

Split warmtepomp

De SPLIT-warmtepomp systemen bestaan uit een binnen- en een buitenunit. De componenten die geluid veroorzaken, zoals de compressor en de ventilator, bevinden zich in de buitenunit. De binnenunit kan hierdoor compact blijven en de geluidsproductie blijft minimaal.

DE VOORDELEN

- ✓ 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-				60B/3	100B/3 100B-3/9	160B/3 160B-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		1/4" / 6,0			3/8" / 9,5	
Connecting pipe (water)	Inlet	inch			1"		
	Outlet						
Safety valve		bar			3		
Leaving water temperature	Cooling	°C			5 - 25		
	Heating			25 - 65			
Main components	Water pump	Type			Inverter		
		Speed			Automatic		
		Max. power	W		90		
	Expansion tank	Volume	l		8		
		Max. pressure	bar		3		
		Pressure	bar		1		
	Auxiliary electric heater	Mode			Automatic		
		Capacity	kW		3	3/9	
		Combination			3	3/3+3+3	
	Heat exchanger	Power supply	V / Ph / Hz		220-240 / 1 / 50		380-415 / 3 / 50
Type				Brazed plate			
	Amount			1			
Level of acoustic pressure in 1m		dB (A)	28	30	32		
Dimensions	Outline (w x d x h)	mm			420 x 790 x 270		
	Packaged (w x d x h)				525 x 1050 x 360		
Weight	Net	kg	37		39		
	Gross		43		45		

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	
	Cooling	kW	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	
	Cooling	kW	1,34	1,66	2,08	3,0	3,7	3,9	
COP	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	55
	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	3,41 / 4,62
	Refrigerant	Type			R32				
		Amount	kg		1,5	1,65		1,84	
	Domestic hot water temperature					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-40EB	MSH-60EB	MSH-80EB	MSH-100EB	MSH-120EB
Suitable for building heat loss			3 - 5 kW	4 - 6 kW	6 - 8 kW	7 - 9,5 kW	10 - 12 kW
Compatible hydronic box			MSH-60IB MSH-60IB-3		MSH-100IB MSH-100IB/3 MSH-100IB-3/9		MSH-160IB MSH-160IB/3 MSH-160IB-3/9
Power supply		V/Ph/Hz	220-240/1/50				
Heating (A7/W35)	Capacity	kW	4,25	6,20	8,30	10,0	12,1
	Rated input	kW	0,82	1,24	1,60	2,00	2,44
	COP		5,20	5,00	5,20	5,00	4,95
Cooling (A35/W18)	Capacity	kW	4,5	6,55	8,4	10	12
	Rated input	kW	0,81	1,34	1,66	2,08	3
	EER		5,55	4,9	5,05	4,8	4
Seasonal space heating energy efficiency class	LWT at 35 °C		A+++				
	LWT at 55 °C		A++				
SCOP	Warmer climate	35 °C	6,46	6,57	6,99	7,09	6,48
		55 °C	4,15	4,21	4,51	4,62	4,43
	Average climate	35 °C	4,85	4,95	5,22	5,20	4,81
		55 °C	3,31	3,52	3,37	3,47	3,45
	Colder climate	35 °C	4,06	4,21	4,33	4,32	4,08
		55 °C	2,63	2,85	2,88	2,99	3,02
SEER	LWT at 7 °C		4,99	5,34	5,83	5,98	4,89
	LWT at 18 °C		7,77	8,21	8,95	8,78	7,1
Minimum crosssection of the earth wire		mm ²	2,5	2,5	2,5	4	6
Minimum crosssection of the power supply wire		mm ²	2,5	2,5	2,5	4,0	6,0
Inrush current		A	1				
Rated current		A	10,5	12,0	14,5	16,0	24,5
Circuit breaker		A	16	16	16	20	32
Water flow range		m ³ /h	0,4~0,9	0,4~1,25	0,4~1,65	0,4~2,1	0,7~2,5
Rated water flow		m ³ /h	0,73	1,07	1,43	1,72	2,08
Compressor	Type		Twin rotary DC inverter				
Outdoor fan	Motor type		Brushless DC motor				
	Number of fans		1				
Air side heat exchanger	Type		Finned tube				
Refrigerant (R32)	Factory charge	kg	1,5		1,65		1,84
Precharged length		m	15				
Additional refrigerant		g/m	20			38	
Throttle type			Electronic expansion valve				
Piping connections	Type		Flare				
	Liquid Dia. (OD)	inch	1/4"		3/8"		
	Gas Dia. (OD)	inch	5/8"				
	Min. pipe length	m	3,5				
	Max. pipe length	m	30				
Installation height difference	Outdoor unit above	m	20				
	Outdoor unit below	m	20				
Sound power level		dB(A)	56	58	59	60	64
Sound pressure level in 1 meter		dB(A)	44	45	46	49	50
Net dimensions (WxHxD)		mm	1008x712x426		1118x865x523		1118x865x523
Packed dimensions (WxHxD)		mm	1065x800x485		1180x890x560		1180x890x560
Net/gross weight		kg	58/64		77/88		96/110
Operating temperature range	Cooling	°C	-5 to 43				
	Heating	°C	-25 to 35				
	DHW	°C	-25 to 43				
OTHER TECHNICAL DATA							
Distance of holes	W x D	mm	375x663		456x656		
Communication cable		mm ²	3x0,75 Shielded field supplied(en)				
STANDARD ACCESSORIES							
Coper flare nuts		-	yes ¹⁾				
Drainage hose adapter		-	yes ¹⁾				
HEATING SYSTEM REQUIREMENT							
Minimum water volume of heating system		l	60	90	120	150	180

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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.