

## DHW Stand Alone



### DHW Stand Alone: highly efficient heat pump water heater.

The wide range of DHW Stand Alone heat pump is a great solution to adapt to any type of family house. The wall type is available in 100 and 150L capacities, and the Floor-standing in 200 and 270L. For reaching even more efficient use the 270L is available in additional coil, it is able to connect solar water production.

- A+ Highly efficient domestic hot water heat pump
- Provides reduced power consumption by 75 % compared with traditional electric water heater
- Easy to install
- Being CFC-free, this water heater is environmentally friendly

### 1 Energy saving

- Digital control panel with energy consumption monitoring
- Photovoltaic function
- Compatible with ducted fresh air intake installations
- Boiler/Solar Coil (only PAW-DHW270C1F)

### 2 Comfort

- Different modes of operation based on user needs
- Mode AUTO: Intelligent Temperature Set Point, thanks to monitoring hot water usage
- Mode BOOST, Mode ECO and Mode ABSENCE

### 3 Durability

- Diamond-quality enamel lining the inner tank
- Pressure relief valve which provides safety if any malfunctions or pressure rise
- Dielectric union preventing corrosion
- Specific lip gasket preventing rust around the flange



Model Reference		Wall-mounted			Floor-standing	
		PAW-DHW100W-1	PAW-DHW150W-1	PAW-DHW200F	PAW-DHW270F	PAW-DHW270C1F
Nominal capacity	L	100	150	200	270	263
Dimensions (H x W x D)	mm	1209 x 522 x 538	1527 x 522 x 538	1617 x 620 x 665	1957 x 620 x 665	1957 x 620 x 665
Empty weight	kg	57	66	80	92	111
Hot and cold connection		¾" M	¾" M	¾" M	¾" M	¾" M
Anticorrosion system	Anode	Magnesium	Magnesium	Magnesium	Magnesium	Magnesium
Rated water pressure	Mpa (bar)	0,8 (8)	0,8 (8)	0,8 (8)	0,8 (8)	0,8 (8)
Electrical connection	V / Hz	230/50	230/50	230/50	230/50	230/50
Total maximum power	W	1550	1950	2300	2300	2300
Maximal power heat pump	W	350	350	700	700	700
Power electric heating element	W	1200	1600	1600	1600	1600
Heat pump water temperature range	°C	50 ~ 62	50 ~ 62	50 ~ 62	50 ~ 62	50 ~ 62
Heat pump air temperature range	°C	-5 ~ +43	-5 ~ +43	-5 ~ +43	-5 ~ +43	-5 ~ +43
Duct diameter	mm	125	125	160	160	160
Air flow (without duct)	m³/h	160	160	310/390	310/390	310/390
Load losses acceptable on ventilation circuit, without affecting performance	Pa	70	70	25	25	25
Sound power level <sup>1)</sup>	dB(A)	45	45	53	53	53
R134a refrigerant capacity	kg	0,52	0,58	0,80	0,86	0,86
Refrigerant volume in tons of CO <sub>2</sub> equivalent	TCO <sub>2</sub> Eq.	0,74	0,83	0,50	0,54	0,54
Refrigerant weight per liter	kg/L	0,0052	0,0039	0,0040	0,0032	0,0032
Hot water quantity at 40 °C: V40td	L	151,0	182,0	265,5	361,2	357,9
Acoustic power ErP <sup>2)</sup>	dB(A)	45	45	53	53	53
Energy Efficiency Class (from A+ to F)		<b>A+</b>	<b>A+</b>	<b>A+</b>	<b>A+</b>	<b>A+</b>
Connectable to PV		Yes	Yes	Yes	Yes	Yes
Additional coil exchanger connection		—	—	—	—	1" M
Additional coil surface	m <sup>2</sup>	—	—	—	—	1,2
<b>Performance at 7 °C air temperature</b>		<b>(EN 16147) ducted at 25 Pa</b>		<b>(CDC LCIE 103-15/C) ducted at 30 Pa <sup>3)</sup></b>		
Coefficient of performance (COP) according load profile		2,66 - M	3,05 - L	2,81 - L	3,16 - XL	3,05 - XL
Standby Input power [P <sub>es</sub> ]	W	18	24	32	29	33
Heating up time [t <sub>h</sub> ]	h. Min	6h47	10h25	07h11	10h39	11h04
Reference hot water temperature [T <sub>ref</sub> ]	°C	52,7	53,2	52,7	53,1	52,9
Flow rate [air]	m³/h	140	110	320	320	320
<b>Performance at 15 °C air temperature (EN 16147)</b>		2,88 - M	3,28 - L	3,05 - L	3,61 - XL	3,44 - XL
Coefficient of performance (COP) according load profile		2,88 - M	3,28 - L	3,05 - L	3,61 - XL	3,44 - XL
Standby Input power [P <sub>es</sub> ]	W	19	25	30	30	33
Heating up time [t <sub>h</sub> ]	h. Min	6h07	9h29	6h24	8h34	8h40
Reference hot water temperature [T <sub>ref</sub> ]	°C	52,6	53,4	52,8	53,0	53,1
Flow rate [air]	m³/h	140	110	320	320	320

1) According to ISO3744. 2) Compliant with EN 16147 conditions. 3) Performance measured for a water heater from 10 °C to T<sub>ref</sub> according to the protocol of the NF Electricity Performance Mark specifications No.LCIE 103-15C, selfheating thermodynamic water heaters (based on standard EN 16147). \* DHW Stand Alone is produced by S.A.T.E.

## Ideal for small surfaces

Suitable for all installations (adapted to small surfaces, low ceiling, corner).

