AIR-TO-WATER HEAT PUMP · R290

KITA MP

High-efficiency reversible air-to-water heat pump



COM.SCH020AB-00 REV.0 - 28/10/2026

KITA MP-14 · MP-16 · MP-18 · MP-20

Heating performance data

Full load performance calculated according to UNI EN 14511	MP-14	MP-16	MP-18	MP-20
A7/W35				
Heating capacity [kW]	14.00	15.04	18.04	20.00
COP [-]	4.92	4.75	5.09	4.90
Power input [kW]	2.85	3.17	3.54	4.08
Power regulation [kW]	4.22 - 14.00	4.22 - 15.04	5.86 - 18.04	5.87 - 20.00
A2/W35				
Heating capacity [kW]	12.31	13.58	15.91	18.42
COP [-]	4.26	4.16	4.46	4.27
Power input [kW]	2.89	3.26	3.57	4.31
Power regulation [kW]	4.66 - 12.31	4.66 - 13.58	6.49 - 15.91	6.52 - 18.42
A-7/W35				
Heating capacity [kW]	10.31	11.36	13.24	16.38
COP [-]	3.18	2.95	3.31	3.16
Power input [kW]	3.24	3.85	4.00	5.18
Power regulation [kW]	5.02 - 10.31	5.03 - 11.36	6.99 - 13.24	7.02 - 16.38
A7/W55				
Heating capacity [kW]	12.64	13.87	16.72	18.49
COP [-]	3.16	3.00	3.38	3.26
Power input [kW]	4.00	4.62	4.95	5.67
Power regulation [kW]	3.68 - 12.64	3.68 - 13.87	5.56 - 16.72	5.17 - 18.49
A2/W55				
Heating capacity [kW]	11.15	12.29	14.84	17.15
COP [-]	2.80	2.70	3.01	2.87
Power input [kW]	3.98	4.55	4.93	5.98
Power regulation [kW]	4.18 - 11.15	4.18 - 12.29	6.26 - 14.84	5.97 - 17.15
A-7/W55				
Heating capacity [kW]	9.56	10.45	12.54	15.47
COP [-]	2.10	2.11	2.28	2.15
Power input [kW]	4.55	4.95	5.50	7.20
Power regulation [kW]	4.59 - 9.56	4.59 - 10.45	6.82 - 12.54	6.64 - 15.47

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Performance data and energy class

Heating performance data according to EN14825 (average climate)	MP-14	MP-16	MP-18	MP-20
Low-temperature applications (W35)				
Nominal heating capacity [kW]	11.80	12.67	15.00	18.56
Seasonal Energy Efficiency ηs [%]	204.7	202.1	212.3	206.9
Seasonal Coefficient of Performance (SCOP)	5.19	5.13	5.38	5.25
Medium Temperature Applications (W55)				
Nominal heating capacity [kW]	10.95	10.72	14.32	17.65
Seasonal Energy Efficiency ηs [%]	147.5	147.4	164.1	161.6
Seasonal Coefficient of Performance (SCOP)	3.76	3.76	4.18	4.12

Energy Efficiency Class according to EU Regulation 813/2013 (Heating, Average Climate)	MP-14	MP-16	MP-18	MP-20
Low-temperature applications (W35)	A+++	A+++	A+++	A+++
Medium Temperature Applications (W55)	A+++	A+++	A+++	A+++

Cooling Capacity Data according to EN14511	MP-14	MP-16	MP-18	MP-20
A35/W7				
Cooling capacity [kW]	12.00	12.00	12.00	12.00
EER [-]	3.11	3.11	3.38	3.38
Power input [kW]	3.86	3.86	3.55	3.55
Power regulation [kW]	3.18 - 12.00	3.18 - 12.00	3.55 - 12.00	3.55 - 12.00
A35/W18				
Cooling capacity [kW]	12.00	12.00	12.00	12.00
EER [-]	5.61	5.61	5.41	5.41
Power input [kW]	2.14	2.14	2.22	2.22
Power regulation [kW]	4.74 - 12.00	4.75 - 12.00	5.21 - 12.00	5.21 - 12.00

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Technical data

Operating range	MP-14	MP-16	MP-18	MP-20
Outdoor Air Temperature [°C]	-22 / 46	-22 / 46	-22 / 46	-22 / 46
Heating Water Flow Temperature [°C]	10 / 65	10 / 65	10 / 65	10 / 65
Cooling Water Flow Temperature [°C]	5 / 25	5 / 25	5 / 25	5 / 25

Sound power	MP-14	MP-16	MP-18	MP-20
Outdoor Sound Power Level ErP [dB(A)]	50.00	50.00	51.00	51.00
Maximum Outdoor Sound Power Level [dB(A)]	58.68	58.68	63.05	63.05

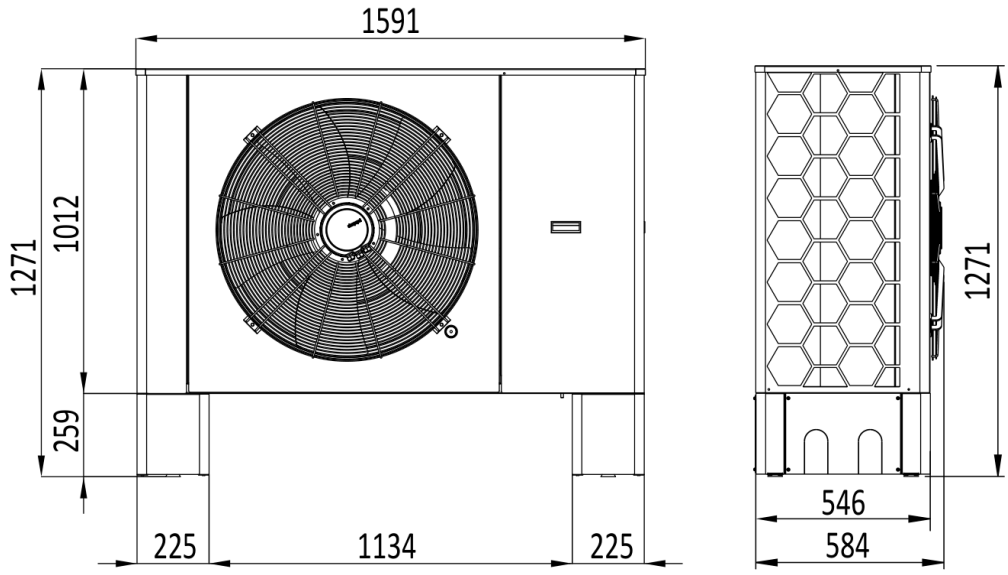
Outdoor Fan	MP-14	MP-16	MP-18	MP-20
Nominal Air Flow Rate [m³/h]	10,135	10,653	11,298	12,620
Maximum Speed [rpm]	600	600	735	735

Water circuit	MP-14	MP-16	MP-18	MP-20
Nominal water flow rate A7/W35 ΔT=5K [l/min]	40.00	46.00	52.00	57.00
Maximum Pressure [bar]	2.5	2.5	2.5	2.5

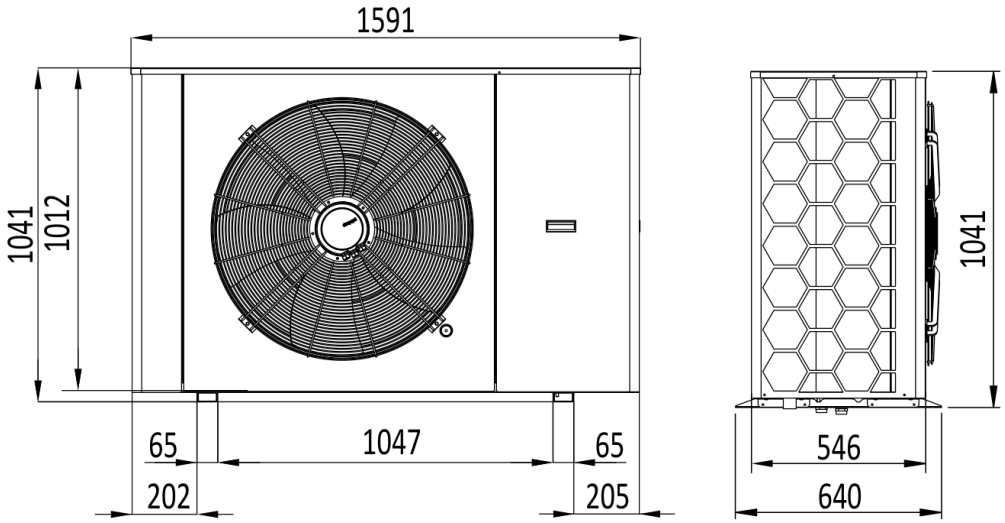
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Dimensions

Dimensions with legs



Dimensions with brackets



Dimensions and weight	MP-14	MP-16	MP-18	MP-20
Dimensions (HxWxD) [mm] (with legs)	1271x1591x546	1271x1591x546	1271x1591x546	1271x1591x546
Dimensions (HxWxD) [mm] (with brackets)	1012x1591x546	1012x1591x546	1012x1591x546	1012x1591x546
Weight [kg]	220	220	220	220