

COOLENT

Model	DSE 5-625
Fin type	35 X 35 In line
Type of tube	9.35 Smooth C
Fluid	R404A

Utilized tubes	14	HxLxP [mm]	490 x 1010 x 70
Non utilized tubes	14	Outer area [m2]	7.35
Inner volume [l]	1.02	Frontal area [m2]	0.495
Headers		Inner area [m2]	0.415
Tubes per circuit	14		

AIR SIDE

Entering temp. [°C]	10
U.R. entering [%]	70
Outlet temp. [°C]	7.19
U.R. outlet [%]	81.1
Flow [m3/h]	534.4921
Flow [kg/s]	0.184
Frontal velocity [m/s]	0.3
Pressure drop [Pa]	0.118
Barometric pres. [kPa]	101.325
Altitude [m]	0

SIDE -R404A

T. condensing liq. [°C]	40
Liquid sub-cooling [°C]	2
T. evaporation liq. [°C]	0.293
T. evaporation gas [°C]	0
Vapor overheating [°C]	5
Gas title [kgv/kg]	0.328
Total flow [kg/h]	19.1
Gas velocity [m/s]	2.58
Coil pressure drop [kPa]	5.66
Pressure sat [bar]	6.02

Type of calculation	Countercurrent	Total capacity [kW]	0.625
Corrective factor	1	Sensible capacity [kW]	0.524
Additional equivalent length	0	Condensed water [l/h]	0.149