

Model Line-up

Capacity	Unit	Model Name		
		Capacity (kW)		
		12.0	14.0	16.0
1 Phase Model 220 - 240V, 1Ø, 50Hz	Monobloc Unit	HM121MR U34	HM141MR U34	HM161MR U34
3 Phase Model 380 - 415V, 3Ø, 50Hz		HM123MR U34	HM143MR U34	HM163MR U34

Seasonal Energy

Description			Unit	HM121MR U34 (1Ø)	HM141MR U34 (1Ø)	HM161MR U34 (1Ø)
				HM123MR U34 (3Ø)	HM143MR U34 (3Ø)	HM163MR U34 (3Ø)
Space Heating (According to EN14825)	Average Climate Water Outlet 35°C	SCOP	-	4.67	4.62	4.53
		Seasonal Space Heating Efficiency (η_s)	%	184	182	178
		Seasonal Space Heating Eff. Class (A+++ to D Scale)	-	A+++	A+++	A+++
	Average Climate Water Outlet 55°C	SCOP	-	3.47	3.46	3.45
		Seasonal Space Heating Efficiency (η_s)	%	136	135	135
		Seasonal Space Heating Eff. Class (A+++ to D Scale)	-	A++	A++	A++

Nominal Capacity and Nominal Power Input

Description		OAT ¹⁾ (DB)	LWT ²⁾ (DB)	Unit	HM121MR U34 (1Ø)	HM141MR U34 (1Ø)	HM161MR U34 (1Ø)
					HM123MR U34 (3Ø)	HM143MR U34 (3Ø)	HM163MR U34 (3Ø)
Nominal Capacity	Heating	7°C	35°C	kW	12.00	14.00	16.00
		7°C	55°C		11.00	11.50	12.00
		2°C	35°C		11.00	12.00	13.80
	Cooling	35°C	18°C		12.00	14.00	16.00
		35°C	7°C		12.00	14.00	16.00
Nominal Power Input	Heating	7°C	35°C	kW	2.45	2.92	3.40
		7°C	55°C		3.79	4.04	4.29
		2°C	35°C		3.01	3.31	3.83
	Cooling	35°C	18°C		2.53	3.26	4.00
		35°C	7°C		3.64	4.24	5.16
COP	Heating	7°C	35°C	W/W	4.90	4.80	4.70
		7°C	55°C		2.90	2.85	2.80
		2°C	35°C		3.65	3.63	3.60
EER	Cooling	35°C	18°C	W/W	4.75	4.30	4.00
		35°C	7°C		3.30	3.30	3.10

1) OAT : Outdoor Air Temperature

2) LWT : Leaving Water Temperature

Product Specification

Technical Specification				Unit	HM121MR U34	HM141MR U34	HM161MR U34	HM123MR U34	HM143MR U34	HM163MR U34
Water Side	Operation Range (leaving water temperature)	Heating	Min. - Max.	°C DB	15 ~ 65					
		Cooling			5 ~ 27 (16 ~ 27) ¹⁾					
		DHW			15 ~ 80 ²⁾					
	Piping Connections	Water	Inlet	Inch	Male PT 1" according to ISO 7-1 (tapered pipe threads)					
		Circuit	Outlet	Inch	Male PT 1" according to ISO 7-1 (tapered pipe threads)					
Rated Water Flow Rate at LWT 35°C				LPM	34.5	40.3	46.0	34.5	40.3	46.0
Refrigerant Side	Operation Range (outdoor temp.)	Heating	Min. - Max.	°C DB	-25 ~ 35					
		Cooling			5 ~ 48					
	Compressor	Quantity	EA	1						
		Type	-	Hermetic Sealed Scroll						
	Refrigerant	Type	-	R32						
		GWP (global warming potential)	-	675						
		Precharged Amount	g	2,000						
		t-CO ₂ eq	-	1.350						
Sound Power Level		Heating	Rated	dB(A)	60	61		60	61	
			Low Noise Mode		56	57		56	57	
Sound Pressure Level (at 1m)		Heating	Rated	dB(A)	38	39		38	39	
			Low Noise Mode		34	35		34	35	
Dimensions		Unit	W x H x D	mm	1,239 x 1,380 x 330					
Weight		Unit		kg	118.6					
Exterior		Color / RAL Code		-	Warm Gray / RAL 7044					
Power Supply		Voltage, Phase, Frequency		V, Ø, Hz	220-240, 1, 50			380-415, 3, 50		
		Rated Running Current	Heating	A	10.9	12.9	15.1	3.6	4.3	5.0
			Cooling	A	11.2	14.4	17.7	3.7	4.8	5.9
		Recommended Circuit Breaker		A	40			16		
Wiring Connections		Power Supply Cable (included earth, H07RN-F)		mm ² x cores	6.0 x 3C			4.0 x 5C		

1) When fan coil unit not used.

2) DHW 58-80°C Operating is available only when the booster heater is operating.

Note

1. Due to our policy of innovation some specifications may be changed without notification.

2. Wiring cable size must comply with the applicable local and national codes.

Especially the power cable and circuit breaker should be selected in accordance with that.

3. Sound power level is measured on the rated condition in according with ISO 9614 standard.

Sound pressure level is converted from sound power level based on tonality penalty of 0dB and installation in free-field.

Therefore, these values can be increased owing to ambient conditions during operation. Rated sound power level is according to the EN12102-1 under conditions of the EN14825.

4. Performances are accordance with EN14511 and reflect ErP testing conditions. Above gives the declared values at rated conditions acc. ErP regulation.

• Rated running current : Outdoor Temp. 7°C DB / 6°C CWB, LWT 35°C

5. This product contains Fluorinated greenhouse gases.