

AERMEC



SWP

Water heater with
SWP heat pump
Hot water
finally costs less.
+ Efficiency
+ Savings
+ Wellbeing

SWP AERMEC

all the hot water you could want, with particularly high efficiency levels



- AERMEC SWP heats domestic water to 60°C using free heat from the surrounding environment. The result is unprecedented ENERGY EFFICIENCY, for FINANCIAL SAVINGS of 75% as compared to an electric water heater and 35% as compared to a condensing boiler;
- AERMEC SWP allows you to safely store all the hot water you want, thanks to its 200 or 300-litre steel tank with double-layer vitrification and its AUTOMATIC ANTILEGIONELLA CYCLE MANAGEMENT.
- AERMEC SWP is ENVIRONMENTALLY FRIENDLY because it can be combined with renewable energy sources such as SOLAR THERMAL, GEOTHERMAL AND PHOTOVOLTAIC systems; it also helps to reduce CO₂ emissions

-75%

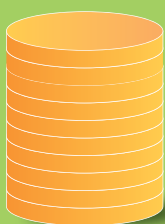
ANNUAL SAVING AS COMPARED TO AN ELECTRIC WATER HEATER

ANNUAL ENERGY EXPENDITURE WITH ELECTRIC WATER HEATER

ANNUAL ENERGY EXPENDITURE WITH AERMEC SWP

-75%

CORRESPONDING REDUCTION IN CO₂ EMISSIONS RELEASED INTO THE ATMOSPHERE



INSTALLATION EXAMPLES



COP=3,3 70°C 75% 35%

THE HIGHEST ENERGY EFFICIENCY OF ALL WATER HEATERS WITH HEAT PUMPS CURRENTLY AVAILABLE

MAXIMUM TEMPERATURE OF THE HOT WATER PRODUCED

ENERGY SAVED AS COMPARED TO AN ELECTRIC WATER HEATER

ENERGY SAVED AS COMPARED TO A CONDENSING BOILER



SAVINGS ON ENERGY BILLS

The water heater with SWP heat pump from AERMEC exploits the same principle as the household refrigerator, but in reverse. The domestic water is actually heated using free heat from the surrounding environment. SWP multiplies the electricity extracted from the mains supply by 3.3. This helps to reduce your energy bill by 75% as compared to a traditional electric water heater and

by 35% as compared to a condensing boiler. Plus, by exploiting the thermal inertia of the 200 or 300-litre tank, it is also possible to benefit greatly from the new "Bioraria" peak/off-peak tariff by ensuring most operation takes place at night.



RESPECT FOR THE ENVIRONMENT

Increased energy efficiency and the use of the environmentally friendly fluid R134a help to make Aermec SWP a

machine that respects the environment. CO₂ emissions are 30% lower than when a condensing boiler is used.



HIGH-TEMPERATURE DOMESTIC HOT WATER

The SWP heat pump can produce domestic hot water up to a temperature of 70°C, thanks to its integrated electric heating element. Hygiene is guaranteed by automatic antilegionella cycles.



Water heater with Aermec SWP heat pump. Hot water finally costs less.

The SWP heat pump heats domestic water efficiently and cheaply. SWP actually uses the free heat from the surrounding environment. SWP multiplies the input electricity by 3.3 on average and can therefore be used to achieve significantly reduce energy bills. Plus, by exploiting the thermal inertia of the 200 or 300-litre tank, it is also possible to benefit greatly from the new “Bioraria” peak/off-peak tariff by concentrating operation into the cheaper time bands. The SWP water heater can be installed inside the boiler room. The table below shows the potential savings for a family of four.

	ANNUAL DOMESTIC HOT WATER REQUIREMENT FOR 4 PEOPLE (KWH/YEAR)	PRODUCT EFFICIENCY % (AT THE METER)	ANNUAL ELECTRICITY CONSUMPTION (KWH/YEAR)	ENERGY COST (EURO/KWH)	ANNUAL ENERGY COST (EURO/KWH)
Traditional 80 l electric water heater	1.800	80%	2250	0,18 €	405 €
Water heater with Aermec SWP heat pump	1.800	330% (COP = 3,3)	550	0,18 €	99 €
ANNUAL SAVING			1700 kWh		306 €

	ANNUAL DOMESTIC HOT WATER REQUIREMENT FOR 4 PEOPLE (KWH/YEAR)	ANNUAL METHANE CONSUMPTION (M ₃)	ELECTRICITY CONSUMPTION	COST PER UNIT OF ENERGY	ANNUAL ENERGY COST (EURO)
Condensing boiler	1.800	185	0	0,8 €/m ³	148
Water heater with Aermec SWP heat pump	1.800	0	550	0,18 €/kWh	99
ANNUAL SAVING					49 €

* Requirements calculated for 100 days of annual use

Technical data

Mod.

SWP 300 / 300S1 / 300 S2

Voltage - phases - frequency	V-Ph-Hz	230 - 1 - 50
Heating capacity	W	2.150
Total input power	W	640
C.O.P.	W/W	3,3
Electric heater power	W	1.500
Maximum water temperature	°C	60
Intake air operating range	°C	+8*/+35
Max. total input current in heat pump mode	A	3,9
Max. total input current - electric heating element	A	6,8
Compressor	tipo/numero	alternativo/1
Fan	tipo/numero	centrifugo/1
Air flow rate	m3/h	450
Min. sound power	dB(A)	59
Max. sound power	dB(A)	71
Max. ducted length	m	10
Air ducts minimum diameter	mm	160
Working pressure	bar	6
Sound pressure level**	dB(A)	52
DHW hot water flow connection		1"
DHW cold water flow connection		1"
Heating system return connection		1"
Heating system flow connection		1"
Alternative heat source 1 and 2 return connection		1"
Recirculation connection		1/2"

* 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

For further informations, please refer to the technical booklet available in the web site www.aermec.com

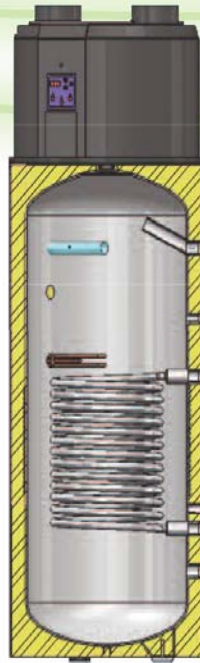
Aermec S.p.A. shall have the right to introduce at any time whatever modifications deemed necessary for the improvement of the product.

Dimensional Data (mm)

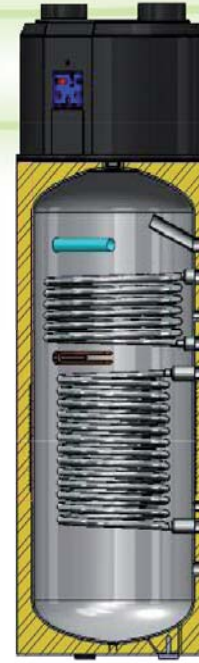
SWP 300



SWP 300 S1



SWP 300 S2



Mod.			SWP 300	SWP 300S1	SWP 300S2
Net weight		kg	116	94	134
Gross weight		kg	137	115	155
Unit size	altezza	mm	1.865	1.865	1.865
	larghezza	mm	660	660	660
	profondità	mm	660	660	660
Package size	altezza	mm	2.050	2.050	2.050
	larghezza	mm	770	770	770
	profondità	mm	770	770	770

For further information, please refer to the technical booklet available in the web site www.aermec.com

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Water heater with **AERMEC SWP** heat pump



Aermec, a leading air conditioning and climate control brand and manufacturer in Italy and throughout Europe, has dedicated its technology and research capabilities to the creation of a complete range of chillers and heat pumps, ranging from domestic installations to extremely powerful systems for the tertiary sector and industrial applications. In recent years, the widespread use of heat pumps in the residential sector has demanded extra attention. Aermec has played a part in this expansion by creating increasingly versatile and efficient heat pumps. Aermec heat pumps are now the most economical and environmentally friendly alternative to traditional boilers fitted with a burner.