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Customer	UNILAB SRL	Date	27.10.2014
To the k. a. of	Developers Team	Our Offer	ICCS F 63.A13-C4-21
Your Reference -		Description	
CONDENSING COIL - 3228-1/2" CS 30T 4NR 3000A 2,1P 20NC			
Geometry	3228-1/2" CS	Coil Length	3000 mm
Nr of Tubes per Row	30	Fin Pitch	2,10 mm
Nr of Rows	4	Nr of Circuits	20
		Nr. of baffles	0
		Tube Shape	Circular
Capacity		102,62	kW
Exchange Surface		271,43	m ²
Global Exchange Coefficient		57	W/(m ² K)
DTML		6,6	°C
Fins Material / Tubes Material		Aluminium / Copper	
Fin Thickness		0,13	mm
Coil Internal Volume		44,9	l
Tubes External Diameter		13,30	mm
Tubes Internal Diameter		12,60	mm
Number of skipped tube		0	
AIR SIDE			
Atmospheric Pressure / Altitude		1,0133 / 0,000	bar A / m
Volumetric Air Flow		24638,0	m ³ /h
Mass Air Flow		28461	kg/h
Face Velocity on the Coil		2,38	m/s
Inlet Air Density		1,16	kg/m ³
Inlet Air Temperature		30,0	°C
Inlet Air Relative Humidity		50,00	%
Inlet Air Specific Humidity		13,13	g/kg AS
Inlet Air Enthalpy		63,79	kJ / kg
Outlet Air Temperature		42,6	°C
Outlet Air Relative Humidity		25,04	%
Outlet Air Specific Humidity		13,13	g/kg AS
Outlet Air Enthalpy		76,82	kJ / kg
Pressure Drop		68	Pa
Partial Exchange Coefficient		86	W/(m ² K)
Fouling Factor		0,000000	(m ² K)/W
REFRIGERANT SIDE			
	Manifolds	Vertical	In: 42x1.5 [1 5/8"] Out: 35x1.5 [1 3/8"]
Fluid			R404A
Mass Fluid Flow		3289	kg/h
Fluid Velocity (Gaseous Phase)		2,58	m/s
Fluid Velocity (Liquid Phase)		0,33	m/s
Mass velocity		305	kg/(m ² s)
Subcooling Degrees		0,0	K
Overheating Degrees		0,0	°C
Evaporating Temperature - Middle		0,0	°C
Condensing Temperature - Middle		45,0	°C
Fluid Pressure Drop		14,37	kPa
Manifold Pressure Drop		5,525546	kPa
Total Pressure Drop Fluid Side		19,89	kPa
Partial Exchange Coefficient		6161	W/(m ² K)
Fouling Factor		0,000000	(m ² K)/W