Coil Simulation Software
Evaporator

Project Name :	Blue Refrigeration
Date :	2018/10/07

Input Data

Coil Size :	3/8		Altitude :	0	m
Refrigerant Type :	R404A		Tube Vertical Distance :	0.0254	m
Outer Diameter :	0.00952	m	Tube Horizontal Distance :	0.022	m
Inner Diameter :	0.0088138	m	Circuit # :	14	
Evaporating Temp. :	-2	˚C	Fins Material :	Aluminum	
Suction Temp. :	1	˚C	Fins Type :	Wavy	
Dry On Coil Temp. :	5	˚C	Tube Material :	Copper	
Wet On Coil Temp. :	4	˚C	Tube Shape :	Smooth	
Relative Humidity :	85.31	%	Rows # :	4	
Liquid Temp. :	45	˚C	Fins Per Length :	315	
Coil Length :	1.6	m	Fins Thickness :	0.00012	m
Coil Width :	0.7	m	Air Quantity :	5000	m3/h
Connection Location :	R				

Output Data

Total Capacity :	14282.69	W	Fluid Pressure Drop :	44.7797	kPa
Sensible Capacity :	2977.96	W	Static Pressure :	29	Pa
Off Coil Dry Bulb Temp. :	3.76	˚C	Off Coil RH :	89.42	%
Off Coil Wet Bulb Temp. :	3.09	˚C	On Coil Humidity :	4.78	g/kg
Air Velocity :	1.24	m/s	Off Coil Humidity :	4.59	g/kg
Circuit Length :	12.6	m	Liquid Header Diameter :	28	mm
Suction Header Diameter :	35	mm	Liquid Connection Size :	22	mm
Suction Connection Size :	28	mm	Refrigerant Mass Flow :	432.98	kg/h

Prepared By		**Checked By**		**Approved By**	