



Air-to-water reversible heat pumps and water chillers

TECHNICAL SPECIFICATIONS

AQUALIS 2		20H	28H	35H	50H	20HT	28HT	35T 35HT	50T 50HT	65T 65HT	75T 75HT	
Compressor	Quantity	1										
	Type	SCROLL										
	Oil content	L	1,1	1,25	1,66	1,1	1,25	1,95	1,66	1,77		
Refrigerant fluid		POE oil R410A										
Refrigerant weight	Cooling only	kg	-				1,42	2,4	3,1	3,0		
	Reversible		1,37	1,6	1,62	2,67	1,37	1,6	1,62	2,67	3,2	2,85
Crankcase heater current and power		W/A	45W / 0,2A option*									
Coil type		Grooved copper tubes with aluminium fins										
W-C heat exchanger	Water content	L	1,04	1,24	1,62	2,38	1,04	1,24	1,62	2,38	2,76	3,7
	Type	Axial										
Fan	Number of fans		1		2	1		2				
	rpm		718	897	718	897	718	897				
Accelerator pump		3 speeds										
Hydraulic module	Expansion vessel	L	5		8	5		8				
	Expansion vessel pre-charge pressure	bar	1,5									
	Maximum service pressure	bar	4									
	Maximum volume of RFHC system** maximum water temperature of 40°C pure water/40%MPG	L	294 / 150		471 / 240	294 / 150		471 / 240				
	Maximum volume of radiator system** maximum water temperature of 70°C/90°C pure water/40% MPG	L	88 / 54		141 / 87	88 / 54		141 / 87				
	Minimum pure water content for smooth unit operation	L	35	48	61	75	35	48	61	82	95	123
Weight	Empty	kg	77	82	87	123	77	82	87	123	138	142
	In operation		85	90	95	135	85	90	95	135	150	155

* Compulstorry in cooling mode when outdoor temperatures fall below 0°C

** An additional expansion vessel is needed for larger volumes

SOUND LEVELS*

AQUALIS 2		20	28	35	50	65	75
Sound pressure levels	dB(A)	41	46	47	45	48	50

* measured at 5 metres from unit, 1.5 metres from ground, in a free field, directivity 2

ELECTRICAL SPECIFICATIONS

AQUALIS 2		20H	28H	35H	50H	20HT	28HT	35T 35HT	50T 50HT	65T 65HT	75T 75HT	
Rated voltage of unit		230V - 1ph +N+Earth - 50Hz					400V - 3ph +N+Earth - 50Hz					
Compressors	Maximum operating current	A	12,9	17,5	22,2	29,8	4,8	6,4	7,6	10,3	11,2	14,3
Fans	Maximum operating current	A	0,47	0,74	0,47x2	0,47	0,74	0,47x2	0,74x2			
Accelerator pump	Output per unit	min	50	115	120	50	115	120	180			
	Output per unit	max	140	205	210	40	205	210	400			
	Rated current	min	0,32	0,6	0,65	0,32	0,6	0,65	0,91			
	Rated current	max	0,61	1	1,1	0,61	1	1,1	2,02			
Current of entire unit		A	14	19	24	31,8	5,9	7,9	9,3	13,3	14,7	17,8
Starting current		A	22	29	39	43	30	40	48	64	74	101
Electrical wiring (not supplied) (1)		mm ²	3G4	3G6	3G10 (2)	5G2,5	5G4					
C or D curve circuit breaker (not supplied)		Am	16	20	25	32	10	16	20			
Thermostat, pool sensor, On/Off input connections		mm ²	0,2 - 1,5									
Control circuit, connection kit		mm ²	1,5									

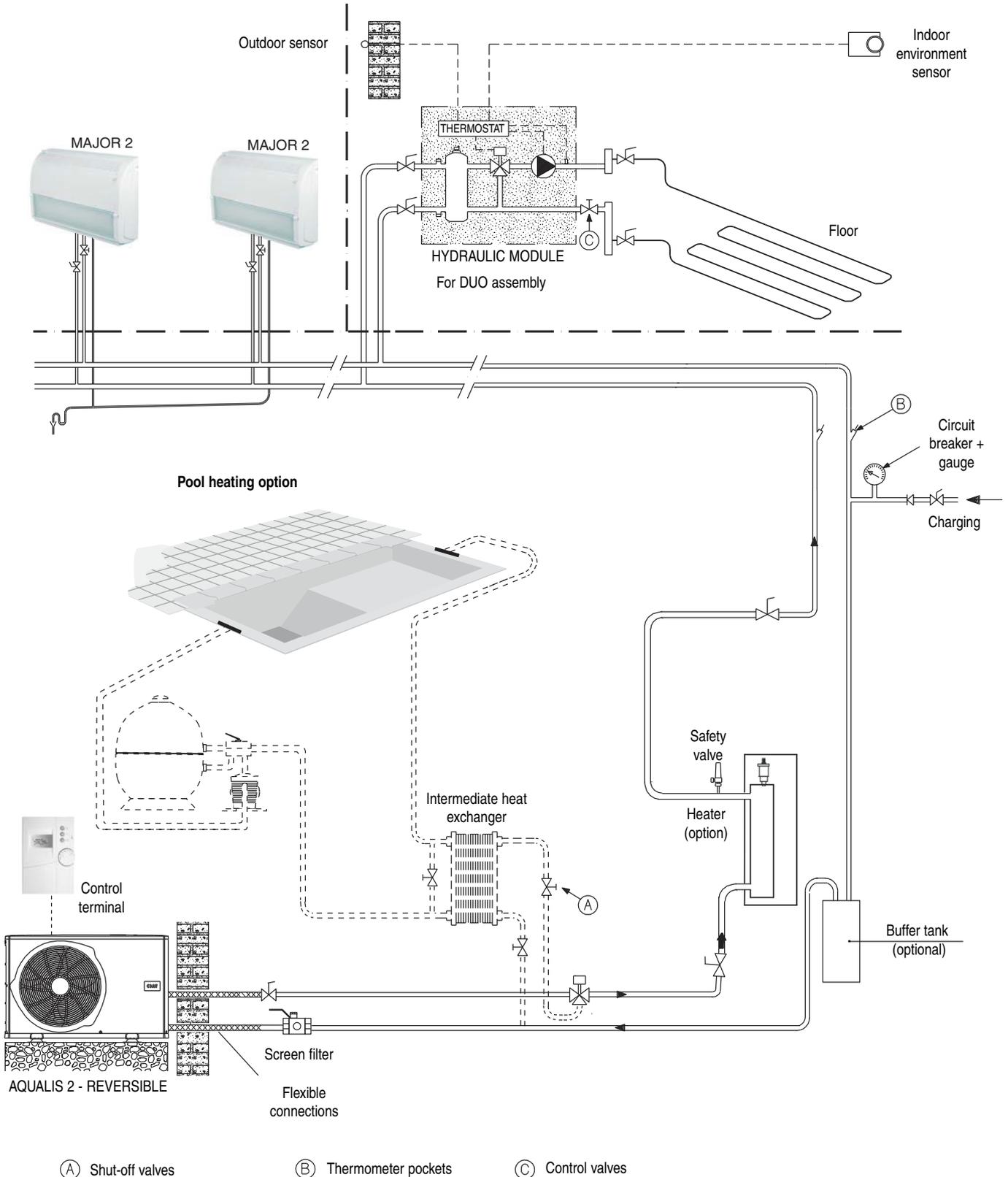
(1) Cable with 2 or 3 charged PVC conductors for temperatures below 50°C and for a maximum length of 30 m.

Note: For other conditions, refer to French standard NF C 15-100.

(2) A 3G6 cable with PVC/V2-K (high temperature) conductors may be used for the 50/50H model.

SCHEMATIC INSTALLATION DIAGRAM

Residential and/or RFHC system terminal units



Note: the schematic diagrams herein are provided for information only. Under no circumstances do they constitute actual installation diagrams.



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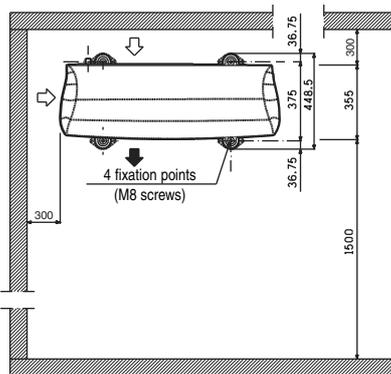
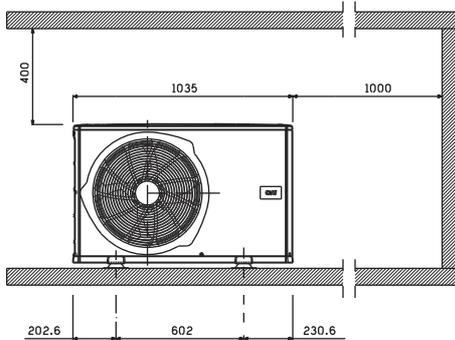
ASSEMBLY RECOMMENDATIONS

Installation

Aqualis 2 units are designed to be installed outdoors on a home deck/patio or in a garden.

- Nothing should obstruct the air flow over the coil or the fan discharge.
- Carefully consider where to install the unit and choose a location appropriate for the surrounding environment (noise levels, integration on site, etc.).
- Enough clearance should be left around the unit to allow for connections, servicing and maintenance.

Necessary clearance around the unit



Electrical connections

All the information needed to wire the system is provided on the wiring diagram supplied with the unit. The diagram should be followed to the letter.

Wiring must be carried out in accordance with accepted engineering practice and conform to the regulations in force.

A cut-off switch and circuit breaker must be installed on the unit by the fitter.

NOTE: To protect the unit from freezing temperatures, leave it on to allow the water to continue flowing through the water circuit. Add glycol if the outdoor temperature falls below 0°C.

Hydraulic connections

Hydraulic connections are to be made in accordance with good engineering practice.

To prevent transmitting noise through the ground or pipes, we recommend using hoses for the hydraulic connections and placing anti-vibration mounts under the unit.

- Place a screen filter with a maximum particle size of no more than 600 µm on the water circuit to protect it from fouling.

Commissioning

- Follow the instructions given in our installation and maintenance manuals.

Servicing

- Follow the owner's manual.
- Take out a maintenance contract.

