



Danfoss Industrial







Refrigeration A/S

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Project data	
Date	30.06.2014
File	File name.dan
Project	File name
Information	Info text

System data	
Refrigerant	R404A
Selected task	SERIES
Selected system	DRY
Selected pipeline	Discharge line
Design size	22.0 (20.9)
Design velocity	m/s 15.0

Operating data		
Evap.cap	kW	50.0
Line massflow	kg/h	1676
Evap.temp	°C	-10.0
Evap.pres	bar	4.33
Cond.temp	°C	45.0
Cond.pres	bar	20.4
Superheating	K	10.0
Subcooling	K	5.00
Line multiplier		1.00
Hot gas temp.	°C	73.2
Calculated total pressure drop, max load	bar	0.179
Calculated total temperature drop, max load	K	0.375

Flow diagram					
					
Cu-TUBUP28...	BE-Cu-28-9...	Cu-TUBH28-...	Cu-TUBDN28...	BE-Cu-28-4...	BE-Cu-28-4...



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1. Component: Cu-TUBUP28-DIN Vertical pipe up		
Nom.connection (mm)		DN28
Nom.connection (Inch)		1 1/8
Pipe length	m	2.50
dp max. load	bar	0.0783
dt max. load	K	0.164
Vel.max.load	m/s	10.3
2. Component: BE-Cu-28-90-DIN 90° Bend		
Nom.connection (mm)		DN28
Nom.connection (Inch)		1 1/8
dp max. load	bar	0.00910
dt max. load	K	0.0190
3. Component: Cu-TUBH28-DIN Horizontal pipe		
Nom.connection (mm)		DN28
Nom.connection (Inch)		1 1/8
Pipe length	m	3.00
dp max. load	bar	0.0673
dt max. load	K	0.141
Vel.max.load	m/s	10.4
4. Component: Cu-TUBDN28-DIN Vertical pipe down		
Nom.connection (mm)		DN28
Nom.connection (Inch)		1 1/8
Pipe length	m	1.00
dp max. load	bar	0.0136
dt max. load	K	0.0285
Vel.max.load	m/s	10.4
5. Component: BE-Cu-28-45-DIN 45° Bend		
Nom.connection (mm)		DN28
Nom.connection (Inch)		1 1/8
dp max. load	bar	0.00537
dt max. load	K	0.0113



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6. Component: BE-Cu-28-45-DIN 45° Bend

Nom.connection (mm)		DN28
Nom.connection (Inch)		1 1/8
dp max. load	bar	0.00538
dt max. load	K	0.0113