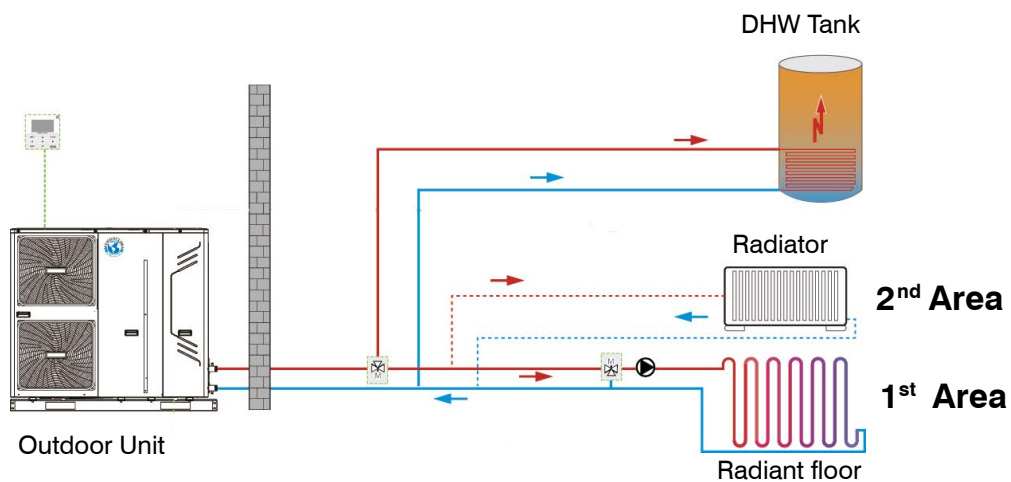


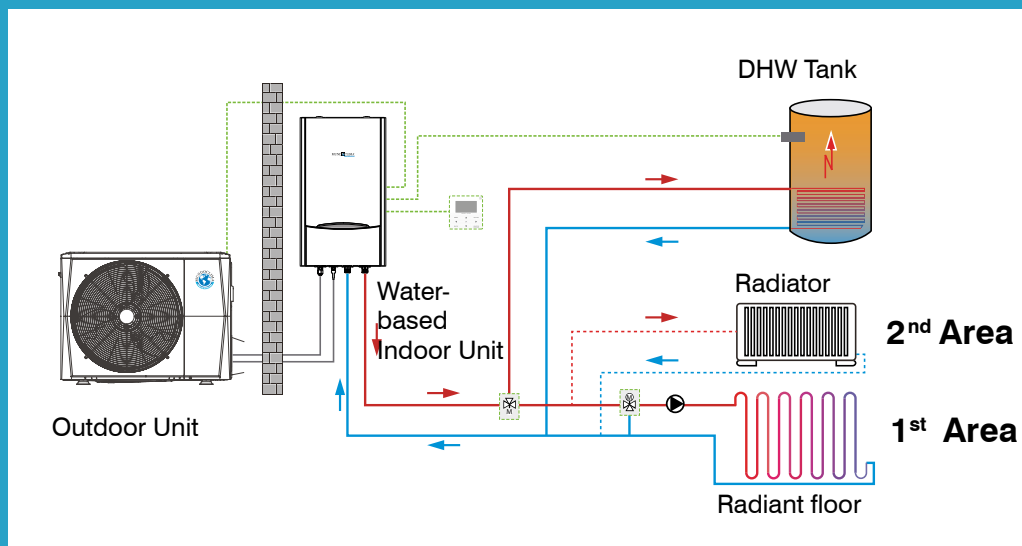
AEROTHERM SERIES

Monobloc and Bibloc solutions

🌿 **Aerotherm Monobloc** is a compact system, in which the hydronic gas/water exchange unit is located in the outdoor unit itself, leaving the outdoor unit with water pipes leading to the inside of the house.



🌿 **Aerotherm Bibloc** is a split system in which the gas/water exchanger is located in the indoor hydronic unit, offering greater flexibility in the installation.



Product range



Power:
4 kW 8kW

Power:
8 kW 10kW 12kW 14kW 16kW

Power:
18 kW 22kW 26kW 30kW

Monobloc
MAM



Bibloc
MAB+HR



Bibloc combinations

Outdoor unit



MAB-
4-V10M
6-V10M

MAB-
8-V10M
10-V10M

MAB-
12-V10M / 12-V10T
14-V10M / 14-V10T
16-V10M / 16-V10T

Hydronic Unit



HR-4/6-V10M HR-8/10-V10M HR-12/14/16-V10M

AEROTHERM SERIES

MONOBLOC Series R32

AEROTHERM MONOBLOC LOW AND AVERAGE POWER



Model			4 kW	6 kW	8 kW	10 kW	12 kW	14 kW	16 kW	12 kW	14 kW	16 kW
Code			SO 30 200	SO 30 201	SO 30 202	SO 30 203	SO 30 204	SO 30 205	SO 30 206	SO 30 207	SO 30 208	SO 30 209
Power supply		V/Ph/Hz	220-240V/1/50Hz						380-415/3/50Hz			
Heating ⁽¹⁾	Total power	kW	4.20	6.35	8.40	10.0	12.1	14.5	15.9	12.1	14.5	15.9
	Absorbed power	kW	0.82	1.28	1.63	2.02	2.44	3.15	3.53	2.44	3.15	3.53
	COP		5.10	4.95	5.15	4.95	4.95	4.60	4.50	4.95	4.60	4.50
Heating ⁽²⁾	Total power	kW	4.30	6.30	8.10	10.0	12.3	14.1	16.0	12.3	14.1	16.0
	Absorbed power	kW	1.13	1.70	2.10	2.67	3.32	3.92	4.57	3.32	3.92	4.57
	COP		3.80	3.70	3.85	3.75	3.70	3.60	3.50	3.70	3.60	3.50
Heating ⁽³⁾	Total power	kW	4.40	6.00	7.50	9.50	11.90	13.80	16.00	11.90	13.80	16.00
	Absorbed power	kW	1.49	2.03	2.36	3.06	3.90	4.68	5.61	3.90	4.68	5.61
	COP		2.95	2.95	3.18	3.10	3.05	2.95	2.85	3.05	2.95	2.85
Cooling ⁽⁴⁾	Total power	kW	4.50	6.50	8.30	9.90	12.00	13.50	14.90	12.00	13.50	14.90
	Absorbed power	kW	0.82	1.35	1.64	2.18	3.04	3.75	4.38	3.04	3.75	4.38
	EER		5.50	4.80	5.05	4.55	3.95	3.60	3.40	3.95	3.60	3.40
Cooling ⁽⁵⁾	Total power	kW	4.70	7.00	7.45	8.20	11.50	12.40	14.00	11.50	12.40	14.00
	Absorbed power	kW	1.36	2.33	2.22	2.52	4.18	4.96	5.60	4.18	4.96	5.60
	EER		3.45	3.00	3.35	3.25	2.75	2.50	2.50	2.75	2.50	2.50
Energy efficiency class ⁽⁶⁾	35°C water outlet	Class	A+++									
	55°C water outlet	Class	A++									
SCOP average climate	35°C water outlet	%	191	195	205.6	204.8	189.4	185.7	181.7	189.3	185.6	181.6
	55°C water outlet	%	129.5	137.9	131.6	135.7	135.1	135.6	133.3	135.1	135.6	133.2
SEER	7°C water outlet											
	18°C water outlet											
Air flow	m ³ /h		2770		4030		4060		4650	4060		4650
Sound level ⁽⁷⁾	dB(A)		55	58	59	60	65	65	69	65	65	69
Sound pressure level ⁽⁸⁾	dB(A)		45	47.5	48.5	50.5	53	53.5	57.5	53.5	54	58
Dimensions (W x H x D)	mm		1295x792x429			1385x945x526						
Packaging (W x H x D)	mm		1375x945x475			1465x1120x560						
Net/gross weight	kg		95/110		127/155		133/161		160/188			
Water pipe connections	in.		1" male BSP				1-1/4" male BSP					
Safety valve pressure adjustment	MPa		0.3									
Water vessel	L		8									
Operating temperature range	Cooling	°C	-5~43									
	Heating	°C	-25~35									
	DHW	°C	-25~43									
Water outlet temperature range	Cooling	°C	5~30									
	Heating	°C	12~65									
	DHW	°C	10~60									
Refrigerant	Type / PCA		R32 / 675				R32 / 675					
	Load	kg/TCO _{eq}	1.4/0.95				1.75/1.18					
Regulating valve type			Electronic expansion valve									
Auxiliary electrical resistance	Option 1	kW	3		3/9							
	Option 2	kW	3/6/9									
	Stages		3									

1. 7°C and 85% R.H. Outdoor air temperature. Water inlet/outlet temperature: 30/35°C.
 2. 7°C and 85% R.H. outdoor air temperature. Water inlet/outlet temperature: 40/45°C.
 3. 7°C and 85% R.H. outdoor air temperature. Water inlet/outlet temperature: 47/55°C.
 4. Outside air temperature: 35°C. Water inlet/outlet temperature: 23/18°C.
 5. Outside air temperature: 35°C. Water inlet/outlet temperature: 12/7°C.
 6. Heating seasonal energy label.

7. Max sound pressure value tested under three conditions: Note 1, Note 3 and Note 5.
 8. Max sound pressure value tested under three conditions: Note 1, Note 3 and Note 5. Sound pressure is measured 1m in front of the unit and (1+H) / 2m (where H is the unit's height) above the ground in a semi-anechoic chamber.
 9. The above test temperatures come from the standards: EN14511:2013; EN14825:2013; EN50564:2011; EN12102:2011; (EU)No:811:2013; (EU)No:813:2013; OJ 2014/C 207/02:2014.

MONOBLOC Series R32



HIGH POWER AEROTHERM MONOBLOC

Model			18 kW	22 kW	26 kW	30 kW
Code			SO 30 210	SO 30 211	SO 30 212	SO 30 213
Power supply		V/Ph/Hz	380-415V/3/50Hz			
Heating ⁽¹⁾	Total power	kW	18	22	26	30.1
	Absorbed power	kW	3.83	5	6.373	7.698
	COP		4.70	4.40	4.08	3.91
Heating ⁽²⁾	Total power	kW	18	22	26	30
	Absorbed power	kW	5.143	6.471	8.387	10.345
	COP		3.50	3.40	3.10	2.90
Heating ⁽³⁾	Total power	kW	18	22	26	30
	Absorbed power	kW	6.545	8.302	10.612	13.043
	COP		2.75	2.65	2.45	2.30
Cooling ⁽⁴⁾	Total power	kW	18.5	23	27	31
	Absorbed power	kW	3.895	5.000	6.279	7.750
	EER		4.75	4.00	4.30	4.00
Cooling ⁽⁵⁾	Total power	kW	17	21	26	29.5
	Absorbed power	kW	5.574	7.119	9.630	11.569
	EER		3.05	2.95	2.70	2.55
Energy efficiency class ⁽⁶⁾	35°C water outlet	Class	A+++	A+++	A+++	A++
	55°C water outlet	Class	A++	A++	A+	A+
SCOP average climate	35°C water outlet	%	4.60	4.53	4.50	3.14
	55°C water outlet	%	3.21	3.22	3.14	3.14
SEER	7°C water outlet		4.70	4.70	4.66	4.49
	18°C water outlet		5.48	5.67	5.88	5.71
Air flow		m ³ /h	11000	11000	11300	11300
Sound level ⁽⁷⁾		dB(A)	71	73	75	77
Sound pressure level ⁽⁸⁾		dB(A)	57.6	59.8	61.5	63.5
Dimensions (W x H x D)		mm	1129x1558x440			
Packaging (W x H x D)		mm	1220x1735x565			
Net/gross weight		kg	177 / 206			
Water pipe connections		in.	1-1/4" male BSP			
Safety valve pressure adjustment		MPa	0.3	0.3	0.3	0.3
Expansion vessel volume		L	8	8	8	8
Operating temperature range	Cooling	°C	-5 - +46			
	Heating	°C	-25 - +35			
	DHW	°C	-25 - +43			
Temperature range water pumping	Cooling	°C	5 - 25			
	Heating	°C	25 - 60			
	DHW	°C	40 - 60			
Refrigerant	Type / PCA		R32 / 675			
	Load	kg/TCO ₂ eq.	5/3.375			
Regulating valve type			Electronic expansion valve			
Auxiliary electrical resistance	Option 1	kW	3	3/9		
	Option 2	kW	3/6/9			
	Stages		3			

1. 7°C and 85% R.H. outdoor air temperature. Water inlet/outlet temperature: 30/35°C.
 2. 7°C and 85% R.H. outdoor air temperature. Water inlet/outlet temperature: 40/45°C.
 3. 7°C and 85% R.H. outdoor air temperature. Water inlet/outlet temperature: 47/55°C.
 4. Outside air temperature: 35°C. Water inlet/outlet temperature: 23/18°C.
 5. Outside air temperature: 35°C. Water inlet/outlet temperature: 12/7°C.
 6. Heating seasonal energy label.

7. Max sound pressure value tested under three conditions: Note 1, Note 3 and Note 5.
 8. Max sound pressure value tested under three conditions: Note 1, Note 3 and Note 5. Sound pressure is measured 1m in front of the unit and (1+H) / 2m (where H is the unit's height) above the ground in a semi-anechoic chamber.
 9. The above test temperatures come from the standards: EN14511:2013; EN14825:2013; EN50564:2011; EN12102:2011; (EU)No:811:2013; (EU)No:813:2013; OJ 2014/C 207/02:2014.

AEROTHERM SERIES

BIBLOC Series R32



SINGLE-PHASE BIBLOC AEROTHERM OUTDOOR UNIT

Model			4 kW	6 kW	8 kW	10 kW	12 kW	14 kW	16 kW	
Code			SO 30 220	SO 30 221	SO 30 222	SO 30 223	SO 30 224	SO 30 225	SO 30 226	
Nominal voltage		V/Ph/Hz	220-240/1/50				220-240/1/50			
Heat capacity ⁽¹⁾	Capacity	kW	4.25	6.20	8.30	10	12.10	14.50	16.00	
	Consumption	kW	0.82	1.24	1.60	2.00	2.44	3.09	3.56	
	COP		5.20	5.00	5.20	5.00	4.55	4.70	4.50	
Heat capacity ⁽²⁾	Capacity	kW	4.35	6.35	8.20	10.00	12.30	14.20	16.00	
	Consumption	kW	1.14	1.69	2.08	2.63	3.24	3.89	4.44	
	COP		3.80	3.75	3.95	3.80	3.80	3.65	3.60	
Heat capacity ⁽²⁾	Capacity	kW	4.40	6.00	7.50	9.50	12.00	13.80	16.00	
	Consumption	kW	1.49	2.00	2.36	3.06	3.87	4.60	5.52	
	COP		2.95	3.00	3.18	3.10	3.10	3.00	2.90	
Refrigeration capacity ⁽²⁾	Capacity	kW	4.50	6.55	8.40	10.00	12.00	13.50	14.90	
	Consumption	kW	0.81	1.34	1.66	2.08	3.00	3.75	4.38	
	EER		5.55	4.90	5.05	4.80	4.00	3.60	3.40	
Refrigeration capacity ⁽²⁾	Capacity	kW	4.70	7.00	7.40	8.20	11.60	12.70	14.00	
	Consumption	kW	1.36	2.33	2.19	2.48	4.22	4.98	2.45	
	EER		3.45	3.00	3.38	3.30	2.75	2.55	2.45	
Energy efficiency class ⁽⁶⁾	A7/W35		A+++	A+++	A+++	A+++	A+++	A+++	A+++	
	A7/W55		A++	A++	A++	A++	A++	A++	A++	
SCOP	A7/W35		4.85	4.95	5.21	5.19	4.81	4.72	4.62	
	A7/W55		3.31	3.52	3.36	3.49	3.45	3.47	3.41	
SEER	A35/W7		4.99	5.31	5.83	5.98	4.89	4.86	4.69	
	A35/W8		7.77	8.21	8.95	8.78	7.10	6.90	6.75	
Compressor	Type		Double rotational inverter							
Fan	Engine type		Brushless DC motor							
	Flow rate		2770	2770	4030	4030	4060	4060	4650	
R32 Air heat exchanger			Fin tube bundle							
Refrigerant	Type / PCA		R32 / 675							
	Pre-load	kg/TCO eq	1.5/1.01		1.65/1.11		1.84/1.24			
	Additional load	g/m	20		38		38			
Refrigerated connections	Ø liquid ext.	mm	6.35		9.52		9.52			
	Ø gas ext.	mm	15.83		15.88		15.88			
	Min. length	m	2							
	Max. length	m	30							
Max. vertical	m	20								
Pressure level	dB(A)	44.1	46.4	47.3	49.8	51.2	51.8	52		
Sound level ⁽⁷⁾	db(A)	56	58	59	60	64	65	68		
Unit dimensions (WxHxD)	mm	1008x712x416			1118x865x523			1128x864x583		
Packaging dimensions (WxHxD)	mm	1065x810x485			1190x970x500			1180x890x560		
Net/gross weight	kg	58/64			77/88			96/110		
Operational range Ext. temp.	Option 1	°C	-5 - +43							
	Option 2	°C	-25 - +35							
	DHW	°C	-25 - +43							

1. 7°C and 85% R.H. Outdoor air temperature. Water inlet/outlet temperature: 30/35°C.
2. 7°C and 85% R.H. Outdoor air temperature. Water inlet/outlet temperature: 40/45°C.
3. 7°C and 85% R.H. Outdoor air temperature. Water inlet/outlet temperature: 47/55°C.
4. Outside air temperature: 35°C. Water inlet/outlet temperature: 23/18°C.
5. Outside air temperature: 35°C. Water inlet/outlet temperature: 12/7°C.
6. Heating seasonal energy label.
7. Max sound pressure value tested under three conditions: Note 1, Note 3 and Note 5.

BIBLOC Series



BIBLOC AEROTHERM INDOOR UNIT

Model		4 / 6 kW	8 / 10 kW	12 / 14 / 16 kW	
Code		SO 30 230	SO 30 231	SO 30 232	
Function		Hot and Cold			
Nominal voltage	V/Ph/Hz	220-240/1/50			
Sound level	dB(A)	38	42	43	
Dimensions (W x H x D)	mm	420 x 790 x 270			
Packaging (W x H x D)	mm	525 x 1050 x 360			
Net/gross weight	kg	37 / 43		39 / 45	
Water circuit	Output connection	in	DN25		
	Safety valve	MPa	0.3		
	Drain pipe connection	mm	Ø 25		
	Expansion vessel	Volume	L	8	
		Max. pressure	MPa	0.3	
		Discharge pressure	MPa	0.1	
	Heat exchanger	Type	Heat-welded plates		
Circulator pump	m	9			
Refrigerated connections	Ø liquid ext.	mm	6.35	9.52	
	Ø gas ext.	mm	15.88	15.88	
Temperature range water pumping	Cooling	°C	=5 ~ 25		
	Heating	°C	=25 ~ 65		
	Domestic hot water	°C	=40 ~ 60		

Bibloc combinations

Outdoor unit



MAB-4-V10M
6-V10M

MAB-8-V10M
10-V10M

MAB-12-V10M / 12-V10T
14-V10M / 14-V10T
16-V10M / 16-V10T

Hydronic Unit



HR-4/6-V10M HR-8/10-V10M HR-12/14/16-V10M

AEROTHERM SERIES

BIBLOC Series R32



THREE-PHASE BIBLOC AEROTHERM OUTDOOR UNIT

Model			12 kW	14 kW	16 kW
Code			SO 30 227	SO 30 228	SO 30 229
Nominal voltage		V/Ph/Hz	380-415/3/50		
Heat capacity ⁽¹⁾	Capacity	kW	12.1	14.5	16.0
	Consumption	kW	2.44	3.09	3.56
	COP		4.95	4.70	4.50
Heat capacity ⁽²⁾	Capacity	kW	12.3	14.2	16.0
	Consumption	kW	3.24	3.89	4.44
	COP		3.80	3.65	3.60
Heat capacity ⁽²⁾	Capacity	kW	12.0	13.80	16.0
	Consumption	kW	3.87	4.60	5.52
	COP		3.10	3.00	2.90
Refrigeration capacity ⁽²⁾	Capacity	kW	12.00	13.50	14.90
	Consumption	kW	3.00	3.75	4.38
	EER		4.00	3.60	3.40
Refrigeration capacity ⁽²⁾	Capacity	kW	11.60	12.70	14.00
	Consumption	kW	4.22	4.98	5.71
	EER		2.75	2.55	2.45
Energy efficiency class ⁽⁶⁾	A7/W35		A+++	A+++	A+++
	A7/W55		A++	A++	A++
SCOP	A7/W35		4.81	4.72	4.62
	A7/W55		3.45	3.47	3.41
SEER	A35/W7		4.86	4.83	4.67
	A35/W8		7.04	6.85	6.71
Compressor	Type	Double rotational inverter			
Fan	Engine type	Brushless DC motor			
	Flow rate	4060	4060	4650	
R32 Air heat exchanger		Fin tube bundles			
Refrigerant	Type / PCA	R32 / 675			
	Pre-load	kg/TCO eq	1.84 / 1.24		
Refrigerated connections	Additional load (> 15m)	g/m	38		
	Ø liquid ext.	mm	9.52		
	Ø gas ext.	mm	15.88		
	Min. length	m	2		
	Max. length	m	30		
	Max. vertical	m	20		
Sound pressure level ⁽⁷⁾		db(A)	51.2	51.8	52
Sound level		db(A)	64	65	68
Unit dimensions (WxHxD)		mm	1118 x 864 x 323		
Packaging dimensions (WxHxD)		mm	1180 x 890 x 560		
Net/gross weight		kg	112 / 125		
Operational range Ext. temp.	Cooling	°C	-5 - +43		
	Heating	°C	-25 - +35		
	DHW	°C	-25 - +48		

1. 7°C and 85% R.H. outdoor air temperature. Water inlet/outlet temperature: 30/35°C.
2. 7°C and 85% R.H. outdoor air temperature. Water inlet/outlet temperature: 40/45°C.
3. 7°C and 85% R.H. outdoor air temperature. Water inlet/outlet temperature: 47/55°C.
4. Outside air temperature: 35°C. Water inlet/outlet temperature: 23/18°C.
5. Outside air temperature: 35°C. Water inlet/outlet temperature: 12/7°C.
6. Heating seasonal energy label.
7. Max sound pressure value tested under three conditions: Note 1, Note 3 and Note 5.

BIBLOC Series R32



BIBLOC AEROTHERM INDOOR UNIT

Model		12/16 kW			
Code		SO 30 232			
Function		Hot and Cold			
Nominal voltage	V/Ph/Hz	220-240/1/50			
Sound level	dB(A)	43			
Dimensions (W x H x D)	mm	420x790x270			
Packaging (W x H x D)	mm	525x1050x360			
Net/gross weight		kg	39/45		
Water circuit	Output connection		in	DN25	
	Safety valve		MPa	0.3	
	Drain pipe connection		mm	Ø 25	
	Expansion tank Heat exchanger	Volume		L	8.0
		Max. pressure		MPa	0.3
		Discharge pressure		MPa	0.1
Type		Heat-welded plates			
Circulator pump		m	9		
Refrigerated connections	Ø liquid ext.		mm	Ø 9.52	
	Ø gas ext.		mm	Ø 15.9	
Temperature range water pumping	Space heating Cooling		°C	5 ~ 25	
	Heating		°C	25 ~ 65	
	DHW (tank)		°C	40 ~ 60	

Bibloc combinations

Outdoor unit



MAB-
4-V10M
6-V10M

MAB-
8-V10M
10-V10M

MAB-
12-V10M / 12-V10T
14-V10M / 14-V10T
16-V10M / 16-V10T

Hydronic Unit



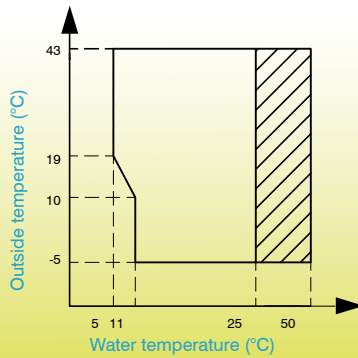
HR-4/6-V10M HR-8/10-V10M HR-12/14/16-V10M

AEROTHERM SERIES

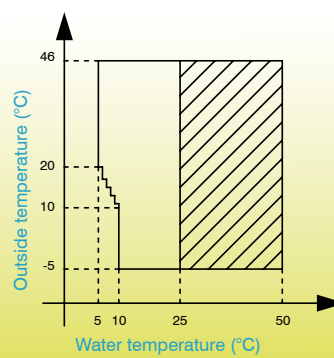
Operational range

COOLING MODE

Small and Medium Power 4 kW-16kW

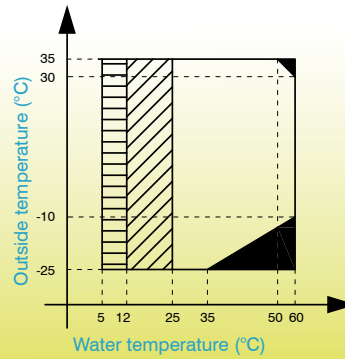
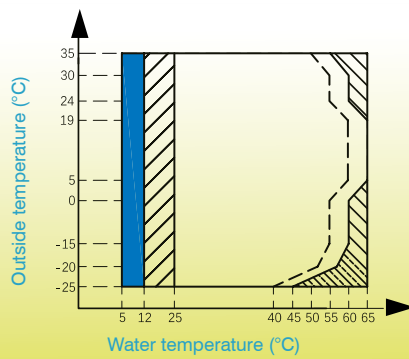


High Power 18 kW-30kW



Heat pump operating range with possible limitation and protection.

HEATING MODE



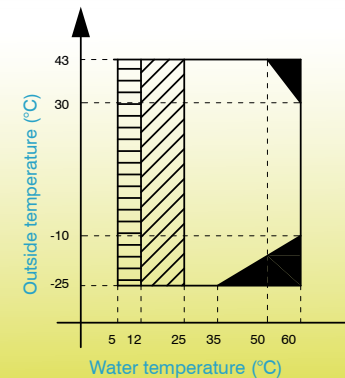
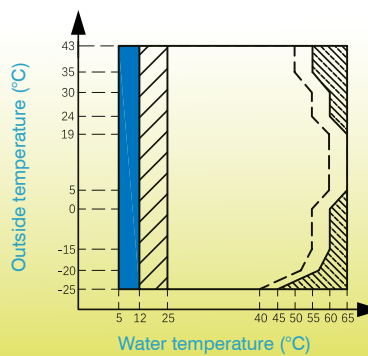
If the IBH/AHS setting is valid, only IBH/AHS is turned on.
If the IBH/AHS setting is invalid, only the heat pump will be switched on, limitation and protection may occur during heat pump operation.

Heat pump operating range with possible limitation and protection. The heat pump is turned off, only the IBH/AHS is turned on.

Heat pump operation max. inlet water temperature.

No heat pump operation, only IBH or AHS

DHW HEATING MODE



If the IBH/AHS setting is valid, only IBH/AHS is turned on.
If the IBH/AHS setting is invalid, only the heat pump will be switched on, limitation and protection may occur during heat pump operation.

Heat pump operating range with possible limitation and protection. The heat pump is turned off, only the IBH/AHS is turned on.

Heat pump operation max. inlet water temperature.

No heat pump operation, only IBH or AHS

Areas and volumes MUNDOCLIMA AEROTHERM

Model		4 / 6 kW	8 / 10 kW	12/16 kW	18/30 kW
Recommended tank volume		100 - 250	150 - 300	200 - 500	300 - 500
Heat exchange area/m ² (Stainless steel coil)	Min.	1.4	1.4	1.6	3.5
Heat exchange area/m ² (Enameled coil)	Min.	2.0	2.0	2.5	5.0