

COOLENT

Model	DSE 9-1540
Fin type	35 X 35 In line
Type of tube	9.35 Smooth C
Fluid	R404A

Utilized tubes	26	HxLxP [mm]	910 x 1410 x 105
Non utilized tubes	52	Outer area [m2]	28.6
Inner volume [l]	2.61	Frontal area [m2]	1.28
Headers		Inner area [m2]	1.08
Tubes per circuit	26		

AIR SIDE

Entering temp. [°C]	10
U.R. entering [%]	70
Outlet temp. [°C]	6.91
U.R. outlet [%]	85.5
Flow [m3/h]	1385.748
Flow [kg/s]	0.476
Frontal velocity [m/s]	0.3
Pressure drop [Pa]	0.169
Barometric pres. [kPa]	101.325
Altitude [m]	0

SIDE -R404A

T. condensing liq. [°C]	40
Liquid sub-cooling [°C]	2
T. evaporation liq. [°C]	3.34
T. evaporation gas [°C]	0
Vapor overheating [°C]	5
Gas title [kgv/kg]	0.328
Total flow [kg/h]	47.1
Gas velocity [m/s]	6.37
Coil pressure drop [kPa]	66.5
Pressure sat [bar]	6.02

Type of calculation	Countercurrent
Corrective factor	1
Additional equivalent length	0

Total capacity [kW]	1.54
Sensible capacity [kW]	1.49
Condensed water [l/h]	0.082