

COOLENT

Model	DSE 9-2450
Fin type	35 X 35 In line
Type of tube	9.35 Smooth C
Fluid	R404A

Utilized tubes	28	HxLxP [mm]	910 x 1810 x 105
Non utilized tubes	50	Outer area [m2]	36.7
Inner volume [l]	3.58	Frontal area [m2]	1.65
Headers		Inner area [m2]	1.49
Tubes per circuit	14		

AIR SIDE

Entering temp. [°C]	10
U.R. entering [%]	70
Outlet temp. [°C]	6.53
U.R. outlet [%]	85.4
Flow [m3/h]	1778.868
Flow [kg/s]	0.611
Frontal velocity [m/s]	0.3
Pressure drop [Pa]	0.176
Barometric pres. [kPa]	101.325
Altitude [m]	0

SIDE -R404A

T. condensing liq. [°C]	40
Liquid sub-cooling [°C]	2
T. evaporation liq. [°C]	1.52
T. evaporation gas [°C]	0
Vapor overheating [°C]	5
Gas title [kgv/kg]	0.328
Total flow [kg/h]	74.8
Gas velocity [m/s]	5.06
Coil pressure drop [kPa]	29.7
Pressure sat [bar]	6.02

Type of calculation	Countercurrent	Total capacity [kW]	2.45
Corrective factor	1	Sensible capacity [kW]	2.16
Additional equivalent length	0	Condensed water [l/h]	0.436