













SWP



- Production of hot water up to 60°C (70°C with the electric heater)
- Operation with suction air from 8°C to 35°C (extended to -15°C to 45°C with the electric heater)
- Versions with standard storage tank or with 1 or 2 coils to be used in combination with several additional sources





DESCRIPTION

The SWP heat pumps use the thermal energy of air for production of domestic hot water. The process occurs in the most efficient and profitable way with average COPs > 3. The energy advantage of the SWP heat pumps also safeguards the environment, using most of its energy from solar radiation.

Easy installation, silent and reliable functioning and very low maintenance requirements complete the benefits of this highly ecological and economic system.

FEATURES

- Steel tank with a double vitrification.
- Condenser wrapped externally to the boiler with no scales and refrigerant-water fluid contamination
- Auxiliary coil to be used together with a boiler or solar panels
- Integrated NTC sensor to control the water temperature
- External air sensor for automatic connection of the electric heater with unfavourable temperatures in heat pump mode
- Anti-corrosion magnesium anode
- Hydraulic connections located at rear of unit
- Thermal insulation made of very thick expanded polyurethane foam with a silver grey RAL 2006 external covering (ABS)
- Adjustable support feet
- Gas R134a
- Electric heater 1500 W 230V
- High pressure safety devices

- Rotary compressor
- Radial fan with an adjustment of 40 % of the nominal flow rate

Electronic controller:

- water set point adjustment
- external air temperature sensing
- auto-diagnostic with display of the high/low pressure alarm, water overheating alarm and disconnected sensors alarm
- record of run hours
- control of minimum time between successive compressor starts
- setting of parameters from the keyboard
- control of electric heater in manual mode or in supplementary automatic mode for low external temperatures
- periodic antibacterial treatment cycle to eliminate and prevent Legionella from developing
- user display to set the operating mode and various parameters with different levels of accessibility by means of passwords

VERSIONS

SWP301: Standard where the heat pump and the electric heater are the source of heat.

SWP 30151: With auxiliary coil to be used together with a boiler or solar panels.

SWP301S2: With double auxiliary coils for simultaneous use of three heat sources.

ACCESSORIES

SWPTA: Electronic anode

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ACCESSORIES COMPATIBILITY

| Accessory | SWP301 | SWP301S1 | SWP301S2 |
|-----------|--------|----------|----------|
| SWPTA | • | • | • |

PERFORMANCE SPECIFICATIONS

| | | SWP301 | SWP301S1 | SWP301S2 | |
|--|-------|--------|----------|----------|--|
| Performance in heating mode from 10°C to 54°C(1) | | | | | |
| Heating capacity | W | 1950 | 1950 | 1950 | |
| Electric input power (average) | W | 488 | 488 | 488 | |
| Electric input power (maximum) | W | 700 | 700 | 700 | |
| Input power in standby (Pes) | W | 43 | 43 | 43 | |
| COP (2) | W/W | 2,91 | 2,91 | 2,91 | |
| Heating time | hh:mm | 07:22 | 07:22 | 07:22 | |

⁽¹⁾ Values measured when heating the water from 10°C to 54°C with 15°C inlet air temperature and 71° relative humidity (2) Value obtained on the entire L-type withdrawal cycle, at the reference temperature of 54°C (as required by EN 16147)

ELECTRIC DATA

| | | SWP301 | SWP301S1 | SWP301S2 |
|-----------------|-----|-----------|-----------|-----------|
| Power supply | | | | |
| Power supply | | 230V~50Hz | 230V~50Hz | 230V~50Hz |
| Electric heater | | | | |
| Number | no. | 1 | 1 | 1 |
| Input power | W | 1500 | 1500 | 1500 |
| Maximum current | A | 10,00 | 10,00 | 10,00 |

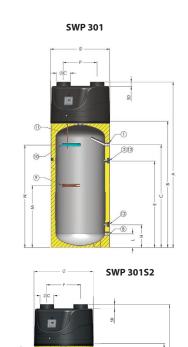
GENERAL TECHNICAL DATA

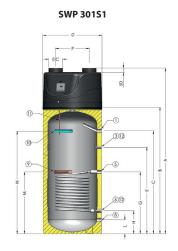
| | | SWP301 | SWP301S1 | SWP301S2 |
|--|-------|--------|-------------------------------|----------|
| Accumulation inertial | | | | |
| Storage tank capacity | I | 273 | 268 | 265 |
| Insulation thickness | mm | 50 | 50 | 50 |
| Type of corrosion protection | type | | Anodo sacrificale in magnesio | |
| Maximum operating pressure | bar | 6 | 6 | 6 |
| Maximum working pressure of auxiliary coil (inf./sup.) | bar | 10,0 | 10,0 | 10,0 |
| Auxiliary serpentine surface (inf./sup.) | | - | 1,5 | 1,5/0,6 |
| Capacity required for the coil 80/60 ° C (inf./sup.) | | - | 1,6 | 1,6/0,6 |
| Domestic hot water production 80/60 ° C - 10/45 ° C | | _ | 0,9 | 0,9/0,3 |
| (DIN 4708) | | - | 0,9 | 0,0/0,5 |
| Maximum volume of DHW usable at 40 ° C (Vmax) | I | 370 | 370 | 370 |
| Max DHW temperature with heat pump | °C | | 60 (55 di fabbrica) | |
| Fan | | | | |
| Туре | type | | Radiale | |
| Number | no. | 1 | 1 | 1 |
| Air flow rate | m³/h | 450 | 450 | 450 |
| High static pressure | Pa | 80 | 80 | 80 |
| Sound data | | · | | <u> </u> |
| Sound power level | dB(A) | 60,0 | 60,0 | 60,0 |
| Sound pressure level (L _n A at 1 metre) (1) | dB(A) | 49,0 | 49,0 | 49,0 |

⁽¹⁾ In free field, with non-ducted inlets/outlets

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DIMENSIONS







Key:

- 1 Hot water withdrawal Rp 1"
- 2 Heating delivery Rp 1"
- 3 Recirculation Rp 1/2"
- 4 Heating return Rp 1"
- 5 Solar delivery Rp 1"
- 6 Solar return Rp 1"
- 7 Condensate drainage Rp 1/2"
- Chilled water inlet Rp 1"
- 9 Electric heater Rp 1" 1/4
- 10 Anode Rp 1" 1/4
- 11 Control probe sump L = 700 mm Rp 1/2"
- 12 Probe sump L = 70 mm, Ø 12 mm

| | | SWP301 | SWP301S1 | SWP301S2 |
|----------------------|-----|--------|----------|----------|
| Dimensions and weigl | hts | | | |
| A | mm | 1845 | 1845 | 1845 |
| 3 | mm | 1410 | 1410 | 1410 |
| C | mm | 1150 | 1150 | 1150 |
| D | mm | - | - | 1060 |
| E | mm | 965 | 965 | 965 |
| F | mm | - | - | 890 |
| G | mm | - | 690 | 690 |
| Н | mm | - | 255 | 255 |
| | mm | 965 | 965 | 965 |
| L | mm | 155 | 155 | 155 |
| М | mm | 690 | 690 | 690 |
| N | mm | 1145 | 1145 | 1145 |
| Ø | mm | 660 | 660 | 660 |
| Øc | mm | 160 | 160 | 160 |
| Weight for transport | ka | 112.00 | 127.00 | 145.00 |

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