

Date 29/06/2020  
 Project New static evaporator 200W

ECO code	<b>1035A12030400100EXX01</b>		
Fin type	35 X 35 In line	1035 smooth	1025lt (STD)
Type of tube	9.35 Smooth C		
Fluid	R404A		

Utilized tubes	12	HxLxP [mm]	420 x 400 x 105
Non utilized tubes	24	Outer area [m2]	3.74
Inner volume [l]	0.371	Frontal area [m2]	0.168
Headers		Inner area [m2]	0.141
Tubes per circuit	12		

AIR SIDE		SIDE -R404A	
Entering temp. [°C]	10	T. condensing liq. [°C]	40
U.R. entering [%]	70	Liquid sub-cooling [°C]	2
Outlet temp. [°C]	6.93	T. evaporation liq. [°C]	0.02
U.R. outlet [%]	84.6	T. evaporation gas [°C]	0
Flow [m3/h]	181.44	Vapor overheating [°C]	5
Flow [kg/s]	0.062	Gas title [kgv/kg]	0.328
Frontal velocity [m/s]	0.3	Total flow [kg/h]	6.36
Pressure drop [Pa]	0.173	Gas velocity [m/s]	0.86
		Coil pressure drop [kPa]	0.366
Barometric pres. [kPa]	101.325	Pressure sat [bar]	6.02
Altitude [m]	0		

Type of calculation	Countercurrent	Total capacity [kW]	<b>0.208</b>
Corrective factor	1	Sensible capacity [kW]	<b>0.194</b>
Additional equivalent lenght	0	Condensed water [l/h]	0.022