User Convenience























Intuitive interface

LG ThinQ

Mixing circuit

Various control options



Flow sensor

Pressure

3rd party boiler

Energy monitoring

Seasonal auto mode

Low noise mode

Advanced pump control



LG ThinQ Seamless Connectivity

LG ThinQ allows users to monitor and control compatible LG products remotely, so they can set the temperature and regulate the use of their THERMA V anytime, anywhere. ThinQ technology also works with voice activation with Google Home.





Intuitive Control

THERMA V is equipped with a new remote controller which supports various functions.

- Premium design (4.3 inch color LCD)
- User friendly interface (simple graphic, icon & text)
- Convenient functions (easy schedule setting & installer setting)
- Energy monitoring without meter interface (estimated power consumption)







Reduced Noise Level



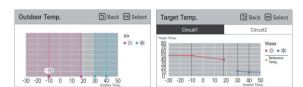
The UK Government states that the noise level should not be higher than 45dB when being 1 meter away from the window of a neighbouring residential property.

^{*} Sound Pressure Level is converted from Sound Power Level of Low Noise Mode based on Tonality penalty of 0dB and installation in free-field



Seasonal Auto Mode

The operation mode and target temperature will be changed according to the outdoor temperature automatically. Moreover, this function can be conveniently set using visualized graphics.





Energy Monitoring

Without connection of Meter Interface, estimated power consumption for Therma V and backup heater can be monitored on the remote controller.



^{*} Instant power consumption and cumulative power consumption

THERMA V_m R32 Monobloc S at a Glance

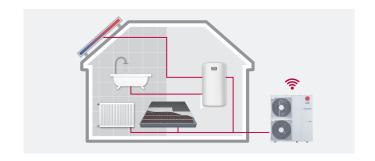


The THERMA V R32 Monobloc S is the 2nd generation of LG's R32 Monobloc series. As implied by "silence" and "supreme," it boasts reduced noise level and best performance in the THERMA V Series. Combining the indoor and outdoor as one module, it's also connected by only water piping eliminating the need for refrigerant piping. Furthermore, hydronic components like the plate heat exchanger, expansion tank, water pump, flow sensor, pressure sensor, air vent valve, and safety valve are conveniently situated inside the unit. The R32 Monobloc S provides excellent heating performance, especially at low ambient temperature while it lowering its carbon emissions with R32.

THERMA V_m (R32) Monobloc S

Enhanced installation flexibility

- · All-in-one outdoor unit
- · Low sound level allowing high installation location flexibility
- ODU with built-in hydronic components: water pump, flow sensor, pressure sensor, expansion tank, air vent, etc.
- User-friendly installation settings interface
- Optional electric backup heater (3kW or 6kW)
- Enhanced connectivity for 3rd party backup heater



High efficiency and wide operational range

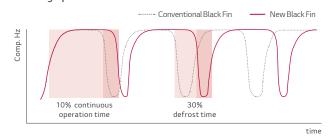
- R32 refrigerant with reduced global warming potential (GWP)
- $\bullet \, Less \, environmental \, impact \, with \, low \, refrigerant \, amount \, (compared \, to \, R410A)$
- 100% heating capacity at -15 $^{\circ}$ OAT (@ LWT 35 $^{\circ}$)
- Improved heating operation at defrost condition
- SCOP up to 4.67 (Average climate / Low temp. application): A+++
 SCOP up to 3.47 (Average climate / Mid temp. application): A++
- COP up to 4.90 (Outdoor air 7° / Leaving water 35°)
- Leaving water temperature up to 65°
- Expanded operative range of solar thermal system

Outdoor Air Temp. -15 $^{\circ}$ DB / Leaving Water Temp. 35 $^{\circ}$ Outdoor Air Temp. $-15^{\circ}DB$ / Leaving Water Temp. 55° Heating Capacity (kW) 14 12 10 8 6 4 2 5kW 7kW 9kW 12kW 14kW

Innovative design and technology

- Improved heat exchanger design (New Black Fin)
- Built-in water flow & pressure sensors to monitor real-time water circuit
- Advanced water pump control (Optimal flow rate, fixed capacity, fixed flow rate)
- ullet Enhanced 2^{nd} circuit control logic
- Energy monitoring of estimated power consumption via remote controller
- Modbus connectivity without gateway
- $\bullet \, {\sf Control} \, {\sf for} \, {\sf DHW} \, {\sf recirculation} \, {\sf pump} \, {\sf based} \, {\sf on} \, {\sf schedule} \,$

Heating operation at defrost condition



10% increase in overall operating rate during defrost condition

 ${}^{\star}\mathsf{This}\,\mathsf{result}\,\mathsf{is}\,\mathsf{based}\,\mathsf{on}\,\mathsf{LG}\,\mathsf{internal}\,\mathsf{test}\,\mathsf{and}\,\mathsf{it}\,\mathsf{can}\,\mathsf{be}\,\mathsf{different}\,\mathsf{depending}\,\mathsf{on}\,\mathsf{actual}\,\mathsf{environment}.$

Durchust	Canacity (k)N)	Uı	Unit				
Product	Capacity (kW)	1Ø	зø	Appearance			
	5	HM051MR U44	-				
	7	HM071MR U44	- 0				
D22 M	9	HM091MR U44	-				
R32 Monobloc S	12	HM121MR U34	HM123MR U34	6 LG			
	14	HM141MR U34	HM143MR U34				
	16	HM161MR U34	HM163MR U34				





R32 Monobloc S



EASY INSTALLATION

EXCELLENT PERFORMANCE & EFFICIENCY























all-in-one

LG heating

Clip

R1

R32

Flash gas

Wide operation Black Fin

Modbus communication



configurator*

* Will be supported within this yea

compressor

refrigerant

injection

heat exchanger range

Solar thermal

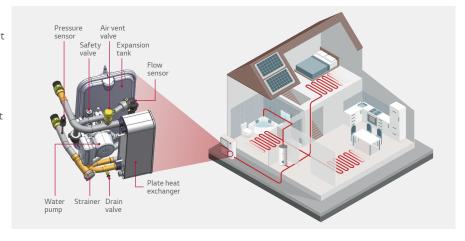
Energy state



Monobloc Concept

R32 Monobloc S is an all-in-one concept and reduced weight allows for quicker and easier installations.

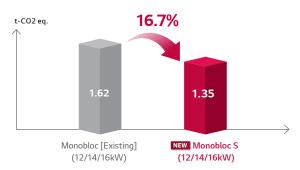
- Additional hydronic components are included in the package
- · Easier and quicker installation without refrigerant piping work





Less Environmental Impact

R32 Monobloc S produces less carbon emission by reducing the amount of refrigerant in the system compared to current model.



Line up : 12 / 14 / 16 kW	Monobloc [Existing]	NEW Monobloc S
Refrigerant Amount (kg)	2.4	2.0
T-CO2 eq.	1.62	1.35



R1 Compressor™

LG's Revolutionary Technology

R1Compressor™ technology offers advanced efficiency, reliability and operational range due in part to the enhanced tilting motion of the scroll.



Extended operation range (max. 135Hz)

Centrifugal oil return & Oil separating guide for oil discharge reduction

Shaft-through structure & Support both ends of shaft Solid compressor operation assuring higher durability

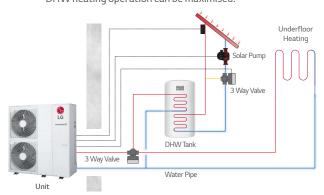
Bottom compression & Simple structure

- Lower noise & vibration
- Less weight
- Superior reliability



Combination with Solar Thermal System

By combining the solar system with Therma V, the efficiency of DHW heating operation can be maximised.





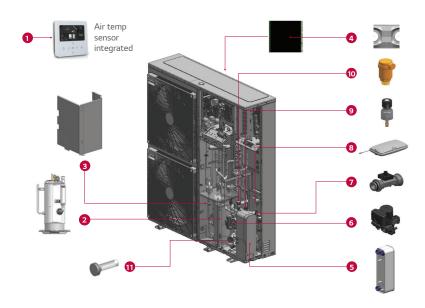


Direct Modbus Communication

R32 Monobloc S can be connected and controlled by 3rd party control system using Modbus protocol directly, without Modbus RTU gateway.



Key Components



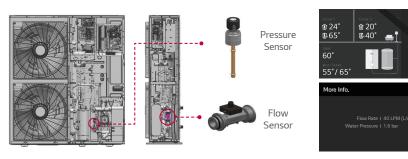
- Standard III remote controller (separately provided)
- 2 R1 Compressor
- 3 NEW Compressor noise shield
- 4 NEW Black Fin heat exchanger (ref/air)
- 5 Plate type heat exchanger (ref/water)
- 6 Water pump (GRUNDFOS)
- 7 NEW Nater flow sensor
- 8 Expansion vessel (81)
- 9 NEW Water pressure sensor
- 10 Air vent valve
- Strainer



Water Circuit Monitoring

It is possible to monitor via remote controller not only temperature of water circuit but also flow rate and pressure. These information provides installers with more reliable information for easier installation and maintenance (periodic strainer cleaning).





Available information on the screen

- The room temperature
- The water inlet / outlet temperature
- The water pump operation
- NEW he water flow rate
- NEW he water pressure
- The solar heat temperature
- The outdoor temperature



Advanced Pump Control Options

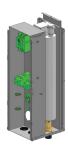
Various pump operation options contribute to energy savings by providing optimum water pump control and reliable product operation.



Options	Description	Water Flow Change as per load condition
Pump Capacity	It operates with the capacity set for the water pump. (range 10 ~ 100%)	No
Fixed Flow Rate	Automatically controlled to maintain the set flow rate. (5, 7, 9kW range: 8 ~ 26 LPM / 12, 14, 16kW range: 17 ~ 46 LPM)	No
Fixed ΔT*	Automatically controlled to maintain the set ΔT. (range 5 ~ 13½)	Yes
Optimal Flow Rate (default)	ΔT is changed as per Target Temp.	Yes

^{*} $\ensuremath{\square} T$ = temperature difference between inlet and outlet water temperature.

Accessory Backup Heater



Technical Specific	ation	Unit	HA031M E1	HA061M E1	HA063M E1
	Туре	-		Sheath	
Backup Heater	Number of Heating Coil	EA	1	2	3
	Capacity Combination	kW	3.0	3.0 + 3.0	2.0 + 2.0 + 2.0
	Heating Steps	Step	1	2	1
·	Power Supply	V, Ø, Hz	220 ~ 2	40, 1, 50	380 ~ 415, 3, 50
	Current (Rated)	A	12.5	25.0	8.7
	Circuit Breaker (ELCB)	A	25	40	25
	Dimensions (W x H x D)	mm		210 x 607 x 217	
Wiring Connections	Power Cable (Included Earth, H07RN-F)	mm² x cores	1.5 x 3C	4.0 x 3C	2.5 x 4C
	Communication Cable (H07RN-F)	mm² x cores	0.75	0.75 x 2C	

Nominal Capacity and Nominal Input

Description		OAT ¹⁾	LWT ²⁾	Unit	HM051MR U44	HM071MR U44	HM091MR U44	HM121MR U34	HM141MR U34	HM161MR U34
		(DB)	(DB)	Unit	HIVIUSTIVIK U44	HIMO/TIMIR 044	HIMU9 IMR 044	HM123MR U34	HM143MR U34	HM163MR U34
Nominal Capacity Heating		7°	35°		5.50	7.00	9.00	12.00	14.00	16.00
	Heating	7°	55°	kW	5.50	7.00	9.00	11.00	11.50	12.00
	-	2°	35°		5.50	7.00	9.00	11.00	12.00	13.80
		7°	35°		1.17	1.49	1.96	2.45	2.92	3.40
Nominal Power Input	Heating	7°	55°	kW	2.04	2.04	2.04	3.79	4.04	4.29
		2°	35°		1.22	1.58	1.94	3.01	3.31	3.83
		7°	35°		4.70	4.70	4.60	4.90	4.80	4.70
COP	Heating	7°	55°	W/W	2.70	2.70	2.70	2.90	2.85	2.80
		2°	35°		3.60	3.55	3.50	3.65	3.63	3.60

1) OAT : Outdoor Air Temperature 2) LWT : Leaving Water Temperature

Product Specification

Technical S	pecification			Unit	HM051MR U44	HM071MR U44	HM091MR U44	HM121MR U34 (1Ø) HM123MR U34 (3Ø)	HM141MR U34 (1Ø) HM143MR U34 (3Ø)	HM161MR U34 (1Ø) HM163MR U34 (3Ø)			
	Operation Range (Leaving Water Temp.)	Heating DHW	Min. ~ Max.	°DB				15 ~ 65 5 ~ 80 ²⁾					
	Water Pump	Model		-	Grun	Grundfos UPM3K 20-75 CHBL Grundfos UPML 20-105 CHBL							
	Flow Sensor	Measuring Range	Measuring Range		5 ~ 80								
Water	Water Pressure Sensor	Measuring Range		bar (G)		0 ~ 20							
Side	Expansion Vessel	Volume	Max.	f		8							
	Water Circuit	Inlet	inch		Male	e PT 1" according to	ISO 7-1 (tapered pipe	threads)					
	Piping Connections	vvater Circuit	Outlet	inch		Male PT 1" according to ISO 7-1 (tapered pipe threads)							
	Strainer	Max. Particle Size /	Material	mm/-			0.6 / S	tainless Steel					
	Safety Valve	Pressure Limit	Upper Limit	bar				3.0					
	Rated Water Flow Rate	at LWT 35°		ℓ/min	15.8	20.1	25.9	34.5	40.3	46.0			
	Operation Range (Outdoor Temp.)	Heating	Min ~ Max	°DB	-25 ~ 35								
D-6:	Compressor	Туре		-			Hermet	ic Sealed Scroll					
Refrigerant Side		Туре		-	R32								
Side	Refrigerant	GWP (Global Warn	GWP (Global Warming Potential)		675								
	Remgeranc	Precharged Amoun	t	g	1,400 2,000								
		t-CO2 eq		-		0.945			1.350	1.350			
Sound Power	e I aval	Heating	Rated	dB(A)		57		60	6	1			
Souria Power	Level	пеацііў	Low Noise Mode	dB(A)	54	5	5	56	5	7			
Cound Proces	ure Level (at 5m)	Heating	Rated	dB(A)		35		38	3	9			
	ule Level (at 5111)	3	Low Noise Mode	dB(A)	32	3		34		5			
Dimensions		Unit	W×H×D	mm		1,239 × 834 × 330			1,239 × 1,380 × 330				
Weight		Unit		kg		89.0			118.6				
Exterior		Color / RAL Code		-			Warm G	rey / RAL 7044					
		Voltage, Phase, Free	quency	V, Ø, Hz		220-240, 1, 50		220-240, 1, 50 / 380-415, 3, 50					
Power Supply	Power Supply		Heating	А	5.2	6.6	8.7	1Ø:10.9/3Ø:3.6	10:12.9/30:4.3	1Ø:15.1/3Ø:5.0			
		Recommended Circ	uit Breaker	Α	16	20	25		10:40/30:16				

- 1) When fan coil unit not used.
- 2) DHW 58-80° Operating is available only when the booster heater is operating.
- $1. \, \text{Due to our policy of innovation some specifications may be changed without notification}.$
- 2. Wiring cable size must comply with the applicable local and national codes. Especially thepower 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.
- $4. \, Performances \, are \, accordance \, with \, EN14511 \, and \, reflect \, ErP \, testing \, conditions. \, Above \, gives \, the \, conditions \, accordance \, with \, EN14511 \, and \, reflect \, ErP \, testing \, conditions \, accordance \, with \, EN14511 \, and \, reflect \, ErP \, testing \, conditions \, accordance \, with \, EN14511 \, and \, reflect \, ErP \, testing \, conditions \, accordance \, with \, EN14511 \, and \, reflect \, ErP \, testing \, conditions \, accordance \, with \, EN14511 \, and \, reflect \, ErP \, testing \, conditions \, accordance \, with \, EN14511 \, and \, reflect \, ErP \, testing \, conditions \, accordance \, with \, EN14511 \, and \, reflect \, ErP \, testing \, conditions \, accordance \, with \, EN14511 \, and \, reflect \, ErP \, testing \, conditions \, accordance \, with \, EN14511 \, and \, reflect \, ErP \, testing \, conditions \, accordance \, with \, EN14511 \, and \, reflect \, ErP \, testing \, conditions \, accordance \, with \, EN14511 \, accordance \, with$ declared values at rated conditions acc. ErP regulation.
 - $\bullet \, \mathsf{Rated} \, \mathsf{running} \, \mathsf{current} \colon \! \mathsf{Outdoor} \, \mathsf{Temp.} \, \mathsf{7^{\circ}CDB} \, \mathsf{/} \, \mathsf{6^{\circ}CWB}, \mathsf{LWT} \, \mathsf{35^{\circ}C}$
- $5. \, This \, product \, contains \, fluorinated \, greenhouse \, gases.$

Seasonal Energy Efficiency

Description			Unit	HM051MR U44	HM071MR U44	HM091MR U44
	Average Climate Water	SCOP	W/W	4.46	4.48	4.55
		Seasonal Space Heating Efficiency (🗈s)	%	175	176	179
Space Heating	Outlet 35°C	Seasonal Space Heating Eff. Class (A+++ to D Scale)	-	A+++	A+++	A+++
(According to	Average Climate Water	SCOP	-	3.20	3.20	3.20
Clir		Seasonal Space Heating Efficiency (🗈s)	%	125	125	125
	Outlet 55°C	Seasonal Space Heating Eff. Class (A+++ to D Scale)	-	A++	A++	A++





















Description			Unit	HM121MR U34 HM123MR U34	HM141MR U34 HM143MR U34	HM161MR U34 HM163MR U34
		SCOP	-	4.67	4.62	4.53
Space Heating	Average Climate Water Outlet 35°C	Seasonal Space Heating Efficiency	%	184	182	178
		Seasonal Space Heating Eff. Class (A+++ to D Scale)	-	A+++	A+++	A+++
(According to EN		SCOP	-	3.47	3.46	3.45
14825)	Average Climate Water Outlet 55°C	Seasonal Space Heating Efficiency (2s)	%	136	135	135
		Seasonal Space Heating Eff. Class	-	A++	A++	A++













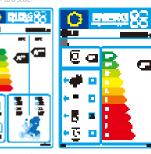








^{*} A+++ to D scale





Performance Table for Heating Operation

Maximum Heating Capacity (Including Defrost Effect)

HM051MR U44

Outdoor	LWT 30	LWT 35®	LWT 40	LWT 452	LWT 502	LWT 552	LWT 60	LWT 65®
Temperature	TC	TC	TC	TC	TC	TC	TC	TC
-25°C DB	5.50	5.50	5.50	5.50	-	-	-	-
-20°C DB	5.50	5.50	5.50	5.50	5.23	-	-	-
-15°C DB	5.50	5.50	5.50	5.50	5.23	5.23	-	-
-7°C DB	5.50	5.50	5.50	5.50	5.50	5.50	5.50	-
-4°C DB	5.50	5.50	5.50	5.50	5.50	5.50	5.50	5.50
-2°C DB	5.50	5.50	5.50	5.50	5.50	5.50	5.50	5.50
2°C DB	5.50	5.50	5.50	5.50	5.50	5.50	5.50	5.50
7°C DB	5.50	5.50	5.50	5.50	5.50	5.50	5.50	5.50
10°C DB	5.50	5.50	5.50	5.50	5.50	5.50	5.50	5.50
15°C DB	5.50	5.50	5.50	5.50	5.50	5.50	5.50	5.50
18°C DB	5.50	5.50	5.50	5.50	5.50	5.50	5.50	5.50
20°C DB	5.50	5.50	5.50	5.50	5.50	5.50	5.50	5.50
35°C DB	5.50	5.50	5.50	5.50	5.50	5.50	5.50	5.50

HM071MR U44

Outdoor	LWT 30	LWT 35®	LWT 40	LWT 45@	LWT 50	LWT 55@	LWT 60	LWT 65 ²
Temperature	TC	TC	TC	TC	TC	TC	TC	TC
-25°C DB	5.85	5.85	5.85	5.85	-	-	-	-
-20°C DB	6.43	6.43	6.43	6.43	6.10	-	-	-
-15°C DB	7.00	7.00	7.00	7.00	6.65	6.65	-	-
-7°C DB	7.00	7.00	7.00	7.00	7.00	7.00	7.00	-
-4°C DB	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00
-2°C DB	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00
2°C DB	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00
7°C DB	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00
10°C DB	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00
15°C DB	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00
18°C DB	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00
20°C DB	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00
35°C DB	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00

HM091MR U44

Outdoor	LWT 30	LWT 35🛭	LWT 40	LWT 45@	LWT 50	LWT 55	LWT 60®	LWT 65®
Temperature	TC	тс	TC	TC	TC	TC	TC	TC
-25°C DB	6.20	6.20	6.20	6.20	-	-	-	-
-20°C DB	7.60	7.60	7.60	7.60	7.22	-	-	-
-15°C DB	9.00	9.00	9.00	9.00	8.55	8.55	-	-
-7°C DB	9.00	9.00	9.00	9.00	9.00	9.00	9.00	-
-4°C DB	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
-2°C DB	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
2°C DB	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
7°C DB	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
10°C DB	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
15°C DB	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
18°C DB	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
20°C DB	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
35°C DB	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00

- Note
 1. DB: Dry Bulb Temperature (°C), LWT: Leaving Water Temperature (°C), LPM: Liters Per Minute (I/min), TC: Total Capacity (kW)
 2. Direct interpolation is permissible. Do not extrapolate.
 3. Measuring procedure follows EN-14511.
 4. Rated values are based on standard conditions and it can be found on specifications.
 4. Above table values may not be matched according to installation condition. Except for rated value, the performance is not guaranteed.
 4. The shaded areas are not guaranteed continuous operation.



Performance Table for Heating Operation

Maximum Heating Capacity (Including Defrost Effect)

HM121MR U34 / HM123MR U34

Outdoor	LWT 30	LWT 35®	LWT 40	LWT 452	LWT 50	LWT 552	LWT 60	LWT 65®
Temperature	TC	TC	TC	TC	TC	TC	TC	TC
-25°C DB	9.50	9.50	9.50	9.50	-	-	-	-
-20°C DB	10.75	10.75	10.75	10.75	10.21	-	-	-
-15°C DB	12.00	12.00	12.00	12.00	11.50	11.50	-	-
-7°C DB	12.00	12.00	12.00	12.00	12.00	12.00	12.00	-
-4°C DB	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
-2°C DB	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
2°C DB	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
7°C DB	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
10°C DB	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
15°C DB	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
18°C DB	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
20°C DB	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
35°C DB	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00

HM141MR U34 / HM143MR U34

Outdoor	LWT 30	LWT 35	LWT 40	LWT 45	LWT 50	LWT 55®	LWT 60	LWT 65®
Temperature	TC	TC	TC	TC	TC	TC	TC	TC
-25°C DB	10.00	10.00	10.00	10.00	-	-	-	-
-20°C DB	12.00	12.00	12.00	12.00	11.40	-	-	-
-15°C DB	14.00	14.00	14.00	14.00	13.30	13.30	-	-
-7°C DB	14.00	14.00	14.00	14.00	14.00	14.00	14.00	-
-4°C DB	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00
-2°C DB	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00
2°C DB	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00
7°C DB	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00
10°C DB	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00
15°C DB	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00
18°C DB	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00
20°C DB	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00
35°C DB	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00

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Outdoor	LWT 301	LWT 351	LWT 402	LWT 45 ²	LWT 502	LWT 552	LWT 60 ¹²	LWT 65@
Temperature	TC	TC	TC	TC	TC	TC	TC	TC
-25°C DB	10.50	10.50	10.50	10.50	-	-	-	-
-20°C DB	13.25	13.25	13.25	13.25	12.59	-	-	-
-15°C DB	16.00	16.00	16.00	16.00	13.68	13.68	-	-
-7°C DB	16.00	16.00	16.00	16.00	16.00	16.00	16.00	-
-4°C DB	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00
-2°C DB	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00
2°C DB	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00
7°C DB	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00
10°C DB	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00
15°C DB	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00
18°C DB	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00
20°C DB	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00
35°C DB	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00

- Note
 1. DB: Dry Bulb Temperature (°C), LWT: Leaving Water Temperature (°C), LPM: Liters Per Minute (l/min), TC: Total Capacity (kW)
 2. Direct interpolation is permissible. Do not extrapolate.
 3. Measuring procedure follows EN-14511.
 Rated values are based on standard conditions and it can be found on specifications.
 Above table values may not be matched according to installation condition. Except for rated value, the performance is not guaranteed.
 In accordance with the test standard (or nations), the rating will vary slightly.
 4. The shaded areas are not guaranteed continuous operation.

