

# COLENT

Model	DSE 6-1040
Fin type	35 X 35 In line
Type of tube	9.35 Smooth C
Fluid	R404A

Utilized tubes	16	HxLxP [mm]	595 x 1210 x 105
Non utilized tubes	35	Outer area [m2]	16
Inner volume [l]	1.39	Frontal area [m2]	0.72
Headers		Inner area [m2]	0.569
Tubes per circuit	16		

## AIR SIDE

Entering temp. [°C]	10
U.R. entering [%]	70
Outlet temp. [°C]	6.6
U.R. outlet [%]	85.3
Flow [m3/h]	777.5461
Flow [kg/s]	0.267
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]	0.938
T. evaporation gas [°C]	0
Vapor overheating [°C]	5
Gas title [kgv/kg]	0.328
Total flow [kg/h]	31.7
Gas velocity [m/s]	4.29
Coil pressure drop [kPa]	18.1
Pressure sat [bar]	6.02

Type of calculation	Countercurrent
Corrective factor	1
Additional equivalent length	0

Total capacity [kW]	<b>1.04</b>
Sensible capacity [kW]	<b>0.923</b>
Condensed water [l/h]	0.172