

All in one warmtepomp met geïntegreerde warmwatertank

De ALL-IN-ONE warmtepompen van Sinclair bestaan uit een buitenunit en een hypercompacte binnenunit waarin een watertank is geïntegreerd. Hiermee bespaart u heel wat ruimte, omdat er geen externe warmwatertank nodig is. Onze All-in-one systemen kunnen uw ruimtes verwarmen, koelen en zorgen ook onmiddellijk voor de productie van warm water.

DE VOORDELEN

- ✓ Geïntegreerde tank voor warm water met een bruikbare inhoud van 190 en 240 liter
- ✓ Twee-traps inverter compressor
- ✓ Afstandsbediening via internet met mobiele app
- ✓ Hoge efficiëntie
- ✓ Circulatiepomp met mogelijkheid tot snelheidsregeling
- ✓ Geïntegreerde expansietank en veiligheidsklep
- ✓ Mogelijkheid tot koeling via fan-coils
- ✓ Verwarming van warm water
- ✓ Garantie van 5 jaar*
- ✓ Geïntegreerde weerstand



* Er wordt een garantietermijn tot 5 jaar gehanteerd. Vraag naar de voorwaarden.

Model MSH-			190TB/3		240TB/3		190TB-3/9		240TB-3/9				
Power supply			V / Ph / Hz	220 - 240 / 1 /50			380 - 415 / 3 /50						
Connecting pipe (refrigerant)	Gas	inch / mm				5/8" / 16,0							
	Liquid					3/8" / 9,5							
Connecting pipe (water)	Inlet	inch				1"							
	Outlet												
Safety valve			bar				3						
Leaving water temperature	Cooling	°C				5 - 25							
	Heating	°C				25 - 65							
Main components	Water pump	Type	-			Inverter							
		Speed	-			Automatic							
		Max. power	W			90							
		Volume	l			190		240		190		240	
	Hot water tank	El. heater	kW			1,5+1,5							
		Expansion tank	Volume	l			8						
		Max. pressure	bar			3							
		Pressure	bar			1							
	Auxiliary electric heater	Mode	-			Automatic							
		Capacity	kW			3				9			
		Combination	-			3				3+3+3			
		Power supply	V / Ph / Hz			220 - 240 / 1 /50						380 - 415 / 3 /50	
	Heat exchanger	Type	-			Braze plate							
		Amount	-			1							
Level of acoustic pressure in 1m			dB (A)		29								
Dimensions	Outline (w x d x h)		mm		600 x 600 x 1683		600 x 600 x 1943		600 x 600 x 1683		600 x 600 x 1943		
	Packaged (w x d x h)		mm		730 x 730 x 1920		730 x 730 x 2180		730 x 730 x 1920		730 x 730 x 2180		
Weight	Netto		kg		140		157		140		157		
	Brutto		kg		161		178		161		178		

Model MSH-			60EB		80EB		100EB		120EB/120EB-3		140EB/140EB-3		160EB/160EB-3	
Power supply			V / Ph / Hz		220-240 / 1 / 50				380-415 / 3 / 50					
Capacity	Heating	kW	6,2		8,3		10		12,1		14,5		16	
			6,55		8,4		10		12		13,5		14,2	
Power	Heating	kW	1,24		1,6		2,0		2,4		3,1		3,6	
			1,34		1,66		2,08		3,0		3,7		3,9	
COF	Heating	-	5		5,2		5		4,95		4,7		4,5	
EER	Cooling	-	4,9		5,05		4,8		4		3,61		3,61	
Technical parameters	Level of acoustic pressure	Max.	dB (A)		44		46		49		50		51	
	Energy class	Heating (55 °C / 35 °C)	-						A++ / A+++					
	SCOP	Heating (55 °C / 35 °C)	-		3,52 / 4,95		3,37 / 5,22		3,47 / 5,2		3,45 / 4,81		3,47 / 4,72	
	Refrigerant	Type	-						R32					
		Amount	kg		1,5		1,65				1,84			
	Domestic hot water temperature		°C				12 - 60							
	Refrigerant pipes	Gas	inch / mm				5/8" / 16,0							
		Liquid	inch / mm		1/4" / 6,0				3/8" / 9,5					
	Unit Dimension	(w x h x d)	mm		1008 x 712 x 426				1118 x 865 x 523					
	Package Dimension	(w x h x d)	mm		1065 x 810 x 485				1190 x 970 x 560					
	Weight netto/brutto		kg		58 / 63,5		75 / 89				112 / 125,5			
	Operating temperature range		°C				-25 - 43							
	Standard pipe length		m				15							
	Max. pipe length		m				30							
	Max. elevation		m				20							
	Additional refrigeration		g/m		20				38					

CAPACITIES AND POWER INPUTS ARE BASED ON THE FOLLOWING CONDITIONS:

COOLING conditions: Indoor Water Temperature 23 °C / 18 °C. Outdoor Air Temperature 35 °C DB / 24 °C WB.

HEATING conditions: Indoor Water Temperature 30 °C / 35 °C. Outdoor Air Temperature 7 °C DB / 6 °C WB.

The specification of products is subject to change based on further development of the units by the producer and can be changed without prior notice.

Refer to rating label. Contains fluorinated greenhouse gases covered by the Kyoto Protocol. R32 (100% HFC-32), GWP of refrigerant used: 675.

Sound pressure level is tested in a soundless chamber, actual values may be affected by local conditions.

MODEL			MSH-60IB/3		MSH-100IB/3		MSH-100IB-3/9		MSH-160IB/3		MSH-160IB-3/9		
Compatible Outdoor unit model				MSH-40EB MSH-60EB		MSH-80EB MSH-100EB		MSH-80EB MSH-100EB		MSH-120EB MSH-140EB MSH-160EB		MSH-120EB-3 MSH-140EB-3 MSH-160EB-3	
Function				Heating and Cooling									
Setting water temperature range		Cooling	°C	5~25									
		Heating	°C	25~65									
		DHW	°C	30~60									
Power supply			V/Ph/Hz	220-240/1/50			380-415/3/50		220-240/1/50		380-415/3/50		
Sound power level			dB(A)	38		42				43			
Sound pressure level (1m)			dB(A)	28		30				32			
Dimensions (WxHxD)			mm	421×790×270									
Packing (WxHxD)			mm	525×1050×360									
Net/gross weight			kg	42/48						44/50			
WATER CIRCUIT													
Piping connections			inch	R1"									
Safety valve set pressure			MPa	0,3									
Drainage pipe connection			inch	1"									
Expansion tank		Volume	L	8									
		Max. water pressure	MPa	0,3									
		Pre-pressure	MPa	0,1									
Water side			Type	Plate type									
Water pump head			m	9									
Water flow range			m³/h	0,4~1,25		0,4~2,10			0,70~3,00				
Auxiliary electric heater		Type	-	Automatic									
		Capacity	kW	3		9		3		9			
		Combination	-	3		3/6/9		3		3/6/9			
		Power supply	V/Ph/Hz	220-240/1/50		380-415/3/50		220-240/1/50		380-415/3/50			
Internal water volume			L	5									
Refrigerant circuit		Liquid Dia. (OD)	inch	1/4"		3/8"							
		Gas Dia. (OD)	inch	5/8"									
OTHER TECHNICAL DATA													
Circuit breaker			A	16		16		16		16		16	
Recommended power cable			mm²	2,5		2,5		2,5		2,5		2,5	
Inrush current			A	13,5		13,5		13,5		13,5		13,5	
Nominal current			A	13,5		13,5		13,5		13,5		13,5	
Maximum current			A	13,5		13,5		13,5		13,5		13,5	
Display cable			-	Field supplied 5x0,75 1,75									
STANDARD ACCESSORIES													
Installation and owner's manual			-	yes									
Operation manual			-	yes									
M16 Copper Nut Tamper Cap			-	1									
M9 Copper Nut Tamper Cap			-	0		1							
M6 Copper Nut Tamper Cap			-	1		0							
M8 expansion screws			-	5									
Thermistor for domestic hot water tank or zone 2 water flow			-	1									
M16 Copper nut			-	1									
Y-shape filter			-	1									
Mounting bracket			-	1									
OPTIONAL ACCESSORIES													
Three-way valve			-	Field supply (230V, 10-30 sec. switch time)									

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R32 (single component refrigerant HFC-32), GWP of refrigerant used: 675.

Contains fluorinated greenhouse gases covered by the Kyoto Protocol.

Explanatory notes on the very last page of the catalogue.

Cross-section of each wire must correspond to the IEC 60364.