

MULTI-TASK HEAT PUMP INTEGRATED DHW BIBLOC SERIES

HR-190/240 v10

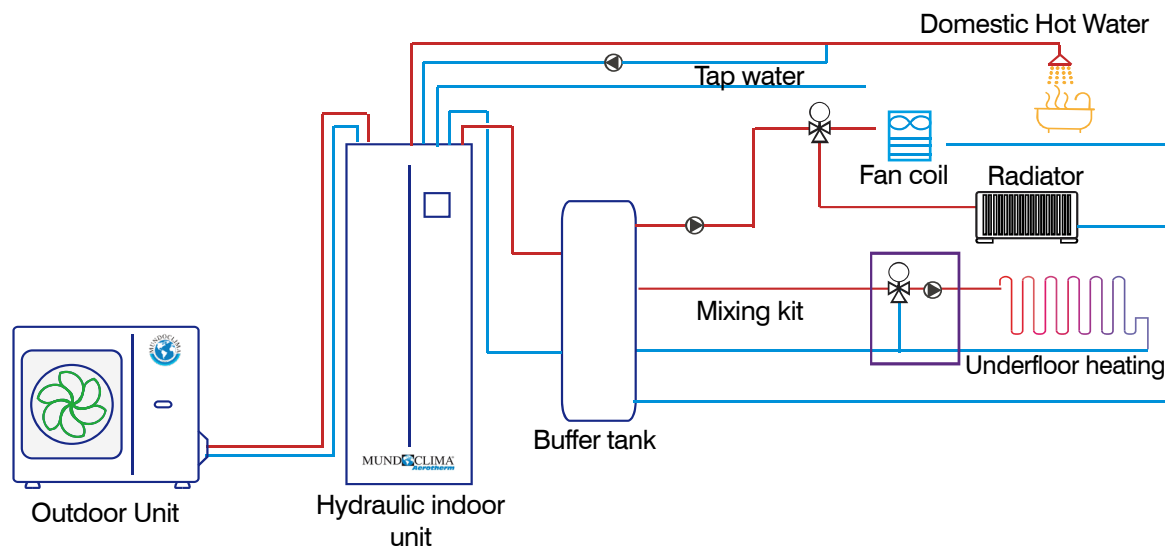
DESCRIPTION

- High efficiency and completely Inverter Aerotherm heat pump.
- Environmentally friendly R32 refrigerant.
- Compact unit, single fan up to 16 kW.
- Two accumulation volumes, 190 or 240 liters.
- Minimum space 60 x 60
- 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 heating / cooling zones.
- 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 solar photovoltaic system.
- It incorporates WIFI for control through the app.



Code: SO30233 to SO30237

EXAMPLE



INDOOR UNIT WITH DHW TANK

Outdoor Unit				MAB-4	MAB-6	MAB-8	MAB-10	MAB-4	MAB-6	MAB-8	MAB-10		
				SO 30 220	SO 30 221	SO 30 222	SO 30 223	SO 30 220	SO 30 221	SO 30 222	SO 30 223		
Indoor unit				HR-4-6-190L-V10M		HR-8-10-190L-V10M		HR-4-6-240L-V10M		HR-8-10-240L-V10M			
				SO 30 233		SO 30 234		SO 30 235		SO 30 236			
Heating	A7/W35 (1)	Total power	kW	4.25	6.20	8.30	10.00	4.25	6.20	8.30	10.00		
		Absorbed power	kW	0.82	1.24	1.60	2.00	0.82	1.24	1.60	2.00		
		COP			5.20	5.00	5.20	5.00	5.20	5.00	5.20	5.00	
	A7/W45 (2)	Total power	kW	4.35	6.35	8.20	10.00	4.35	6.35	8.20	10.00		
		Absorbed power	kW	1.14	1.69	2.08	2.63	1.14	1.69	2.08	2.63		
		COP			3.80	3.75	3.95	3.80	3.80	3.75	3.95	3.80	
Cooling	A35 / W18 (3)	Total power	kW	4.50	6.55	8.40	10.00	4.50	6.55	8.40	10.00		
		Absorbed power	kW	0.81	1.34	1.66	2.08	0.81	1.34	1.66	2.08		
		EER			5.55	4.90	5.05	4.80	5.55	4.90	5.05	4.80	
	A35 / W7 (4)	Total power	kW	4.70	7.00	7.40	8.20	4.70	7.00	7.40	8.20		
		Absorbed power	kW	1.36	2.33	2.19	2.48	1.36	2.33	2.19	2.48		
		EER			3.45	3.00	3.38	3.30	3.45	3.00	3.38	3.30	
Energy Efficiency Class	Domestic Hot Water	Profile according to EN16147 standard			L				XL				
		Energy efficiency SCOP (5)	Average climate		3.10	3.10	3.34	3.34	3.02	3.02	3.36	3.36	
			Warm climate		3.80	3.80	4.24	4.24	3.66	3.66	4.18	4.18	
			Cold climate		2.50	2.50	2.61	2.61	2.63	2.63	2.72	2.72	
	Heating	Heating energy efficiency SCOP (6)	W 35°C	η	4.85	4.95	4.85	4.95	5.21	5.19	5.21	5.19	
					3.30	3.52	3.31	3.52	3.36	3.49	3.36	3.49	
		W 55°C	η	130	138	130	138	132	137	132	137		
							220 - 240 / 1 / 50						
		Power supply			W	3095				3095			
		Rated current			A	13.5				13.5			
DHW tank	Type			Stainless steel									
	Material			SUS 316L									
	Volume		L	190				240					
	Maximum water temperature		°C	70				70					
	Max. pressure		bar	10				10					
	Insulation	Material		Polyurethane "Cyclopentane"									
Thickness		mm	45				45						
Heat exchanger			Plate-type heat exchanger										
Electrical resistance	Standard		kW	3				3					
	Capacity steps			1				1					
Recirculating pump	Type			DC Inverter				DC Inverter					
	Maximum height:		m	9				9					
Expansion Tank	Volume		L	8				8					
Hydraulic connections	Heating	Return		1"				1"					
		Discharge											
	Domestic Hot Water	Cold Water											
		Hot Water		3/4"				3/4"					
Recirculation													
Dimensions (W× H× D)			mm	600*600*1683				600*600*1943					
Packing dimensions (W × H × D)			mm	From 653*653*1900 to 730*730*1920				From 653*653*2160 to 730*730*2180					
Net/gross weight			kg	From 138.6 / 153.8 to 140 / 161				From 155.3 / 170.2 to 157 / 178					
Room temperature range			°C	5 ~ 35				5 ~ 35					
Range of operating water temperatures	Heating	°C		25 ~ 65				25 ~ 65					
		°C		5 ~ 25				5 ~ 25					
	Domestic Hot Water	°C		From 25 - 65 to +12 - +65 From 5 - 25 to +5 - +30 From 30 - 60 to +12 - +60				Same correction as in the previous column From 25 - 65 to +12 - +65 From 5 - 25 to +5 - +30 From 30 - 60 to +12 - +60					
Sound level (7)			dB	38	40		38	40					
Nominal voltage			V / Ph / Hz	220 - 240 / 1 / 50				220 - 240 / 1 / 50					
Nominal input			W	2200	2600	3300	3600	2200	2600	3300	3600		
Power supply			A	10.5	12.0	14.5	16.0	10.5	12.0	14.5	16.0		
Dimensions (W× H× D)			mm	1008 × 712 × 426		1118 × 865 × 523		1008 × 712 × 426		1118 × 865 × 523			
Packing dimensions (W × H × D)			mm	1065 × 810 × 485		1190 × 970 × 560		1065 × 810 × 485		1190 × 970 × 560			
Net/gross weight			kg	60 / 65.5		78.5 / 92		60 / 65.5		78.5 / 92			
Refrigerant	Type (PCA)			R32 (675)				R32 (675)					
	Pre-load		kg	1.50		1.65		1.50		1.65			
	Additional load (>15 m)			g/m	20		38		20.00		38.00		
Connection pipes	Liquid / Gas		mm	From 6.35 / 15.9 a 9.52 / 15.9		Ø 9.52 / Ø 15.9		From 6.35 / 15.9 a 9.52 / 15.9		Ø 9.52 / Ø 15.9			
	Max. length		m	30				30					
	Maximum vertical length		m	20				20					
Drain pipe				DN32				DN32					
Sound level (7)			dB	56	58	59	60	56	58	59	60		
Range of outdoor operating temperature	Heating		°C	-25 ~ 35				-25 ~ 35					
	Cooling		°C	-5 ~ 43				-5 ~ 43					
	Domestic Hot Water		°C	-25 ~ 43				-25 ~ 43					

INDOOR UNIT WITH DHW TANK

Outdoor Unit				MAB-12-V10M	MAB-14-V10M	MAB-16-V10M	MAB-12-V10T	MAB-14-V10T	MAB-16-V10T		
				SO 30 224	SO 30 225	SO 30 226	SO 30 227	SO 30 228	SO 30 229		
Indoor unit				HR-12-14-16-240L-V10M							
				SO 30 237							
Heating	A7 / W35 (1)	Total power	kW	12.10	14.50	16.00	12.10	14.50	16.00		
		Absorbed power	kW	2.44	3.09	3.56	2.44	3.09	3.56		
		COP		4.95	4.70	4.50	4.95	4.70	4.50		
	A7 / W45 (2)	Total power	kW	12.30	14.20	16.00	12.30	14.20	16.00		
		Absorbed power	kW	3.24	3.89	4.44	3.24	3.89	4.44		
		COP		3.80	3.65	3.60	3.80	3.65	3.60		
Cooling	A35 / W18 (3)	Total power	kW	12.00	13.50	14.90	12.00	13.50	14.90		
		Absorbed power	kW	3.00	3.75	4.38	3.00	3.75	4.38		
		EER		4.00	3.60	3.40	4.00	3.60	3.40		
	A35 / W7 (4)	Total power	kW	11.60	12.70	14.00	11.60	12.70	14.00		
		Absorbed power	kW	4.22	4.98	5.71	4.22	4.98	5.71		
		EER		2.75	2.55	2.45	2.75	2.55	2.45		
Energy Efficiency Class	Domestic Hot Water Heating	Profile according to EN16147 standard		XL			XL				
		Energy efficiency SCOP (5)	Average climate		3.00	3.00	3.00	3.00	3.00	3.00	
			Warm climate		3.73	3.73	3.73	3.73	3.73	3.73	
			Cold climate		2.24	2.24	2.24	2.24	2.24	2.24	
		Heating Energy Efficiency SCOP (6)	W35 °C	η		189	186	182	189	186	182
				η		3.45	3.47	3.41	3.45	3.47	3.41
			W55 °C	η		135	136	133	135	136	133
		Indoor unit	Nominal voltage		V / Ph / Hz	220 - 240 / 1 / 50					
Nominal input			W	3095			3095				
Power supply			A	13.5			13.5				
DHW tank	Type			Stainless steel							
	Material			SUS 316L							
	Volume		L		240			240			
	Maximum water temperature		°C		70			70			
	Max. pressure		bar		10			10			
	Insulation		Material		Polyurethane (Cyclopentane)						
Thickness			mm		45			45			
Heat exchanger				Plate-type heat exchanger							
Electrical resistance	Standard		kW		3			3			
	Capacity steps			1			1				
Recirculating pump	Type			DC Inverter			DC Inverter				
	Maximum height		m		9			9			
Expansion tank	Volume		L	8			8				
Hydraulic connections	Heating		Return		1"			1"			
			Discharge								
	Domestic Hot Water		Cold Water		3/4"			3/4"			
			Hot Water								
Recirculation											
Dimensions (W x H x D)			mm	600*600*1943			600*600*1943				
Packing dimensions (W x H x D)		mm	653*653*2160			653*653*2160					
Net/gross weight		kg	From 653*653*2160 to 730*730*2180			From 653*653*2160 to 730*730*2180					
Room temperature range		°C	From 155.3 / 170.2 to 157 / 178			5 ~ 35					
Operating water temperature range	Heating	°C	25 ~ 65			25 ~ 65					
	Cooling	°C	5 ~ 25			5 ~ 25					
	Domestic Hot Water	°C	From 25 - 65 to +12 - +65 From 5 - 25 to +5 - +30 From 30 - 60 to +12 - +60			30 ~ 60					
Sound level (7)		dB	44								
Outdoor Unit	Nominal voltage		V / Ph / Hz	220 - 240 / 1 / 50			380 - 415 / 3 / 50				
	Nominal input		W	5400	5700	6100	5400	5700	6100		
	Power supply		A	24.5	25.0	26.0	9.0	10.0	11.0		
	Dimensions (W x H x D)		mm	1118 x 865 x 523			1118 x 865 x 524				
	Packing dimensions (W x H x D)		mm	1190 x 970 x 560			1190 x 970 x 561				
	Net / Gross weight		kg	100 / 113.5			116 / 129.5				
	Refrigerant	Type (PCA)			R32 (675)			R32 (675)			
		Pre-load	kg	1.84			1.84				
		Additional load (>15 m)	g / m	38			38				
	Connection pipes	Liquid / Gas		mm	Ø 9.52 / Ø 15.9			Ø 9.52 / Ø 15.9			
		Max. length	m	30			30				
		Maximum vertical length	m	20			20				
	Drain pipe			DN32			DN32				
	Sound level (7)		dB	64	65	68	64	65	68		
	Outdoor operating temperature range	Heating	°C	-25 ~ 35			-25 ~ 35				
Cooling		°C	-5 ~ 43			-5 ~ 43					
Domestic Hot Water		°C	-25 ~ 43			-25 ~ 43					

(1) Heating Temp. DB/WB 7/6 °C-LWC 35 °C(ΔT=5 °C)

(2) Heating Temp. DB/WB 7/6 °C-LWC 45 °C(ΔT=5 °C)

(3) Cooling Temp. 35 °C-LWE 18 °C(ΔT=5 °C)

(4) Cooling Temp. 35 °C-LWE 7 °C(ΔT=5 °C)

(5) According to EN16147/2017; EU No:811/2013

(6) According to EN14511/2018; EN14825/2018; EU No:811/2013

(7) Heating noise level, measured according to EN 12102 standard, under the conditions of EN 14825 standard