32 | 33-38 | 39-171 |
| 600 | 5-9 | 10-20 | 21-30 | 31-36 | 37-171 |
| 650 | 5-9 | 10-20 | 21-28 | 29-34 | 35-171 |
| 700 | 5-8 | 9-19 | 20-26 | 27-32 | 33-171 |
| 750 | 5-8 | 9-18 | 19-24 | 25-30 | 31-171 |
| 800 | 5-7 | 8-17 | 18-24 | 25-28 | 29-171 |
| 900 | 5-7 | 8-15 | 16-22 | 23-24 | 25-171 |
| 1000 | 5-6 | 7-14 | 15-20 | 21-22 | 23-171 |
| 1100 | 5-6 | 7-13 | 14-18 | 19-20 | 21-171 |
| 1200 | 5 | 6-12 | 13-17 | 18-19 | 20-171 |
| 1250 | 5 | 6-11 | 12-16 | 17-19 | 20-171 |
| 1500 | | 5-9 | 10-13 | 14-16 | 17-171 |
| 1600 | | 5-9 | 10-13 | 14-15 | 16-171 |
| 1750 | | 5-8 | 9-12 | 13-14 | 15-171 |
| 1800 | | 5-7 | 8-10 | 11-12 | 13-171 |
| 1900 | | 5-7 | 8-11 | 12-13 | 14-171 |
| 2000 | | 5-7 | 8-10 | 11-12 | 13-171 |
| 2100 | | 5-7 | 8-10 | 11-12 | 13-171 |
| 2200 | | 5-6 | 7-9 | 10-11 | 12-171 |
| 2500 | | 5-6 | 7-8 | 9-10 | 11-171 |
| 3000 | | 5 | 6-7 | 8 | 9-171 |



k_v values for AT7, 1-row, spacing 40 mm

| Height [mm] | AT7, 1-row, spacing 40 mm | | | | |
|-------------|---------------------------|--------------|--------------|--------------|--------------|
| | Length [el.] | Length [el.] | Length [el.] | Length [el.] | Length [el.] |
| 210 | 5-28 | 29-64 | 65-149 | | |
| 280 | 5-28 | 29-64 | 65-149 | | |
| 300 | 5-28 | 29-64 | 65-149 | | |
| 350 | 5-24 | 25-54 | 55-149 | | |
| 400 | 5-22 | 23-48 | 49-149 | | |
| 450 | 5-20 | 21-44 | 45-62 | 63-149 | |
| 500 | 5-18 | 19-40 | 41-58 | 59-149 | |
| 550 | 5-17 | 18-38 | 39-54 | 55-64 | 65-149 |
| 600 | 5-16 | 17-36 | 37-50 | 51-60 | 61-149 |
| 650 | 5-15 | 16-32 | 33-46 | 47-56 | 57-149 |
| 700 | 5-14 | 15-30 | 31-44 | 45-52 | 53-149 |
| 750 | 5-13 | 14-30 | 31-42 | 43-50 | 51-149 |
| 800 | 5-12 | 13-28 | 29-40 | 41-46 | 47-149 |
| 900 | 5-11 | 12-24 | 25-36 | 37-42 | 43-149 |
| 1000 | 5-10 | 11-22 | 23-32 | 33-38 | 39-149 |
| 1100 | 5-9 | 10-20 | 21-30 | 31-36 | 37-149 |
| 1200 | 5-8 | 9-19 | 20-26 | 27-32 | 33-149 |
| 1250 | 5-8 | 9-19 | 20-26 | 27-32 | 33-149 |
| 1500 | 5-7 | 8-15 | 16-22 | 23-26 | 27-149 |
| 1600 | 5-6 | 7-14 | 15-20 | 21-24 | 25-149 |
| 1750 | 5-6 | 7-13 | 14-19 | 20-22 | 23-149 |
| 1800 | 5-6 | 7-13 | 14-19 | 20-22 | 23-149 |
| 1900 | 5 | 6-12 | 13-17 | 18-20 | 21-149 |
| 2000 | 5 | 6-11 | 12-16 | 17-20 | 21-149 |
| 2100 | 5 | 6-11 | 12-15 | 16-19 | 20-149 |
| 2200 | | 5-10 | 11-15 | 16-18 | 19-149 |
| 2500 | | 5-9 | 10-13 | 14-15 | 16-149 |
| 3000 | | 5-7 | 8-11 | 12-13 | 14-149 |

k_v values for AT7, 2-row, spacing 40 mm

| Height [mm] | AT7, 2-row, spacing 40 mm | | | | |
|-------------|---------------------------|--------------|--------------|--------------|--------------|
| | Length [el.] | Length [el.] | Length [el.] | Length [el.] | Length [el.] |
| 210 | 5-17 | 18-38 | 39-54 | 55-64 | 65-149 |
| 280 | 5-17 | 18-38 | 39-54 | 55-64 | 65-149 |
| 300 | 5-17 | 18-38 | 39-54 | 55-64 | 65-149 |
| 350 | 5-15 | 16-32 | 33-46 | 47-54 | 55-149 |
| 400 | 5-12 | 13-28 | 29-40 | 41-46 | 47-149 |
| 450 | 5-11 | 12-26 | 27-36 | 37-44 | 45-149 |
| 500 | 5-11 | 12-24 | 25-34 | 35-40 | 41-149 |
| 550 | 5-10 | 11-22 | 23-30 | 31-38 | 39-149 |
| 600 | 5-9 | 10-20 | 21-28 | 29-34 | 35-149 |
| 650 | 5-9 | 10-19 | 20-28 | 29-32 | 33-149 |
| 700 | 5-8 | 9-18 | 19-26 | 27-30 | 31-149 |
| 750 | 5-8 | 9-17 | 18-24 | 25-28 | 29-149 |
| 800 | 5-7 | 8-16 | 17-22 | 23-28 | 29-149 |
| 900 | 5-6 | 7-15 | 16-20 | 21-24 | 25-149 |
| 1000 | 5-6 | 7-13 | 14-19 | 20-22 | 23-149 |
| 1100 | 5 | 6-12 | 13-17 | 18-20 | 21-149 |
| 1200 | 5 | 6-11 | 12-16 | 17-19 | 20-149 |
| 1250 | 5 | 6-11 | 12-15 | 16-18 | 19-149 |
| 1500 | | 5-9 | 10-13 | 14-15 | 16-149 |
| 1600 | | 5-8 | 9-12 | 13-15 | 16-149 |
| 1750 | | 5-8 | 9-11 | 12-13 | 14-149 |
| 1800 | | 5-7 | 8-10 | 11-12 | 13-149 |
| 1900 | | 5-7 | 8-10 | 11-12 | 13-149 |
| 2000 | | 5-7 | 8-10 | 11-12 | 13-149 |
| 2100 | | 5-6 | 7-9 | 10-11 | 12-149 |
| 2200 | | 5-6 | 7-9 | 10-11 | 12-149 |
| 2500 | | 5 | 6-8 | 9 | 10-149 |
| 3000 | | | 5-6 | 7-8 | 9-149 |

k_v values for AT7, 1-row, spacing 45 mm

| Height [mm] | AT7, 1-row, spacing 45 mm | | | | |
|----------------|---------------------------|-----------------|-----------------|-----------------|-----------------|
| | Length [el.] | Length [el.] | Length [el.] | Length [el.] | Length [el.] |
| 210 | 5-28 | 29-62 | 63-133 | | |
| 280 | 5-28 | 29-62 | 63-133 | | |
| 300 | 5-28 | 29-62 | 63-133 | | |
| 350 | 5-24 | 25-52 | 53-133 | | |
| 400 | 5-20 | 21-46 | 47-66 | 67-133 | |
| 450 | 5-19 | 20-42 | 43-60 | 61-133 | |
| 500 | 5-18 | 19-38 | 39-56 | 57-66 | 67-133 |
| 550 | 5-16 | 17-36 | 37-52 | 53-62 | 63-133 |
| 600 | 5-15 | 16-34 | 35-48 | 49-58 | 59-133 |
| 650 | 5-14 | 15-32 | 33-44 | 45-54 | 55-133 |
| 700 | 5-13 | 14-30 | 31-42 | 43-50 | 51-133 |
| 750 | 5-13 | 14-28 | 29-40 | 41-48 | 49-133 |
| 800 | 5-12 | 13-26 | 27-38 | 39-46 | 47-133 |
| 900 | 5-11 | 12-24 | 25-34 | 35-40 | 41-133 |
| 1000 | 5-10 | 11-22 | 23-32 | 33-38 | 39-133 |
| 1100 | 5-9 | 10-20 | 21-28 | 29-34 | 35-133 |
| 1200 | 5-8 | 9-19 | 20-26 | 27-32 | 33-133 |
| 1250 | 5-8 | 9-18 | 19-24 | 25-30 | 31-133 |
| 1500 | 5-7 | 8-15 | 16-20 | 21-24 | 25-133 |
| 1600 | 5-6 | 7-14 | 15-20 | 21-24 | 25-133 |
| 1750 | 5-6 | 7-13 | 14-18 | 19-22 | 23-133 |
| 1800 | 5 | 6-13 | 14-18 | 19-20 | 21-133 |
| 1900 | 5 | 6-12 | 13-17 | 18-20 | 21-133 |
| 2000 | 5 | 6-11 | 12-16 | 17-19 | 20-133 |
| 2100 | | 5-10 | 11-15 | 16-18 | 19-133 |
| 2200 | | 5-10 | 11-14 | 15-17 | 18-133 |
| 2500 | | 5-9 | 10-12 | 13-15 | 16-133 |
| 3000 | | 5-7 | 8-10 | 11-12 | 13-133 |

k_v values for AT7, 2-row, spacing 45 mm

| Height [mm] | AT7, 2-row, spacing 45 mm | | | | |
|----------------|---------------------------|-----------------|-----------------|-----------------|-----------------|
| | Length [el.] | Length [el.] | Length [el.] | Length [el.] | Length [el.] |
| 210 | 5-17 | 18-36 | 37-52 | 53-62 | 63-133 |
| 280 | 5-17 | 18-36 | 37-52 | 53-62 | 63-133 |
| 300 | 5-17 | 18-36 | 37-52 | 53-62 | 63-133 |
| 350 | 5-14 | 15-32 | 33-44 | 45-54 | 55-133 |
| 400 | 5-12 | 13-26 | 27-38 | 39-46 | 47-133 |
| 450 | 5-11 | 12-24 | 25-34 | 35-42 | 43-133 |
| 500 | 5-10 | 11-22 | 23-32 | 33-38 | 39-133 |
| 550 | 5-9 | 10-20 | 21-30 | 31-36 | 37-133 |
| 600 | 5-9 | 10-20 | 21-28 | 29-34 | 35-133 |
| 650 | 5-8 | 9-19 | 20-26 | 27-32 | 33-133 |
| 700 | 5-8 | 9-18 | 19-24 | 25-28 | 29-133 |
| 750 | 5-7 | 8-17 | 18-24 | 25-28 | 29-133 |
| 800 | 5-7 | 8-16 | 17-22 | 23-26 | 27-133 |
| 900 | 5-6 | 7-14 | 15-20 | 21-24 | 25-133 |
| 1000 | 5-6 | 7-13 | 14-18 | 19-22 | 23-133 |
| 1100 | 5 | 6-12 | 13-17 | 18-20 | 21-133 |
| 1200 | 5 | 6-11 | 12-15 | 16-18 | 19-133 |
| 1250 | | 5-10 | 11-15 | 16-18 | 19-133 |
| 1500 | | 5-9 | 10-12 | 13-15 | 16-133 |
| 1600 | | 5-8 | 9-12 | 13-14 | 15-133 |
| 1750 | | 5-7 | 8-11 | 12-13 | 14-133 |
| 1800 | | 5-7 | 8-10 | 11-12 | 13-133 |
| 1900 | | 5-7 | 8-10 | 11-12 | 13-133 |
| 2000 | | 5-6 | 7-9 | 10-11 | 12-133 |
| 2100 | | 5-6 | 7-9 | 10-11 | 12-133 |
| 2200 | | 5-6 | 7-8 | 9-10 | 11-133 |
| 2500 | | 5 | 6-7 | 8-9 | 10-133 |
| 3000 | | | 5-6 | 7-8 | 9-133 |



k_v values for AT7, 1-row, spacing 50 mm

| Height [mm] | AT7, 1-row, spacing 50 mm | | | | |
|-------------|---------------------------|--------------|--------------|--------------|--------------|
| | Length [el.] | Length [el.] | Length [el.] | Length [el.] | Length [el.] |
| 210 | 5-26 | 27-60 | 61-120 | | |
| 280 | 5-26 | 27-60 | 61-120 | | |
| 300 | 5-26 | 27-60 | 61-120 | | |
| 350 | 5-22 | 23-52 | 53-120 | | |
| 400 | 5-20 | 21-44 | 45-64 | 65-120 | |
| 450 | 5-19 | 20-40 | 41-58 | 59-120 | |
| 500 | 5-17 | 18-38 | 39-54 | 55-64 | 65-120 |
| 550 | 5-16 | 17-34 | 35-50 | 51-60 | 61-120 |
| 600 | 5-15 | 16-32 | 33-46 | 47-54 | 55-120 |
| 650 | 5-14 | 15-30 | 31-44 | 45-52 | 53-120 |
| 700 | 5-13 | 14-28 | 29-40 | 41-48 | 49-120 |
| 750 | 5-12 | 13-26 | 27-38 | 39-46 | 47-120 |
| 800 | 5-12 | 13-26 | 27-36 | 37-44 | 45-120 |
| 900 | 5-10 | 11-24 | 25-32 | 33-40 | 41-120 |
| 1000 | 5-10 | 11-20 | 21-30 | 31-36 | 37-120 |
| 1100 | 5-9 | 10-20 | 21-28 | 29-32 | 33-120 |
| 1200 | 5-8 | 9-18 | 19-26 | 27-30 | 31-120 |
| 1250 | 5-8 | 9-17 | 18-24 | 25-28 | 29-120 |
| 1500 | 5-6 | 7-14 | 15-20 | 21-24 | 25-120 |
| 1600 | 5-6 | 7-14 | 15-19 | 20-22 | 23-120 |
| 1750 | 5 | 6-12 | 13-18 | 19-20 | 21-120 |
| 1800 | 5 | 6-12 | 13-17 | 18-20 | 21-120 |
| 1900 | 5 | 6-11 | 12-16 | 17-19 | 20-120 |
| 2000 | 5 | 6-11 | 12-15 | 16-18 | 19-120 |
| 2100 | | 5-10 | 11-14 | 15-17 | 18-120 |
| 2200 | | 5-10 | 11-14 | 15-17 | 18-120 |
| 2500 | | 5-8 | 9-12 | 13-14 | 15-120 |
| 3000 | | 5-7 | 8-10 | 11-12 | 13-120 |

k_v values for AT7, 2-row, spacing 50 mm

| Height [mm] | AT7, 2-row, spacing 50 mm | | | | |
|-------------|---------------------------|--------------|--------------|--------------|--------------|
| | Length [el.] | Length [el.] | Length [el.] | Length [el.] | Length [el.] |
| 210 | 5-16 | 17-36 | 37-50 | 51-60 | 61-120 |
| 280 | 5-16 | 17-36 | 37-50 | 51-60 | 61-120 |
| 300 | 5-16 | 17-36 | 37-50 | 51-60 | 61-120 |
| 350 | 5-14 | 15-30 | 31-44 | 45-52 | 53-120 |
| 400 | 5-12 | 13-26 | 27-36 | 37-44 | 45-120 |
| 450 | 5-11 | 12-24 | 25-34 | 35-40 | 41-120 |
| 500 | 5-10 | 11-22 | 23-32 | 33-38 | 39-120 |
| 550 | 5-9 | 10-20 | 21-30 | 31-34 | 35-120 |
| 600 | 5-9 | 10-19 | 20-28 | 29-32 | 33-120 |
| 650 | 5-8 | 9-18 | 19-26 | 27-30 | 31-120 |
| 700 | 5-8 | 9-17 | 18-24 | 25-28 | 29-120 |
| 750 | 5-7 | 8-16 | 17-22 | 23-28 | 29-120 |
| 800 | 5-7 | 8-15 | 16-22 | 23-26 | 27-120 |
| 900 | 5-6 | 7-14 | 15-20 | 21-24 | 25-120 |
| 1000 | 5 | 6-13 | 14-18 | 19-20 | 21-120 |
| 1100 | 5 | 6-11 | 12-16 | 17-19 | 20-120 |
| 1200 | | 5-10 | 11-15 | 16-18 | 19-120 |
| 1250 | | 5-10 | 11-14 | 15-17 | 18-120 |
| 1500 | | 5-8 | 9-12 | 13-14 | 15-120 |
| 1600 | | 5-8 | 9-11 | 12-13 | 14-120 |
| 1750 | | 5-7 | 8-10 | 11-12 | 13-120 |
| 1800 | | 5-7 | 8-10 | 11-12 | 13-120 |
| 1900 | | 5-7 | 8-9 | 10-11 | 12-120 |
| 2000 | | 5-6 | 7-9 | 10-11 | 12-120 |
| 2100 | | 5-6 | 7-9 | 10 | 11-120 |
| 2200 | | 5-6 | 7-8 | 9-10 | 11-120 |
| 2500 | | 5 | 6-7 | 8-9 | 10-120 |
| 3000 | | | 5-6 | 7 | 8-120 |

k_v values for AT7, 1-row, spacing 55 mm

| Height [mm] | AT7, 1-row, spacing 55 mm | | | | |
|----------------|---------------------------|-----------------|-----------------|-----------------|-----------------|
| | Length [el.] | Length [el.] | Length [el.] | Length [el.] | Length [el.] |
| 210 | 5-26 | 27-56 | 57-109 | | |
| 280 | 5-26 | 27-56 | 57-109 | | |
| 300 | 5-26 | 27-56 | 57-109 | | |
| 350 | 5-22 | 23-50 | 51-109 | | |
| 400 | 5-20 | 21-44 | 45-62 | 63-109 | |
| 450 | 5-18 | 19-40 | 41-56 | 57-109 | |
| 500 | 5-17 | 18-36 | 37-52 | 53-62 | 63-109 |
| 550 | 5-15 | 16-34 | 35-48 | 49-58 | 59-109 |
| 600 | 5-14 | 15-32 | 33-44 | 45-54 | 55-109 |
| 650 | 5-13 | 14-30 | 31-42 | 43-50 | 51-109 |
| 700 | 5-13 | 14-28 | 29-40 | 41-48 | 49-109 |
| 750 | 5-12 | 13-26 | 27-38 | 39-44 | 45-109 |
| 800 | 5-11 | 12-24 | 25-36 | 37-42 | 43-109 |
| 900 | 5-10 | 11-22 | 23-32 | 33-38 | 39-109 |
| 1000 | 5-9 | 10-20 | 21-30 | 31-34 | 35-109 |
| 1100 | 5-8 | 9-19 | 20-26 | 27-32 | 33-109 |
| 1200 | 5-8 | 9-17 | 18-24 | 25-30 | 31-109 |
| 1250 | 5-7 | 8-17 | 18-24 | 25-28 | 29-109 |
| 1500 | 5-6 | 7-14 | 15-20 | 21-24 | 25-109 |
| 1600 | 5-6 | 7-13 | 14-19 | 20-22 | 23-109 |
| 1750 | 5 | 6-12 | 13-17 | 18-20 | 21-109 |
| 1800 | 5 | 6-12 | 13-17 | 18-20 | 21-109 |
| 1900 | 5 | 6-11 | 12-16 | 17-19 | 20-109 |
| 2000 | | 5-10 | 11-15 | 16-18 | 19-109 |
| 2100 | | 5-10 | 11-14 | 15-17 | 18-109 |
| 2200 | | 5-9 | 10-13 | 14-16 | 17-109 |
| 2500 | | 5-8 | 9-12 | 13-14 | 15-109 |
| 3000 | | 5-7 | 8-10 | 11 | 12-109 |

k_v values for AT7, 2-row, spacing 55 mm

| Height [mm] | AT7, 2-row, spacing 55 mm | | | | |
|----------------|---------------------------|-----------------|-----------------|-----------------|-----------------|
| | Length [el.] | Length [el.] | Length [el.] | Length [el.] | Length [el.] |
| 210 | 5-16 | 17-34 | 35-50 | 51-58 | 59-109 |
| 280 | 5-16 | 17-34 | 35-50 | 51-58 | 59-109 |
| 300 | 5-16 | 17-34 | 35-50 | 51-58 | 59-109 |
| 350 | 5-13 | 14-30 | 31-42 | 43-50 | 51-109 |
| 400 | 5-11 | 12-26 | 27-36 | 37-42 | 43-109 |
| 450 | 5-10 | 11-24 | 25-32 | 33-40 | 41-109 |
| 500 | 5-10 | 11-22 | 23-30 | 31-36 | 37-109 |
| 550 | 5-9 | 10-20 | 21-28 | 29-34 | 35-109 |
| 600 | 5-8 | 9-19 | 20-26 | 27-32 | 33-109 |
| 650 | 5-8 | 9-18 | 19-24 | 25-30 | 31-109 |
| 700 | 5-7 | 8-17 | 18-24 | 25-28 | 29-109 |
| 750 | 5-7 | 8-16 | 17-22 | 23-26 | 27-109 |
| 800 | 5-7 | 8-15 | 16-20 | 21-24 | 25-109 |
| 900 | 5-6 | 7-13 | 14-19 | 20-22 | 23-109 |
| 1000 | 5 | 6-12 | 13-17 | 18-20 | 21-109 |
| 1100 | 5 | 6-11 | 12-16 | 17-19 | 20-109 |
| 1200 | | 5-10 | 11-14 | 15-17 | 18-109 |
| 1250 | | 5-10 | 11-14 | 15-17 | 18-109 |
| 1500 | | 5-8 | 9-12 | 13-14 | 15-109 |
| 1600 | | 5-8 | 9-11 | 12-13 | 14-109 |
| 1750 | | 5-7 | 8-10 | 11-12 | 13-109 |
| 1800 | | 5-7 | 8-10 | 11 | 12-109 |
| 1900 | | 5-6 | 7-9 | 10-11 | 12-109 |
| 2000 | | 5-6 | 7-9 | 10 | 11-109 |
| 2100 | | 5-6 | 7-8 | 9-10 | 11-109 |
| 2200 | | 5 | 6-8 | 9-10 | 11-109 |
| 2500 | | 5 | 6-7 | 8 | 9-109 |
| 3000 | | | 5-6 | 7 | 8-109 |



k_v values for AT7, 1-row, spacing 60 mm

| Height [mm] | AT7, 1-row, spacing 60 mm | | | | |
|-------------|---------------------------|--------------|--------------|--------------|--------------|
| | Length [el.] | Length [el.] | Length [el.] | Length [el.] | Length [el.] |
| 210 | 5-24 | 25-54 | 55-100 | | |
| 280 | 5-24 | 25-54 | 55-100 | | |
| 300 | 5-24 | 25-54 | 55-100 | | |
| 350 | 5-22 | 23-48 | 49-100 | | |
| 400 | 5-19 | 20-42 | 43-60 | 61-100 | |
| 450 | 5-17 | 18-38 | 39-54 | 55-66 | 67-100 |
| 500 | 5-16 | 17-36 | 37-50 | 51-60 | 61-100 |
| 550 | 5-15 | 16-32 | 33-46 | 47-56 | 57-100 |
| 600 | 5-14 | 15-30 | 31-44 | 45-52 | 53-100 |
| 650 | 5-13 | 14-28 | 29-40 | 41-48 | 49-100 |
| 700 | 5-12 | 13-26 | 27-38 | 39-46 | 47-100 |
| 750 | 5-11 | 12-26 | 27-36 | 37-44 | 45-100 |
| 800 | 5-11 | 12-24 | 25-34 | 35-42 | 43-100 |
| 900 | 5-10 | 11-22 | 23-30 | 31-38 | 39-100 |
| 1000 | 5-9 | 10-20 | 21-28 | 29-34 | 35-100 |
| 1100 | 5-8 | 9-18 | 19-26 | 27-30 | 31-100 |
| 1200 | 5-7 | 8-17 | 18-24 | 25-28 | 29-100 |
| 1250 | 5-7 | 8-16 | 17-22 | 23-28 | 29-100 |
| 1500 | 5-6 | 7-14 | 15-19 | 20-22 | 23-100 |
| 1600 | 5-6 | 7-13 | 14-18 | 19-22 | 23-100 |
| 1750 | 5 | 6-12 | 13-17 | 18-20 | 21-100 |
| 1800 | 5 | 6-11 | 12-16 | 17-20 | 21-100 |
| 1900 | 5 | 6-11 | 12-15 | 16-18 | 19-100 |
| 2000 | | 5-10 | 11-14 | 15-17 | 18-100 |
| 2100 | | 5-10 | 11-14 | 15-16 | 17-100 |
| 2200 | | 5-9 | 10-13 | 14-16 | 17-100 |
| 2500 | | 5-8 | 9-11 | 12-14 | 15-100 |
| 3000 | | 5-6 | 7-9 | 10-11 | 12-100 |

k_v values for AT7, 2-row, spacing 60 mm

| Height [mm] | AT7, 2-row, spacing 60 mm | | | | |
|-------------|---------------------------|--------------|--------------|--------------|--------------|
| | Length [el.] | Length [el.] | Length [el.] | Length [el.] | Length [el.] |
| 210 | 5-15 | 16-34 | 35-48 | 49-58 | 59-100 |
| 280 | 5-15 | 16-34 | 35-48 | 49-58 | 59-100 |
| 300 | 5-15 | 16-34 | 35-48 | 49-58 | 59-100 |
| 350 | 5-13 | 14-28 | 29-42 | 43-50 | 51-100 |
| 400 | 5-11 | 12-24 | 25-34 | 35-42 | 43-100 |
| 450 | 5-10 | 11-22 | 23-32 | 33-38 | 39-100 |
| 500 | 5-9 | 10-20 | 21-30 | 31-36 | 37-100 |
| 550 | 5-9 | 10-20 | 21-28 | 29-34 | 35-100 |
| 600 | 5-8 | 9-18 | 19-26 | 27-30 | 31-100 |
| 650 | 5-8 | 9-17 | 18-24 | 25-30 | 31-100 |
| 700 | 5-7 | 8-16 | 17-22 | 23-28 | 29-100 |
| 750 | 5-7 | 8-15 | 16-22 | 23-26 | 27-100 |
| 800 | 5-6 | 7-15 | 16-20 | 21-24 | 25-100 |
| 900 | 5-6 | 7-13 | 14-19 | 20-22 | 23-100 |
| 1000 | 5 | 6-11 | 12-17 | 18-20 | 21-100 |
| 1100 | 5 | 6-11 | 12-15 | 16-18 | 19-100 |
| 1200 | | 5-10 | 11-14 | 15-17 | 18-100 |
| 1250 | | 5-9 | 10-13 | 14-16 | 17-100 |
| 1500 | | 5-8 | 9-11 | 12-14 | 15-100 |
| 1600 | | 5-7 | 8-11 | 12-13 | 14-100 |
| 1750 | | 5-7 | 8-10 | 11-12 | 13-100 |
| 1800 | | 5-6 | 7-9 | 10-11 | 12-100 |
| 1900 | | 5-6 | 7-9 | 10-11 | 12-100 |
| 2000 | | 5-6 | 7-8 | 9-10 | 11-100 |
| 2100 | | 5-6 | 7-8 | 9-10 | 11-100 |
| 2200 | | 5 | 6-8 | 9 | 10-100 |
| 2500 | | 5 | 6-7 | 8 | 9-100 |
| 3000 | | | 5-6 | 7 | 8-100 |

k_v values for AT7, 1-row, spacing 65 mm

| Height [mm] | AT7, 1-row, spacing 65 mm | | | | |
|-------------|---------------------------|--------------|--------------|--------------|--------------|
| | Length [el.] | Length [el.] | Length [el.] | Length [el.] | Length [el.] |
| 210 | 5-24 | 25-54 | 55-92 | | |
| 280 | 5-24 | 25-54 | 55-92 | | |
| 300 | 5-24 | 25-54 | 55-92 | | |
| 350 | 5-20 | 21-48 | 49-66 | | |
| 400 | 5-19 | 20-40 | 41-58 | 67-92 | |
| 450 | 5-17 | 18-38 | 39-54 | 55-64 | 65-92 |
| 500 | 5-16 | 17-34 | 35-48 | 49-58 | 59-92 |
| 550 | 5-14 | 15-32 | 33-46 | 47-54 | 55-92 |
| 600 | 5-13 | 14-30 | 31-42 | 43-50 | 51-92 |
| 650 | 5-13 | 14-28 | 29-40 | 41-48 | 49-92 |
| 700 | 5-12 | 13-26 | 27-38 | 39-44 | 45-92 |
| 750 | 5-11 | 12-24 | 25-36 | 37-42 | 43-92 |
| 800 | 5-11 | 12-24 | 25-34 | 35-40 | 41-92 |
| 900 | 5-10 | 11-22 | 23-30 | 31-36 | 37-92 |
| 1000 | 5-9 | 10-20 | 21-28 | 29-32 | 33-92 |
| 1100 | 5-8 | 9-18 | 19-26 | 27-30 | 31-92 |
| 1200 | 5-7 | 8-17 | 18-22 | 23-28 | 29-92 |
| 1250 | 5-7 | 8-16 | 17-22 | 23-26 | 27-92 |
| 1500 | 5-6 | 7-13 | 14-19 | 20-22 | 23-92 |
| 1600 | 5 | 6-12 | 13-18 | 19-20 | 21-92 |
| 1750 | 5 | 6-11 | 12-16 | 17-19 | 20-92 |
| 1800 | 5 | 6-11 | 12-16 | 17-19 | 20-92 |
| 1900 | | 5-10 | 11-15 | 16-18 | 19-92 |
| 2000 | | 5-10 | 11-14 | 15-17 | 18-92 |
| 2100 | | 5-9 | 10-13 | 14-16 | 17-92 |
| 2200 | | 5-9 | 10-13 | 14-15 | 16-92 |
| 2500 | | 5-8 | 9-11 | 12-13 | 14-92 |
| 3000 | | 5-6 | 7-9 | 10-11 | 12-92 |

k_v values for AT7, 2-row, spacing 65 mm

| Height [mm] | AT7, 2-row, spacing 65 mm | | | | |
|-------------|---------------------------|--------------|--------------|--------------|--------------|
| | Length [el.] | Length [el.] | Length [el.] | Length [el.] | Length [el.] |
| 210 | 5-15 | 16-32 | 33-46 | 47-56 | 57-92 |
| 280 | 5-15 | 16-32 | 33-46 | 47-56 | 57-92 |
| 300 | 5-15 | 16-32 | 33-46 | 47-56 | 57-92 |
| 350 | 5-13 | 14-28 | 29-40 | 41-48 | 49-92 |
| 400 | 5-11 | 12-24 | 25-34 | 35-42 | 43-92 |
| 450 | 5-10 | 11-22 | 23-32 | 33-38 | 39-92 |
| 500 | 5-9 | 10-20 | 21-30 | 31-34 | 35-92 |
| 550 | 5-9 | 10-19 | 20-26 | 27-32 | 33-92 |
| 600 | 5-8 | 9-18 | 19-26 | 27-30 | 31-92 |
| 650 | 5-7 | 8-17 | 18-24 | 25-28 | 29-92 |
| 700 | 5-7 | 8-16 | 17-22 | 23-26 | 27-92 |
| 750 | 5-7 | 8-15 | 16-20 | 21-26 | 27-92 |
| 800 | 5-6 | 7-14 | 15-20 | 21-24 | 25-92 |
| 900 | 5-6 | 7-13 | 14-18 | 19-22 | 23-92 |
| 1000 | 5 | 6-12 | 13-17 | 18-20 | 21-92 |
| 1100 | | 5-10 | 11-15 | 16-18 | 19-92 |
| 1200 | | 5-10 | 11-14 | 15-16 | 17-92 |
| 1250 | | 5-9 | 10-13 | 14-16 | 17-92 |
| 1500 | | 5-8 | 9-11 | 12-13 | 14-92 |
| 1600 | | 5-7 | 8-10 | 11-12 | 13-92 |
| 1750 | | 5-7 | 8-9 | 10-11 | 12-92 |
| 1800 | | 5-6 | 7-9 | 10-11 | 12-92 |
| 1900 | | 5-6 | 7-9 | 10 | 11-92 |
| 2000 | | 5-6 | 7-8 | 9-10 | 11-92 |
| 2100 | | 5 | 6-8 | 9 | 10-92 |
| 2200 | | 5 | 6-7 | 8-9 | 10-92 |
| 2500 | | 5 | 6-7 | 8 | 9-92 |
| 3000 | | | 5 | 6-7 | 8-92 |



k_v values for AT7, 1-row, spacing 70 mm

| Height [mm] | AT7, 1-row, spacing 70 mm | | | | |
|-------------|---------------------------|--------------|--------------|--------------|--------------|
| | Length [el.] | Length [el.] | Length [el.] | Length [el.] | Length [el.] |
| 210 | 5-24 | 25-52 | 53-86 | | |
| 280 | 5-24 | 25-52 | 53-86 | | |
| 300 | 5-24 | 25-52 | 53-86 | | |
| 350 | 5-20 | 21-46 | 47-66 | | |
| 400 | 5-18 | 19-40 | 41-56 | 67-86 | |
| 450 | 5-17 | 18-36 | 37-49 | 50-62 | 63-86 |
| 500 | 5-15 | 16-34 | 35-48 | 49-58 | 59-86 |
| 550 | 5-14 | 15-32 | 33-44 | 45-52 | 53-86 |
| 600 | 5-13 | 14-28 | 29-42 | 43-50 | 51-86 |
| 650 | 5-12 | 13-28 | 29-38 | 39-46 | 47-86 |
| 700 | 5-12 | 13-26 | 27-36 | 37-44 | 45-86 |
| 750 | 5-11 | 12-24 | 25-34 | 35-42 | 43-86 |
| 800 | 5-10 | 11-22 | 23-32 | 33-38 | 39-86 |
| 900 | 5-9 | 10-20 | 21-30 | 31-36 | 37-86 |
| 1000 | 5-8 | 9-19 | 20-26 | 27-32 | 33-86 |
| 1100 | 5-8 | 9-18 | 19-24 | 25-30 | 31-86 |
| 1200 | 5-7 | 8-16 | 17-22 | 23-26 | 27-86 |
| 1250 | 5-7 | 8-15 | 16-22 | 23-26 | 27-86 |
| 1500 | 5-6 | 7-13 | 14-18 | 19-22 | 23-86 |
| 1600 | 5 | 6-12 | 13-17 | 18-20 | 21-86 |
| 1750 | 5 | 6-11 | 12-16 | 17-19 | 20-86 |
| 1800 | 5 | 6-11 | 12-16 | 17-19 | 20-86 |
| 1900 | | 5-10 | 11-14 | 15-17 | 18-86 |
| 2000 | | 5-10 | 11-14 | 15-16 | 17-86 |
| 2100 | | 5-9 | 10-13 | 14-16 | 17-86 |
| 2200 | | 5-9 | 10-12 | 13-15 | 16-86 |
| 2500 | | 5-7 | 8-11 | 12-13 | 14-86 |
| 3000 | | 5-6 | 7-9 | 10-11 | 12-86 |

k_v values for AT7, 2-row, spacing 70 mm

| Height [mm] | AT7, 2-row, spacing 70 mm | | | | |
|-------------|---------------------------|--------------|--------------|--------------|--------------|
| | Length [el.] | Length [el.] | Length [el.] | Length [el.] | Length [el.] |
| 210 | 5-15 | 16-32 | 33-46 | 47-54 | 55-86 |
| 280 | 5-15 | 16-32 | 33-46 | 47-54 | 55-86 |
| 300 | 5-15 | 16-32 | 33-46 | 47-54 | 55-86 |
| 350 | 5-13 | 14-28 | 29-40 | 41-48 | 49-86 |
| 400 | 5-11 | 12-24 | 25-34 | 35-40 | 41-86 |
| 450 | 5-10 | 11-22 | 23-30 | 31-36 | 37-86 |
| 500 | 5-9 | 10-20 | 21-28 | 29-34 | 35-86 |
| 550 | 5-8 | 9-19 | 20-26 | 27-32 | 33-86 |
| 600 | 5-8 | 9-18 | 19-24 | 25-30 | 31-86 |
| 650 | 5-7 | 8-17 | 18-24 | 25-28 | 29-86 |
| 700 | 5-7 | 8-16 | 17-22 | 23-26 | 27-86 |
| 750 | 5-6 | 7-15 | 16-20 | 21-24 | 25-86 |
| 800 | 5-6 | 7-14 | 15-20 | 21-24 | 25-86 |
| 900 | 5 | 6-13 | 14-18 | 19-22 | 23-86 |
| 1000 | 5 | 6-11 | 12-16 | 17-20 | 21-86 |
| 1100 | | 5-10 | 11-15 | 16-17 | 18-86 |
| 1200 | | 5-9 | 10-13 | 14-16 | 17-86 |
| 1250 | | 5-9 | 10-13 | 14-15 | 16-86 |
| 1500 | | 5-7 | 8-11 | 12-13 | 14-86 |
| 1600 | | 5-7 | 8-10 | 11-12 | 13-86 |
| 1750 | | 5-6 | 7-9 | 10-11 | 12-86 |
| 1800 | | 5-6 | 7-9 | 10-11 | 12-86 |
| 1900 | | 5-6 | 7-8 | 9-10 | 11-86 |
| 2000 | | 5-6 | 7-8 | 9 | 10-86 |
| 2100 | | 5 | 6-8 | 9 | 10-86 |
| 2200 | | 5 | 6-7 | 8-9 | 10-86 |
| 2500 | | | 5-6 | 7-8 | 9-86 |
| 3000 | | | 5 | 6 | 7-86 |

| Item | Room | Quantity | Product/version | Length in el. or m | Connection system | Flow/return | | Air vent | | | Drain | | | Pressure version | Fittings | Fixing | Finish | Colour | Colour code | Installation | Special version | |
|------|-----------|----------|-----------------|--------------------|-------------------|-------------|-----------------|----------|-------------|-----------------|---------|-------------|-----------------|------------------|----------|--------|--------|--------|-------------|--------------|-----------------|----------|
| | | | | | | Arrangement | Connection size | Version | Arrangement | Connection size | Version | Arrangement | Connection size | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | I71 Flow |
| I11 | I21 | I31 | I41 | I51 | I61 | I71 | I71 | I81 | I91 | I101 | I111 | I121 | I131 | I141 | I151 | I161 | I171 | I181 | I1811 | I191 | I201 | |
| 1 | 1st floor | 1 | AT6-1030-45 | 20 | 2 | 12 | 38 | 38 | 4 | 3 | 38 | 4 | 4 | 38 | 10 | - | B2 | AF | RAL | 9016 | | |
| 2 | 2 | 3 | AT7-2035-55V | 12 | 41 | 69 | 12 | 12 | 4 | 3 | 38 | 3 | - | - | 6 | - | - | CF | RAL | 1023 | | |
| 3 | Office | 1 | AT6-2180-30 | 8 | 2 | 85 | 12 | 12 | 4 | 3 | 12 | 3 | - | - | 6 | - | - | SF | NCS | S8000-N | | |
| 4 | LW | 1 | AT7-1075-70 | 34 | 10 | 4 | 12 | 12 | 4 | 1 | 12 | 3 | - | - | 6 | - | FV | CF | JAS | | | |
| 5 | Kitchen | 2 | AT6-1150-40 | 19 | 2 | 99 | 12 | 12 | 4 | 3 | 38 | 4 | 4 | 12 | 6 | - | - | AF | RAL | 9016 | | |

|1| Room

Information on the room in which the radiator will be installed

| Ordering information | Ordering code |
|----------------------|---------------|
| Living room | WZ |
| Bathroom | BZ |
| Kitchen | Kitchen |
| Office | Office |
| Hall | Hall |
| Entrance | Entrance |
| Toilet | WC |
| ... | ... |

|2| Number

Number of radiators

| Ordering information | Ordering code |
|----------------------|---------------|
| 1 radiator | 1 |
| 2 radiators | 2 |
| 3 radiators | 3 |
| ... | ... |

|3| Article/version

| Ordering information | Ordering code |
|------------------------|---------------|
| Arbotherm AT6-1030-45 | AT6-1030-45 |
| Arbotherm AT7-2035-55V | AT7-2035-55V |
| Arbotherm AT6-2180-30 | AT6-2180-30 |
| Arbotherm AT7-1075-70 | AT7-1075-70 |
| Arbotherm AT6-1150-40 | AT6-1150-40 |
| ... | ... |


|4| Length in elements (sections)

| Ordering information | Ordering code |
|-------------------------------|---------------|
| Length: 20 elements (900 mm) | 20 |
| Length: 12 elements (650 mm) | 12 |
| Length: 8 elements (255 mm) | 8 |
| Length: 34 elements (2355 mm) | 34 |
| Length: 19 elements (765 mm) | 19 |
| ... | ... |



Standard without built-in valve

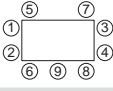
|5| Flow/return: connection system

| Ordering information | Ordering code |
|--|---------------|
|  2-pipe system (flow and return are separate) | 2 |

Other connection arrangements

| Ordering information | Ordering code |
|--|---------------|
| Coupled on same side in series | 75 |
| Coupled laterally on alternating sides in series | 76 |
| Special connections | 99 |

|6| Flow/return: arrangement

| Ordering information | Ordering code |
|---|--|
| 1st digit: flow pos. 2nd digit: return pos. |  |
| 1st digit (8): flow bottom right 2nd digit (6): return bottom left | 86 |
| ... | ... |

- For further connection options, see:
 - AT6 connections
 - AT7 connections

|7| Flow / |7| Return: connection size

2-pipe connection

| Ordering information | Ordering code |
|----------------------|---------------|
| 1/2" thread | 12 |
| 3/8" thread | 38 |
| 3/4" thread | 34 |

Version with built-in valve

|5| Flow/return: connection system

Valve seat sideways above

| Ordering information | Ordering code |
|---|---------------|
| Standard valve with M30 x 1.5 connection | 31 |
| Valve with fine adjustment and M30 x 1.5 connection | 41 |

|6| Flow/return: arrangement

Valve seat sideways below

| Ordering information | Ordering code |
|--|---------------|
| Valve left, flow left, return right | 69 |
| Valve right, flow right, return left | 89 |
| Valve right, flow middle right, return middle left | 96 |
| Valve left, flow middle left, return middle right | 98 |

- Flow on side of the valve

|7| Flow / |7| Return: connection size

| Ordering information | Ordering code |
|---------------------------------|---------------|
| 1/2" internal thread (standard) | 12 |

 = Standard version, instead of value, it is also possible to insert "-"

|8| Air vent: version

| Ordering information | Ordering code |
|---|---------------|
| Connection only | 4 |
| Air vent plug with valve and rotatable outlet | 1 |
| No air vent, only if imperative | 3 |

|9| Air vent: position

| Ordering information | Ordering code |
|--|---|
| Digit: position of the air vent connection |  |

- If no information is given, the air vent connection is fitted in the position that permits correct radiator operation

|10| Air vent: connection size

| Ordering information | Ordering code |
|--------------------------------|---------------|
| 3/8" thread – standard version | 38 |
| 1/2" thread | 12 |

- No information given, but air vent desired: connection size 3/8" thread

|11| Drain: version

| Ordering information | Ordering code |
|----------------------|---------------|
| No drain | 3 |
| Connection only | 4 |

- In general no drain connection, except if:
 - Drain is part of the standard version
 - Drain necessary for ensuring correct operation

|12| Drain: arrangement

| Ordering information | Ordering code |
|---|---|
| Digit: position of the air drain connection |  |

- No information: if a drain is desired or necessary, the drain connection is fitted in the position that permits the correct operation of the radiator

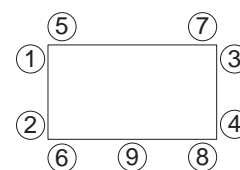
|13| Drain: connection size

| Ordering information | Ordering code |
|----------------------|---------------|
| 3/8" thread | 38 |
| 1/2" thread | 12 |

- No information, but drain desired: connection size 3/8" thread

Composition of the ordering code for flow and return

1st digit: flow pos.
2nd digit: return pos.



| | |
|--|----|
| Example: 1st digit (6): flow pos. bottom left 2nd digit (8): return pos. bottom right | 68 |
| Example: 1st digit (9): flow pos. bottom left 2nd digit (9) return pos. bottom right | 99 |

|14| Pressure version

| Ordering information | Ordering code |
|--|---------------|
| Standard version: 6 bar (600 kPa) | 6 |
| High-pressure version: 10 bar (1000 kPa) | 10 |

- Not specified/standard: supplied in the lowest pressure rating

|15| Fittings

No fittings possible.

|16| Fixing

| Ordering information | Ordering code |
|---|---------------|
| Without suspension lugs – standard version | B1 |
| With suspension lugs | B2 |
| With welded-on flat oval feet, single, adjustable | FV |
| With welded-on flat oval feet, double, adjustable | FVD |

|17| Surface: finish

| Ordering information | Ordering code |
|---|---------------|
| Standard variant in white | AF |
| Primed | GRD |
| Finished in standard colour | CF |
| Finished in colour of choice | SF |
| Clear lacquer | TF |
| Textured paint in white | SL |
| Textured paint in colour of choice | KL |
| Hot-dip galvanised | ZN |
| Hot-dip galvanised and textured paint in white | ZL |
| Hot-dip galvanised and textured paint in colour of choice | ZK |

- For detailed information, see "Colour schemes for Arbonia radiators"

= Standard version, instead of value, it is also possible to insert "-"



|18/0| Surface: colour

Manufacturer's colours

| Ordering information | Ordering code |
|----------------------|---------------|
| RAL | RAL |

- For other manufacturers' colours, see "Colour schemes for Arbonia radiators"

|18| "Sanitary colours" colour code

| Ordering information | Ordering code |
|----------------------|---------------|
| Bahama beige | BAH |
| Manhattan | MAN |
| Jasmine | JAS |
| Edelweiss | EWE |
| Pergamon | PER |
| Aegean | AEG |
| Natura | NAT |
| Calypso | CAL |
| Greenwich | GRW |

|18| "Arbonia special colour" colour code

| Ordering information | Ordering code |
|-----------------------|---------------|
| Gloss Silver Metallic | GLS |

|18| "NCS colours" colour code

| Ordering information | Ordering code |
|----------------------|---------------|
| NCS | S 0500-N |
| NCS | S 1000-N |
| NCS | S 3500-N |
| NCS | S 5500-N |
| NCS | S 7500-N |
| NCS | S 8000-N |
| NCS | S 9000-N |
| NCS | S 1002-Y |
| NCS | S 1502-Y |
| NCS | S 2502-Y |
| NCS | S 0804-Y30R |
| NCS | S 0804-Y50R |
| NCS | S 2005-Y20R |

|18| "DB" colour code

| Ordering information | Ordering code |
|----------------------|---------------|
| Light metallic grey | 701 |
| Metallic grey | 702 |
| Dark metallic grey | 703 |
| Silver metallic grey | 704 |

|18| "New Inspiration Colors" colour code

Fresh

| Ordering information | Ordering code |
|----------------------|-----------------|
| Sky Blue | F001-Sky Blue |
| Deep Ocean | F002-Deep Ocean |
| Amazonas | F003-Amazonas |
| Bamboo | F004-Bamboo |
| Papaya | F005-Papaya |
| Cherry | F006-Cherry |

Warm

| Ordering information | Ordering code |
|----------------------|---------------|
| Ivory | W001-Ivory |
| Curry | W002-Curry |
| Sahara | W003-Sahara |
| Sunnyday | W004-Sunnyday |
| Chili | W005-Chili |
| Reed | W006-Reed |

Cool

| Ordering information | Ordering code |
|----------------------|------------------|
| Snow | C001-Snow |
| Ice Blue | C002-Ice Blue |
| Arctic Blue | C003-Arctic Blue |
| Iron | C004-Iron |
| Slate | C005-Slate |
| Onyx | C006-Onyx |

|18| Surface: colour code

| Ordering information | Ordering code |
|--|-------------------------------|
| 17 = AF (All Finish): Traffic white RAL 9016 | 9016 |
| 17 = CF (Colour Finish) | Colour code from colour chart |
| <ul style="list-style-type: none"> • RAL colour: colour code from "Colour schemes for Arbonia radiators" • Sanitary colour: no information necessary • NCS colours: colour code from "Colour schemes for Arbonia radiators" • Arbonia New Inspiration Colours: Arbonia colour code | – |
| 17 = SF (Super Finish) | Manufacturer's colour code |
| <ul style="list-style-type: none"> • Manufacturer's colour: colour code from manufacturer's data • Arbonia special colour: no information necessary | – |
| 17 = SL: Traffic white RAL 9016 | 9016 |
| 17 = KL | Manufacturer's colour code |
| <ul style="list-style-type: none"> • Manufacturer's colour: colour code from manufacturer's data • Arbonia special colour: no information necessary | – |
| 17 = ZL: Traffic white RAL 9016 | 9016 |
| 17 = ZK | Manufacturer's colour code |
| <ul style="list-style-type: none"> • Manufacturer's colour: colour code from manufacturer's data • Sanitary colour: no information necessary • Arbonia special colour: no information necessary | – |

- Colour code must be stated

|19| Installation

Arbothermers are supplied from the factory in one piece.

| Ordering information | Ordering code |
|--|---------------|
| Stabiliser up to height 1750 mm – 1-row | ST |
| Stabiliser up to height 1750 mm – 2-rows | ST |

|20| Special version

| Ordering information | Ordering code |
|---|---------------|
| Curved version (please provide drawing) | 70 |
| Angled version (please provide drawing) | 71 |
| Bevelled version (please provide drawing) | 99 |
| Special height | SBH |
| Design according to drawing | 99 |

- For curved and angled versions, please use the drawing template that is printed on the envelope of the order pad
- Design according to drawing (99): for versions deviating from the planned standard and special versions. After consultation with the factory



Surface finish

| Description | Finish ordering code 17 | Colour ordering code 18/0 | Colour code ordering code 18 |
|---|-----------------------------|---|----------------------------------|
| All Finish in white Traffic white RAL 9016 | AF | RAL | 9016 |
| Primed | GRD | – | – |
| Colour Finish in standard colour ¹⁾ | CF | RAL colour | Colour code from colour chart |
| | CF | Sanitary colour ²⁾ | – |
| | CF | NCS colours ³⁾ | Manufacturer's colour code |
| | CF | NIC | Colour code from colour table |
| Super Finish in colour of choice ^{1) 3)} | SF | Manufacturer's colour | Manufacturer's colour code |
| | SF | Arbonia special colour ²⁾ | – |
| Clear lacquer | TF | – | – |
| Textured paint after priming Traffic white RAL 9016 In colour of choice (manufacturer's colour) ^{1) 3)} In colour of choice (Arbonia special colour) ^{1) 3)} | SL | RAL | 9016 |
| | KL | Manufacturer's colour | Manufacturer's colour code |
| | KL | Arbonia special colour ²⁾ | – |
| Hot-dip galvanised, outside, for wet areas Without paint finish ⁴⁾ With textured paint in traffic white RAL 9016 With textured paint in colour of choice (manufacturer's colour) ^{1) 3)} With textured paint in colour of choice (sanitary colour) ^{1) 3)} With textured paint in colour of choice (Arbonia special colour) ^{1) 3)} | ZN | – | – |
| | ZL | RAL | 9016 |
| | ZK | Manufacturer's colour | Manufacturer's colour code |
| | ZK | Sanitary colour ²⁾ | – |
| | ZK | Arbonia special colour ²⁾ | – |

¹⁾ For information on ordering, see ordering process

²⁾ For information on ordering, see ordering process and colour chart

³⁾ Not all colours possible

⁴⁾ Attention: Reduced heat output.



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Technical specifications subject to change

Because of limitations in the printing process, the illustrated colours are not binding.

