Refrigerant R410A R410A

5.5 to 16.0kW

Mini SysAqua DCI

Air-to-Water DCI Heat Pumps

Models M.AQA05 DCI to M.AQA16 DCI

systemair

Strength Points

By introducing the variable speed in our packaged heat pump range, we are in perfect adequacy with the user expectations while preserving the advantages which made the success of our previous models, that is to say : Quality of manufacture, performances, life span, low noise level and control system dedicated to the heating.

Use of DC inverter technology :

- In both compressor and outdoor fan motor to adapt the unit capacity to the building heat demand.

Energy savings :

- By avoiding compressor start-up and shutdown phases DC inverter enables unit to run continuously while modulating the compressor output in relation to the set temperature on part load.

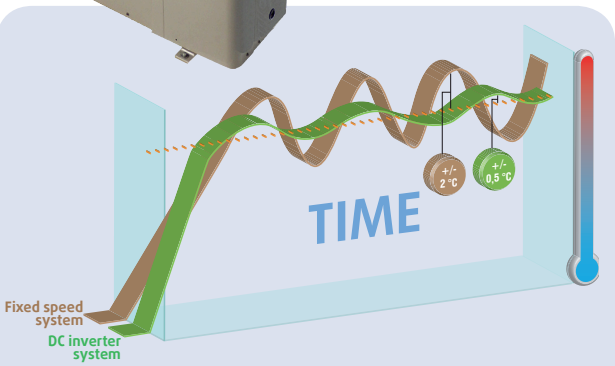
Silent running :

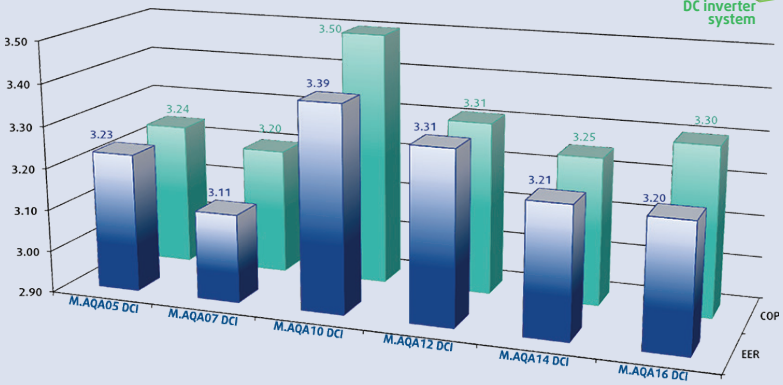
- Most of the time, unit is running at reduced speed.

Quick reach of set temperature :

- DC inverter starts with maximum speed to reach set temperature as quick as possible. Once the temperature setpoint is reached, the inverter will reduce and adapt speed according to the capacity needed only.
- Great accuracy in maintaining the desired water temperature setpoint. Unit optimized in heating mode fan coil applications.
- LWT up to +55 °C in heating mode, outdoor temperature down to -15 °C.

- Single-phase or 3-phase power voltage.
- Single circuit with DC inverter compressor.
- Blue fins coil as standard.
- Bi-flow electronic expansion valve as standard on whole range.
- Stainless steel plate heat exchanger with antifreeze protection.
- Variable speed fan controller as standard.
- Pump as standard.





- Fixed speed system, traditional technology : compressor runs at fixed speed, and cycles on and off to adjust to cooling/heating demand.
- Inverter system : set point is reached fast and the compressor continuously adjusts its capacity to match the exact cooling/heating demand.

DC INVERTER

Product codes

Models	M.AQA05 DCI	M.AQA07 DCI	M.AQA10 DCI	M.AQA12 DCI	M.AQA14 DCI	M.AQA16 DCI	Remote control Mini SysAqua DCI
Power supply	230 V/ 1 Ph/50 hz	230 V/ 1 Ph/50 hz	230 V/ 1 Ph/50 hz	400V/3 N ~/50 Hz	400V/3 N ~/50 Hz	400V/3 N ~/50 Hz	
Product codes	369106	369107	369108	369109	369110	369111	369112

Specifications

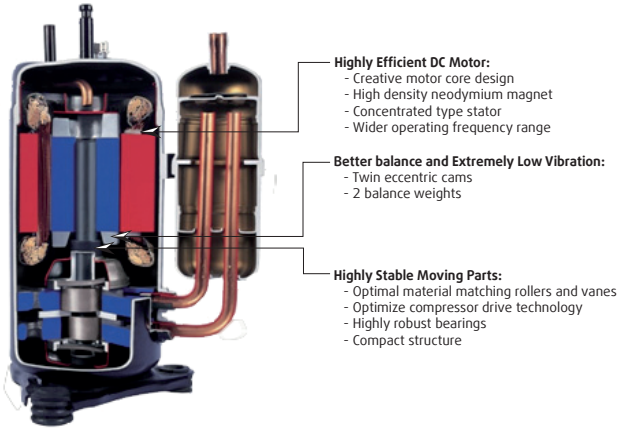
Unit components

Structure

Panels and base are made from galvanized steel plate painted with epoxy powder to ensure total resistance to atmospheric pollution, condensate collection pan as standard.

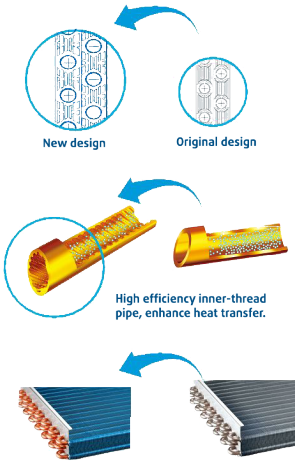
Compressor

Full DCI mini chiller adopts highly intelligent inverter-driven compressor. This advanced technology enables the output of the outdoor unit to be modulated by the real heat load demands.
This advanced system ensures precise temperature regulation and highly efficient energy usage, making a significant contribution to limiting the impact on the environment.



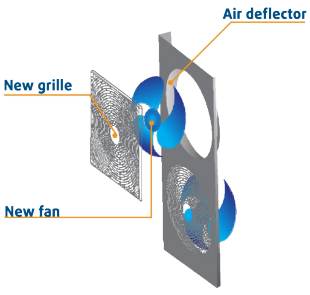
Finned coil

The coils are made from high performance and seamless copper tuber and high surface area aluminum fins to ensure optimum heat exchange capability. Condenser coil protection grill is standard
The new designed window fins enlarge the heat-exchanging area, which decrease the air resistance, save more power and enhance heat exchange performance.
Hydrophilic film fins and inner-threaded copper pipes optimize heat
exchange efficiency.



Fan motor

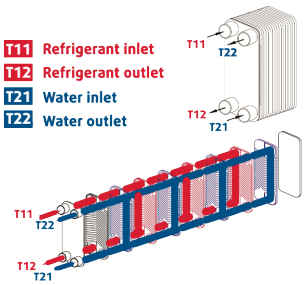
To achieve high efficiency heat exchange, the unit is equipment with the high performance axial-flow fans. The fan is driven directly by weather proof motor to ensure reliable operation, the fan motor is six-pole electric motor with built-in thermal cut-out.
Optimally design fan shape and new designed discharge air grille and air deflector, making higher air volume and reduces running noise.



Brazed plate heat exchanger

The heat exchanger is made of AISI 316 stainless steel to ensure high heat exchange efficiency, complete with electric heater and differential pressure switch. The complete heat exchanger is insulated with thermal insulation closed cell rubber foam to give optimum thermal insulation.

By adopting high efficiency plate heat exchanger, the energy consumption can be reduced.



- Metallic protective cabinet with rustproof polyester paint;
- Built-in with voltage protection, current protection, anti-freezing protection, water flow protection and etc., effectively guarantee the system to work safely

Hydraulic module

It is fully integrated and equipped with key hydraulic components such as expansion tank, plate type of heat-exchanger, water circulating pump.

Power and control electrical panel

Power and control electrical panel constructed in accordance with IEC 204-1/EN60335-2-40, complete with compressor contactor, control via control panel.

Control features

Flexible and convenient control

Built-in electronic controller at factory.
Compact devices with advanced function and friendly user interface.

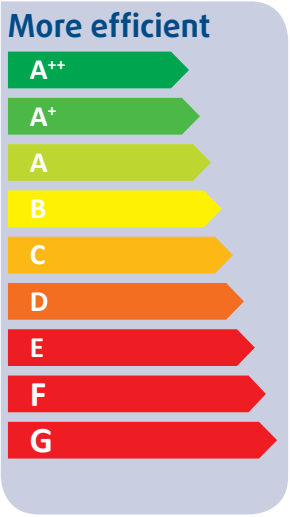
The electronic controller doesn't manage the water temperature regulation with a water law, so Mini SysAqua isn't compatible with residential applications.

The chiller can be controlled by wired controller also which is optional chosen.

When connecting wired controller, outdoor unit control panel is mainly used for display which can check parameters and inquiry, and can't be used to set mode and temperature.

Energy performance

Energy class



Mini SysAqua DCI		M.AQA05 DCI	M.AQA07 DCI	M.AQA10 DCI
Pdesignh	kW	6.0	8.0	11.0
SCOP		3.55	3.46	3.34
Class		A+	A+	A+

Mini SysAqua DCI		M.AQA12 DCI	M.AQA14 DCI	M.AQA16 DCI
Pdesignh	kW	12.0	14.0	16.0
SCOP		3.66	3.78	3.39
Class		A+	A+	A+

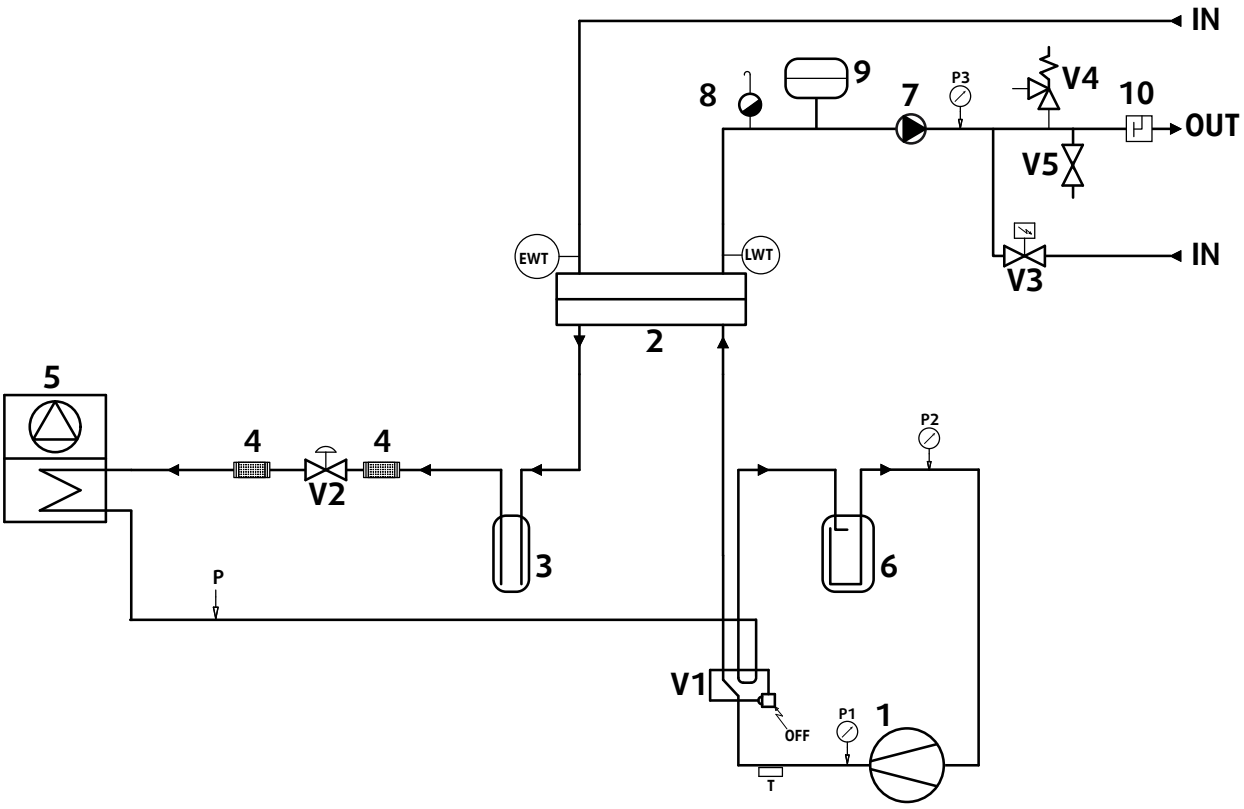
Seasonal space heating energy efficiency class according to the Delegated Regulation No. 811/2013 of the European Commission.

Product Codes

Product codes	Description
369106	M.AQA05 DCI MONO
369107	M.AQA07 DCI MONO
369108	M.AQA10 DCI MONO
369109	M.AQA12 DCI TRI
369110	M.AQA14 DCI TRI
369111	M.AQA16 DCI TRI

Refrigerant flow diagrams

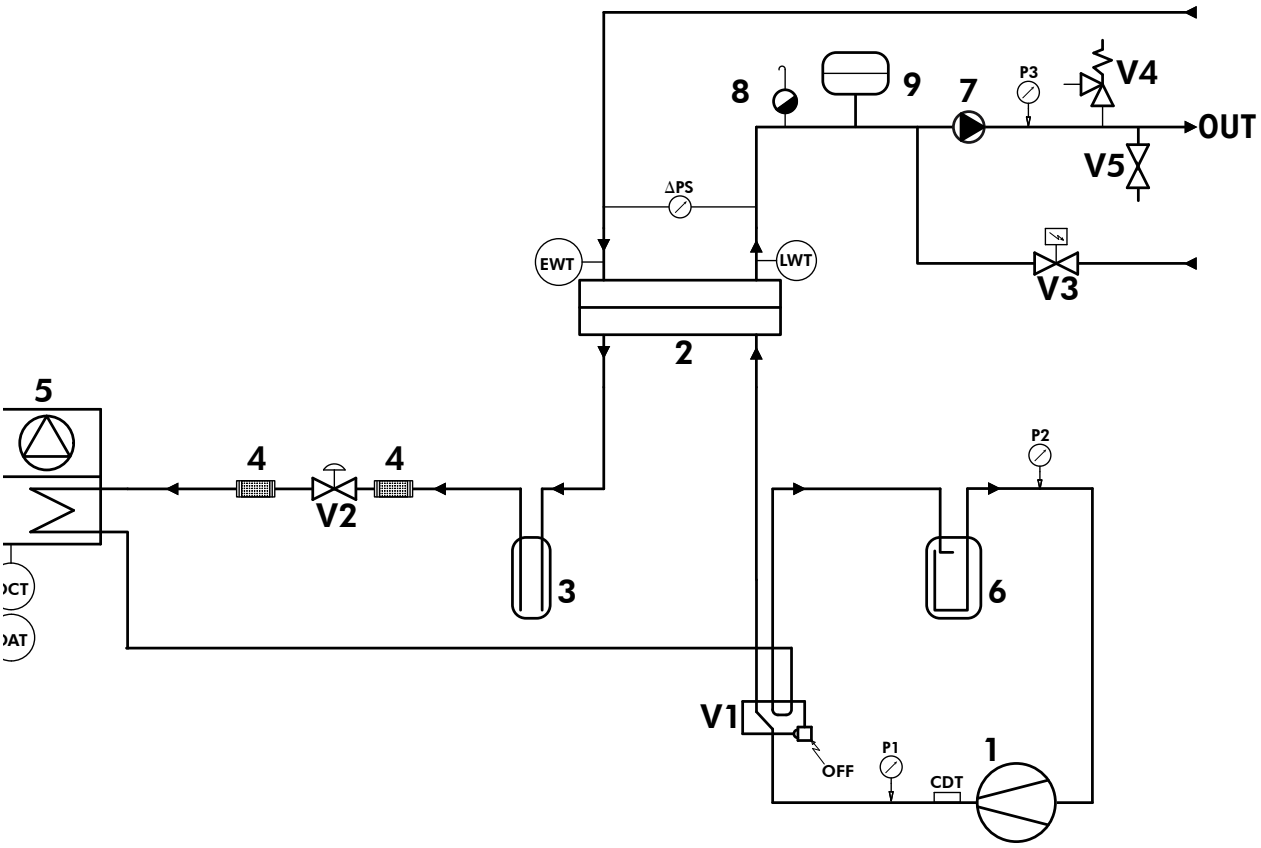
M.AQA05 DCI and M.AQA07 DCI



REFRIGERANT CIRCUIT		HYDRAULIC CIRCUIT		PROBES	
1	Compressor	7	Pump	P1	High pressure switch
2	Plate heat exchange	8	Air vent	P2	Low pressure switch
3	Liquid tank	9	Expansion tank	P3	Pressure gauge
4	Filter drier	V3	Auto-water replenishing	P	Pressure tap
5	Coil + Fan	V4	Safety valve	EWT	Inlet water temperature sensor
6	Suction line accumulator	V5	Drain valve	LWT	Outlet water temperature sensor
V1	4-way valve			10	Water flow switch
V2	EEV (Electronic Expansion Valve)			T	Temperature sensor

Refrigerant flow diagrams

M.AQA10 DCI, M.AQA12 DCI, M.AQA14 DCI and M.AQA16 DCI



REFRIGERANT CIRCUIT		HYDRAULIC CIRCUIT		PROBES	
1	Compressor	7	Pump	P1	High pressure switch
2	Plate heat exchange	8	Air vent	P2	Low pressure switch
3	Liquid tank	9	Expansion tank	P3	Pressure gauge
4	Filter drier	V3	Auto-water replenishing	CDT	Outlet temperature probe
5	Coil + Fan	V4	Safety valve	OCT	Evaporating temperature (coil)
6	Suction line accumulator	V5	Drain valve	OAT	Outdoor ambient temperature
V1	4-way valve			EWT	Inlet water temperature sensor
V2	EEV (Electronic Expansion Valve)			LWT	Outlet water temperature sensor
				ΔPS	Differential pressure switch

Technical data

Single phase units

Model			M.AQA05 DCI	M.AQA07 DCI	M.AQA10 DCI
Power supply		V-Ph-Hz	230/ 1 / 50	230/ 1 / 50	230/ 1 / 50
Cooling*(1)	Capacity	kW	5.0	7.0	10.0(2.9~10.5)
	Input	kW	1.55	2.25	2.95
	EER		3.23	3.11	3.39
Cooling*(2)	Capacity	kW	6.57	7.88	10.9
	Input	kW	1.27	1.84	2.49
	EER		5.16	4.28	4.39
Heating*(3)	Capacity	kW	5.5	8.0	11.0(3.2~12.0)
	Input	kW	1.7	2.5	3.14
Heating*(4)	Capacity	kW	6.32	8.29	10.96
	Input	kW	1.52	2.13	2.51
Max. input consumption		kW	2.8	3.0	4.8
Max. input current		A	14.6	15.6	25
Compressor	Type		Rotary	Rotary	Rotary
	Capacity	kW	5.46	5.46	13.1
	Input	kW	1.64	1.64	3.42
	Rated load current	A	8.1	8.1	6.85
	Locked rotor Amp	A	29.5	29.5	52
	Thermal protector		Inner	Inner	Inner
Outdoor fan motor	Type		DC Motor	DC Motor	DC Motor
	Input	W	170	170	100
	Speed	r/min	820	820	800
Outdoor coil	Number of rows		2	2	2
	Coil length ×height	mm	885×880	885×880	1276×870
	Number of circuits		6	6	7
Water pump	Input (H/M/L)	W	93/67/46	93/67/46	210/175/120
	Pumping head	m	5.5	5.5	8
Outdoor air flow		m^3/h	5100	5100	7000
Throttle			EXV+capillary	EXV+capillary	EXV
Outdoor noise level (sound pressure)*(5)		dB(A)	58	58	59
Water flow		L/h	860	1200	1720
The plate heat-exchanger water pressure drop		kPa	15	15	18
The Max. and Min. water inlet pressure		kPa	500/150	500/150	500/150
Outdoor unit	Net dimension (W×H×D)	mm	990×966×354	990×966×354	970×1327×400
	Packing dimension (W×H×D)	mm	1120×1100×435	1120×1100×435	1082×1456×435
	Net/ Gross weight	kg	81/91	81/91	110/121
Refrigerant	Type		R410A	R410A	R410A
	Charged volume	kg	2.5	2.5	2.8
Connection wiring	Power wire	mm^2	3×2.5	3×2.5	3×4.0
	Signal wire	mm^2	3×0.75	3×0.75	3×0.75
Pipe diameter	Water inlet/outlet	inch	1″	1″	1-1/4″
Control			Wired controller	Wired controller	Wired controller
Ambient temperature			Cooling: -5°C~46°C; Heating: -15-27°C (Antifreeze must be added below 5°C)		
Water outlet temperature range			Cooling: 4~20°C; Heating: 30~55°C		

Note: Specifications are based on the following conditions:

***(1)** chilled water inlet/outlet temperature: 12/7°C,outdoor ambient temperature 35°C DB.
***(2)** chilled water inlet/outlet temperature: 23/18°C,outdoor ambient temperature 35°C DB.
***(3)** warm water inlet/outlet temperature: 40/45°C,outdoor ambient temperature 7°C DB/6°C WB .
***(4)** warm water inlet/outlet temperature: 30/35°C,outdoor ambient temperature 7°C DB/6°C WB .
***(5)** It is tested 1m away in front of the unit in a semi-anechoic room(sound pressure).

The above data may be changed without notice for future improvement on quality and performance.

Technical data

Three phase units

Model			M.AQA12 DCI	M.AQA14 DCI	M.AQA16 DCI
Power supply		V-Ph-Hz	400 / 3 / 50	400 / 3 / 50	400 / 3 / 50
Cooling*(1)	Capacity	kW	11.2(3.1~12.0)	12.5(3.3~14.0)	14.5(3.5~15.5)
	Input	kW	3.38	3.9	4.53
	EER		3.31	3.2	3.2
Cooling*(2)	Capacity	kW	14.50	15.17	16.70
	Input	kW	2.80	3.13	3.73
	EER		5.17	4.84	4.48
Heating*(3)	Capacity	kW	12.3(3.3~13.2)	13.8(3.5~15.4)	16.0(3.7~17.0)
	Input	kW	3.72	4.25	4.85
Heating*(4)	Capacity	kW	13.75	15.30	16.97
	Input	kW	2.85	3.15	3.86
Max. input consumption		kW	5.2	5.6	5.9
Max. input current		A	8.9	9.6	10.1
Compressor	Type		Rotary	Rotary	Rotary
	Capacity	kW	13.0	13.0	13.0
	Input	kW	3.45	3.45	3.45
	Rated load current	A	6.9	6.9	6.9
	Locked rotor Amp	A	44	44	44
	Thermal protector		Inner	Inner	Inner
Outdoor fan motor	Type		DC Motor	DC Motor	DC Motor
	Input	W	100	100	100
	Speed	r/min	800	800	800
Outdoor coil	Number of rows		2	2	2
	Coil length ×height	mm	1276×870	1276×870	1276×870
	Number of circuits		7	7	7
Water pump	Input (H/M/L)	W	210/175/120	210/175/120	210/175/120
	Pumping head	m	8	8	8
Outdoor air flow		m^3/h	7000	7000	7000
Throttle			EXV	EXV	EXV
Outdoor noise level (sound pressure)*(5)		dB(A)	59	60	60
Water flow		L/h	1920	2150	2490
The plate heat-exchanger water pressure drop		kPa	18	18	19
The Max. and Min. water inlet pressure		kPa	500/150	500/150	500/150
Outdoor unit	Net dimension (W×H×D)	mm	970×1327×400	970×1327×400	970×1327×400
	Packing dimension (W×H×D)	mm	1082×1456×435	1082×1456×435	1082×1456×435
	Net/ Gross weight	kg	110/121	111/122	111/122
Refrigerant	Type		R410A	R410A	R410A
	Charged volume	kg	2.8	2.9	3.2
Connection wiring	Power wire	mm^2	5×3.0	5×3.0	5×3.0
	Signal wire	mm^2	3×0.75	3×0.75	3×0.75
Pipe diameter	Water inlet/outlet	inch	1-1/4"	1-1/4"	1-1/4"
Control			Wired controller	Wired controller	Wired controller
Ambient temperature			Cooling: -5°C~46°C; Heating: -15-27°C (Antifreeze must be added below 5°C)		
Water outlet temperature range			Cooling: 4~20°C; Heating: 30~55°C		

Note: Specifications are based on the following conditions:

***(1)** chilled water inlet/outlet temperature: 12/7°C,outdoor ambient temperature 35°C DB.
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***(4)** warm water inlet/outlet temperature: 30/35°C,outdoor ambient temperature 7°C DB/6°C WB .
***(5)** It is tested 1m away in front of the unit in a semi-anechoic room(sound pressure).

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Electrical Data

Single-phase units

Units			M.AQA05 DCI	M.AQA07 DCI	M.AQA10 DCI
Power Supply	Rated voltage	V/ph/Hz	230/1/50		
	Min. Current Amps	A	10.1	10.1	15.1
	Total Over-current Amps	A	14.6	15.6	25
	Max. Fuse Amps	A	20	20	30
Compressor	Max. Starting Amps	A	29.5	29.5	52
	Rated Current Amps	A	8.1	8.1	12.1
Outdoor Fan Motor	Full Load Amps	A	2.65	1.65	1.8
	Rated Motor Output	kW	0.195	0.195	0.20

3-phase units

Units			M.AQA12 DCI	M.AQA14 DCI	M.AQA16 DCI
Power Supply	Rated voltage	V/ph/Hz	400/3/50		
	Min. Current Amps	A	8.6	8.6	8.6
	Total Over-current Amps	A	8.9	9.6	10.1
	Max. Fuse Amps	A	15	15	15
Compressor	Max. Starting Amps	A	44	44	44
	Rated Current Amps	A	6.9	6.9	6.9
Outdoor Fan Motor	Full Load Amps	A	1.80	1.80	1.80
	Rated Motor Output	kW	0.20	0.20	0.20

Acoustical Data

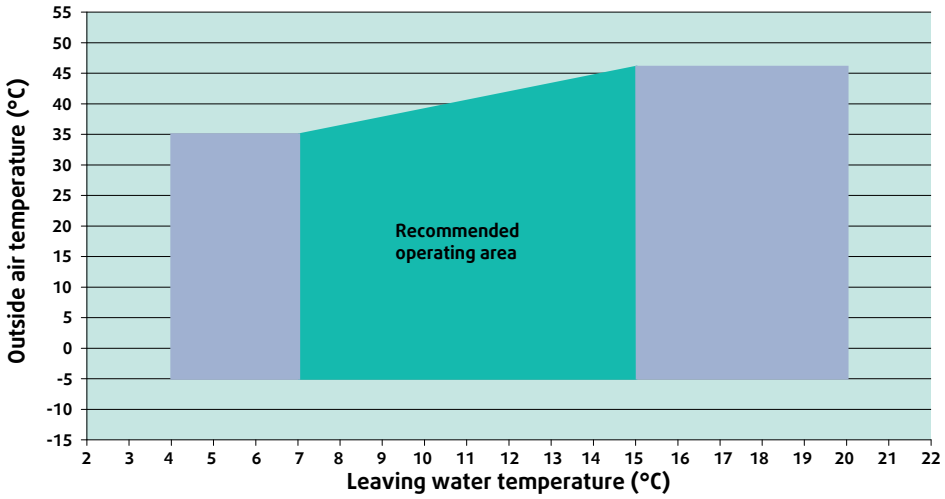
Model	Noise level (dB(A))
M.AQA05 DCI	58
M.AQA07 DCI	58
M.AQA10 DCI	59
M.AQA12 DCI	59
M.AQA14 DCI	60
M.AQA16 DCI	60

Note:

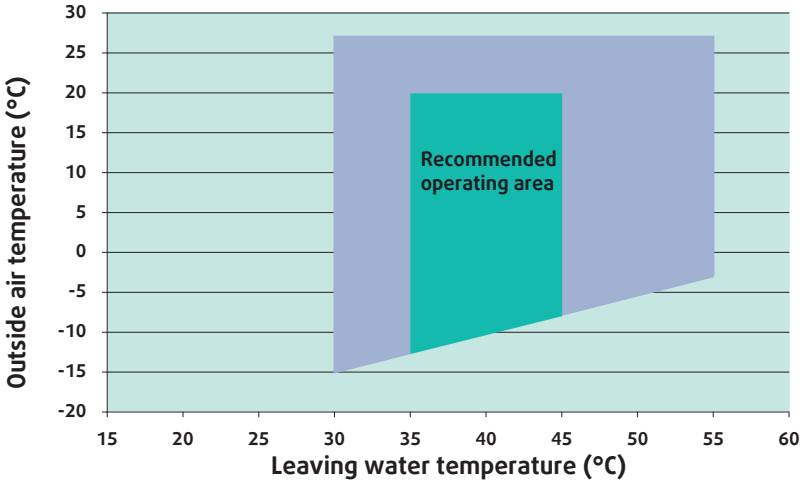
- High/low air flow of outdoor fan motor.
- It is tested 1 meter away from the machine in a semi-anechoic room (sound pressure).

Operating limits

Cooling mode



Heating mode



Correction Factors

Fouling factors - Evaporator

Fouling factor (m².°C/kW)	Capacity	Power input
0.044	1.000	1.000
0.086	0.96	0.99
0.172	0.93	0.98

Correction factors - Ethylene glycol

% glycol	Freezing point (°C)	Capacity	Water flow	Pressure drop
0	0	1.00	1.00	1.00
12	-5	0.98	1.02	1.07
20	-10	0.97	1.04	1.11
28	-15	0.965	1.075	1.18
35	-20	0.96	1.11	1.22
40	-25	0.955	1.14	1.24

Warning !
Ethylene glycol is toxic to the environment. Moreover, it is not suitable for heating with domestic hot water production by simple exchange.

Performance Data

M.AQA05 DCI

Cooling mode

Chilled water outlet temp.			°C	5	6	7	8	9	10	11	12	13	14	15	16	17
Ambient temp.(°C)	21	Capacity	kW	5.6	5.79	5.99	6.17	6.35	6.59	6.77	6.93	7.05	7.23	7.32	7.5	7.6
		Power	kW	1.37	1.39	1.41	1.46	1.47	1.49	1.51	1.53	1.54	1.55	1.56	1.58	1.58
		EER		4.1	4.17	4.23	4.24	4.31	4.41	4.49	4.53	4.57	4.65	4.69	4.76	4.8
	25	Capacity	kW	5.27	5.44	5.63	5.8	5.95	6.17	6.34	6.48	6.59	6.75	6.83	6.99	7.07
		Power	kW	1.41	1.43	1.46	1.5	1.52	1.54	1.55	1.58	1.59	1.6	1.61	1.63	1.63
		EER		3.75	3.81	3.86	3.86	3.93	4.01	4.08	4.11	4.14	4.21	4.24	4.3	4.33
	30	Capacity	kW	4.97	5.13	5.3	5.45	5.6	5.8	5.95	6.07	6.17	6.31	6.38	6.53	6.6
		Power	kW	1.45	1.47	1.5	1.55	1.56	1.59	1.6	1.63	1.64	1.65	1.66	1.68	1.68
		EER		3.43	3.48	3.53	3.52	3.58	3.65	3.71	3.73	3.76	3.82	3.85	3.9	3.92
	35	Capacity	kW	4.7	4.85	5	5.14	5.27	5.45	5.59	5.7	5.79	5.92	5.97	6.11	6.17
		Power	kW	1.5	1.52	1.55	1.6	1.61	1.64	1.65	1.68	1.69	1.7	1.71	1.73	1.74
		EER		3.14	3.19	3.23	3.22	3.27	3.33	3.38	3.4	3.43	3.48	3.49	3.54	3.55
	40	Capacity	kW	4.4	4.54	4.7	4.83	4.96	5.14	5.27	5.38	5.47	5.6	5.66	5.79	5.85
		Power	kW	1.57	1.59	1.63	1.68	1.69	1.72	1.73	1.76	1.77	1.79	1.8	1.81	1.82
		EER		2.8	2.85	2.88	2.88	2.93	2.99	3.04	3.06	3.08	3.13	3.15	3.19	3.21
	46	Capacity	kW	4.05	4.19	4.33	4.46	4.58	4.75	4.88	4.99	5.08	5.2	5.26	5.39	5.45
		Power	kW	1.65	1.67	1.71	1.76	1.78	1.8	1.82	1.85	1.86	1.88	1.89	1.9	1.91
		EER		2.46	2.5	2.53	2.53	2.58	2.63	2.68	2.7	2.72	2.77	2.79	2.83	2.85

Note: The inlet/outlet water temperature difference is 5°C.

Heating mode

Hot water outlet temp.			°C	40	41	42	43	44	45	46	47	48	49	50
Ambient temp.(°C)	-10	Capacity	kW	3.41	3.3	3.21	3.13	3.07	3.03	2.97	2.88	2.77	2.61	2.45
		Power	kW	1.06	1.09	1.11	1.13	1.15	1.18	1.19	1.21	1.25	1.3	1.36
		COP		3.21	3.04	2.9	2.77	2.66	2.57	2.5	2.37	2.21	2.01	1.79
	-6	Capacity	kW	4.26	4.13	4.02	3.93	3.86	3.81	3.74	3.63	3.49	3.31	3.1
		Power	kW	1.21	1.23	1.26	1.28	1.31	1.34	1.35	1.38	1.42	1.48	1.55
		COP		3.53	3.35	3.19	3.06	2.94	2.85	2.77	2.64	2.46	2.24	2
	-2	Capacity	kW	5.02	4.87	4.74	4.64	4.56	4.5	4.43	4.31	4.15	3.93	3.69
		Power	kW	1.34	1.37	1.4	1.43	1.46	1.49	1.5	1.53	1.58	1.64	1.72
		COP		3.74	3.55	3.39	3.25	3.13	3.03	2.95	2.81	2.63	2.4	2.14
	2	Capacity	kW	5.58	5.42	5.28	5.17	5.09	5.03	4.95	4.82	4.65	4.41	4.14
		Power	kW	1.46	1.49	1.52	1.55	1.58	1.62	1.63	1.66	1.71	1.78	1.87
		COP		3.82	3.64	3.47	3.33	3.21	3.12	3.04	2.9	2.71	2.48	2.21
	7	Capacity	kW	6.06	5.89	5.75	5.64	5.56	5.5	5.42	5.28	5.1	4.84	4.55
		Power	kW	1.54	1.57	1.6	1.63	1.67	1.7	1.72	1.75	1.8	1.88	1.97
		COP		3.94	3.76	3.59	3.45	3.33	3.24	3.16	3.02	2.83	2.58	2.31
	10	Capacity	kW	6.79	6.59	6.42	6.28	6.18	6.11	6	5.84	5.63	5.34	5.01
		Power	kW	1.63	1.66	1.7	1.73	1.77	1.8	1.82	1.86	1.91	1.99	2.09
		COP		4.17	3.97	3.78	3.63	3.5	3.39	3.3	3.15	2.94	2.68	2.4
	13	Capacity	kW	7.81	7.57	7.36	7.19	7.05	6.96	6.83	6.64	6.38	6.04	5.66
		Power	kW	1.76	1.8	1.83	1.87	1.91	1.95	1.97	2	2.07	2.15	2.26
		COP		4.44	4.21	4.02	3.84	3.7	3.58	3.48	3.31	3.09	2.81	2.51

Note: The inlet/outlet water temperature difference is 5°C.

Performance Data

M.AQA07 DCI

Cooling mode

Chilled water outlet temp.			°C	5	6	7	8	9	10	11	12	13	14	15	16	17
Ambient temp.(°C)	21	Capacity	kW	7.84	8.1	8.38	8.64	8.89	9.22	9.48	9.7	9.87	10.12	10.25	10.5	10.64
		Power	kW	1.98	2.01	2.05	2.12	2.14	2.17	2.19	2.22	2.24	2.25	2.27	2.29	2.3
		EER		3.95	4.03	4.08	4.09	4.16	4.26	4.33	4.37	4.41	4.49	4.52	4.59	4.63
	25	Capacity	kW	7.38	7.62	7.88	8.12	8.34	8.64	8.88	9.07	9.23	9.45	9.56	9.79	9.9
		Power	kW	2.04	2.07	2.12	2.18	2.2	2.23	2.26	2.29	2.31	2.32	2.34	2.36	2.37
		EER		3.61	3.67	3.72	3.72	3.79	3.87	3.93	3.96	4	4.06	4.09	4.15	4.18
	30	Capacity	kW	6.96	7.18	7.42	7.63	7.84	8.12	8.33	8.5	8.64	8.84	8.93	9.14	9.24
		Power	kW	2.11	2.14	2.18	2.25	2.27	2.3	2.33	2.36	2.38	2.4	2.41	2.43	2.44
		EER		3.31	3.36	3.4	3.4	3.45	3.52	3.58	3.6	3.63	3.69	3.71	3.76	3.78
	35	Capacity	kW	6.58	6.78	7	7.2	7.38	7.64	7.83	7.98	8.1	8.28	8.36	8.55	8.63
		Power	kW	2.17	2.21	2.25	2.32	2.34	2.38	2.4	2.43	2.45	2.47	2.48	2.51	2.52
		EER		3.03	3.08	3.11	3.11	3.15	3.22	3.26	3.28	3.3	3.35	3.37	3.41	3.43
	40	Capacity	kW	6.17	6.36	6.57	6.76	6.94	7.19	7.38	7.54	7.66	7.83	7.92	8.1	8.19
		Power	kW	2.28	2.32	2.36	2.43	2.46	2.49	2.52	2.56	2.58	2.59	2.61	2.63	2.65
		EER		2.7	2.75	2.78	2.78	2.83	2.88	2.93	2.95	2.97	3.02	3.04	3.08	3.1
	46	Capacity	kW	5.67	5.86	6.06	6.24	6.42	6.65	6.83	6.99	7.11	7.28	7.37	7.54	7.64
		Power	kW	2.39	2.43	2.48	2.56	2.58	2.62	2.64	2.68	2.7	2.72	2.74	2.76	2.78
		EER		2.37	2.41	2.44	2.44	2.49	2.54	2.58	2.6	2.63	2.67	2.69	2.73	2.75

Note: The inlet/outlet water temperature difference is 5°C.

Heating mode

Hot water outlet temp.			°C	40	41	42	43	44	45	46	47	48	49	50
Ambient temp.(°C)	-10	Capacity	kW	4.96	4.81	4.67	4.55	4.47	4.4	4.31	4.19	4.02	3.8	3.56
		Power	kW	1.56	1.6	1.63	1.66	1.7	1.73	1.75	1.78	1.84	1.91	2.01
		COP		3.17	3.01	2.87	2.74	2.63	2.54	2.47	2.35	2.19	1.99	1.77
	-6	Capacity	kW	6.2	6.01	5.85	5.71	5.61	5.54	5.43	5.28	5.08	4.81	4.5
		Power	kW	1.78	1.81	1.85	1.89	1.93	1.97	1.99	2.03	2.09	2.17	2.28
		COP		3.49	3.32	3.16	3.03	2.91	2.82	2.74	2.61	2.43	2.22	1.98
	-2	Capacity	kW	7.3	7.08	6.9	6.75	6.63	6.55	6.44	6.26	6.03	5.72	5.36
		Power	kW	1.98	2.02	2.06	2.1	2.14	2.19	2.21	2.25	2.32	2.41	2.53
		COP		3.7	3.51	3.35	3.21	3.1	3	2.92	2.78	2.6	2.37	2.12
	2	Capacity	kW	8.11	7.88	7.68	7.52	7.4	7.32	7.2	7.01	6.76	6.42	6.02
		Power	kW	2.15	2.19	2.24	2.28	2.33	2.38	2.4	2.45	2.52	2.62	2.75
		COP		3.78	3.6	3.44	3.3	3.18	3.08	3	2.87	2.68	2.45	2.19
	7	Capacity	kW	8.81	8.57	8.37	8.2	8.08	8	7.88	7.68	7.41	7.04	6.62
		Power	kW	2.26	2.31	2.35	2.4	2.45	2.5	2.53	2.58	2.65	2.76	2.9
		COP		3.9	3.72	3.56	3.42	3.3	3.2	3.12	2.98	2.79	2.55	2.29
	10	Capacity	kW	9.87	9.59	9.34	9.14	8.98	8.88	8.73	8.5	8.19	7.76	7.28
		Power	kW	2.4	2.44	2.49	2.55	2.6	2.65	2.68	2.73	2.81	2.92	3.07
		COP		4.12	3.92	3.74	3.59	3.46	3.35	3.26	3.11	2.91	2.65	2.37
	13	Capacity	kW	11.35	11	10.7	10.45	10.26	10.12	9.94	9.65	9.28	8.79	8.23
		Power	kW	2.59	2.64	2.69	2.75	2.8	2.86	2.89	2.95	3.04	3.16	3.32
		COP		4.39	4.17	3.97	3.8	3.66	3.54	3.44	3.27	3.06	2.78	2.48

Note: The inlet/outlet water temperature difference is 5°C.

Performance Data

M.AQA10 DCI

Cooling mode

Chilled water outlet temp.			°C	5	6	7	8	9	10	11	12	13	14	15	16	17
Ambient temp.(°C)	21	Capacity	kW	11.2	11.57	11.98	12.35	12.7	13.18	13.54	13.85	14.1	14.45	14.64	15	15.19
		Power	kW	2.6	2.64	2.69	2.77	2.8	2.84	2.87	2.91	2.94	2.96	2.97	3	3.01
		EER		4.31	4.39	4.45	4.45	4.53	4.64	4.72	4.76	4.8	4.89	4.93	5	5.04
	25	Capacity	kW	10.54	10.89	11.26	11.59	11.91	12.35	12.68	12.96	13.18	13.49	13.66	13.98	14.15
		Power	kW	2.68	2.72	2.78	2.86	2.89	2.93	2.96	3	3.03	3.05	3.06	3.09	3.11
		EER		3.94	4	4.06	4.06	4.13	4.22	4.29	4.32	4.36	4.43	4.46	4.52	4.55
	30	Capacity	kW	9.95	10.26	10.6	10.91	11.19	11.6	11.9	12.15	12.34	12.62	12.76	13.05	13.2
		Power	kW	2.76	2.8	2.86	2.95	2.98	3.02	3.05	3.09	3.12	3.14	3.16	3.19	3.2
		EER		3.6	3.66	3.7	3.7	3.76	3.84	3.9	3.92	3.96	4.02	4.04	4.09	4.12
	35	Capacity	kW	9.4	9.69	10	10.28	10.54	10.91	11.18	11.41	11.58	11.83	11.95	12.21	12.33
		Power	kW	2.85	2.89	2.95	3.04	3.07	3.11	3.14	3.19	3.22	3.24	3.25	3.29	3.3
		EER		3.3	3.35	3.39	3.38	3.44	3.5	3.56	3.57	3.6	3.65	3.67	3.72	3.73
	40	Capacity	kW	8.81	9.09	9.39	9.66	9.92	10.28	10.54	10.77	10.94	11.19	11.32	11.58	11.71
		Power	kW	2.99	3.04	3.1	3.19	3.22	3.27	3.3	3.35	3.38	3.4	3.42	3.45	3.47
		EER		2.95	2.99	3.03	3.03	3.08	3.14	3.19	3.21	3.24	3.29	3.31	3.35	3.37
	46	Capacity	kW	8.1	8.37	8.66	8.92	9.16	9.51	9.76	9.98	10.15	10.4	10.52	10.78	10.91
		Power	kW	3.14	3.19	3.25	3.35	3.38	3.43	3.47	3.52	3.55	3.57	3.59	3.62	3.64
		EER		2.58	2.63	2.66	2.66	2.71	2.77	2.82	2.84	2.86	2.91	2.93	2.97	3

Note: The inlet/outlet water temperature difference is 5°C.

Heating mode

Hot water outlet temp.			°C	40	41	42	43	44	45	46	47	48	49	50
Ambient temp.(°C)	-10	Capacity	kW	6.82	6.61	6.42	6.26	6.14	6.05	5.93	5.76	5.53	5.23	4.89
		Power	kW	1.96	2	2.05	2.09	2.13	2.17	2.2	2.24	2.31	2.4	2.52
		COP		3.47	3.3	3.14	3	2.88	2.78	2.7	2.57	2.4	2.18	1.94
	-6	Capacity	kW	8.53	8.27	8.04	7.86	7.71	7.61	7.47	7.26	6.98	6.61	6.19
		Power	kW	2.23	2.28	2.32	2.37	2.42	2.47	2.49	2.54	2.62	2.73	2.86
		COP		3.82	3.63	3.46	3.31	3.19	3.08	3	2.85	2.66	2.43	2.16
	-2	Capacity	kW	10.04	9.74	9.48	9.28	9.12	9.01	8.85	8.61	8.29	7.86	7.37
		Power	kW	2.48	2.53	2.58	2.64	2.69	2.74	2.77	2.83	2.91	3.03	3.18
		COP		4.05	3.85	3.67	3.52	3.39	3.28	3.19	3.05	2.85	2.6	2.32
	2	Capacity	kW	11.15	10.83	10.56	10.34	10.18	10.07	9.9	9.65	9.3	8.82	8.28
		Power	kW	2.7	2.75	2.81	2.86	2.92	2.98	3.01	3.07	3.17	3.29	3.46
		COP		4.14	3.94	3.76	3.61	3.48	3.37	3.29	3.14	2.94	2.68	2.4
	7	Capacity	kW	12.12	11.79	11.5	11.28	11.11	11	10.84	10.56	10.19	9.68	9.1
		Power	kW	2.84	2.9	2.96	3.02	3.08	3.14	3.17	3.23	3.33	3.47	3.64
		COP		4.27	4.07	3.89	3.74	3.61	3.5	3.42	3.27	3.06	2.79	2.5
	10	Capacity	kW	13.57	13.18	12.84	12.56	12.35	12.21	12.01	11.68	11.25	10.67	10.01
		Power	kW	3.01	3.07	3.13	3.2	3.26	3.33	3.36	3.43	3.53	3.67	3.86
		COP		4.51	4.29	4.1	3.93	3.79	3.67	3.57	3.41	3.19	2.91	2.6
	13	Capacity	kW	15.61	15.13	14.71	14.37	14.11	13.92	13.66	13.27	12.76	12.08	11.32
		Power	kW	3.25	3.32	3.38	3.45	3.52	3.59	3.63	3.7	3.81	3.97	4.17
		COP		4.8	4.56	4.35	4.16	4	3.87	3.76	3.58	3.35	3.05	2.72

Note: The inlet/outlet water temperature difference is 5°C.

Performance Data

M.AQA12 DCI

Cooling mode

Chilled water outlet temp.			°C	5	6	7	8	9	10	11	12	13	14	15	16	17
Ambient temp.(°C)	21	Capacity	kW	12.54	12.96	13.41	13.83	14.22	14.76	15.17	15.52	15.79	16.19	16.39	16.8	17.02
		Power	kW	2.98	3.02	3.08	3.18	3.21	3.26	3.29	3.34	3.36	3.39	3.4	3.44	3.45
		EER		4.21	4.29	4.35	4.35	4.43	4.53	4.61	4.65	4.7	4.78	4.82	4.89	4.93
	25	Capacity	kW	11.81	12.19	12.61	12.99	13.34	13.83	14.2	14.52	14.76	15.11	15.29	15.66	15.85
		Power	kW	3.07	3.12	3.18	3.28	3.31	3.36	3.39	3.44	3.47	3.49	3.51	3.54	3.56
		EER		3.85	3.91	3.96	3.96	4.03	4.12	4.19	4.22	4.26	4.33	4.36	4.42	4.45
	30	Capacity	kW	11.14	11.49	11.87	12.22	12.54	12.99	13.32	13.6	13.82	14.14	14.29	14.62	14.78
		Power	kW	3.16	3.21	3.28	3.38	3.41	3.46	3.49	3.55	3.57	3.6	3.62	3.65	3.67
		EER		3.52	3.58	3.62	3.62	3.68	3.75	3.81	3.84	3.87	3.93	3.95	4	4.03
	35	Capacity	kW	10.53	10.85	11.2	11.51	11.8	12.22	12.52	12.77	12.97	13.25	13.38	13.68	13.81
		Power	kW	3.26	3.31	3.38	3.48	3.52	3.57	3.6	3.66	3.69	3.71	3.73	3.77	3.78
		EER		3.23	3.28	3.31	3.31	3.36	3.42	3.48	3.49	3.52	3.57	3.59	3.63	3.65
	40	Capacity	kW	9.86	10.18	10.52	10.82	11.11	11.51	11.81	12.06	12.25	12.54	12.67	12.97	13.11
		Power	kW	3.42	3.48	3.55	3.66	3.69	3.75	3.78	3.84	3.87	3.9	3.92	3.95	3.97
		EER		2.88	2.93	2.96	2.96	3.01	3.07	3.12	3.14	3.17	3.22	3.24	3.28	3.3
	46	Capacity	kW	9.08	9.38	9.7	9.99	10.26	10.65	10.94	11.18	11.37	11.65	11.79	12.07	12.22
		Power	kW	3.6	3.65	3.73	3.84	3.88	3.93	3.97	4.03	4.06	4.09	4.11	4.15	4.17
		EER		2.52	2.57	2.6	2.6	2.65	2.71	2.75	2.77	2.8	2.85	2.87	2.91	2.93

Note: The inlet/outlet water temperature difference is 5°C.

Heating mode

Hot water outlet temp.			°C	40	41	42	43	44	45	46	47	48	49	50
Ambient temp.(°C)	-10	Capacity	kW	7.63	7.39	7.17	7	6.87	6.77	6.63	6.44	6.18	5.85	5.47
		Power	kW	2.33	2.38	2.42	2.47	2.52	2.58	2.6	2.65	2.73	2.84	2.98
		COP		3.28	3.11	2.96	2.83	2.72	2.63	2.55	2.43	2.26	2.06	1.83
	-6	Capacity	kW	9.54	9.25	8.99	8.78	8.63	8.51	8.36	8.12	7.81	7.39	6.93
		Power	kW	2.65	2.7	2.75	2.81	2.87	2.93	2.96	3.01	3.1	3.23	3.39
		COP		3.61	3.43	3.26	3.13	3.01	2.91	2.83	2.69	2.51	2.29	2.04
	-2	Capacity	kW	11.22	10.89	10.6	10.37	10.2	10.07	9.9	9.63	9.27	8.79	8.24
		Power	kW	2.94	3	3.06	3.12	3.19	3.25	3.28	3.35	3.45	3.59	3.77
		COP		3.82	3.63	3.46	3.32	3.2	3.1	3.01	2.88	2.69	2.45	2.19
	2	Capacity	kW	12.47	12.12	11.81	11.56	11.38	11.25	11.07	10.78	10.4	9.87	9.26
		Power	kW	3.19	3.26	3.33	3.39	3.46	3.53	3.57	3.64	3.75	3.9	4.09
		COP		3.9	3.72	3.55	3.41	3.29	3.18	3.1	2.96	2.77	2.53	2.26
	7	Capacity	kW	13.55	13.18	12.86	12.61	12.42	12.3	12.12	11.81	11.4	10.83	10.18
		Power	kW	3.36	3.43	3.5	3.57	3.65	3.72	3.76	3.83	3.95	4.11	4.31
		COP		4.03	3.84	3.67	3.53	3.41	3.31	3.22	3.08	2.89	2.64	2.36
	10	Capacity	kW	15.18	14.74	14.35	14.05	13.81	13.65	13.42	13.06	12.58	11.93	11.2
		Power	kW	3.56	3.64	3.71	3.79	3.86	3.94	3.98	4.06	4.18	4.35	4.57
		COP		4.26	4.05	3.87	3.71	3.57	3.46	3.37	3.22	3.01	2.74	2.45
	13	Capacity	kW	17.46	16.92	16.45	16.07	15.78	15.56	15.28	14.84	14.27	13.51	12.65
		Power	kW	3.85	3.93	4.01	4.09	4.17	4.26	4.3	4.39	4.52	4.7	4.93
		COP		4.53	4.31	4.1	3.93	3.78	3.65	3.55	3.38	3.16	2.87	2.56

Note: The inlet/outlet water temperature difference is 5°C.

Performance Data

M.AQA14 DCI

Cooling mode

Chilled water outlet temp.			°C	5	6	7	8	9	10	11	12	13	14	15	16	17
Ambient temp.(°C)	21	Capacity	kW	13.99	14.47	14.97	15.43	15.87	16.47	16.93	17.32	17.63	18.07	18.3	18.75	18.99
		Power	kW	3.43	3.49	3.56	3.67	3.7	3.76	3.79	3.85	3.88	3.91	3.93	3.97	3.99
		EER		4.07	4.15	4.21	4.21	4.29	4.38	4.46	4.5	4.54	4.62	4.66	4.73	4.77
	25	Capacity	kW	13.18	13.61	14.07	14.49	14.89	15.44	15.85	16.2	16.47	16.87	17.07	17.48	17.68
		Power	kW	3.54	3.6	3.67	3.78	3.82	3.87	3.91	3.97	4	4.03	4.05	4.09	4.11
		EER		3.72	3.78	3.83	3.83	3.9	3.99	4.05	4.08	4.12	4.19	4.22	4.27	4.3
	30	Capacity	kW	12.43	12.83	13.25	13.63	13.99	14.5	14.87	15.18	15.43	15.78	15.95	16.32	16.5
		Power	kW	3.65	3.71	3.78	3.9	3.93	3.99	4.03	4.09	4.12	4.15	4.17	4.22	4.24
		EER		3.41	3.46	3.5	3.5	3.56	3.63	3.69	3.71	3.74	3.8	3.82	3.87	3.89
	35	Capacity	kW	11.75	12.11	12.5	12.85	13.18	13.64	13.98	14.26	14.47	14.79	14.94	15.27	15.42
		Power	kW	3.76	3.82	3.9	4.02	4.06	4.12	4.16	4.22	4.25	4.28	4.3	4.35	4.37
		EER		3.12	3.17	3.21	3.2	3.25	3.31	3.36	3.38	3.4	3.45	3.47	3.51	3.53
	40	Capacity	kW	11.01	11.36	11.74	12.08	12.4	12.85	13.18	13.46	13.67	13.99	14.15	14.47	14.63
		Power	kW	3.95	4.01	4.1	4.22	4.26	4.32	4.37	4.43	4.46	4.5	4.52	4.56	4.59
		EER		2.79	2.83	2.87	2.86	2.91	2.97	3.02	3.04	3.06	3.11	3.13	3.17	3.19
	46	Capacity	kW	10.13	10.46	10.82	11.15	11.46	11.88	12.2	12.48	12.69	13	13.15	13.47	13.64
		Power	kW	4.15	4.21	4.3	4.43	4.47	4.54	4.58	4.65	4.69	4.72	4.74	4.79	4.81
		EER		2.44	2.48	2.52	2.52	2.56	2.62	2.66	2.68	2.71	2.75	2.77	2.81	2.83

Note: The inlet/outlet water temperature difference is 5°C.

Heating mode

Hot water outlet temp.			°C	40	41	42	43	44	45	46	47	48	49	50
Ambient temp.(°C)	-10	Capacity	kW	8.56	8.29	8.05	7.86	7.7	7.59	7.44	7.22	6.94	6.56	6.14
		Power	kW	2.66	2.71	2.77	2.83	2.88	2.94	2.97	3.03	3.12	3.25	3.41
		COP		3.22	3.05	2.91	2.78	2.67	2.58	2.51	2.38	2.22	2.02	1.8
	-6	Capacity	kW	10.7	10.37	10.09	9.86	9.68	9.55	9.37	9.11	8.76	8.29	7.77
		Power	kW	3.02	3.08	3.15	3.21	3.28	3.34	3.38	3.44	3.55	3.69	3.87
		COP		3.54	3.36	3.21	3.07	2.95	2.86	2.78	2.64	2.47	2.25	2.01
	-2	Capacity	kW	12.59	12.22	11.9	11.64	11.44	11.3	11.11	10.81	10.4	9.86	9.25
		Power	kW	3.36	3.43	3.5	3.57	3.64	3.71	3.75	3.83	3.94	4.1	4.3
		COP		3.75	3.57	3.4	3.26	3.14	3.04	2.96	2.82	2.64	2.41	2.15
	2	Capacity	kW	13.99	13.59	13.25	12.97	12.77	12.63	12.42	12.1	11.66	11.07	10.39
		Power	kW	3.65	3.72	3.8	3.88	3.96	4.04	4.08	4.16	4.28	4.46	4.68
		COP		3.83	3.65	3.49	3.35	3.23	3.13	3.05	2.91	2.72	2.48	2.22
	7	Capacity	kW	15.2	14.79	14.43	14.15	13.94	13.8	13.59	13.25	12.79	12.15	11.42
		Power	kW	3.84	3.92	4	4.08	4.17	4.25	4.29	4.38	4.51	4.69	4.92
		COP		3.96	3.77	3.61	3.47	3.35	3.25	3.17	3.03	2.84	2.59	2.32
	10	Capacity	kW	17.03	16.54	16.1	15.76	15.5	15.32	15.06	14.66	14.12	13.39	12.56
		Power	kW	4.07	4.16	4.24	4.33	4.41	4.51	4.55	4.64	4.78	4.97	5.22
		COP		4.18	3.98	3.8	3.64	3.51	3.4	3.31	3.16	2.95	2.69	2.41
	13	Capacity	kW	19.58	18.98	18.46	18.03	17.7	17.46	17.14	16.65	16.01	15.16	14.2
		Power	kW	4.4	4.49	4.58	4.67	4.77	4.87	4.91	5.01	5.16	5.37	5.64
		COP		4.45	4.23	4.03	3.86	3.71	3.59	3.49	3.32	3.1	2.82	2.52

Note: The inlet/outlet water temperature difference is 5°C.

Performance Data

M.AQA16 DCI

Cooling mode

Chilled water outlet temp.			°C	5	6	7	8	9	10	11	12	13	14	15	16	17
Ambient temp.(°C)	21	Capacity	kW	16.23	16.78	17.37	17.9	18.41	19.11	19.64	20.09	20.45	20.96	21.23	21.75	22.03
		Power	kW	3.99	4.05	4.13	4.26	4.3	4.36	4.41	4.47	4.51	4.54	4.56	4.61	4.63
		EER		4.07	4.14	4.2	4.2	4.28	4.38	4.46	4.49	4.54	4.62	4.65	4.72	4.76
	25	Capacity	kW	15.29	15.79	16.32	16.81	17.27	17.91	18.39	18.79	19.11	19.57	19.8	20.27	20.51
		Power	kW	4.11	4.18	4.26	4.39	4.43	4.5	4.54	4.61	4.65	4.68	4.7	4.75	4.77
		EER		3.72	3.78	3.83	3.83	3.9	3.98	4.05	4.08	4.11	4.18	4.21	4.27	4.3
	30	Capacity	kW	14.42	14.88	15.37	15.82	16.23	16.81	17.25	17.61	17.89	18.3	18.5	18.93	19.14
		Power	kW	4.24	4.31	4.39	4.53	4.57	4.64	4.68	4.75	4.79	4.82	4.85	4.9	4.92
		EER		3.4	3.46	3.5	3.49	3.55	3.63	3.68	3.71	3.74	3.79	3.82	3.87	3.89
	35	Capacity	kW	13.63	14.05	14.5	14.91	15.28	15.82	16.21	16.54	16.79	17.15	17.33	17.71	17.88
		Power	kW	4.37	4.44	4.53	4.67	4.71	4.78	4.83	4.9	4.94	4.97	5	5.05	5.07
		EER		3.12	3.16	3.2	3.19	3.24	3.31	3.36	3.38	3.4	3.45	3.47	3.51	3.53
	40	Capacity	kW	12.77	13.18	13.62	14.01	14.38	14.9	15.29	15.61	15.86	16.23	16.41	16.79	16.97
		Power	kW	4.59	4.66	4.76	4.9	4.95	5.02	5.07	5.14	5.19	5.22	5.25	5.3	5.33
		EER		2.78	2.83	2.86	2.86	2.91	2.97	3.02	3.03	3.06	3.11	3.13	3.17	3.19
	46	Capacity	kW	11.75	12.14	12.55	12.93	13.29	13.78	14.16	14.47	14.72	15.08	15.26	15.63	15.82
		Power	kW	4.82	4.89	4.99	5.14	5.19	5.27	5.32	5.4	5.45	5.48	5.51	5.57	5.59
		EER		2.44	2.48	2.51	2.51	2.56	2.61	2.66	2.68	2.7	2.75	2.77	2.81	2.83

Note: The inlet/outlet water temperature difference is 5°C.

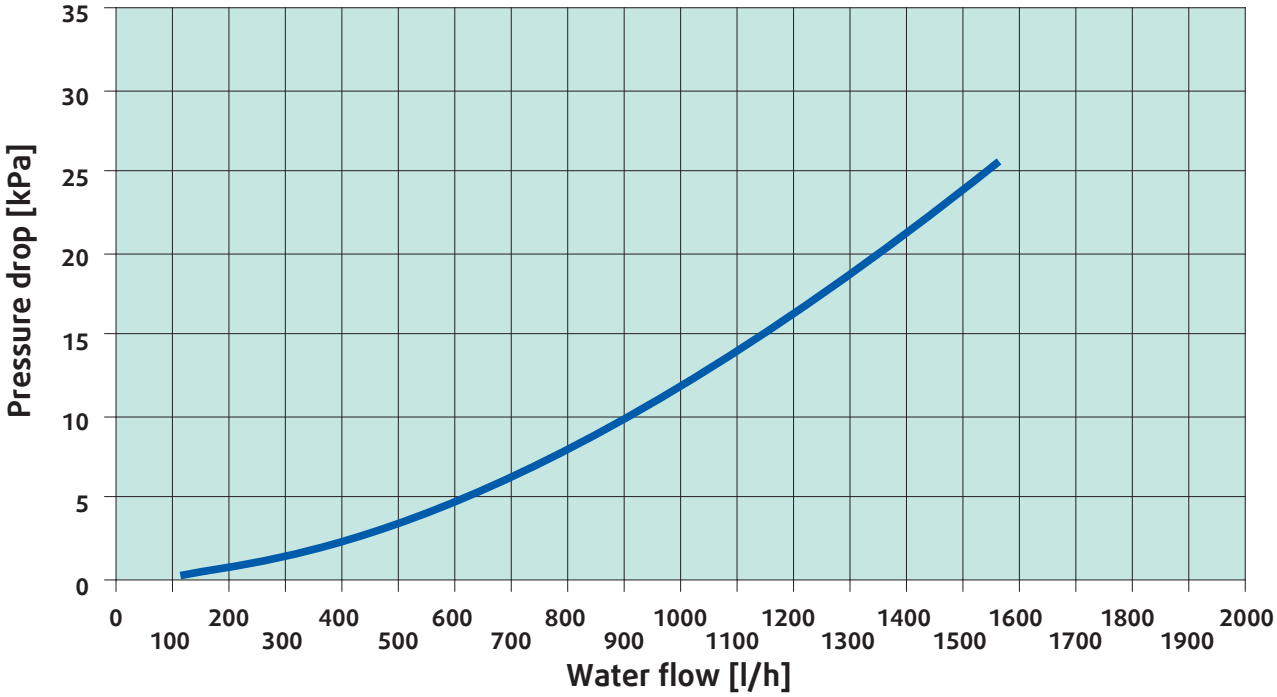
Heating mode

Hot water outlet temp.			°C	40	41	42	43	44	45	46	47	48	49	50
Ambient temp.(°C)	-10	Capacity	kW	9.93	9.61	9.33	9.11	8.93	8.8	8.63	8.37	8.04	7.61	7.12
		Power	kW	3.03	3.1	3.16	3.22	3.29	3.36	3.39	3.46	3.56	3.7	3.89
		COP		3.27	3.1	2.95	2.82	2.71	2.62	2.55	2.42	2.26	2.05	1.83
	-6	Capacity	kW	12.41	12.03	11.7	11.43	11.22	11.07	10.87	10.56	10.16	9.62	9.01
		Power	kW	3.45	3.52	3.59	3.66	3.74	3.82	3.85	3.93	4.05	4.21	4.42
		COP		3.6	3.42	3.26	3.12	3	2.9	2.82	2.69	2.51	2.28	2.04
	-2	Capacity	kW	14.6	14.17	13.79	13.49	13.26	13.1	12.88	12.53	12.06	11.43	10.72
		Power	kW	3.83	3.91	3.99	4.07	4.15	4.24	4.28	4.37	4.5	4.68	4.91
		COP		3.81	3.62	3.46	3.31	3.19	3.09	3.01	2.87	2.68	2.44	2.18
	2	Capacity	kW	16.22	15.76	15.36	15.04	14.8	14.64	14.4	14.03	13.52	12.83	12.05
		Power	kW	4.16	4.25	4.34	4.43	4.52	4.61	4.65	4.75	4.89	5.08	5.34
		COP		3.89	3.71	3.54	3.4	3.28	3.18	3.1	2.96	2.77	2.52	2.26
	7	Capacity	kW	17.63	17.15	16.73	16.4	16.16	16	15.76	15.37	14.83	14.09	13.24
		Power	kW	4.38	4.47	4.56	4.66	4.75	4.85	4.9	5	5.15	5.35	5.62
		COP		4.02	3.83	3.67	3.52	3.4	3.3	3.22	3.08	2.88	2.63	2.36
	10	Capacity	kW	19.74	19.17	18.67	18.27	17.97	17.76	17.46	16.99	16.37	15.52	14.57
		Power	kW	4.65	4.74	4.84	4.94	5.04	5.14	5.19	5.3	5.46	5.67	5.96
		COP		4.25	4.04	3.86	3.7	3.57	3.45	3.36	3.21	3	2.74	2.45
	13	Capacity	kW	22.71	22.01	21.4	20.9	20.52	20.25	19.87	19.31	18.56	17.57	16.46
		Power	kW	5.02	5.12	5.23	5.33	5.44	5.55	5.61	5.72	5.89	6.13	6.43
		COP		4.52	4.3	4.09	3.92	3.77	3.65	3.54	3.38	3.15	2.87	2.56

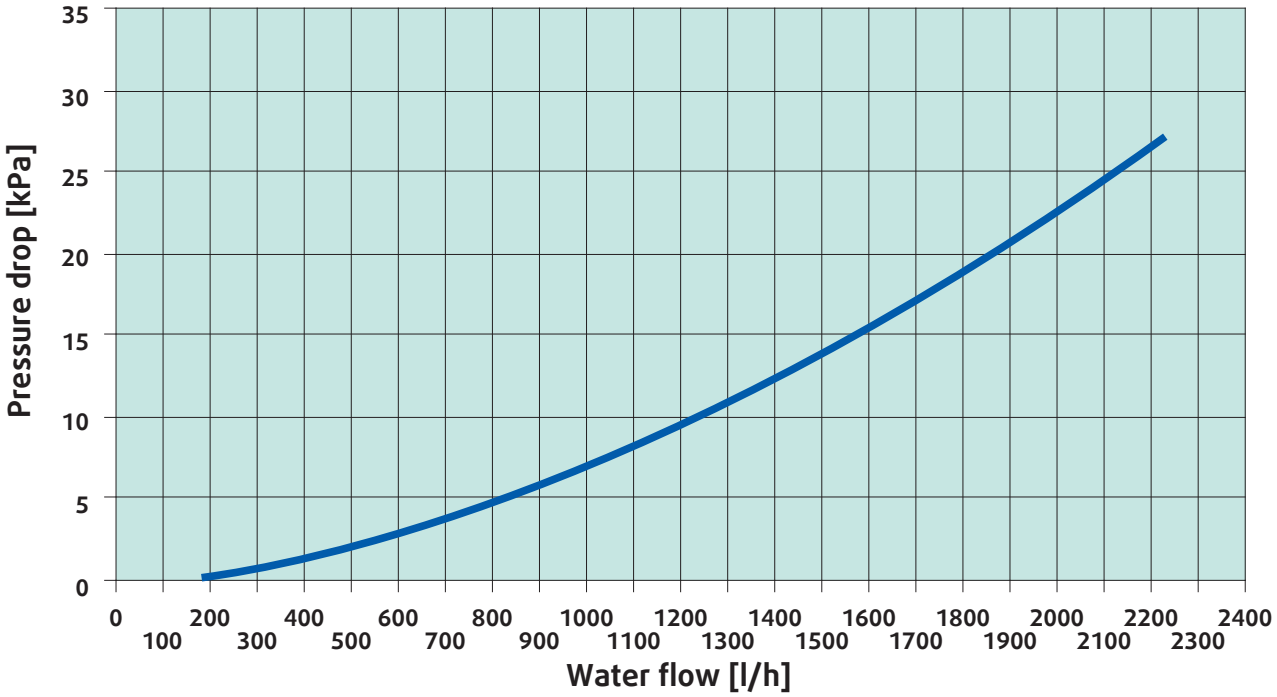
Note: The inlet/outlet water temperature difference is 5°C.

Water Pressure Drop

M.AQA05 DCI and M.AQA07 DCI

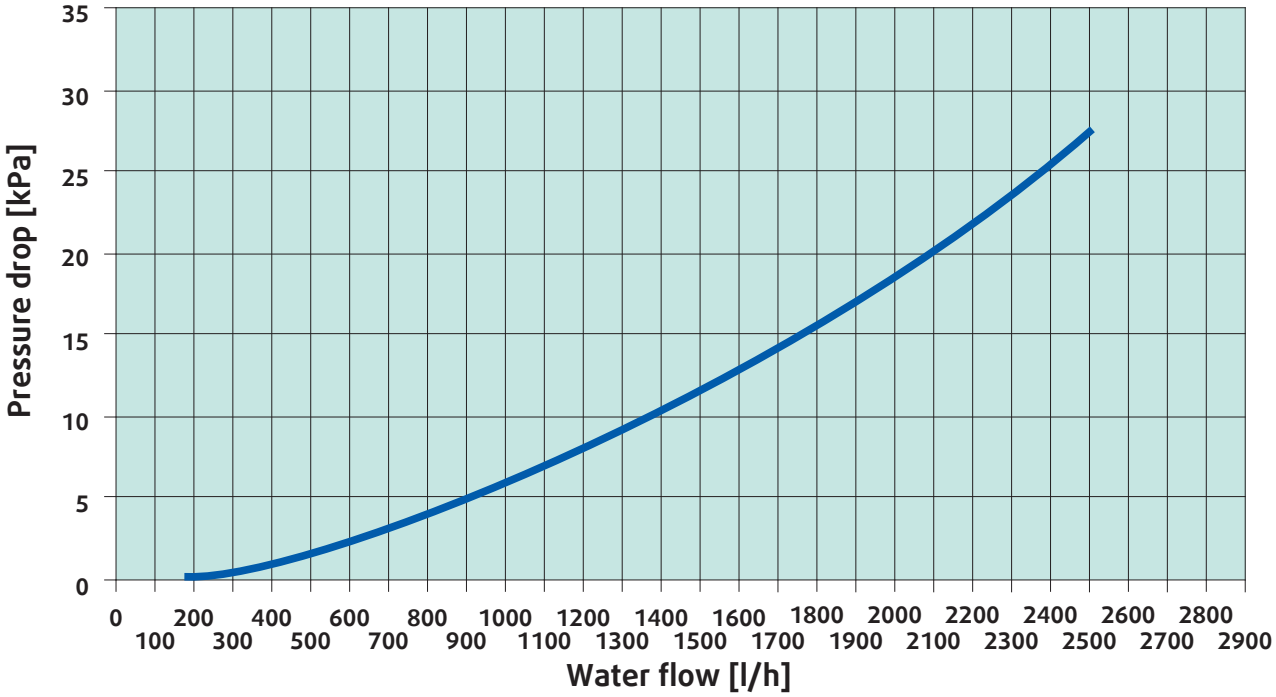


M.AQA10 DCI



Water Pressure Drop

M.AQA12 DCI



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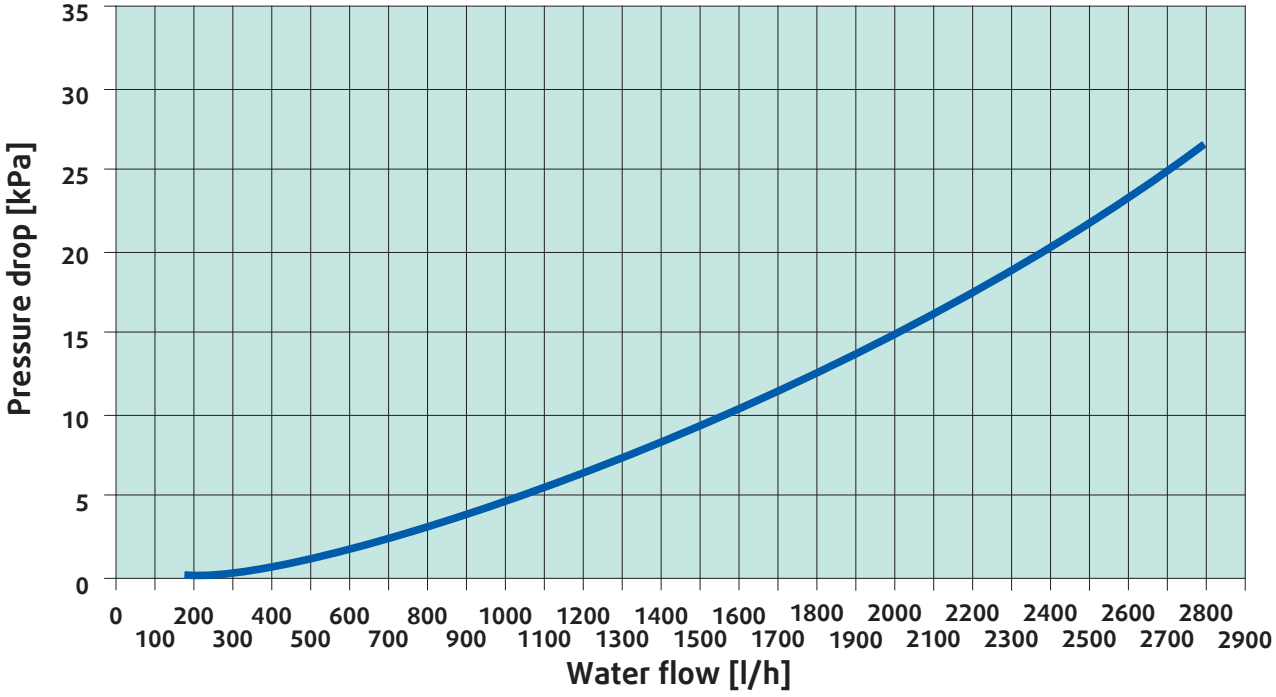
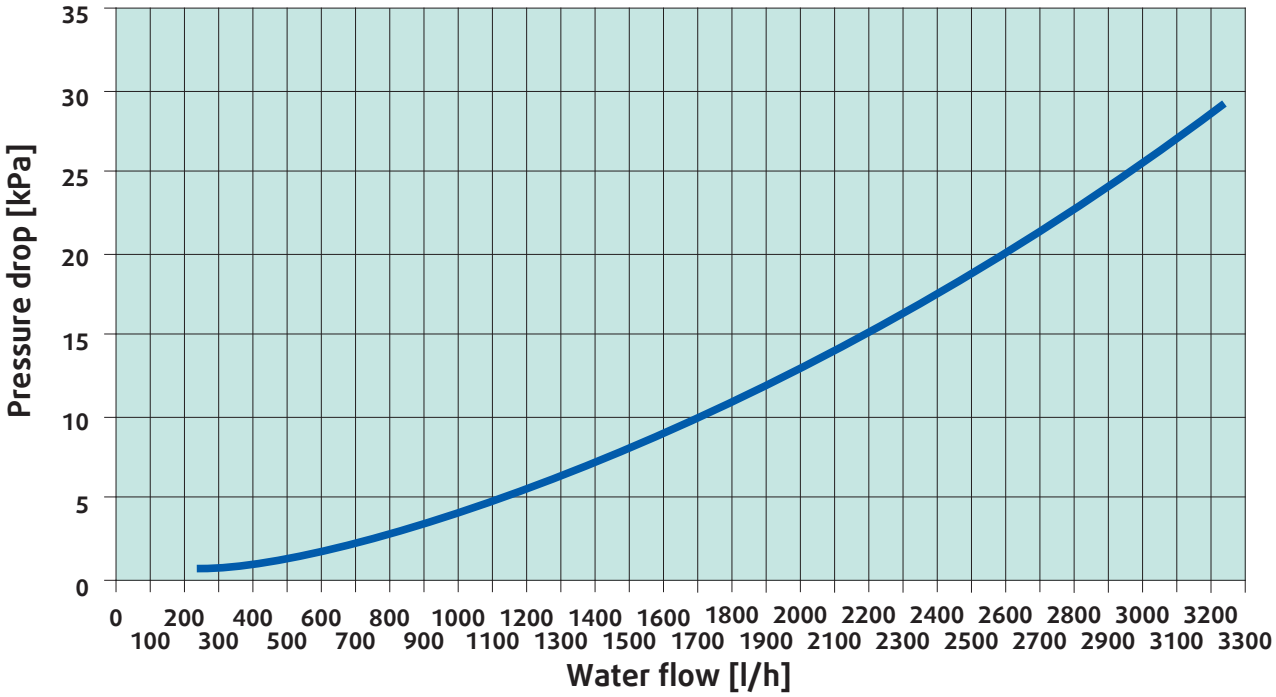


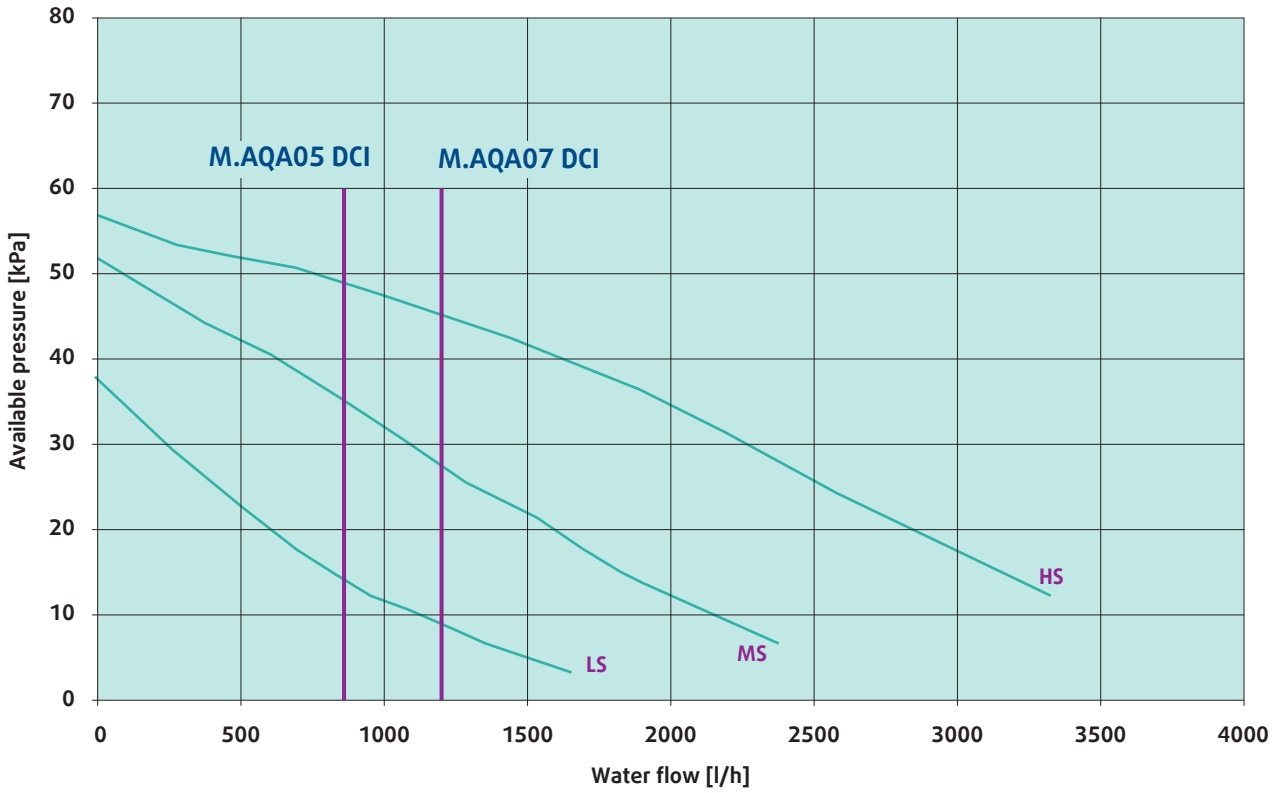
Water Pressure Drop

M.AQA16 DCI

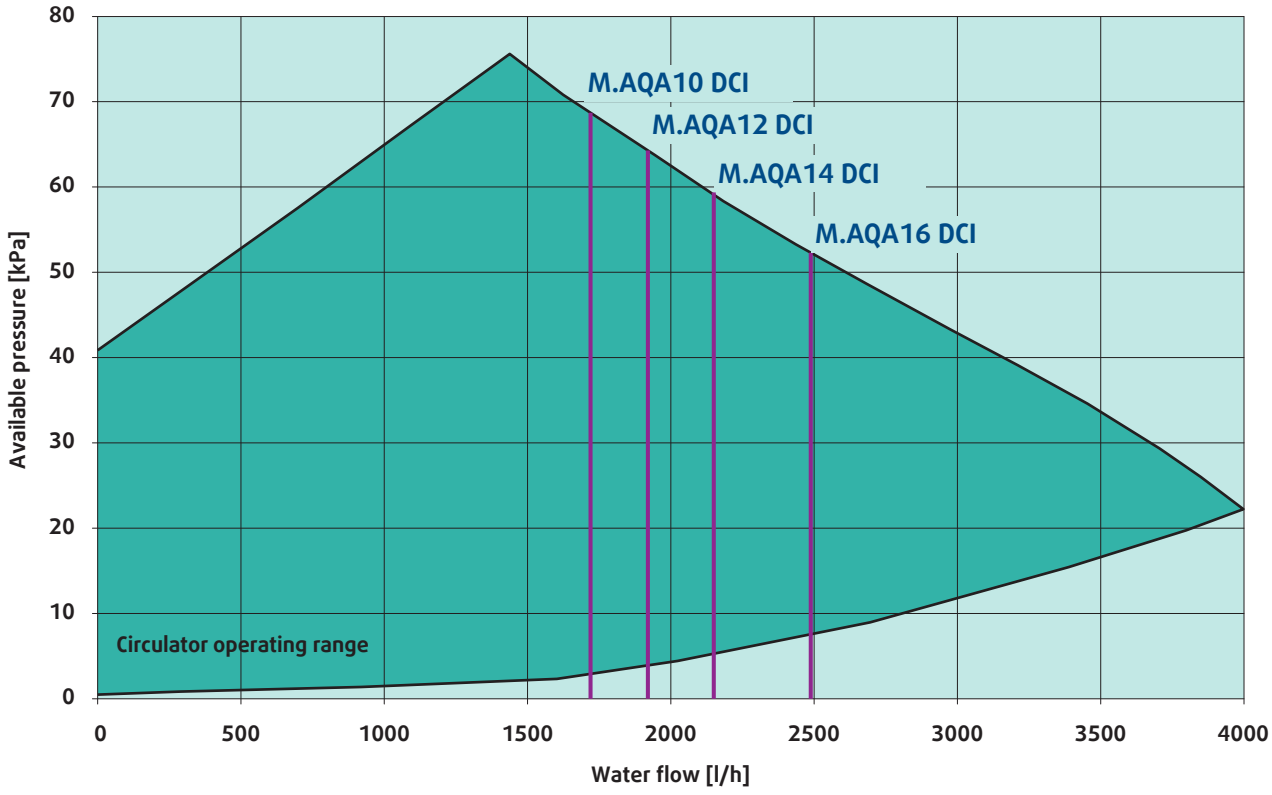


Water Pump Curves

M.AQA05 DCI and M.AQA07 DCI

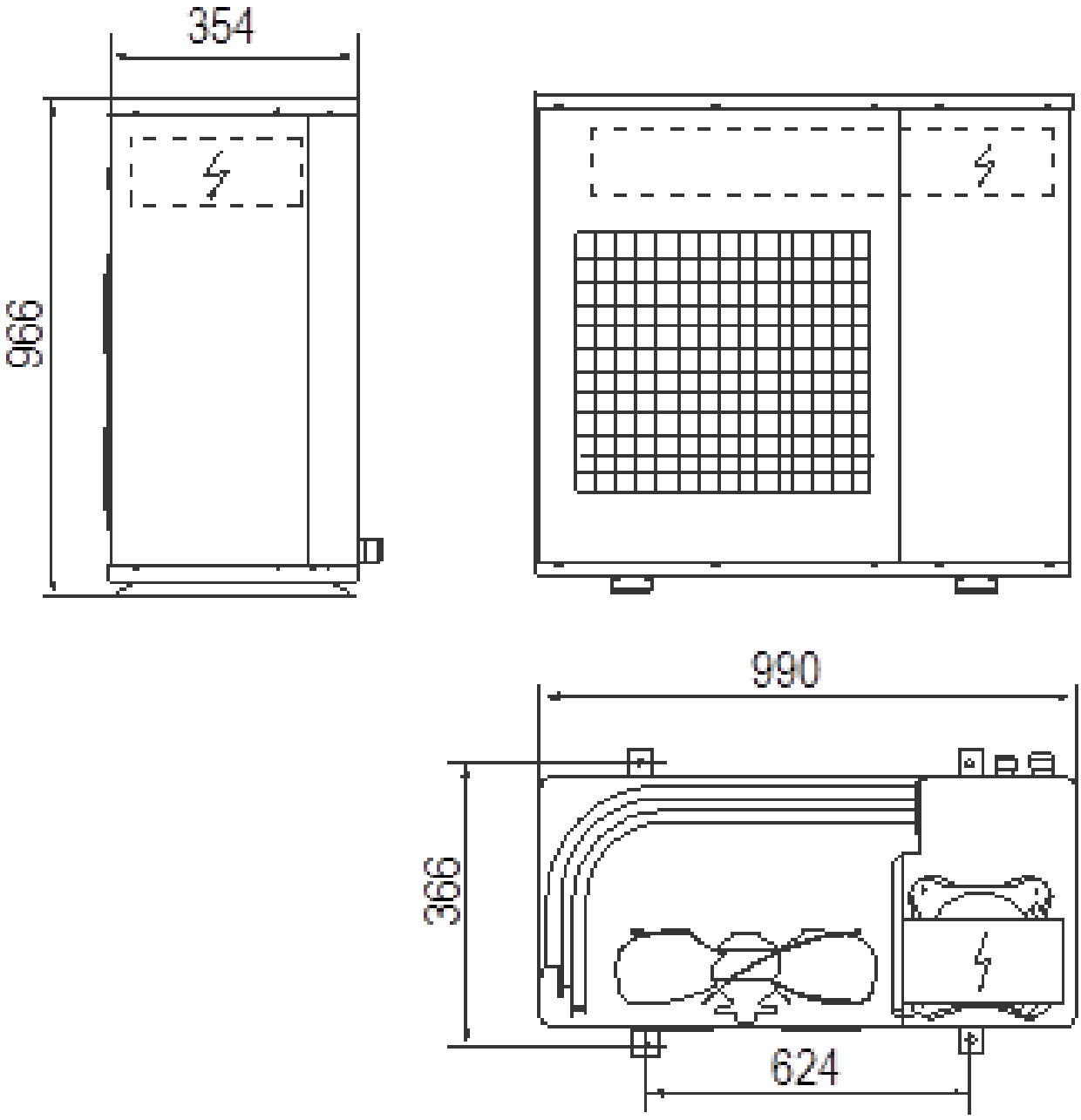


M.AQA10 DCI, M.AQA12 DCI, M.AQA14 DCI and M.AQA16 DCI



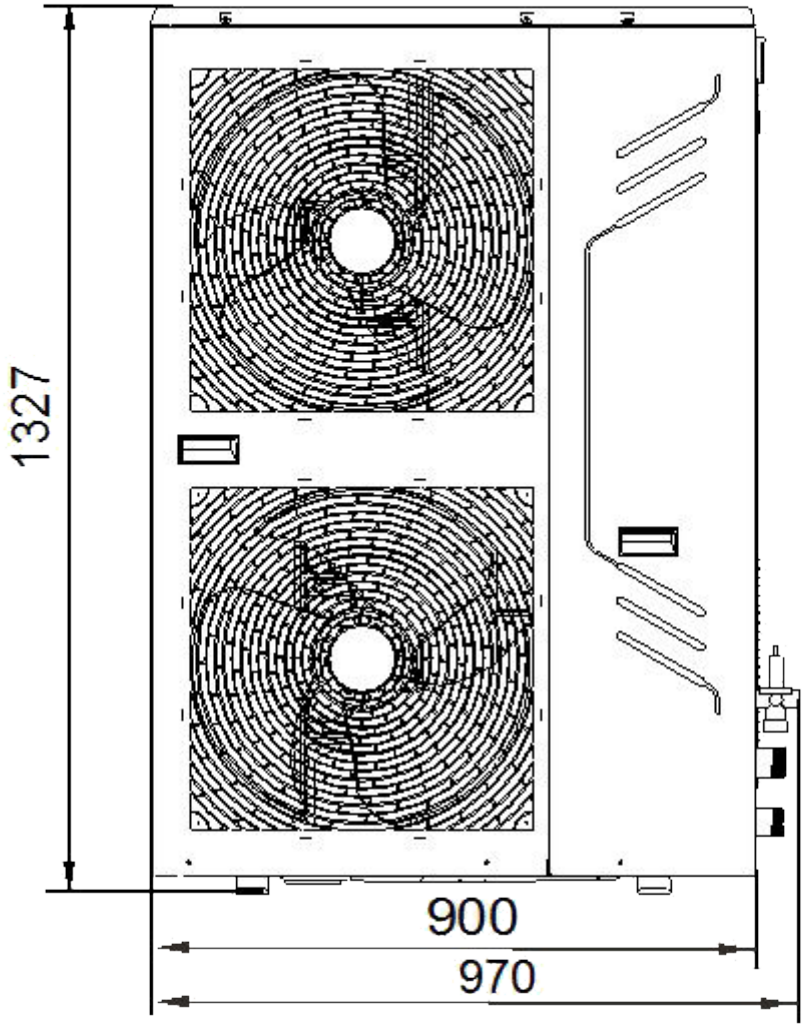
Dimensions (mm)

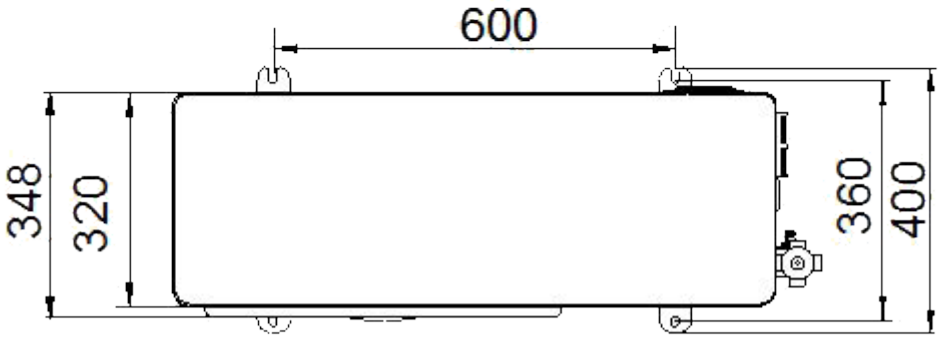
M.AQA05 DCI and M.AQA07 DCI



Dimensions (mm)

M.AQA10 DCI, M.AQA12 DCI, M.AQA14 DCI and M.AQA16 DCI





Notes

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october 2016

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