

Aqua4

Industrial & Commercial CO₂ Heat Pump



TECHNICAL DATA

Machine type	Aqua5	OPERATING RANGE		
		Parameter	Min	Max
Refrigerant	CO ₂ (R744)	Inlet temp — hot side	32 °C	50 °C
No. of circuits	1	Outlet temp — hot side	37 °C	90 °C
Dry weight	1360 kg	Inlet temp — cold side	-2 °C	20 °C
CO ₂ charge	60 - 95 kg ¹	Outlet temp — cold side	-7 °C	15 °C
Footprint L × W × H	2510 × 698 × 1929 mm			
Power supply	400 V / 3~ / 50 Hz			
Fuse size	125 A			

PERFORMANCE DATA · 50 Hz

#	GC In °C	GC Out °C	EVAP In °C	EVAP Out °C	Heating kW	Cooling kW	COP
1	32	50	20	15	132	88	3.14
2	32	53	12	7	130	85	3.12
3	33	52	7	2	125	80	3.00
4	35	55	11	5	135	92	3.14
5	40	69	-1	-7	103	57	2.36
6	40	70	5	0	119	70	2.55
7	40	70	12	7	132	81	2.71
8	40	70	20	15	140	89	2.82
9	50	60	5	0	104	54	2.14
10	50	60	12	7	113	62	2.28

¹ CO₂ refrigerant charge depends on operating conditions. Units supplied with CO₂ overpressure for factory testing.

PRODUCT DESCRIPTION

Frame & Housing

Galvanised sheet metal, painted. Panels open fully for complete access to all internal components.

Compressor

1× Bitzer semi-hermetic reciprocating compressors. Thermal protection, crankcase heater, optical oil level indicator, IQ-module envelope protection.

Plate Heat Exchangers

Stainless steel, insulated against condensate. Rated for high pressure and high outlet temperatures. Temperature probes for antifreeze protection and capacity control.

Controller

10" touch display with TeqControl software. Water temperature control, frost protection, high-pressure pre-alarm, remote ON/OFF, summer/winter mode.

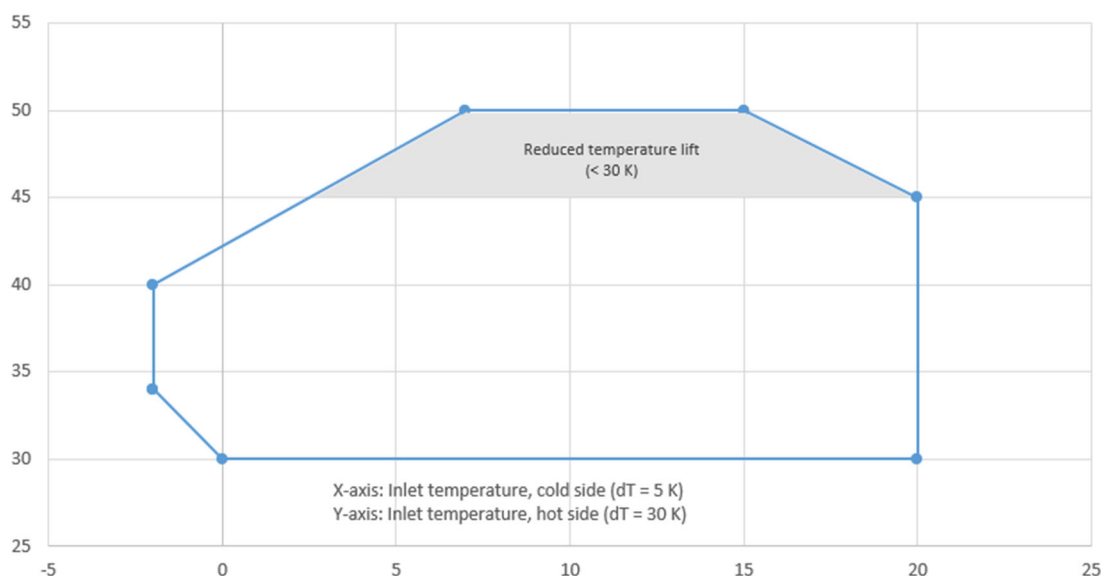
Remote Monitoring

Integrated 5G monitoring via Carel Boss Micro. Supports Modbus RTU, Modbus TCP/IP, BACnet IP.

Safety Devices

High/low pressure switches, safety valves, antifreeze sensors, flow switches, compressor thermal overload protection, optical oil level indicator.

Envelope



CODICE MACCHINA (MACHINE CODE)	2123-0008			
Tipo di insonorizzazione Type of sound insulation	Macchina con carenatura senza lastra Unit with housing, without sound insulation			
Calcolo SUPERFICIE SEMISFERICA / Calculation: HEMISPHERIC SURFACE				
	Livello di Potenza Sonora (dBA) Sound power level	Livello di Pressione Sonora a 1m (dBA) Sound pressure level at 1m (dBA)	Livello di Pressione Sonora a 10m (dBA) Sound pressure level at 10m (dBA)	
Valore macchina Totale Total machine value	78.0	70.0	50.0	
Il dato di rumore è inteso considerando i motoventilatori (se presenti) al massimo numero di giri e i compressori (se presenti) sempre accesi The noise data is intended considering fan motors (if present) at maximum rpm and compressors always switched on.				

