



EPPY

*Reversible heat pump
with standard pump*



- **High-efficiency heat pump**
- **Compact machine**
- **Optional DHW production**
- **Complete with circulation pumps**
- **Easy installation**

EPPY is a reversible high efficiency water to water heat pump, sized for use in residential and tertiary application, which allows the building air conditioning and domestic hot water heating.

Eppy is commonly used in combination with a domestic water vessel which is heated with hot water priority logic at any time of year, at a different temperature set than the temperature set of the water feeding the air conditioning system.

The d.h.w. management priorities belongs to the control of a three-way valve supplied as accessory, factory assembled.

The units are equipped with Class A water pumps, water flow safety devices and safety valves (3 Bar). Models 031-041-051-061 are also equipped with expansion vessels.

The heat pump Eppy employ natural energies as the water or the ground source for the geothermic version. These

units exchanges the heat by means of well water or layer water.

This system reduces the dimensions of the unit and allow easy indoor installations. Also the consumption is highly reduced if compared to the traditional devices.

Eppy is electric supplied. It do not use fossil fuels, it do not produce pollution and it do not need chimney. The totally sealed refrigerant system do not need any maintenance, which are indispensable on the traditional heating systems using boilers. No fossil fuels means no safety problems with higher environmental safety levels.

Eppy is the heating and cooling "generator" to which the room heating and cooling elements have to be connected. The system assembling time and costs are extremely reduced because Eppy includes many parts which, normally, belong to the plumbing. All the cover panels can be easily removed to allow the access inside and let the maintenance easy..



Accessories

Refrigerants gauges
Top remote control
Anti-vibration mount feet
Modulating valve
D.h.w. pump - heat exch. kit (type 101/111/121)
Amb. temp. Sensor (DYNAMIC SET POINT)
Compressors soft starter
Kit valve 3 ways
D.h.w. Int. el. heater
Antilegionella ctrl kit (ext. fitting)
Crankcase heater (INCLUDED)

EPPY STD			031 A-M	041 A-M	041 A-T	051 A-T	061 A-T	042 A-T	052 A-T	062 A-T
	Unit std. energetic class (3)		A++	A++	A++	A++	A++	A++	A++	A++
	Seasonal efficiency η_{sh} (3)		173	173	177	178	179	208	211	212
	SCOP (3)		4,53	4,53	4,61	4,66	4,68	5,41	5,47	5,49
W10/W35	Heating capacity	kW	13,5	15,3	15,3	18,1	22	30,5	36,2	43,9
	External source power	kW	11	12,5	12,5	14,9	18,1	25	29,7	36,2
	Total power input (1)	kW	2,74	3,09	3,03	3,53	4,24	6,1	7,09	8,51
	COP (EN 14511-2013)		5	5	5,1	5,2	5,2	5,1	5,2	5,2
W10/W45	Heating capacity	kW	12,6	14,3	14,3	16,9	20,5	28,5	33,7	41
	External source power	kW	9,5	10,8	10,8	12,8	15,7	21,7	25,6	31,3
	Total power input (1)	kW	3,39	3,82	3,75	4,41	5,26	7,52	8,85	10,56
	COP (EN 14511-2013)		3,8	3,8	3,9	3,9	3,9	3,9	3,9	3,9
W30/W7	Cooling capacity	kW	10,7	12,4	12,5	14,9	18,1	25,1	29,8	36,2
	External source power	kW	13,2	15,2	15,3	18,1	22	30,5	36,2	43,9
	Total power input (1)	kW	2,72	3,07	3,02	3,51	4,21	6,06	7,05	8,46
	EER (EN 14511-2013)		4,2	4,3	4,4	4,5	4,5	4,3	4,4	4,4
W30/W18	Cooling capacity	kW	14,7	17,1	17,3	20,4	24,8	34,6	40,8	49,7
	External source power	kW	17,3	20	20,1	23,8	28,9	40,3	47,5	57,8
	Total power input (1)	kW	2,8	3,21	3,15	3,66	4,41	6,32	7,35	8,85
	EER (EN 14511-2013)		5,6	5,6	5,8	5,9	5,9	5,7	5,7	5,8
Scroll compressors	n°	1	1	1	1	1	2	2	2	
Refrigerant circuits	n°	1	1	1	1	1	1	1	1	
Capacity steps	n°	1	1	1	1	1	2	2	2	
Main supply voltage	V/Ph/Hz	230/1/50			400/3/50					
Noise power level Lw (2)	dB(A)	62,4	62,4	62,4	62,4	62,4	65,4	65,4	65,4	
Noise pressure level Lp (2)	dB(A)	51,4	51,4	51,4	51,4	51,4	54,4	54,4	54,4	
Refrigerant		R 410A								
SIZES AND WEIGHT										
Length	mm	602	602	602	602	602	750	750	750	
Width	mm	680	680	680	680	680	795	795	795	
Height	mm	1030	1030	1030	1030	1030	1360	1360	1360	
Weight	Kg	136	139	139	149	151	231	232	239	
Plant water flow (W30/W7)	l/s	0,51	0,59	0,6	0,71	0,86	1,2	1,42	1,73	
Well water flow (W30/W7)	l/s	0,63	0,73	0,73	0,86	1,05	1,46	1,73	2,1	
STANDARD USER SIDE HYDRONIC KIT STD										
User side pump std	n°	1	1	1	1	1	1	1	1	
Water flow plant side (W30/W7)	kPa	70	66	65	65	56	104	89	74	
Power input	kW	0,14	0,14	0,14	0,14	0,14	0,31	0,31	0,31	
Current input	A	1,0	1,0	1,0	1,0	1,0	1,4	1,4	1,4	
USER PLANT HIGH PREVALENCE PUMP (optional)										
User plant pump	n°	-	-	-	-	-	1	1	1	
Available externe pressure (W30/W7)	kPa	-	-	-	-	-	167	155	140	
Power input	kW	-	-	-	-	-	0,91	0,91	0,91	
Current input	A	-	-	-	-	-	4,3	4,3	4,3	

W10/W35_Plant exchanger water (in/out): 30/35 °C - External source water temperature (in/out): 10/7 °C

W10/W45_Plant exchanger water (in/out): 40/45 °C - External source water temperature (in/out): 10/7 °C

W30/W7_Plant exchanger water (in/out): 12/7 °C - External source water temperature (in/out): 30/35 °C

W30/W18_Plant exchanger water (in/out): 23/18 °C - External source water temperature (in/out): 30/35 °C

(1) Total power input incl. user plant water pump

(2) Noise power according to ISO3744 regulation / Average noise pressure at 1 m in a free field on a reflective surface

(3) In compliance with EU 811/2013 Regulation_“Average” climate conditions

Main Components

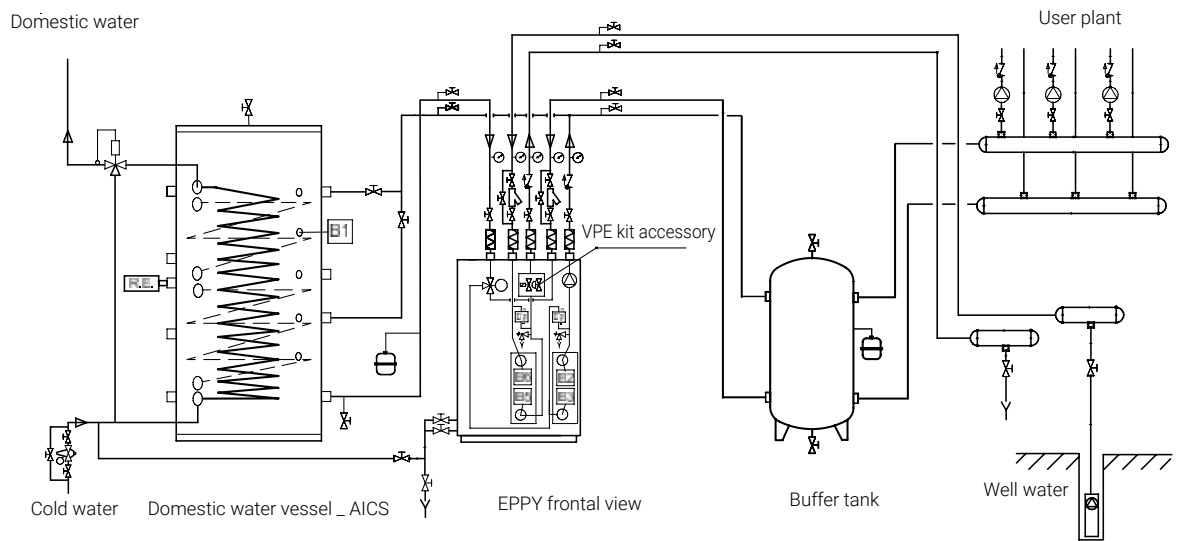
STD well water			
STD well water version	Well water pump	User plant pump	Expansion vessels
EPPY0310M	NO	CIRC	YES
EPPY0410M	NO	CIRC	YES
EPPY0410T	NO	CIRC	YES
EPPY0510T	NO	CIRC	YES
EPPY0610T	NO	CIRC	YES
EPPY0420T	NO	CIRC	NO
EPPY0520T	NO	CIRC	NO
EPPY0620T	NO	CIRC	NO

HP1 well water			
HP1 well water version	Well water pump	User plant pump	Expansion vessels
EPPY42P0T	NO	CENTR	NO
EPPY52P0T	NO	CENTR	NO
EPPY62P0T	NO	CENTR	NO

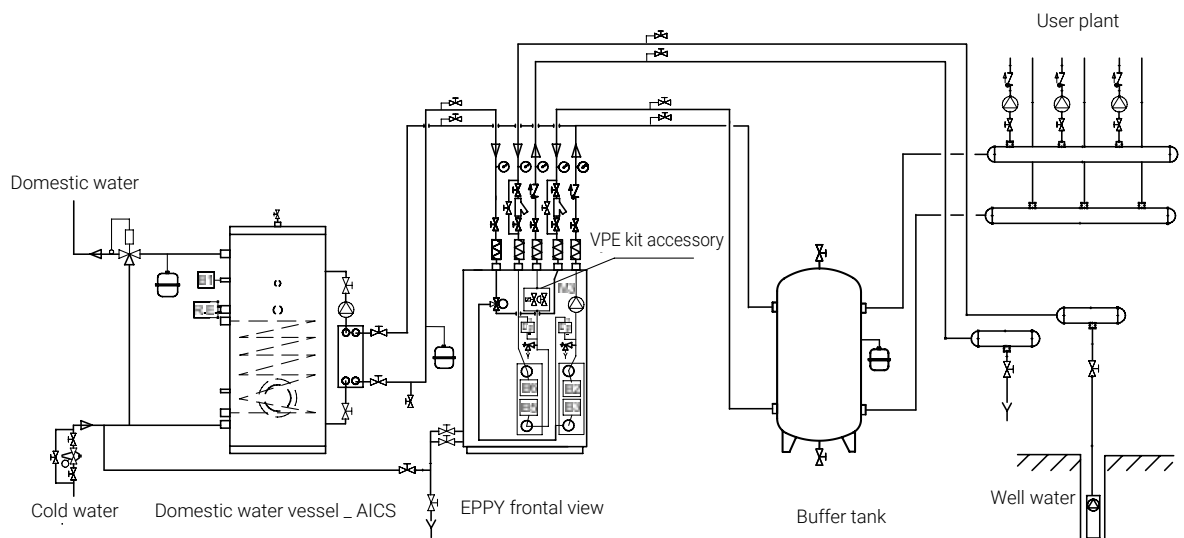
CIRC = Low consumption circulator (A energetic class)
 CENTR = High pressure centrifugal pump

System configurations

WELL WATER EPPY + AICS



WELL WATER EPPY + BAVF



WELL WATER EPPY + BAVY

