

MULTITASKING FAN HEATER Bibloc Mural Heat Pump V10 Series

FEATURES

- Compact dimensions, single fan outdoor unit up to 16 kW.
- Variable speed circulating pump.
- Keymark certification.
- No additional refrigerant charge for refrigeration distances of up to 15 meters across the entire range.
- No risk of freezing external pipes.
- Indoor unit of small dimensions, wall-mounted, 270 mm deep.
- Hydraulic components included.
- 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.

Download "iLetComfort" application:



MUNDOCLIMA®

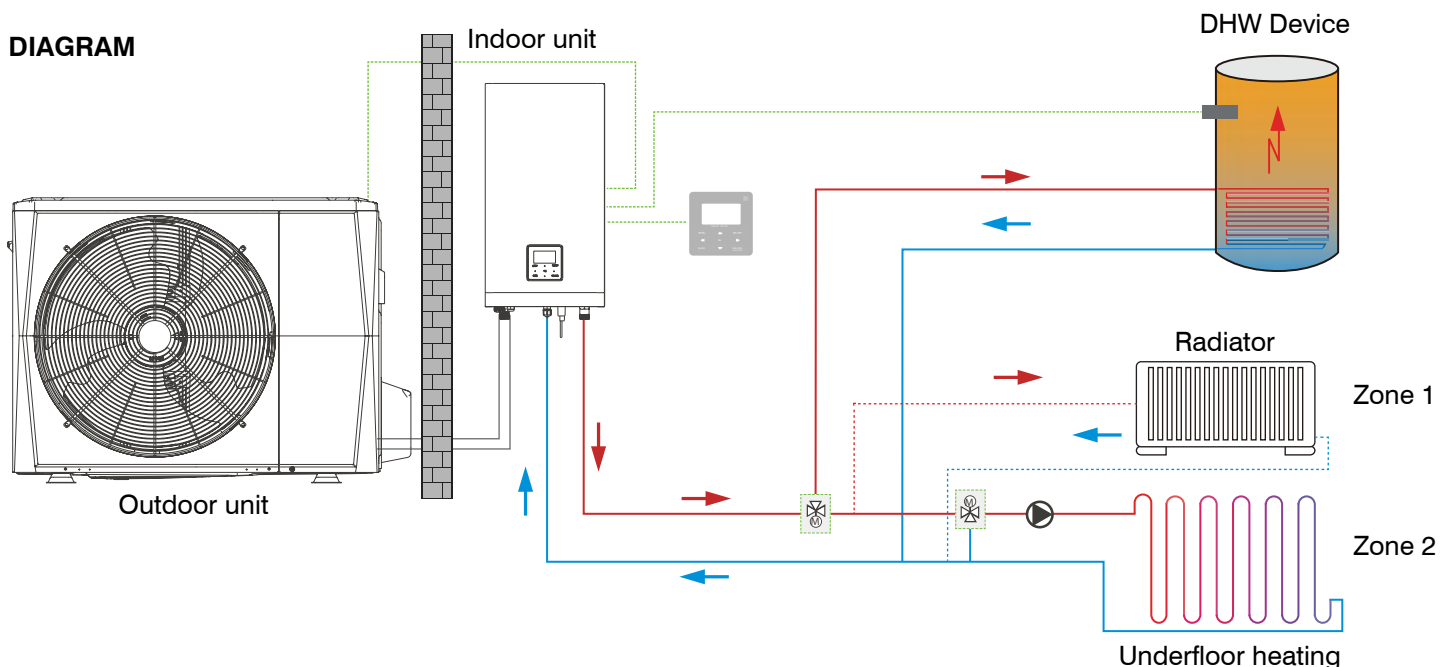


4 and 6 kW



8 to 16 kW

DIAGRAM



MULTITASKING FAN HEATER Bibloc Mural Heat Pump Series V10 SPECIFICATIONS



Model				MAB-4-V10M	MAB-6-V10M	MAB-8-V10M	MAB-10-V10M	MAB-12-V10M	
Code				CL45100	CL45101	CL45102	CL45103	CL45104	
Heating (middle zone)	Conditions 1 Air: 7°C / 85% RH Water: 30 / 35 °C	Capacity	kW	4.25	6.20	8.30	10.00	12.10	
		Consumption	kW	0.82	1.24	1.60	2.00	2.44	
		COP		5.18	5.00	5.19	5.00	4.96	
		SCOP		4.85	4.95	5.21	5.19	4.81	
		ηs	%	191	195	205	205.00	189.00	
		Energy labeling		A+++	A+++	A+++	A+++	A+++	
	Conditions 2 Air: 7°C / 85% RH Water: 40 / 45 °C	Capacity	kW	4.35	6.35	8.20	10.00	12.30	
		Consumption	kW	1.14	1.69	2.08	2.63	3.24	
		COP		3.82	3.76	3.94	3.80	3.80	
	Conditions 3 Air: 7°C / 85% RH Water: 47 / 55 °C	Capacity	kW	4.40	6.00	7.50	9.50	12.00	
		Consumption	kW	1.49	2.00	2.36	3.06	3.87	
		COP		2.95	3.00	3.18	3.10	3.10	
SCOP			3.31	3.52	3.36	3.49	3.45		
ηs		%	130	138	132	137.00	135.00		
Cooling	Conditions 4 Air: 35 °C Water: 23 / 18 °C	Capacity	kW	4.50	6.55	8.40	10.00	12.00	
		Consumption	kW	0.81	1.34	1.66	2.08	3.00	
		EER		5.56	4.89	5.06	4.81	4.00	
		SEER		7.77	8.21	8.95	8.78	7.10	
	Conditions 5 Air: 35 °C Water: 12 / 7 °C	Capacity	kW	4.70	7.00	7.40	8.20	11.60	
		Consumption	kW	1.36	2.33	2.19	2.48	4.22	
		EER		3.46	3.00	3.38	3.31	2.75	
		SEER		4.99	5.31	5.83	5.98	4.89	
	Indoor unit	Model			HR-4-6-V10M	HR-4-6-V10M	HR-8-10-V10M	HR-8-10-V10M	HR-12-14-16-V10M
		Code			UI45100	UI45100	UI45102	UI45102	UI45104
		Plate-type heat exchanger	Water flow rate (min. ~ max.)	m³/h	0.4 ~ 1.25	0.4 ~ 1.25	0.4 ~ 2.10	0.4 ~ 2.10	0.7 ~ 3.00
			Water volume	L	5	5	5	5	5
Water pressure drop			kPa	87	87	87	87	81	
Water pump		Nominal flow	m³/h	0.73	1.07	1.43	1.72	2.08	
		Height	m	9	9	9	9	9	
Hydraulic connections		Water inlet/outlet temperature	mm	DN25	DN25	DN25	DN25	DN25	
		Drainage	mm	Ø 25	Ø 25	Ø 25	Ø 25	Ø 25	
Expansion vessel volume			L	8	8	8	8		
Safety valve			MPa	0.3	0.3	0.3	0.3		
Sound pressure			dB (A)	38	38	42	42		
Sound power			dB (A)	28	28	30	30		
Dimensions			mm	420 x 790 x 270	420 x 790 x 270	420 x 790 x 270	420 x 790 x 270		
Weight			kg	37	37	37	39		
Outdoor unit	Model			MAB-4-V10M	MAB-6-V10M	MAB-8-V10M	MAB-10-V10M	MAB-12-V10M	
	Code			UE45100	UE45101	UE45102	UE45103	UE45104	
	Air flow rate			m³/h	2770	2770	4030	4060	
	Sound pressure			dB (A)	56	58	59	60	
	Sound power			dB (A)	44	45	46	49	
	Dimensions			mm	1008 x 712 x 426	1008 x 712 x 426	1118 x 865 x 523	1118 x 865 x 523	
	Weight			kg	58	58	77	96	
Refrigerant	Type / GWP			R32 / 675	R32 / 675	R32 / 675	R32 / 675	R32 / 675	
	Load			kg	1.5	1.5	1.65	1.65	
	CO ₂ equivalence			TCO ₂ eq	1.01	1.01	1.11	1.11	
	Preload until			m	15	15	15	15	
	Additional load (from 15 m)			g/m	20	20	38	38	
Refrigeration pipes	Liquid			inch	1/4"	1/4"	3/8"	3/8"	
	Gas			inch	5/8"	5/8"	5/8"	5/8"	
	Max. length			m	30	30	30	30	
	Max. height difference			m	20	20	20	20	
Electrical Data	Power supply	Indoor unit	V-Hz-Ph	220 - 240 / 50 / 1	220 - 240 / 50 / 1	220 - 240 / 50 / 1	220 - 240 / 50 / 1	220 - 240 / 50 / 1	
		Outdoor unit	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	Indoor unit	A	1.20 /	1.20 /	1.20 /	1.20 /	1.20 /	
		Outdoor unit	A	12 / 18	14 / 18	16 / 19	17 / 19	25 / 30	
	Power cable (1*)	Indoor unit	mm²	2 x 1.5 + T	2 x 1.5 + T	2 x 1.5 + T	2 x 1.5 + T	2 x 1.5 + T	
		Outdoor unit	mm²	2 x 6 + T	2 x 6 + T	2 x 6 + T	2 x 6 + T	2 x 10 + T	
Interconnection cable			mm²	3 x 0.75	3 x 0.75	3 x 0.75	3 x 0.75		
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	

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

MULTITASKING FAN HEATER Bibloc Mural Heat Pump Series V10 SPECIFICATIONS



Model				MAB-14-V10M	MAB-16-V10M	MAB-12-V10T	MAB-14-V10T	MAB-16-V10T	
Code				CL45105	CL45106	CL45107	CL45108	CL45109	
Heating (middle zone)	Conditions 1 Air: 7°C / 85% RH Water: 30 / 35 °C	Capacity	kW	14.50	16.00	12.10	14.50	16.00	
		Consumption	kW	3.09	3.56	2.44	3.09	3.56	
		COP			4.69	4.49	4.96	4.69	4.49
		SCOP			4.72	4.62	4.81	4.72	4.62
		ηs	%		186.00	182.00	189.00	186.00	182.00
		Energy labeling			A+++	A+++	A+++	A+++	A+++
	Conditions 2 Air: 7°C / 85% RH Water: 40 / 45 °C	Capacity	kW	14.20	16.00	12.30	14.20	16.00	
		Consumption	kW	3.89	4.44	3.24	3.89	4.44	
		COP			3.65	3.60	3.80	3.65	3.60
	Conditions 3 Air: 7°C / 85% RH Water: 47 / 55 °C	Capacity	kW	13.80	16.00	12.00	13.80	16.00	
		Consumption	kW	4.60	5.52	3.87	4.60	5.52	
		COP			3.00	2.90	3.10	3.00	2.90
		SCOP			3.47	3.41	3.45	3.47	3.41
		ηs	%		136.00	133.00	135.00	136.00	133.00
		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	3.00	3.75	4.38	
		EER			3.60	3.40	4.00	3.60	3.40
		SEER			6.90	6.75	7.04	6.85	6.71
		Energy labeling			A++	A++	A++	A++	A++
	Conditions 5 Air: 35 °C Water: 12 / 7 °C	Capacity	kW	12.70	14.00	11.60	12.70	14.00	
		Consumption	kW	4.98	5.71	4.22	4.98	5.71	
		EER			2.55	2.45	2.75	2.55	2.45
		SEER			4.86	4.69	4.86	4.83	4.67
Indoor unit	Model			HR-12-14-16-V10M	HR-12-14-16-V10M	HR-12-14-16-V10M	HR-12-14-16-V10M	HR-12-14-16-V10M	
	Code			UI45104	UI45104	UI45104	UI45104	UI45104	
	Plate-type heat exchanger	Water flow rate (min. ~ max.)	m³/h	0.7 ~ 3.00	0.7 ~ 3.00	0.7 ~ 3.00	0.7 ~ 3.00	0.7 ~ 3.00	
		Water volume	L	5	5	5	5	5	
		Water pressure drop	kPa	81	81	81	81	81	
	Water pump	Nominal flow	m³/h	2.49	2.75	2.08	2.49	2.75	
		Height	m	9	9	9	9	9	
		Hydraulic connections			DN25	DN25	DN25	DN25	DN25
	Water inlet/outlet temperature		mm	Ø 25	Ø 25	Ø 25	Ø 25	Ø 25	
	Drainage		mm	Ø 25	Ø 25	Ø 25	Ø 25	Ø 25	
	Expansion vessel volume		L	8	8	8	8	8	
	Safety valve		MPa	0.3	0.3	0.3	0.3	0.3	
	Sound pressure		dB (A)	43	43	43	43	43	
	Sound power		dB (A)	32	32	32	32	32	
	Dimensions		mm	420 x 790 x 270	420 x 790 x 270	420 x 790 x 270	420 x 790 x 270	420 x 790 x 270	
Weight		kg	39	39	39	39	39		
Outdoor unit	Model			MAB-14-V10M	MAB-16-V10M	MAB-12-V10T	MAB-14-V10T	MAB-16-V10T	
	Code			UE45105	UE45106	UE45107	UE45108	UE45109	
	Air flow rate	m³/h	4060	4650	4060	4060	4650		
	Sound pressure	dB (A)	65	68	64	65	68		
	Sound power	dB (A)	51	54	50	51	55		
	Dimensions	mm	1118 x 865 x 523	1118 x 865 x 523	1118 x 865 x 523	1118 x 865 x 523	1118 x 865 x 523		
	Weight	kg	96	96	112	112	112		
Refrigerant	Type / GWP			R32 / 675	R32 / 675	R32 / 675	R32 / 675	R32 / 675	
	Load	kg	1.84	1.84	1.84	1.84	1.84		
	CO ₂ equivalence	TCO ₂ eq	1.24	1.24	1.24	1.24	1.24		
	Preload until	m	15	15	15	15	15		
	Additional load (from 15 m)	g/m	38	38	38	38	38		
Refrigeration pipes	Liquid	inch	3/8"	3/8"	3/8"	3/8"	3/8"		
	Gas	inch	5/8"	5/8"	5/8"	5/8"	5/8"		
	Max. length	m	30	30	30	30	30		
	Max. height difference	m	20	20	20	20	20		
Electrical Data	Power supply	Indoor unit	V-Hz-Ph	220 - 240 / 50 / 1	220 - 240 / 50 / 1	220 - 240 / 50 / 1	220 - 240 / 50 / 1	220 - 240 / 50 / 1	
		Outdoor unit	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	Indoor unit	A	1.20 /	1.20 /	1.20 /	1.20 /	1.20 /	
		Outdoor unit	A	26 / 30	27 / 30	10 / 14	11 / 14	12 / 14	
	Power cable (1*)	Indoor unit	mm²	2 x 1.5 + T	2 x 1.5 + T	2 x 1.5 + T	2 x 1.5 + T	2 x 1.5 + T	
		Outdoor unit	mm²	2 x 10 + T	2 x 10 + T	4 x 4 + T	4 x 4 + T	4 x 4 + T	
Interconnection cable		mm²	3 x 0.75	3 x 0.75	3 x 0.75	3 x 0.75	3 x 0.75		
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		

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