

MULTITASKING FAN HEATER Monobloc Heat Pump V10 Series

MUNDOCLIMA®



FEATURES:

- Compact dimensions, single fan up to 16 kW.
- Fully hydraulic installation.
- Variable speed circulating pump.
- Keymark certification.
- Low sound pressure level.
- Wide range of operating water temperatures.
- Operation under low outdoor temperatures.
- Multiple uses: heating, cooling and/or Domestic Hot Water.
- Up to two configurable zones.
- Possibility of cascade installation of up to 6 units.
- Control included with schedule and weekly programming.
- Configurable anti-legionella mode.
- Hybridization with a solar thermal system that can be integrated into the panel.
- Smart Grid function for hybridization with a photovoltaic installation.
- WIFI connection for app control.



4 and 6 kW

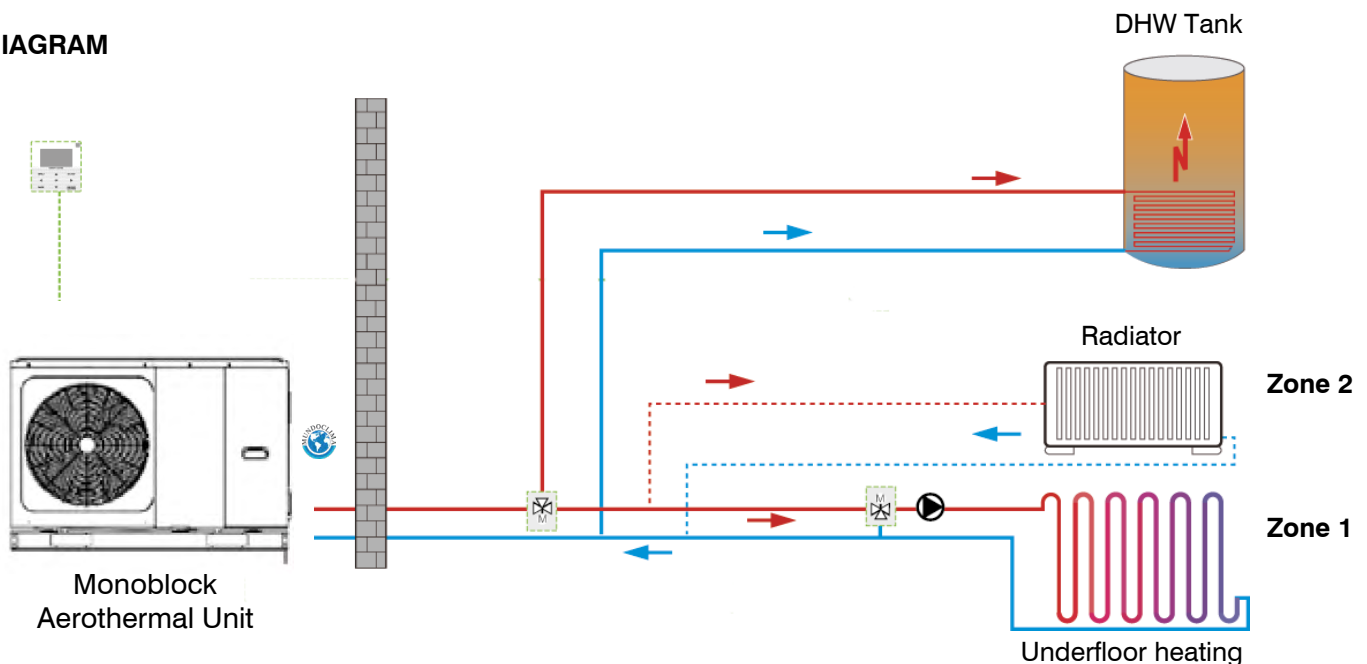


8 to 16 kW

Download "iLetComfort" application:



DIAGRAM



MULTITASKING FAN HEATER Monobloc Heat Pump V10 Series



SPECIFICATIONS

Model			MAM-4-V10M	MAM-6-V10M	MAM-8-V10M	MAM-10-V10M	MAM-12-V10M		
Code			CL45200	CL45201	CL45202	CL45203	CL45204		
Heating (middle zone)	Conditions 1 Air: 7°C / 85% RH Water: 30 / 35 °C	Capacity	kW	4.2	6.35	8.40	10.00	12.10	
		Consumption	kW	0.82	1.28	1.63	2.02	2.44	
		COP		5.10	4.95	5.15	4.95	4.95	
		SCOP		4.85	4.95	5.22	5.20	4.81	
		ηs	%	191.0	195.0	205.6	204.8	189.4	
		Energy labeling		A+++	A+++	A+++	A+++	A+++	
	Conditions 2 Air: 7°C / 85% RH Water: 40 / 45°C	Capacity	kW	4.30	6.30	8.10	10.00	12.30	
		Consumption	kW	1.13	1.70	2.10	2.67	3.32	
		COP		3.80	3.70	3.85	3.75	3.70	
		SCOP		3.31	3.52	3.37	3.47	3.45	
		ηs	%	129.5	137.9	131.6	135.7	135.1	
		Energy labeling		A++	A++	A++	A++	A++	
	Conditions 3 Air: 7°C / 85% RH Water: 47 / 55°C	Capacity	kW	4.40	6.00	7.50	9.50	11.90	
		Consumption	kW	1.49	2.08	2.36	3.06	3.90	
		COP		2.95	2.95	3.18	3.10	3.05	
SCOP		3.31	3.52	3.37	3.47	3.45			
ηs		%	129.5	137.9	131.6	135.7	135.1		
Energy labeling		A++	A++	A++	A++	A++			
Cooling		Conditions 4 Air: 35°C Water: 23 / 18°C	Capacity	kW	4.50	6.50	8.30	9.90	12.00
			Consumption	kW	0.82	1.35	1.64	2.18	3.04
	EER		5.50	4.80	5.05	4.55	3.95		
	SEER		7.69	8.13	8.87	8.70	7.02		
	Conditions 5 Air: 35°C Water: 12 / 7°C	Capacity	kW	4.70	7.00	7.45	8.20	11.50	
		Consumption	kW	1.36	2.33	2.22	2.52	4.18	
		EER		3.45	3.00	3.35	3.25	2.75	
		SEER		4.91	5.26	5.75	5.90	4.81	
Plate-type heat exchanger	Water flow (min ~ max)		m³/h	0.4 ~ 0.9	0.4 ~ 1.25	0.4 ~ 1.65	0.4 ~ 2.1	0.7 ~ 2.5	
	Water volume		L	3.2	3.2	3.2	3.2	2	
	Maximum pressure drop		kPa	85	85	85	85	86	
Water pump	Model			APM25-9-130-3 PWM1	APM25-9-130-3 PWM1	APM25-9-130-3 PWM1	APM25-9-130-3 PWM1	APM25-9-130-3 PWM1	
	Nominal flow		m³/h	0.72	1.09	1.44	1.72	2.08	
	Height		m	9	9	9	9	9	
Hydraulic connections	Inlet/outlet water		mm	DN 25	DN 25	DN 32	DN 32	DN 32	
Expansion vessel volume			L	8	8	8	8	8	
Safety valve			MPa	0.3	0.3	0.3	0.3	0.3	
Fan	Air flow rate		m³/h	2770	2770	4030	4030	4060	
Compressor	Brand			Mitsubishi Electric	Mitsubishi Electric	Mitsubishi Electric	Mitsubishi Electric	Mitsubishi Electric	
	Model			SVB172FNPMC-L	SVB172FNPMC-L	SVB220FLGMC-L	SVB220FLGMC-L	MVB42FCDMC	
Sound pressure			dB (A)	45	47.5	48.5	50.5	53	
Sound power			dB (A)	55	58	59	60	65	
Dimensions (W x H x D)			mm	1295 x 792 x 429	1295 x 792 x 429	1385 x 945 x 526	1385 x 945 x 526	1385 x 945 x 526	
Weight			kg	98	98	121	121	144	
Refrigerant	Type / GWP			R32 / 675	R32 / 675	R32 / 675	R32 / 675	R32 / 675	
	Load		kg	1.40	1.40	1.40	1.40	1.75	
	CO ₂ equivalence		TCO ₂ eq	0.95	0.95	0.95	0.95	1.18	
Electrical Data	Power supply		V-Hz-Ph	220 - 240 / 50 / 1	220 - 240 / 50 / 1	220 - 240 / 50 / 1	220 - 240 / 50 / 1	220 - 240 / 50 / 1	
	Rated / max. intensity		A	12 / 25	14 / 25	16 / 25	17 / 25	25 / 35	
	Power cable (1*)		mm²	2 x 6 + T	2 x 6 + T	2 x 6 + T	2 x 6 + T	2 x 10 + T	
Operating temperature range	Cooling		°C	-5 ~ 43	-5 ~ 43	-5 ~ 43	-5 ~ 43	-5 ~ 43	
	Heating		°C	-25 ~ 35	-25 ~ 35	-25 ~ 35	-25 ~ 35	-25 ~ 35	
	DHW		°C	-25 ~ 43	-25 ~ 43	-25 ~ 43	-25 ~ 43	-25 ~ 43	
Water supply temperature range	Cooling		°C	5 ~ 25	5 ~ 25	5 ~ 25	5 ~ 25	5 ~ 25	
	Heating		°C	25 ~ 65	25 ~ 65	25 ~ 65	25 ~ 65	25 ~ 65	
	DHW		°C	30 ~ 60	30 ~ 60	30 ~ 60	30 ~ 60	30 ~ 60	

Note: (1*) Recommended power wiring for L < 20 m should be calculated according to the conditions of each installation.

MULTITASKING FAN HEATER Monobloc Heat Pump V10 Series



SPECIFICATIONS

Model			MAM-14-V10M	MAM-16-V10M	MAM-12-V10T	MAM-14-V10T	MAM-16-V10T		
Code			CL45205	CL45206	CL45207	CL45208	CL45209		
Heating (middle zone)	Conditions 1 Air: 7°C / 85% RH Water: 30 / 35 °C	Capacity	kW	14.50	15.90	12.10	14.50	15.90	
		Consumption	kW	3.15	3.53	2.44	3.15	3.53	
		COP			4.60	4.50	4.95	4.60	4.50
		SCOP			4.72	4.62	4.81	4.72	4.62
		ηs	%		185.7	181.7	189.3	185.6	181.6
		Energy labeling			A+++	A+++	A+++	A+++	A+++
	Conditions 2 Air: 7°C / 85% RH Water: 40 / 45°C	Capacity	kW	14.10	15.90	12.30	14.10	15.90	
		Consumption	kW	3.92	3.53	3.32	3.92	3.53	
		COP			3.60	4.50	3.70	3.60	4.50
		SCOP			3.60	4.50	3.70	3.60	4.50
		ηs	%		135.6	133.3	135.1	135.6	133.2
		Energy labeling			A++	A++	A++	A++	A++
	Conditions 3 Air: 7°C / 85% RH Water: 47 / 55°C	Capacity	kW	13.80	16.00	11.90	13.80	16.00	
		Consumption	kW	4.68	4.57	3.90	4.68	4.57	
		COP			2.95	3.50	3.05	2.95	3.50
SCOP			3.47	3.41	3.45	3.47	3.41		
ηs		%		135.6	133.3	135.1	135.6	133.2	
Energy labeling			A++	A++	A++	A++	A++		
Cooling	Conditions 4 Air: 35°C Water: 23 / 18°C	Capacity	kW	13.50	14.90	12.00	13.50	14.90	
		Consumption	kW	3.75	4.38	3.04	3.75	4.38	
		EER			3.60	3.40	3.95	3.60	3.40
		SEER			6.82	6.67	7.02	6.82	6.67
	Conditions 5 Air: 35°C Water: 12 / 7°C	Capacity	kW	12.40	14.00	11.50	12.40	14.00	
		Consumption	kW	4.96	5.60	4.18	4.96	5.60	
		EER			2.50	2.50	2.75	2.50	2.50
		SEER			4.78	4.61	4.81	4.78	4.61
Plate-type heat exchanger	Water flow (min ~ max)		m³/h	0.7 ~ 2.75	0.7 ~ 3.0	0.7 ~ 2.5	0.7 ~ 2.75	0.7 ~ 3.0	
	Water volume		L	2	2	2	2	2	
	Maximum pressure drop		kPa	86	86	86	86	86	
Water pump	Model			APM25-9-130-3 PWM1	APM25-9-130-3 PWM1	APM25-9-130-3 PWM1	APM25-9-130-3 PWM1	APM25-9-130-3 PWM1	
	Nominal flow		m³/h	2.49	2.73	2.08	2.49	2.73	
	Height		m	9	9	9	9	9	
Hydraulic connections	Inlet/outlet water		mm	DN 32	DN 32	DN 32	DN 32	DN 32	
Expansion vessel volume			L	8	8	8	8	8	
Safety valve			MPa	0.3	0.3	0.3	0.3	0.3	
Fan	Air flow rate		m³/h	4060	4650	4060	4060	4650	
Compressor	Brand			Mitsubishi Electric	Mitsubishi Electric	Mitsubishi Electric	Mitsubishi Electric	Mitsubishi Electric	
	Model			MVB42FCDMC	MVB42FCDMC	MVB42FCDMC	MVB42FCDMC	MVB42FCDMC	
Sound pressure			dB (A)	53.5	57.5	53.5	54	58	
Sound power			dB (A)	65	68	65	65	68	
Dimensions (W x H x D)			mm	1385 x 945 x 526	1385 x 945 x 526	1385 x 945 x 526	1385 x 945 x 526	1385 x 945 x 526	
Weight			kg	144	144	160	160	160	
Refrigerant	Type / GWP			R32 / 675	R32 / 675	R32 / 675	R32 / 675	R32 / 675	
	Load		kg	1.75	1.75	1.75	1.75	1.75	
	CO ₂ equivalence		TCO ₂ eq	1.18	1.18	1.18	1.18	1.18	
Electrical Data	Power supply		V-Hz-Ph	220 - 240 / 50 / 1	220 - 240 / 50 / 1	380 - 415 / 50 / 3	380 - 415 / 50 / 3	380 - 415 / 50 / 3	
	Rated / max. intensity		A	26 / 35	27 / 35	10 / 16	11 / 16	12 / 16	
	Power cable (1*)		mm²	2 x 10 + T	2 x 10 + T	4 x 4 + T	4 x 4 + T	4 x 4 + T	
Operating temperature range			Cooling	°C	-5 ~ 43	-5 ~ 43	-5 ~ 43	-5 ~ 43	
			Heating	°C	-25 ~ 35	-25 ~ 35	-25 ~ 35	-25 ~ 35	
			DHW	°C	-25 ~ 43	-25 ~ 43	-25 ~ 43	-25 ~ 43	
Water supply temperature range			Cooling	°C	5 ~ 25	5 ~ 25	5 ~ 25	5 ~ 25	
			Heating	°C	25 ~ 65	25 ~ 65	25 ~ 65	25 ~ 65	
			DHW	°C	30 ~ 60	30 ~ 60	30 ~ 60	30 ~ 60	

Note: (1*) Recommended power wiring for L < 20 m should be calculated according to the conditions of each installation.