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Customer	UNILAB SRL	Date	18.08.2014
To the k. a. of	Developers Team	Our Offer	ICCS F 63.12 C3-21
Your Reference -		Description	
CONDENSING COIL - 3228-1/2" CS 30T 3NR 1950A 2,1P 15NC			
Geometry	3228-1/2" CS	Coil Length	1950 mm
Nr of Tubes per Row	30	Fin Pitch	2,10 mm
Nr of Rows	3	Nr of Circuits	15
		Nr. of baffles	0
		Tube Shape	Circular
Capacity		61,29	kW
Exchange Surface		132,32	m ²
Global Exchange Coefficient		54	W/(m ² K)
DTML		8,6	°C
Fins Material / Tubes Material		Aluminium / Copper	
Fin Thickness		0,10	mm
Coil Internal Volume		21,9	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		17484,7	m ³ /h
Mass Air Flow		20578	kg/h
Face Velocity on the Coil		2,59	m/s
Inlet Air Density		1,18	kg/m ³
Inlet Air Temperature		25,0	°C
Inlet Air Relative Humidity		50,00	%
Inlet Air Specific Humidity		9,75	g/kg AS
Inlet Air Enthalpy		50,01	kJ / kg
Outlet Air Temperature		35,5	°C
Outlet Air Relative Humidity		27,41	%
Outlet Air Specific Humidity		9,75	g/kg AS
Outlet Air Enthalpy		60,77	kJ / kg
Pressure Drop		58	Pa
Partial Exchange Coefficient		90	W/(m ² K)
Fouling Factor		0,000000	(m ² K)/W
REFRIGERANT SIDE	Manifolds	Vertical	In: 35x1.5 [1 3/8"]
			Out: 28x1 [1 1/8"]
Fluid			R404A
Mass Fluid Flow		1835	kg/h
Fluid Velocity (Gaseous Phase)		2,23	m/s
Fluid Velocity (Liquid Phase)		0,23	m/s
Mass velocity		227	kg/(m ² s)
Subcooling Degrees		0,0	K
Overheating Degrees		0,0	°C
Evaporating Temperature - Middle		0,0	°C
Condensing Temperature - Middle		40,0	°C
Fluid Pressure Drop		6,261165	kPa
Manifold Pressure Drop		4,79127	kPa
Total Pressure Drop Fluid Side		11,05	kPa
Partial Exchange Coefficient		4843	W/(m ² K)
Fouling Factor		0,000000	(m ² K)/W