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Condenserless chillers with scroll compressors

ENRC.090

Type		Scroll
System		condenserless
Cooling capacity	kW	90.76
C.O.P.	kW/kW	5.02
E.E.R.	kW/kW	5.02
Inlet water fluid temperature	°C	12
Outlet water fluid temperature	°C	7
Fluid type	Type	water
Glycol percentage	%	
Minimum ambient temperature	°C	-3
Maximum condensing temperature	°C	60
Design condensing temperature	°C	35
Type of refrigerant gas	R	410A
Electrical feed according EN 60204-1	V/ph/Hz	400/3/50
Electrical cabinet	IP	54
COMPRESSOR DATA		
Number of compressors	N°	2
Number of circuits	N°	1
Total Compressors Nominal Absorbed Power	kW	18.09
Total Compressors Running current RLA	A	36.19
Steps	N°	2

EVAPORATOR DATA		
Number of evaporators	N°	1
Type of evaporator	Type	Coaxial
Nominal flow rate	m3/h	15.6
Minimum flow rate	m3/h	10,00
Maximum flow rate	m3/h	20,00
Pressure drops (Evaporator + Valves + piping)	kPa	40.32
Hydraulic connections	BSP/DN	"2""
PROCESS PUMP DATA		
Pump P3		
Maximum pump absorbed power	kW	2,53
Maximum pump absorbed current	A	4,56
Available pressure with single pump	kPa	199.14
Available pressure with double pump (optional)	kPa	190.50
Pump P5 (optional)		
Maximum pump absorbed power	kW	6,12
Maximum pump absorbed current	A	10,40
Available pressure with single pump (optional)	kPa	419.69
Available pressure with double pump (optional)	kPa	411.06
TANK DATA		
Tank volume	dm3	410
Expansion vessel volume (optional)	dm3	19
TOTAL ELECTRIC DATA (standard configuration)		
Nominal absorbed power	kW	20.62
Maximum absorbed current (FLA)	A	64,56
Maximum peak current (LRA)	A	208,56
Maximum peak current with soft-start (LRA) (optional)	A	173,76
NOISE DATA		

Sound pressure level at 10m according ISO3744	dBa	54,1
Sound pressure level at 10m according ISO3744 (Low Noise version)	dBa	51,8
DIMENSIONS		
Structure in galvanized steel	RAL	7035
Length	mm	2220
Width	mm	1100
Height	mm	1900
WEIGHT		
Empty	kg	806
FREE SPACE		
Electrical Panel Side	mm	1000
Opposite Side of Electrical Panel	mm	1000
Condensing Coil Sides	mm	1500
NOTE		
<p>All data subject to change With glycol percentage over 30% and leaving water temperature lower than 0°C, pump need to be checked by technical department TR45 option required with ambient temperature between 40°C and 45°C, TR50 for temperature higher than 45°C LW option required with leaving water temperature lower than 4°C HW option required with leaving water temperature higher 15°C With ambient temperature between -3°C and -25°C, LT (low temperature) option is required</p>		