MONOBLOC 4TH GENERATION

MODEL			SMH-40IRB	SMH-60IRB	SMH-80IRB	SMH-100IRB2	SMH-100IRB2-3
Suitable for building heat loss			3 - 5 kW	4 - 6 kW	6 - 8 kW	7 - 9,5 kW	7 - 9,5 kW
Capacity*1	Cooling (floor heating)	kW	3,8	5,8	6,8	8,8	8,8
	Heating (floor heating)	kW	4	6	7,5	10	10
Power Input*1	Cooling (floor heating)	kW	0,82	1,32	1,55	1,96	1,96
	Heating (floor heating)	kW	0,78	1,2	1,63	2,15	2,15
EER*1 (floor cooling)		-	4,65	4,4	4,4	4,5	4,5
COP*1 (floor heating)		-	5,1	5	4,6	4,65	4,65
Capacity*2	Cooling (fan coil)	kW	3	4	5	7,8	7,8
	Heating (fan coil or radiator)	kW	4	6	7,5	10	10
Power Input*2	Cooling (fan coil)	kW	0,94	1,27	1,56	2,48	2,48
	Heating (fan coil or radiator)	kW	0,98	1,56	2	2,67	2,67
EER*2 (fan coil)		-	3,2	3,15	3,2	3,15	3,15
COP*2 (fan coil or radiator)		-	4,1	3,85	3,75	3,75	3,75
Refrigerant		Typ / kg / t Eq. CO_2	R32 / 0,87 / 0,587			R32 / 2,2 / 1,485	
Average climate SCOP (55 ºC / 35 ºC)		-	3,3/4,8	3,3/4,8	3,3/4,8	3,2/4,5	3,2/4,5
Energy class (55 ºC / 35 ºC)		-	A++/A+++	A++/A+++	A++/A+++	A++/A+++	A++/A+++
Compressor type		-	Twin rotary				
Fin coating		-	gold fin				
Operation range	Cooling	ºC	7~25				
	Heating	ºC	20~60				
	DHW	ºC	40~80 (55 ºC maximum by compressor)				
Outdoor air operation temperature range	Cooling	ºC	10~48				
	Heating	ºC	-25~35				
	DHW	ºC	-25~45				
Sound pressure level in 1m	Cooling	dB (A)	56			59	
	Heating	dB (A)	58			61	
Dimensions (WxDxH)	Outline	mm	1150×345×758			1200×460×879	
	Package	mm	1258×488×900			1288×588×1020	
Net/gross weight		kg	96/109			151/166	
Power supply		V/Ph/Hz	220-240 / 1 / 50				380-415 / 3 / 50
Circuit breaker		A	16	16	20	25	16
Recommended power cable		-	3×2,5 mm^2	3×2,5 mm^2	3×4 mm^2	3×6 mm^2	5×2,5 mm^2
Inrush current		A	1	1	1	1	1
Nominal current		A	3,5	5,8	6,8	8,6	2,9
Maximum current		A	10,4		19	23	12
Built in backup heater		kW	No				
OTHER TECHNICAL DATA							
Water pipe connection		inch	1´´ (outer)				
Distance of holes		mm	1150×345			1200×460	
STANDARD ACCESSORIES							
Y-filter		-	Yes				
Display		-	Yes				
Remote Air Temperature Sensor with cable		-	Yes (9,5 m)				
Display communication cable		-	Yes (8 m)				
Temperature sensor for DHW		-	Yes (20 m)				
Temperature sensor for E-heater		-	Yes (5,5 m)				
Product fiche + energy label		-	Yes				
OPTIONAL ACCESSORIES							
Optional E-heater		-	EH-SMH				
Three-way valve		-	Field supply (230V, 10-30 sec. switch time)				
HEATING SYSTEM REQUIREMENTS							
Minimum water volume of heating system		l	60	90	120	150	150
Minimum water flow		l/min	9,2±1,7	9,2±1,7	9,2±1,7	9,2±1,7	9,2±1,7

Values marked *1 condition:
Cooling: Indoor Water Temperature: 23 ºC/18 ºC, Outdoor Temperature: 35 ºC DB/24 ºC WB
Heating: Indoor Water Temperature: W30 ºC/35 ºC, Outdoor Temperature: 7 ºC DB/6 ºC WB
Values marked *2 condition:
Cooling: Indoor Water Temperature: 12 ºC/7 ºC, Outdoor Temperature: 35ºC DB/24ºC WB
Heating: Indoor Water Temperature: 40 ºC/45 ºC, Outdoor Temperature: 7 ºC DB/6 ºC 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.
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.

MONOBLOC 4TH GENERATION

MODEL			SMH-120IRB2-3	SMH-140IRB2-3	SMH-160IRB2-3	SMH-120IRB2	SMH-140IRB2
Suitable for building heat loss			10 - 12 kW	11 - 14 kW	12 - 15 kW	10 - 12 kW	11 - 14 kW
Capacity*1	Cooling (floor heating)	kW	11	12,5	14,5	11	12,5
	Heating (floor heating)	kW	12	14	15,5	12	14
Power Input*1	Cooling (floor heating)	kW	2,56	3,05	3,82	2,56	3,05
	Heating (floor heating)	kW	2,64	3,22	3,6	2,64	3,22
EER*1 (floor cooling)		-	4,2	4	4	4,2	4
COP*1 (floor heating)		-	4,55	4,35	4,35	4,55	4,35
Capacity*2	Cooling (fan coil)	kW	9,5	12	13	9,5	12
	Heating (fan coil or radiator)	kW	12	14	15,5	12	14
Power Input*2	Cooling (fan coil)	kW	3,11	4,14	4,73	3,11	4,14
	Heating (fan coil or radiator)	kW	3,48	4,18	4,7	3,48	4,18
EER*2 (fan coil)		-	3	3,05	2,9	3	3,05
COP*2 (fan coil or radiator)		-	3,5	3,6	3,55	3,5	3,6
Refrigerant		Typ / kg / t Eq. CO_2	R32 / 2,2 / 1,485				
Average climate SCOP (55 °C / 35 °C)		-	3,3/4,5	3,2/4,3	3,2/4,3	3,2/4,5	3,2/4,3
Energy class (55 °C / 35 °C)		-	A++/A+++	A++/A++	A++/A++	A++/A+++	A++/A++
Compressor type		-	Twin rotary				
Fin coating		-	gold fin				
Operation range	Cooling	°C	7~25				
	Heating	°C	20~60				
	DHW	°C	40~80 (55 °C maximum by compressor)				
Outdoor air operation temperature range	Cooling	°C	10~48				
	Heating	°C	-25~35				
	DHW	°C	-25~45				
Sound pressure level in 1m	Cooling	dB (A)	59				
	Heating	dB (A)	61				
Dimensions (WxDxH)	Outline	mm	1200×460×879				
	Package	mm	1288×588×1020				
Net/gross weight		kg	151/166				
Power supply		V/Ph/Hz	380-415 / 3 / 50			220-240 / 1 / 50	
Circuit breaker		A	16	16	16	32	40
Recommended power cable		-	5×2,5 mm^2	5×2,5 mm^2	5×2,5 mm^2	3x10mm^2	3x10mm^2
Inrush current		A	1	1	1	1	1
Nominal current		A	3,8	4,5	5,6	11,47	14
Maximum current		A	12	12	12	25	34
Built in backup heater		kW	No				
OTHER TECHNICAL DATA							
Water pipe connection		inch	1´´ (outer)				
Distance of holes		mm	1200×460				
STANDARD ACCESSORIES							
Y-filter		-	Yes				
Display		-	Yes				
Remote Air Temperature Sensor with cable		-	Yes (9,5 m)				
Display communication cable		-	Yes (8 m)				
Temperature sensor for DHW		-	Yes (20 m)				
Temperature sensor for E-heater		-	Yes (5,5 m)				
Product fiche + energy label		-	Yes				
OPTIONAL ACCESSORIES							
Optional E-heater		-	EH-SMH				
Three-way valve		-	Field supply (230V, 10-30 sec. switch time)				
HEATING SYSTEM REQUIREMENTS							
Minimum water volume of heating system		l	180	210	240	180	210
Minimum water flow		l/min	9,2±1,7	9,2±1,7	9,2±1,7	9,2±1,7	9,2±1,7

Values marked *1 condition:
Cooling: Indoor Water Temperature: 23 °C/18 °C, Outdoor Temperature: 35 °C DB/24 °C WB
Heating: Indoor Water Temperature: W30 °C/35 °C, Outdoor Temperature: 7 °C DB/6 °C WB
Values marked *2 condition:
Cooling: Indoor Water Temperature: 12 °C/7 °C, Outdoor Temperature: 35°C DB/24°C WB
Heating: Indoor Water Temperature: 40 °C/45 °C, Outdoor Temperature: 7 °C DB/6 °C WB
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MONOBLOC 4TH GENERATION

MODEL			SMH-160IRB2				
Suitable for building heat loss			12 - 15 kW				
Capacity*1	Cooling (floor heating)	kW	14,5				
	Heating (floor heating)	kW	15,5				
Power Input*1	Cooling (floor heating)	kW	3,82				
	Heating (floor heating)	kW	3,6				
EER*1 (floor cooling)		-	4				
COP*1 (floor heating)		-	4,35				
Capacity*2	Cooling (fan coil)	kW	13				
	Heating (fan coil or radiator)	kW	15,5				
Power Input*2	Cooling (fan coil)	kW	4,73				
	Heating (fan coil or radiator)	kW	4,7				
EER*2 (fan coil)		-	2,9				
COP*2 (fan coil or radiator)		-	3,55				
Refrigerant		Typ / kg / t Eq. CO_2	R32 / 2,2 / 1,485				
Average climate SCOP (55 ºC / 35 ºC)		-	3,2/4,2				
Energy class (55 ºC / 35 ºC)		-	A++/A++				
Compressor type		-	Twin rotary				
Fin coating		-	gold fin				
Operation range	Cooling	ºC	7~25				
	Heating	ºC	20~60				
	DHW	ºC	40~80 (55 ºC max. by compressor)				
Outdoor air operation temperature range	Cooling	ºC	10~48				
	Heating	ºC	-25~35				
	DHW	ºC	-25~45				
Sound pressure level in 1m	Cooling	dB (A)	59				
	Heating	dB (A)	61				
Dimensions (WxDxH)	Outline	mm	1200×460×879				
	Package	mm	1288×588×1020				
Net/gross weight		kg	151/166				
Power supply		V/Ph/Hz	220-240 / 1 / 50				
Circuit breaker		A	40				
Recommended power cable		-	3x10mm^2				
Inrush current		A	1				
Nominal current		A	15,65				
Maximum current		A	34				
Built in backup heater		kW	No				
OTHER TECHNICAL DATA							
Water pipe connection		inch	1´´ (outer)				
Distance of holes		mm	1200×460				
STANDARD ACCESSORIES							
Y-filter		-	Yes				
Display		-	Yes				
Remote Air Temperature Sensor with cable		-	Yes (9,5 m)				
Display communication cable		-	Yes (8 m)				
Temperature sensor for DHW		-	Yes (20 m)				
Temperature sensor for E-heater		-	Yes (5,5 m)				
Product fiche + energy label		-	Yes				
OPTIONAL ACCESSORIES							
Optional E-heater		-	EH-SMH				
Three-way valve		-	Field supply (230V, 10-30 sec. switch time)				
HEATING SYSTEM REQUIREMENTS							
Minimum water volume of heating system		l	240				
Minimum water flow		l/min	9,2±1,7				

Values marked *1 condition:
Cooling: Indoor Water Temperature: 23 ºC/18 ºC, Outdoor Temperature: 35 ºC DB/24 ºC WB
Heating: Indoor Water Temperature: W30 ºC/35 ºC, Outdoor Temperature: 7 ºC DB/6 ºC WB
Values marked *2 condition:
Cooling: Indoor Water Temperature: 12 ºC/7 ºC, Outdoor Temperature: 35ºC DB/24ºC WB
Heating: Indoor Water Temperature: 40 ºC/45 ºC, Outdoor Temperature: 7 ºC DB/6 ºC WB
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