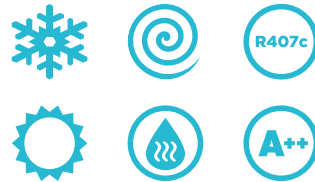




MAMY

*Reversible well water heat pump
DHW production*



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

Mamy is a compact heat pump able to provide the buildings air conditioning and, contemporary, the tap water heating. According to the demands, Mamy can be used to heat the water stored into the tap water vessel or to heat the buffer tank which can be used as an "heating lung" to supply high temperature heating elements and to provide the domestic hot water.

Mamy is equipped with the proved "Genius control system" developed and patented by COM40. Genius is the brain of the system which automatically manages the plumbing demands. The user can choose between the following operation modes:

- rooms heating and domestic hot water - winter mode

- rooms cooling and domestic hot water - summer mode
- domestic hot water only - medium seasons mode

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

Well water cooled model

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.

Accessories

Refrigerants gauges
Top remote control
Anti-vibration mount feet
Head press. ctrl water valve + electro valve
Integrated anti-legionella kit (2/3 kW)
D.h.w. pump - heat exch. kit (type 11/21/36)
Amb. temp. Sensor (DYNAMIC SET POINT)
Solar control kit
Free-cooling kit
Multistep control kit
Compressor crankcase heater (INCLUDED)

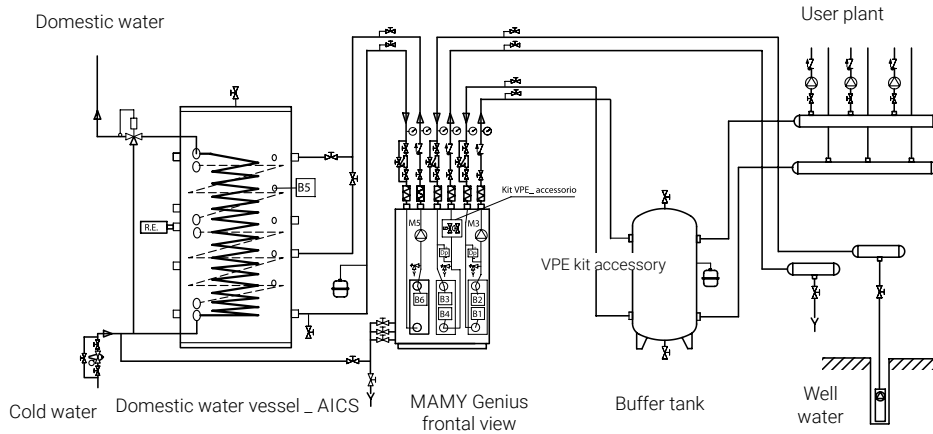
MAMY WELL WATER			021 C-M	026C-M	031 C-M	041 C-T	051 C--T	061 C-T	042 C-T	052 C-T	062 C-T
	Energetic class		A++	A++	A++	A++	A++	A++	A++	A++	A++
	Seasonal efficiency η_{sh} (3)		162	163	175	181	175	184	214	207	208
	SCOP		4,32	4,34	4,57	4,72	4,57	4,79	5,54	5,36	5,4
W10/W35	Heating capacity	kW	6,3	8,1	11,8	15,1	19	23,1	30,2	38	44,3
	External source power	kW	5,1	6,5	9,6	12,4	15,5	19,1	24,9	31,1	38,2
	Total power input (1)	kW	1,4	1,76	2,53	3,07	3,91	4,49	6,2	7,88	9,04
	COP (EN 14511-2013)		4,9	4,9	5,1	5,2	5,1	5,3	5,2	5	4,9
W10/W45	Heating capacity	kW	6	7,7	11,2	14,2	17,9	21,6	28,4	35,8	42,1
	External source power	kW	4,5	5,8	8,5	10,9	13,6	16,6	21,7	27,2	32
	Total power input (1)	kW	1,74	2,18	3,13	3,78	4,84	5,6	7,62	9,73	11,2
	COP (EN 14511-2013)		3,7	3,7	3,8	4	3,9	4	3,9	3,8	3,8
W30/W7	Cooling capacity	kW	4,8	6,2	8,7	11,8	14,7	18,1	23,5	29,5	35,6
	External source power	kW	6	7,8	10,9	14,5	18,3	22,2	28,9	36,5	44,3
	Total power input (1)	kW	1,43	1,8	2,59	3,13	3,99	4,58	6,32	8,03	9,22
	EER (EN 14511-2013)		3,5	3,5	3,5	3,8	3,8	4	3,8	3,7	3,9
W30/W18	Cooling capacity	kW	6,7	8,7	12,2	16,8	20,8	25,4	33,7	41,7	50,8
	External source power	kW	7,9	10,2	14,3	19,6	24,4	29,6	39,1	48,9	59,2
	Total power input (1)	kW	1,42	1,77	2,54	3,15	4,06	4,7	6,36	8,18	9,47
	EER (EN 14511-2013)		5,3	5,3	5,3	5,6	5,4	5,4	5,6	5	5,2
Scroll compressors	n°	1	1	1	1	1	1	1	2	2	2
Refrigerant circuits	n°	1	1	1	1	1	1	1	1	1	1
Capacity steps	n°	1	1	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)	60,2	60,2	62,4	62,4	62,4	62,4	65,4	65,4	65,4	65,4
Noise pressure level Lp (2)	dB(A)	49,2	49,2	51,4	51,4	51,4	51,4	54,4	54,4	54,4	54,4
Refrigerant		R 407C									
SIZES AND WEIGHT											
Length	mm	602	602	602	602	602	602	602	750	750	750
Width	mm	680	680	680	680	680	680	680	795	795	795
Height	mm	1030	1030	1030	1030	1030	1030	1030	1360	1360	1360
Weight	Kg	120	123	152	152	193	195	195	247	247	256
Plant water flow (W30/W7)	l/s	0,2	0,3	0,4	0,6	0,7	0,9	0,9	1,1	1,4	1,7
Well water flow (W30/W7)	l/s	0,3	0,4	0,5	0,7	0,9	0,9	1,1	1,4	1,7	2,1
STANDARD USER SIDE HYDRONIC KIT STD											
User side pump std	n°	1	1	1	1	1	1	1	1	1	1
Available externe pressure (W30/W7)	kPa	67	62	78	73	71	65	65	110	93	77
Power input	kW	0,07	0,07	0,14	0,14	0,14	0,14	0,14	0,31	0,31	0,31
Current input	A	0,6	0,6	1,3	1,3	1,3	1,3	1,3	1,4	1,4	1,4
ACS side pump	n°	1	1	1	1	1	1	1	1	1	1
Available externe pressure (W30/W7)	kPa	65	59	75	70	63	53	53	97	71	48
Power input	kW	0,07	0,07	0,14	0,14	0,14	0,14	0,14	0,31	0,31	0,31
Current input	A	0,6	0,6	1	1	1	1	1	1,4	1,4	1,4
User plant HIGH PREVALENCE PUMP (optional)											
User plant water pump	n°	-	-	-	-	1	1	1	1	1	1
Available externe pressure (W30/W7)	kPa	-	-	-	-	138	125	125	167	155	140
Power input	kW	-	-	-	-	0,6	0,6	0,6	0,91	0,91	0,91
Current input	A	-	-	-	-	2,7	2,7	2,7	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

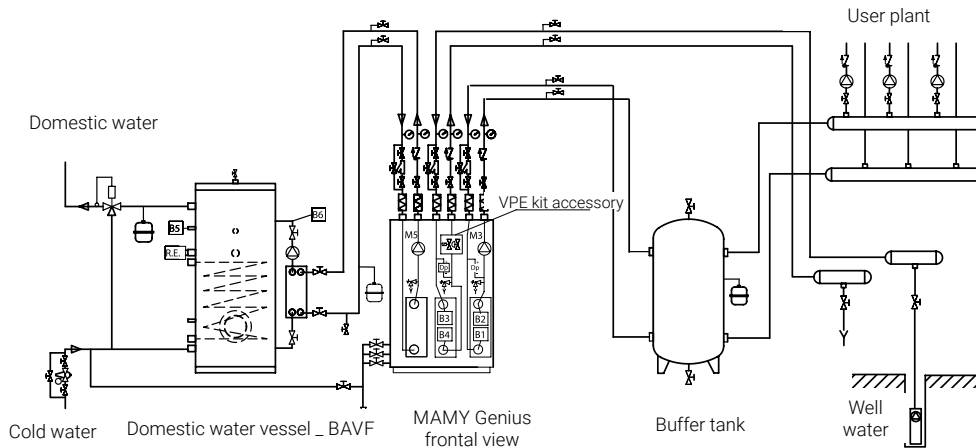
W30/W18_Plant exchanger water (in/out): 23/18 °C - External source water temperature (in/out): 30/35 °C
(1) Total power input incl. user plant water pump and DHW side pump
(2) Noise power according to ISO3744 regulation / Average noise pressure at 1 m in a free field on a reflective surface
(3) In compliance with EU 811/2013 Regulation_ "Average" climate conditions

System configurations

WELL WATER MAMY + AICS



WELL WATER MAMY + BAVF



WELL WATER MAMY + BAVY

