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Customer	UNILAB SRL	Date	15.07.2014
To the k. a. of	Developers Team	Our Offer	ICCS F 063.A12-C4-21
Your Reference -		Description	
CONDENSING COIL - 3228-1/2" CS 30T 4NR 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	4	Nr of Circuits	15
		Nr. of baffles	0
		Tube Shape	Circular
Capacity		66,61	kW
Exchange Surface		176,43	m ²
Global Exchange Coefficient		53	W/(m ² K)
DTML		7,1	°C
Fins Material / Tubes Material		Aluminium / Copper	
Fin Thickness		0,10	mm
Coil Internal Volume		29,2	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		16390,0	m ³ /h
Mass Air Flow		19289	kg/h
Face Velocity on the Coil		2,43	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		37,2	°C
Outlet Air Relative Humidity		25,01	%
Outlet Air Specific Humidity		9,75	g/kg AS
Outlet Air Enthalpy		62,49	kJ / kg
Pressure Drop		70	Pa
Partial Exchange Coefficient		86	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		1994	kg/h
Fluid Velocity (Gaseous Phase)		2,43	m/s
Fluid Velocity (Liquid Phase)		0,25	m/s
Mass velocity		247	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		9,65	kPa
Manifold Pressure Drop		5,61779	kPa
Total Pressure Drop Fluid Side		15,27	kPa
Partial Exchange Coefficient		5215	W/(m ² K)
Fouling Factor		0,000000	(m ² K)/W