

Model	DSE 5-490
Fin type	35 X 35 In line
Type of tube	9.35 Smooth C
Fluid	R404A

Utilized tubes	14	HxLxP [mm]	490 x 810 x 70
Non utilized tubes	14	Outer area [m2]	5.9
Inner volume [l]	0.828	Frontal area [m2]	0.397
Headers		Inner area [m2]	0.333
Tubes per circuit	14		

## 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]	7.23	T. evaporation liq. [°C]	0.166
U.R. outlet [%]	81.1	T. evaporation gas [°C]	0
Flow [m3/h]	428.652	Vapor overheating [°C]	5
Flow [kg/s]	0.147	Gas title [kgv/kg]	0.328
Frontal velocity [m/s]	0.3	Total flow [kg/h]	15
Pressure drop [Pa]	0.118	Gas velocity [m/s]	2.03
Barometric pres. [kPa]	101.325	Coil pressure drop [kPa]	3.12
Altitude [m]	0	Pressure sat [bar]	6.02

Type of calculation	Countercurrent	Total capacity [kW]	<b>0.49</b>
Corrective factor	1	Sensible capacity [kW]	<b>0.413</b>
Additional equivalent length	0	Condensed water [l/h]	0.113