

SIT



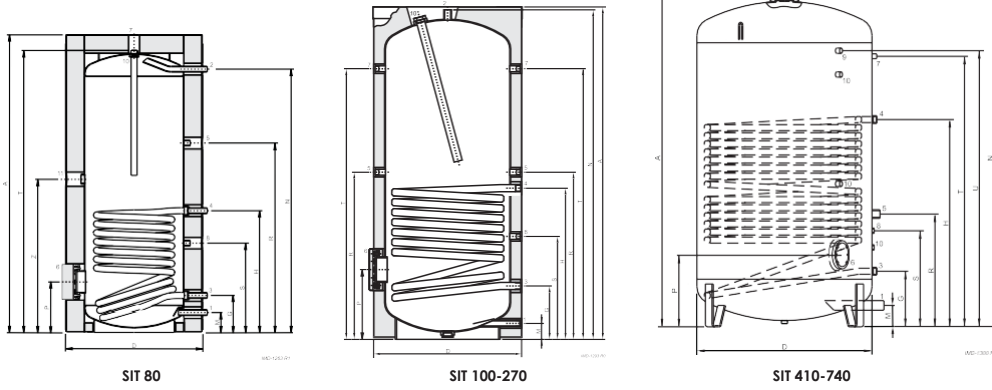
Commercial indirect tanks

SIT range of commercial indirect storage tanks are suitable for installations with a variety of heat sources. The units are manufactured with heavy gauge steel and protected from corrosion by an advanced glass lining process. Storage capacities range from up to 2800 litres with heating outputs from 46 - 142 kW.

- Glass lined steel tank
- Coil surface area (1.5 - 4.8 m²)
- Electrolytic protection - magnesium anode
- Removable polyurethane soft foam insulation jacket
- Clean out inspection port
- Maximum tank working pressure 10 Bar
- Tank operation temperatures up to 95°C
- Coil operation temperature up to 110°C
- Suitable for vented (open) or unvented (sealed) systems

Optional accessories

- Temperature meter
- Unvented system kit
- Temperature & pressure relief valve
- Electric heating elements up to 7.5 kW
- Flexible magnesium anode
- Powered anodes



| TECHNICAL DATA | | | | | | | | | | | | |
|--|-------------------------------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|--------|
| Model | | SIT 80 | SIT 100 | SIT 125 | SIT 170 | SIT 190 | SIT 270 | SIT 410 | SIT 500 | SIT 670 | SIT 740 | |
| Storage capacity | ltr | 300 | 385 | 473 | 643 | 725 | 1007 | 1550 | 1800 | 2550 | 2800 | |
| Heat output | kW | 46 | 78 | 100 | 104 | 112 | 145 | 147 | 147 | 156 | 156 | |
| Surface area coil | m² | 1.4 | 2.5 | 3.1 | 3.5 | 3.7 | 4.8 | 5.2 | 5.2 | 6.0 | 6.0 | |
| Pressure drop coil | mbar | 80 | 244 | 489 | 104 | 128 | 259 | 830 | 830 | 695 | 695 | |
| Water contents coil | ltr | 8.8 | 14.8 | 18.8 | 29.3 | 31.6 | 40.9 | 40.0 | 40.0 | 45.0 | 45.0 | |
| Flow rate (80° / 60°) coil | ltr/h | 1900 | 3354 | 4300 | 4472 | 4816 | 6235 | 6485 | 6485 | 6871 | 6871 | |
| Recovery time, ΔT = 44 °C | min. | 20 | 15 | 15 | 19 | 20 | 21 | 32 | 38 | 50 | 55 | |
| Draw off capacity 1st hour, ΔT = 28 °C | ltr | 2013 | 3046 | 3864 | 4321 | 4718 | 6245 | 7389 | 7889 | 9652 | 10152 | |
| Draw off capacity 1st hour, ΔT = 44 °C | ltr | 1281 | 1938 | 2459 | 2749 | 3002 | 3974 | 4702 | 5020 | 6142 | 6460 | |
| Draw off capacity 1st hour, ΔT = 50 °C | ltr | 1127 | 1706 | 2164 | 2420 | 2642 | 3497 | 4138 | 4418 | 5405 | 5685 | |
| Draw off capacity continu, ΔT = 28 °C | ltr/h | 1413 | 2396 | 3071 | 3194 | 3440 | 4454 | 4515 | 4515 | 4791 | 4791 | |
| Draw off capacity continu, ΔT = 44 °C | ltr/h | 899 | 1525 | 1955 | 2033 | 2189 | 2834 | 2873 | 2873 | 3049 | 3049 | |
| Draw off capacity continu, ΔT = 50 °C | ltr/h | 791 | 1342 | 1720 | 1789 | 1926 | 2494 | 2528 | 2528 | 2683 | 2683 | |
| Maximum operating temperature | °C | 95 | 95 | 95 | 95 | 95 | 95 | 85 | 85 | 85 | 85 | |
| Maximum coil operating temperature | °C | 110 | 110 | 110 | 110 | 110 | 110 | 90 | 90 | 90 | 90 | |
| Maximum working pressure | kPa(bar) | 1000(10) | 1000(10) | 1000(10) | 1000(10) | 1000(10) | 1000(10) | 800(8) | 800(8) | 800(8) | 800(8) | |
| Anodes | no. | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | |
| Weight empty | kg | 125 | 139 | 180 | 241 | 254 | 336 | 398 | 426 | 576 | 600 | |
| DIMENSIONS & CONNECTIONS | | | | | | | | | | | | |
| A | Total height | mm | 1650 | 1710 | 2045 | 1840 | 2035 | 2005 | 1985 | 2175 | 2045 | 2070 |
| D | Diameter (without insulation) | mm | 550 | 600 | 600 | 750 | 750 | 900 | 1100 | 1100 | 1400 | 1400 |
| | Diameter (with insulation) | mm | 750 | 740 | 760 | 910 | 930 | 1100 | 1300 | 1300 | 1600 | 1600 |
| G | Height heat exchanger outlet | mm | 205 | 260 | 260 | 310 | 310 | 350 | 350 | 430 | 430 | |
| H | Height heat exchanger inlet | mm | 675 | 1015 | 1205 | 1150 | 1210 | 1310 | 1305 | 1305 | 1285 | 1285 |
| M | Height cold water inlet | mm | 110 | 70 | 70 | 85 | 85 | 95 | 135 | 135 | 185 | 185 |
| N | Height warm water outlet | mm | 1460 | 1655 | 1995 | 1805 | 2000 | 1965 | 1985 | 2175 | 2045 | 2070 |
| P | Height inspection opening | mm | 280 | 330 | 330 | 420 | 420 | 450 | 450 | 530 | 530 | |
| R | Height connection circulation | mm | 1050 | 1100 | 1290 | 1240 | 1300 | 1400 | 710 | 710 | 790 | 790 |
| S | Height immersion well | mm | 495 | 500 | 500 | 655 | 655 | 705 | 605 | 605 | 685 | 685 |
| T | Height T&P connection | mm | 1545 | 1365 | 1700 | 1480 | 1675 | 1605 | 1515 | 1705 | 1530 | 1625 |
| Z | Height electrical element | mm | 850 | - | - | - | - | - | - | - | - | |
| 1 | Cold water inlet | - | G 1" | R 2" | R 2" | R 2½" | R 2½" | R 2½" | R 2" | R 2" | R 2" | R 2" |
| 2 | Warm water outlet | - | G 1" | R 2" | R 2" | R 2½" | R 2½" | R 2½" | R 2" | R 2" | R 2" | R 2" |
| 3 | Heat exchanger outlet | - | G 1" | Rp 1" | Rp 1" | Rp 1½" | Rp 1½" | Rp 1½" | Rp 1½" | Rp 1½" | Rp 1½" | Rp 1½" |
| 4 | Heat exchanger inlet | - | G 1" | Rp 1" | Rp 1" | Rp 1½" | Rp 1½" | Rp 1½" | Rp 1½" | Rp 1½" | Rp 1½" | Rp 1½" |
| 5 | Connection circulation | - | Rp ¾" | Rp ¾" | Rp ¾" | Rp ¾" | Rp ¾" | Rp ¾" | Rp 1¼" | Rp 1¼" | Rp 1¼" | Rp 1¼" |
| 6 | Diameter inspection opening | mm | 110 | 115 | 115 | 180 | 180 | 180 | 110 | 110 | 110 | 110 |
| 7 | T&P connection | - | Rp 1" | Rp ¾" | Rp ¾" | Rp ¾" | Rp ¾" | Rp ¾" | Rp 2" | Rp 2" | Rp 2" | Rp 2" |
| 8 | Immersion well | - | Rp ¾" | Rp ¾" | Rp ¾" | Rp ¾" | Rp ¾" | Rp ¾" | Rp ¾" | Rp ¾" | Rp ¾" | Rp ¾" |
| 10 | Anode connection | - | G 1½" | Rp 1¼" | Rp 1¼" | Rp 1¼" | Rp 1¼" | Rp 1¼" | Rp ¾" | Rp ¾" | Rp ¾" | Rp ¾" |
| 11 | Electrical element connection | - | G 1½" | - | - | - | - | - | Rp ¾" | Rp ¾" | Rp ¾" | Rp ¾" |
| ENERGY LABELING (ERP) | | | | | | | | | | | | |
| Load Profile | | C | C | C | - | - | - | - | - | - | - | |
| Standby loss | W | 92 | 100 | 104 | 126 | 126 | 146 | 154 | 171 | 232 | 243 | |

All measures are rounded off to 5mm.