

WATER COOLED CHILLER

v4.0.2r

Model: TOPDUAL WW HT (SH Z50-154AXH-2) R290**Equipment: -I1-RSH2****TECHNICAL DATA**

Refrigerant			R290
Coolant (evaporator)			Ethylene-glycol; 30%
Inlet / Outlet temp. of coolant (evaporator)	°C		14 / 9
Coolant (condenser)			Water
Inlet / Outlet temp. of coolant (condenser)	°C		30 / 60
Type of condensing unit		TOPDUAL	WW HT
Evaporating / condensing temperature	°C		5,5 / 63
Cooling capacity	kW		211,76
Electric power consumption (without pump)	kW		84,38
EER (in selected working point)	EER		2,51
Number of capacity steps of the unit	n°		3 + 1 x Inverter
Number of independent cooling circuits	n°		2
Total refrigerant charge	kg		refer to Annex 3 (Nameplate)
Heating capacity	kW		289,97
COP heating (in selected working point)	COP		3,44

Compressor

Type of compressor / model		SH - RECIPROCATING	Z50-154AXH
Quantity	n°		2
Electrical power input for compressor with inverter / without	kW		46,46 / 37,92
Maximal current power for one compressor	A		74,60
COP compressor	COP		2,51
Inverter for compressor and quantity (1)		YES - 1 - INVERTER - 61 Hz + US valve	
Number of valves for capacity control on one compressor			2 x RSH
Oil quantity	L		7,2
Compressor weight	kg		244

Evaporator

Type of evaporator		Brazed plate	
Quantity	n°		1
Flow of coolant for one evaporator	m ³ /h		40,16
Pressure drop in evaporator	kPa		24,8
Electronic Expansion Valve			YES

Condenser

Type of condenser		Brazed plate	
Quantity	n°		1
Flow of coolant for one condenser	m ³ /h		8,41
Pressure drop in condenser	kPa		1

Hydraulic characteristics - cold side Equipment: Only pipes

Pressure drop of unit - total	m		3,16
Primary circulation pump	-		-
Flow of coolant - total	m ³ /h		40,16
Useful (outside) delivery head of the pump	m		-
Maximum electricity consumption of pump	kW		-
Buffer tank	L		-
Expansion vessel	L		-
Type of connection for coolant	Flange		DN 80

Hydraulic characteristics - warm side		Equipment: Only pipes	
Pressure drop of unit - total	m		0,45
Circulation pump	-		-
Flow of coolant - total	m ³ /h		8,41
Useful (outside) delivery head of the pump	m		-
Maximum electricity consumption of pump	kW		-
Expansion vessel	L		NO
Type of connection for coolant	Flange		DN 50
Sound information			
Sound pressure level at 10 m in open space (EN 13487)	dB(A)		51,12
Dimensional characteristics of the unit			
Length, without connections	m		
Width	m		refer to Annex 4
Height, with anti vibration mounts	m		(dimensional drawing)
Weight (for transport)	kg		
Electrical characteristics of the unit			
Power supply	V / Phase / Hz		
Maximum current - total	A		refer to Annex 8
Recommended dimension of power supply cable (*)			(electrical diagram)

(*) Recommendation for PVC insulated copper cable under steady-state conditions in an ambient air temperature of +40 °C, multicore cables installed in free air, horizontal or vertical without gap between cables on walls. Always check the cable dimension according to local requirements!