

R134a



- **AIR COOLED HEAT PUMPS FOR HOT WATER PRODUCTION UP TO 60°C (UP TO 70°C WITH AUXILIARY ELECTRIC HEATER)**
- **APPLICATION RANGE: IN HEAT PUMP WITH AIR INTAKE FROM 8°C TO 35°C (EXTENDED FROM -15°C TO 45°C WITH THE AID OF THE AUXILIARY ELECTRIC HEATER)**
- **VERSIONS WITH 200 OR 300 LITRES STORAGE TANK, OR WITH 1 OR 2 COILS TO BE USED TOGETHER WITH OTHER HEAT SOURCES (SOLAR PANELS, BOILER, HEAT PUMP)**
- **AUTOSTART FUNCTION FOR THE UNIT TO RESTART AUTOMATICALLY**

Features

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.

Main features

- Steel tank with a double vitrification layer with storage capacity of 200 litres, (models SWP 200, SWP 200 S1 and SWP 200 S2) and 300 litres, (SWP 300, SWP 300 S1 and SWP 300 S2)
- 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 tem-

- peratures 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
- Environmentally friendly refrigerant R134a
- Electric heater 1.5 kW 230V
- IEC power supply connector with insulating sheath
- High pressure safety devices
- Reciprocating hermetic 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

Possible configurations

- Standard where the heat pump and the electric heater are the source of heat (SWP 200 and SWP 300)
- With auxiliary coil to be used together with a boiler or solar panels (SWP 200 S1 and SWP 300 S1)
- With double auxiliary coils for simultaneous use of three heat sources (SWP 200 S2 and SWP 300 S2)

Dimensional Data (mm)

SWP 200 - SWP 300



SWP 200 S1 - SWP 300 S1



SWP 200 S2 - SWP 300 S2



Technical Data

Mod.		SWP 200	SWP 200 S1	SWP 200 S2	SWP 300	SWP 300 S1	SWP 300 S2
Voltage - phases - frequency	V-Ph-Hz	230 - 1 - 50	230 - 1 - 50	230 - 1 - 50	230 - 1 - 50	230 - 1 - 50	230 - 1 - 50
Heating capacity in heat pump mode	W	2.150	2.150	2.150	2.150	2.150	2.150
Electric heater power	W	1500	1500	1500	1500	1500	1500
Maximum water temperature	°C	60	60	60	60	60	60
Intake air operating range	°C	+8*/+35	+8*/+35	+8*/+35	+8*/+35	+8*/+35	+8*/+35
Total input power	W	640	640	640	640	640	640
COP	W/W	3,3	3,3	3,3	3,3	3,3	3,3
Max total input current in heat pump mode	A	3,9	3,9	3,9	3,9	3,9	3,9
Max total input current in electric heater mode	A	6,8	6,8	6,8	6,8	6,8	6,8
Compressor	Type / number	reciprocating/1					
Fan	Type / number	centrifugal/1					
Air flow rate	m³/h	450	450	450	450	450	450
Min sound power	dB(A)	59	59	59	59	59	59
Max sound power	dB(A)	71	71	71	71	71	71
Max ducted length	m	10	10	10	10	10	10
Air ducts minimum diameter	mm	160	160	160	160	160	160
Working pressure	bar	6	6	6	6	6	6
Sound pressure level	dB(A)	52	52	52	52	52	52
DHW hot water flow connection		1"	1"	1"	1"	1"	1"
DHW cold water return connection		1"	1"	1"	1"	1"	1"
Heating system return connection		1"	1"	1"	1"	1"	1"
Heating system flow connection		1"	1"	1"	1"	1"	1"
Recirculation connection		1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
Alternative heat source 1 and 2 return connection		1"	1"	1"	1"	1"	1"
Net weight	Kg	79	101	86	116	94	134
Gross weight	Kg	100	122	107	137	115	155
Storage tank capacity	L		200			300	
Unit dimensions	Height		1.670			1.865	
	Width		660			660	
	Depth		660			660	
Packaging dimensions	Height		2.050			2.050	
	Width		770			770	
	Depth		770			770	

* default settings

♪ Sound pressure measured in free field at a distance of 10m from the front and directivity factor = 2. In accordance with ISO 3744.

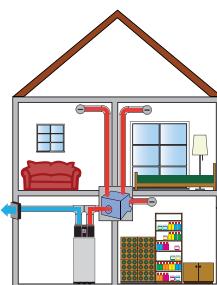
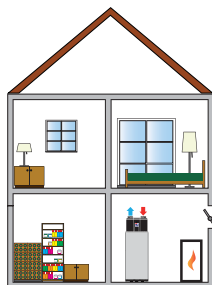
Performances in accordance with EN 255-3

Heating:

Condenser

Inlet temperature	15 °C
Outlet temperature	50 °C
External air temperature	15 °C

Installation Examples



The technical data in this document are not binding.
Aermec S.p.A. reserves the right to make whatever modifications
it deems necessary to improve the product at any time.

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