

MONOBLOC TYPE

HM031M.U42 / HM051M.U42
HM071M.U42 / HM091M.U42



Monobloc (Outdoor Unit)		Capacity	3kW 1Ø	5kW 1Ø	7kW 1Ø	9kW 1Ø
		Reference	HM031M.U42	HM051M.U42	HM071M.U42	HM091M.U42
Nominal Capacity	Heating (A7 / W35)	kW	3.00	4.99	7.00	9.00
	Heating (A2 / W50)	kW	2.18	3.63	5.08	6.18
	Heating (A-2 / W50)	kW	2.15	3.59	5.02	6.46
	Heating (A-7 / W35)	kW	2.21	3.68	5.16	6.97
	Cooling (A35 / W18)	kW	-	4.99	5.60	8.80
Nominal Power Input	Heating (A7 / W35)	kW	0.73	1.13	1.63	2.20
	Heating (A2 / W50)	kW	0.93	1.46	2.15	2.85
	Heating (A-2 / W50)	kW	0.98	1.52	2.16	2.78
	Heating (A-7 / W35)	kW	0.99	1.54	2.21	2.99
	Cooling (A35 / W18)	kW	-	1.38	1.55	2.32
COP	Heating (A7 / W35)		4.11	4.42	4.29	4.09
	Heating (A2 / W50)		2.34	2.49	2.36	2.17
	Heating (A-2 / W50)		2.19	2.36	2.32	2.32
	Heating (A-7 / W35)		2.23	2.39	2.33	2.33
EER	Cooling (A35 / W18)		-	3.62	3.61	3.79
Dimension	W x H x D	mm	950 x 834 x 330	1,239 x 907 x 390	1,239 x 907 x 390	1,239 x 907 x 390
Weight		kg	61	97	98	99
Sound Power Level (Heating)		dB (A)	57	66	66	66
Outdoor Air Operation Range	Heating	°C DB	-20 ~ 30		-20 ~ 35	
	Cooling	°C DB	-		5 ~ 48	
Leaving Water Temp. Range	Heating	°C	20 ~ 57		15 ~ 57	
	Cooling	°C	-		6 ~ 30	
Water Pipe Connection	Inlet	mm (inch)	Female 25.4 (1)			
	Outlet	mm (inch)	Female 25.4 (1)			
Electric Heater	Power Supply	P / V / Hz	-	1 / 220-240 / 50		
	Capacity	kW	-	4		
Water Flowrate Limit		LPM	Min.15			
Max. Water Head		m	6		7	
Power Supply		P / V / Hz	1 / 220-240 / 50			
Recommended Fuse		A	16		20	
Refrigerant (R410a)	Pre-Charged Amount	kg	0.75	1.20	1.45	1.60
		TCO ₂ eq	1.56	2.50	3.02	3.34
	GWP		2,087.5			
Seasonal space heating energy efficiency class	35°C / 55°C		A++ / A+	A++ / A+	A++ / A+	A++ / A+
Seasonal space heating energy efficiency (average)	35°C / 55°C	%	153 / 100	160 / 110	155 / 112	161 / 114
Rated heat output (average)	35°C / 55°C	kW	3 / 2	6 / 5	7 / 6	7 / 7
Annual energy consumption (average)	35°C / 55°C	kWh	1,541 / 1,917	3,119 / 3,707	3,631 / 4,641	3,761 / 4,638
Water pump EEI ≤			0.20	0.20	0.20	0.20

- * This product contains fluorinated greenhouse gases. (R410A)
- * All models do have electric heating cable for prevent frost from condensing water at the condensing pan except 3kW capacity.
- * Above table values does include humidification effect in the outdoor temperature below zero.
- * All specification in based on EN14511 and EN14825.
- * EHPA label for Germany, Austria and Switzerland.



Monobloc (Outdoor Unit)		Capacity Reference	12kW 1Ø	14kW 1Ø	16kW 1Ø	12kW 3Ø	14kW 3Ø	16kW 3Ø
			HM121M.U32	HM141M.U32	HM161M.U32	HM123M.U32	HM143M.U32	HM163M.U32
Nominal Capacity	Heating (A7 / W35)	kW	12.00	14.00	16.00	12.00	14.00	16.00
	Heating (A2 / W50)	kW	8.76	10.41	11.58	8.94	10.43	12.21
	Heating (A-2 / W50)	kW	8.63	10.33	11.45	8.84	10.31	12.07
	Heating (A-7 / W35)	kW	8.27	9.80	10.98	8.29	9.64	11.19
	Cooling (A35 / W18)	kW	10.40	12.20	13.20	10.40	12.20	13.20
Nominal Power Input	Heating (A7 / W35)	kW	2.67	3.15	3.81	2.67	3.15	3.81
	Heating (A2 / W50)	kW	3.51	4.26	4.83	3.65	4.32	5.12
	Heating (A-2 / W50)	kW	3.57	4.45	5.05	3.75	4.45	5.25
	Heating (A-7 / W35)	kW	2.97	3.57	4.30	2.95	3.50	4.39
	Cooling (A35 / W18)	kW	2.67	3.32	3.65	2.67	3.32	3.65
COP	Heating (A7 / W35)		4.49	4.44	4.20	4.49	4.44	4.20
	Heating (A2 / W50)		2.50	2.44	2.40	2.45	2.41	2.38
	Heating (A-2 / W50)		2.42	2.32	2.27	2.36	2.32	2.30
	Heating (A-7 / W35)		2.78	2.75	2.55	2.81	2.75	2.55
EER	Cooling (A35 / W18)		3.90	3.67	3.62	3.89	3.67	3.62
Dimension	W x H x D	mm	1,239 x 1,450 x 390					
Weight		kg	141			145		
Sound Power Level (Heating)		dB (A)	68					
Outdoor Air Operation Range	Heating	°C DB	-20 ~ 35					
	Cooling	°C DB	5 ~ 48					
Leaving Water Temp. Range	Heating	°C	15 ~ 57					
	Cooling	°C	6 ~ 35					
Water Pipe Connection	Inlet	mm (inch)	Female 25.4 (1)					
	Outlet	mm (inch)	Female 25.4 (1)					
Electric Heater	Power Supply	P / V / Hz	1 / 220-240 / 50			3 / 380-415 / 50		
	Capacity	kW	6					
Water Flowrate Limit		LPM	Min.15					
Max. Water Head		m	8					
Power Supply		P / V / Hz	1 / 220-240 / 50			3 / 380-415 / 50		
Recommended Fuse		A	32			20		
Refrigerant (R410a)	Pre-Charged Amount	kg	2.20					
	GWP	TCO ₂ eq	4.59					
Seasonal space heating energy efficiency class	35°C / 55°C		A++ / A+	A++ / A+	A++ / A+	A++ / A+	A++ / A+	A++ / A+
Seasonal space heating energy efficiency (average)	35°C / 55°C	%	166 / 121	166 / 121	164 / 121	174 / 124	164 / 124	163 / 124
Rated heat output (average)	35°C / 55°C	kW	11 / 10	12 / 10	12 / 10	11 / 11	12 / 11	11 / 13
Annual energy consumption (average)	35°C / 55°C	kWh	5,536 / 6,698	5,819 / 6,698	6,094 / 6,698	5,812 / 7,078	5,922 / 7,078	6,210 / 7,078
Water pump EEI ≤			0.23	0.23	0.23	0.23	0.23	0.23

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 * All specification in based on EN14511 and EN14825.
 * EHPA label for Germany, Austria and Switzerland.
 * EHPA label is not include 12/14/16kW single phase type.