

SID



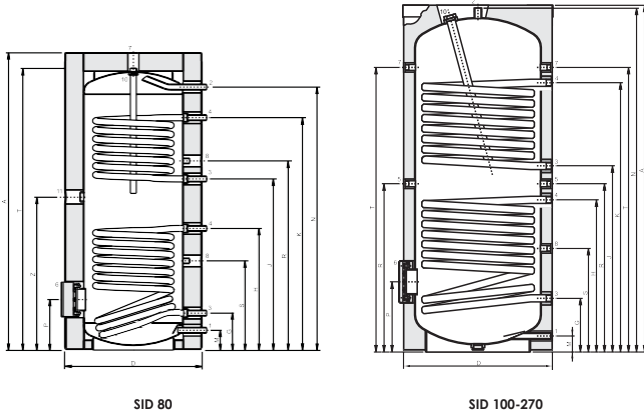
Commercial dual coil indirect tanks

SID range of dual coil indirect storage tanks are suitable for installations with solar and other heat recovery systems. The units are manufactured with heavy gauge steel and protected from corrosion by an advanced glass lining process. The range includes a selection of 6 models with capacities from 289 to 1007 litres.

- Glass lined steel tank with two coils
- Output primary coil 27 - 58 kW
- Output secondary coil 46 - 87 kW
- 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



SID 80

SID 100-270

| TECHNICAL DATA | | | | | | | | | | | | | |
|--|---------------------------------------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Model | | SID 80 | | SID 100 | | SID 125 | | SID 170 | | SID 190 | | SID 270 | |
| Storage capacity | ltr | 300 | | 382 | | 470 | | 641 | | 718 | | 1007 | |
| | | Solar | Primary | Solar | Primary | Solar | Primary | Solar | Primary | Solar | Primary | Solar | Primary |
| Heat output | kW | 46.0 | 26.9 | 52.0 | 37.0 | 68.0 | 42.0 | 72.0 | 40.0 | 80.0 | 56.0 | 87.0 | 58.0 |
| Surface area coil | m ² | 1.4 | 1.0 | 1.6 | 1.2 | 2.1 | 1.3 | 2.4 | 1.3 | 2.7 | 1.9 | 2.9 | 1.9 |
| Pressure drop coil | mbar | 80 | 40 | 78 | 30 | 166 | 43 | 37 | 7 | 50 | 18 | 61 | 20 |
| Water contents coil | ltr | 8.8 | 6.3 | 9.9 | 6.9 | 12.8 | 7.9 | 20.3 | 11.3 | 22.6 | 15.8 | 24.6 | 16.4 |
| Flow rate (80° / 60°) coil | ltr/t | 1978 | 1161 | 2236 | 1591 | 2924 | 1806 | 3096 | 1720 | 3440 | 2408 | 3741 | 2494 |
| Recovery time, ΔT = 44 °C | min. | 20 | 34 | 23 | 32 | 21 | 34 | 27 | 49 | 28 | 39 | 36 | 55 |
| Draw off capacity 1st hour, ΔT = 28 °C | ltr | 1942 | 1073 | 2281 | 1446 | 2924 | 1677 | 3383 | 1783 | 3770 | 2323 | 4553 | 2659 |
| Draw off capacity 1st hour, ΔT = 44 °C | ltr | 1236 | 683 | 1452 | 920 | 1861 | 1067 | 2153 | 1134 | 2399 | 1478 | 2897 | 1692 |
| Draw off capacity 1st hour, ΔT = 50 °C | ltr | 1088 | 601 | 1278 | 810 | 1638 | 939 | 1894 | 998 | 2111 | 1301 | 2549 | 1489 |
| Draw off capacity continu, ΔT = 28 °C | ltr/t | 1413 | 826 | 1596 | 1136 | 2089 | 1290 | 2211 | 1229 | 2457 | 1720 | 2672 | 1781 |
| Draw off capacity continu, ΔT = 44 °C | ltr/t | 899 | 526 | 1016 | 723 | 1329 | 821 | 1407 | 782 | 1564 | 1095 | 1700 | 1134 |
| Draw off capacity continu, ΔT = 50 °C | ltr/t | 791 | 463 | 894 | 636 | 1170 | 722 | 1238 | 688 | 1376 | 963 | 1496 | 998 |
| | | Tank | Coil | Tank | Coil | Tank | Coil | Tank | Coil | Tank | Coil | Tank | Coil |
| Maximum operating temperature | °C | 95 | 160 | 95 | 110 | 95 | 110 | 95 | 110 | 95 | 110 | 95 | 110 |
| Maximum working pressure | bar | 10 | 25 | 10 | 16 | 10 | 16 | 10 | 16 | 10 | 16 | 10 | 16 |
| Anodes | no. | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | |
| Weight empty | kg | 156 | | 145 | | 196 | | 246 | | 262 | | 340 | |
| DIMENSIONS & CONNECTIONS | | | | | | | | | | | | | |
| A | Total height | mm | 1650 | 1710 | 2045 | 1840 | 2035 | 2005 | | | | | |
| D | Diameter (without insulation) | mm | 550 | 600 | 600 | 750 | 750 | 900 | | | | | |
| D | Diameter (with insulation) | mm | 750 | 740 | 760 | 910 | 930 | 1100 | | | | | |
| G | Height heat exchanger outlet | mm | 205 | 260 | 260 | 310 | 310 | 350 | | | | | |
| H | Height heat exchanger inlet | mm | 675 | 775 | 920 | 910 | 970 | 950 | | | | | |
| J | Height heat exchanger outlet (on top) | mm | 950 | 945 | 1090 | 1090 | 1150 | 1130 | | | | | |
| K | Height heat exchanger inlet (on top) | mm | 1290 | 1280 | 1470 | 1390 | 1570 | 1490 | | | | | |
| M | Height cold water inlet | mm | 110 | 70 | 70 | 85 | 85 | 95 | | | | | |
| N | Height warm water outlet | mm | 1460 | 1655 | 1995 | 1805 | 2000 | 1965 | | | | | |
| P | Height inspection opening | mm | 280 | 330 | 330 | 420 | 420 | 450 | | | | | |
| R | Height connection circulation | mm | 1050 | 860 | 1000 | 1000 | 1080 | 1040 | | | | | |
| S | Height immersion well | mm | 495 | 500 | 500 | 655 | 655 | 705 | | | | | |
| T | Height T&P connection | mm | 1545 | 1365 | 1700 | 1480 | 1875 | 1605 | | | | | |
| Z | Height electrical element | mm | 850 | - | - | - | - | - | | | | | |
| 1 | Cold water inlet | - | G 1" | R 2" | R 2" | R 2½" | R 2½" | R 2½" | | | | | |
| 2 | Warm water outlet | - | G 1" | R 2" | R 2" | R 2½" | R 2½" | R 2½" | | | | | |
| 3 | Heat exchanger outlet | - | G 1" | Rp 1" | Rp 1" | Rp 1½" | Rp 1½" | Rp 1½" | | | | | |
| 4 | Heat exchanger inlet | - | G 1" | Rp 1" | Rp 1" | Rp 1½" | Rp 1½" | Rp 1½" | | | | | |
| 5 | Connection circulation | - | Rp ¾" | Rp ¾" | Rp ¾" | Rp ¾" | Rp ¾" | Rp ¾" | | | | | |
| 6 | Diameter inspection opening | mm | 110 | 115 | 115 | 180 | 180 | 180 | | | | | |
| 7 | T&P connection | - | Rp 1" | Rp ¾" | Rp ¾" | Rp ¾" | Rp ¾" | Rp ¾" | | | | | |
| 8 | Immersion well | - | Rp ¾" | Rp ¾" | Rp ¾" | Rp ¾" | Rp ¾" | Rp ¾" | | | | | |
| 10 | Anode connection | - | G 1½" | Rp 1½" | Rp 1½" | Rp 1½" | Rp 1½" | Rp 1½" | | | | | |
| 11 | Electrical element connection | - | G 1½" | - | - | - | - | - | | | | | |
| ENERGY LABELING (ERP) | | | | | | | | | | | | | |
| Load Profile | | C | C | C | - | - | - | | | | | | |
| Standby loss | W | 92 | 100 | 104 | 126 | 126 | 146 | | | | | | |

All measures are rounded off to 5mm.