

SWP

HIGH TEMPERATURE AIR COOLED HEAT PUMPS
FOR THE PRODUCTION OF DOMESTIC HOT WATER



Air cooled - Radial fan
Reciprocating hermetic compressor - R134a
Heating capacity 1.950 W - Storage tank capacity up 265 to 273l



SWP AERMEC

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

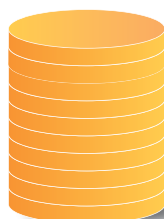


- AERMEC SWP heats domestic water to 60°C using free heat from the surrounding environment. The result is unprecedented ENERGY EFFICIENCY, for FINANCIAL SAVINGS of 75% as compared to an electric water heater and 35% as compared to a condensing boiler;
- AERMEC SWP allows you to safely store all the hot 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

COP=3,3

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

70°C

MAXIMUM TEMPERATURE
OF THE HOT
WATER PRODUCED

75%

ENERGY SAVED AS
COMPARED TO AN
ELECTRIC WATER HEATER

35%

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.

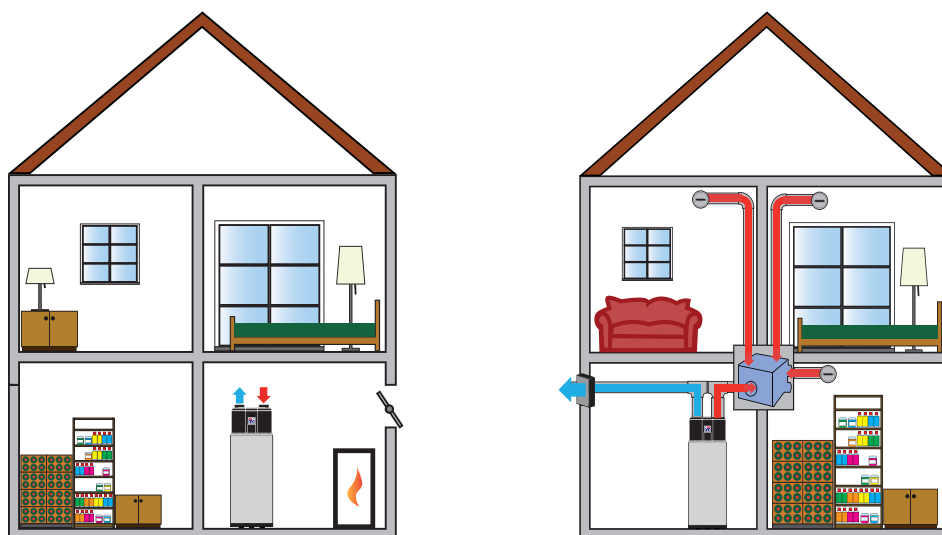
The SWP heat pump heats domestic water efficiently and cheaply. SWP actually uses the free heat from the surrounding environment. SWP multiplies the input electricity by 3.3 on average and can therefore be used to achieve significantly reduce energy bills. Plus, by exploiting the thermal inertia of the 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 [kWh]	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 €

* Fabbisgno calcolato per 100 giorni di utilizzo annuo

Installation examples



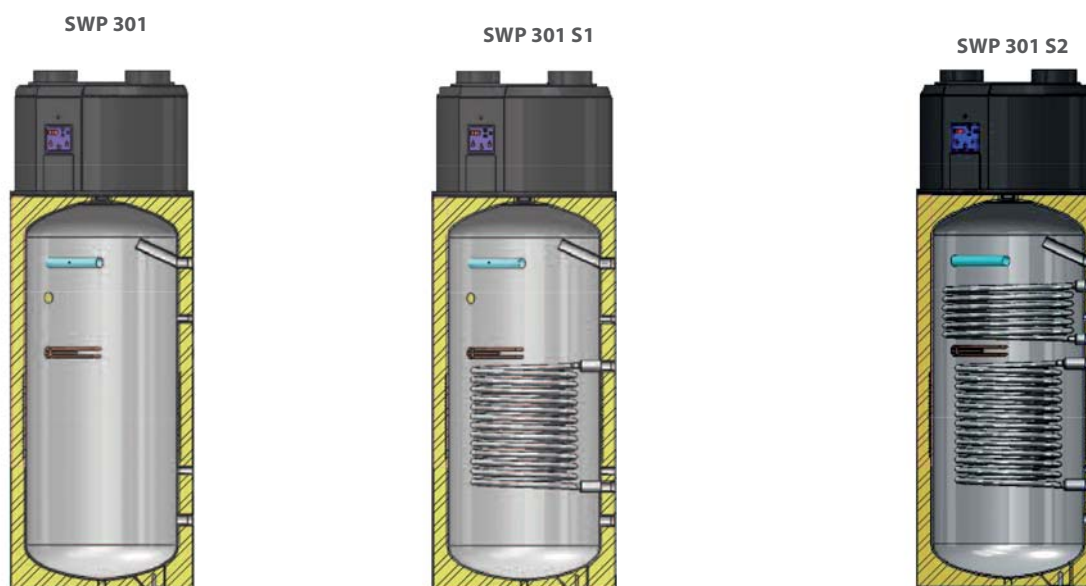
Technical data SWP

		SWP 301	SWP 301S1	SWP 301S2
Capacità serbatoio	l	273	268	265
Tipo di protezione dalla corrosione		anodo sacrificale in magnesio		
Diametro attacchi idrici pollici	inch	1" F		
Diametro scarico condensa pollici	inch	1/2" F		
Pressione massima di esercizio	bar	6		
Pressione massima di esercizio serpentino ausiliario (inf./sup.)	bar	10		
Superficie serpentino ausiliario (inf./sup.)	m ²	/	1.5	0.6/1.5
Portata necessaria al serpentino 80/60°C (inf./sup.)	m ³ /h	/	1.6	0.6/1.6
Produzione acqua calda sanitaria 80/60°C - 10/45°C (DIN 4708)	m ³ /h	/	1.1	0.4/1.1
Peso a vuoto	kg	112	127	145
Spessore isolamento	mm	50		
Alimentazione		230 - 1 - 50Hz		
Potenza termica (1)	W	1950		
Potenza elettrica assorbita (media) (1)	W	488		
Potenza elettrica assorbita max	W	700		
Potenza assorbita in stand-by (Pes)	W	43		
COPDHW (2)		2.91		
Tempo di riscaldamento (th) (1)	hh:mm	07:22		
Volume max di ACS utilizzabile a 40°C (Vmax) (2)	l	370		
Max temperatura ACS con pompa di calore	°C	60 (55 di fabbrica)		
Potenza resistenza elettrica	W	1500		
Corrente assorbita resistenza elettrica	A	6.3		
Portata d'aria	m ³ /h	450		
Pressione statica utile	Pa	80		
Diametro tubi aspirazione/espulsione	mm	160		
Max lunghezza canalizzazioni (aspirazione+espulsione)	m	10		
Livello potenza sonora (LwA)	dB(A)	60		
Dimensione unità	altezza mm	1.845		
	larghezza mm	660		
	larghezza mm	660		
Dimensione imballo	altezza mm	2.050		
	larghezza mm	770		
	larghezza mm	770		

(1) valori misurati riscaldando l'acqua da 10°C a 54°C con temperatura dell'aria aspirata a 15°C e umidità relativa del 71%

(2) valore ottenuto sull'intero ciclo di prelievo tipo L, alla temperatura di riferimento di 54°C, secondo quanto previsto dalla EN16147

(3) al di fuori del range di temperatura della pompa di calore il riscaldamento dell'acqua è assicurato dalla resistenza elettrica



Per maggiori dettagli fare riferimento al manuale tecnico presente sul sito www.aermec.com

Aermec si riserva la facoltà di apportare in qualsiasi momento le modifiche ritenute necessarie per il miglioramento del prodotto con l'eventuale modifica dei dati pubblicati.

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