

CREATED BY  
 NAME: LIVIU POPA  
 PHONE: +40 740 420 350  
 EMAIL: liviu.popa@joust.ro

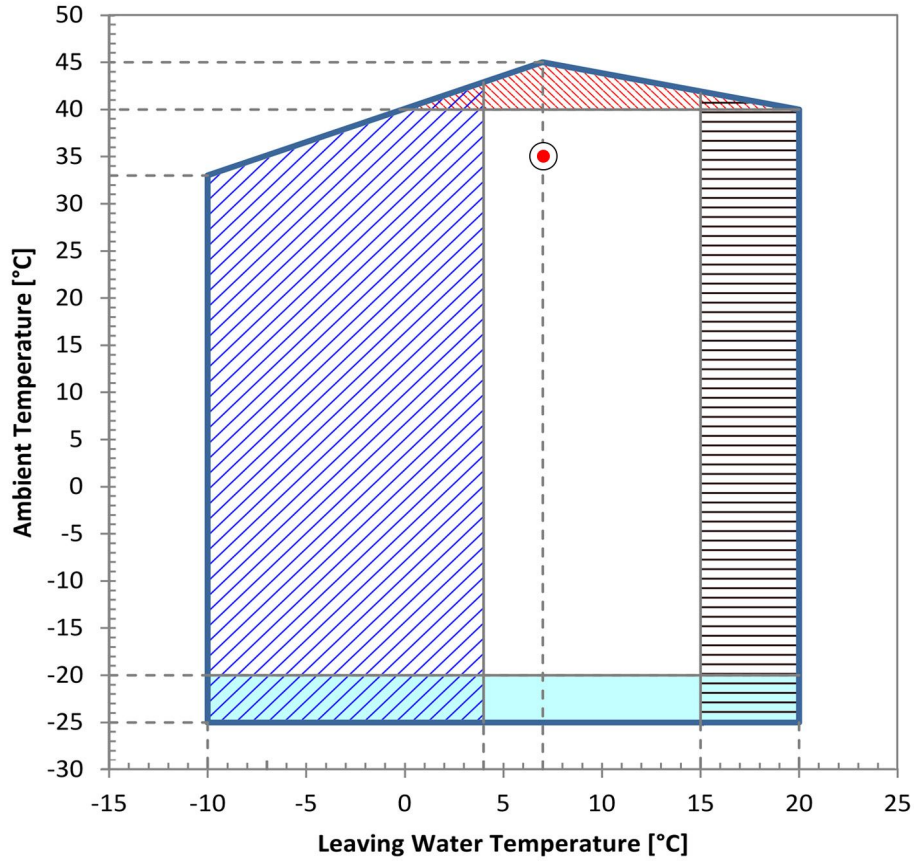







<i>FreeCooling chiller with scroll compressors</i>		<b>ENRF.045</b>
Type		scroll
System		air cooled
Cooling capacity	kW	45.2
C.O.P.	kW/kW	3.68
E.E.R.	kW/kW	2.8
Inlet water fluid temperature	°C	12
Outlet water fluid temperature	°C	7
Fluid type	Type	water
Glycol percentage	%	
Minimum ambient temperature	°C	-20
Maximum ambient temperature	°C	45
Design ambient temperature	°C	35
Elevation a.s.l.	m	0
Type of refrigerant gas	R	410A
Electrical feed according EN 60204-1	V/ph/Hz	400/3/50
Electrical cabinet	IP	54
<b>COMPRESSOR DATA</b>		
Number of compressors	N°	1
Number of circuits	N°	1
Total Compressors Nominal Absorbed Power	kW	12.29
Total Compressors Running current RLA	A	21.4

Steps	N°	1
<b>FREE - COOLING INTEGRATED</b>		
Cooling capacity	kW	45.2
Ambient temperature for 100% Free Cooling	°C	1
Inlet water fluid temperature	°C	12
Outlet water fluid temperature	°C	7
Free cooling pressure drop ( Free Cooling Coil + Evaporator + Valves + piping)	kPa	81.98
<b>EVAPORATOR DATA</b>		
Number of evaporators	N°	1
Type of evaporator	Type	Coaxial
Nominal flow rate	m <sup>3</sup> /h	7.77
Minimum flow rate	m <sup>3</sup> /h	6,00
Maximum flow rate	m <sup>3</sup> /h	12,00
Pressure drops (Evaporator + Valves + piping)	kPa	57.98
Hydraulic connections	BSP/DN	1 1/2"
<b>PROCESS PUMP DATA</b>		
<b>Pump P3</b>		
Maximum pump absorbed power	kW	2,20
Maximum pump absorbed current	A	4,24
Available pressure with single pump	kPa	193.11
Available pressure with double pump (DP option)	kPa	181.12
<b>Pump P5 (optional)</b>		
Maximum pump absorbed power	kW	2,94
Maximum pump absorbed current	A	5,83
Available pressure with single pump (PH option)	kPa	532.83
Available pressure with double pump (DPH option)	kPa	520.84
<b>TANK DATA</b>		
Volume	dm <sup>3</sup>	270

Expansion vessel volume (optional)	dm3	12
<b>AIR AXIAL FANS AND CONDENSER DATA</b>		
Number of condenser coils	N°	1
Number of fans	N°	2
Total absorbed power	kW	3,88
Total absorbed current	A	7,80
Total Air Flow	m3/h	30000
<b>TOTAL ELECTRIC DATA (standard configuration)</b>		
Nominal absorbed power	kW	18.37
Maximum absorbed current(FLA)	A	42,04
Maximum peak current (LRA)	A	178,24
Maximum peak current with soft-start (LRA) (optional)	A	143,44
<b>NOISE DATA</b>		
Sound pressure level at 10m according ISO3744	dBA	59,1
Sound pressure level at 10m according ISO3744 (Low Noise version) (LNJ)	dBA	58,8
<b>DIMENSIONS</b>		
Structure in galvanized steel	RAL	7035
Length	mm	2220
Width	mm	1100
Height	mm	2100
<b>WEIGHT</b>		
Empty	kg	650
<b>FREE SPACE</b>		
Electrical Panel Side	mm	1000
Opposite Side of Electrical Panel	mm	1000
Condensing Coil Sides	mm	1500
<b>NOTE</b>		
<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 higher than 40°C                      LW option required with leaving water temperature lower than 4°C                      With ambient temperature between -20°C and -25°C, LT (low temperature) option is required</p>		

### OPERATING LIMITS



-  Operating area of standard units
-  Optional LW required
-  Optional HW required
-  Optional LT required
-  Optional TR45 required