



Danfoss Industrial

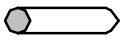

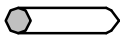

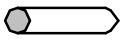

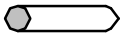

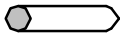


Refrigeration A/S

Page 1/4

Project data	
Date	30.06.2014
File	всасывание.dan
Project	всасывание
Information	

System data	
Refrigerant	R404A
Selected task	SERIES
Selected system	DRY
Selected pipeline	Dry suction line
Design size	35.0 (33.9)
Design velocity	m/s 12.0

Operating data		
Evap.cap	kW	4.00
Line massflow	kg/h	805
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		6.00
Calculated total pressure drop, max load	bar	0.108
Calculated total temperature drop, max load	K	0.733

Flow diagram					
					
Cu-TUBH42-...	BE-Cu-42-9...	Cu-TUBH42-...	BE-Cu-42-9...	Cu-TUBH42-...	BE-Cu-42-9...
					
Cu-TUBH42-...	BE-Cu-42-9...	Cu-TUBH42-...	BE-Cu-42-9...	Cu-TUBDN42...	



Danfoss Industrial

Refrigeration A/S

Page 2/4

1. Component: Cu-TUBH42-DIN Horizontal pipe		
Nom.connection (mm)		DN42
Nom.connection (Inch)		1 5/8
Pipe length	m	14.0
dp max. load	bar	0.0427
dt max. load	K	0.289
Vel.max.load	m/s	9.57
2. Component: BE-Cu-42-90-DIN 90° Bend		
Nom.connection (mm)		DN42
Nom.connection (Inch)		1 5/8
dp max. load	bar	0.00282
dt max. load	K	0.0191
3. Component: Cu-TUBH42-DIN Horizontal pipe		
Nom.connection (mm)		DN42
Nom.connection (Inch)		1 5/8
Pipe length	m	1.50
dp max. load	bar	0.00463
dt max. load	K	0.0315
Vel.max.load	m/s	9.68
4. Component: BE-Cu-42-90-DIN 90° Bend		
Nom.connection (mm)		DN42
Nom.connection (Inch)		1 5/8
dp max. load	bar	0.00282
dt max. load	K	0.0192
5. Component: Cu-TUBH42-DIN Horizontal pipe		
Nom.connection (mm)		DN42
Nom.connection (Inch)		1 5/8
Pipe length	m	1.50
dp max. load	bar	0.00463
dt max. load	K	0.0316
Vel.max.load	m/s	9.70



Danfoss Industrial

Refrigeration A/S

Page 3/4

6. Component: BE-Cu-42-90-DIN 90° Bend		
Nom.connection (mm)		DN42
Nom.connection (Inch)		1 5/8
dp max. load	bar	0.00283
dt max. load	K	0.0193

7. Component: Cu-TUBH42-DIN Horizontal pipe		
Nom.connection (mm)		DN42
Nom.connection (Inch)		1 5/8
Pipe length	m	4.00
dp max. load	bar	0.0124
dt max. load	K	0.0845
Vel.max.load	m/s	9.72

8. Component: BE-Cu-42-90-DIN 90° Bend		
Nom.connection (mm)		DN42
Nom.connection (Inch)		1 5/8
dp max. load	bar	0.00284
dt max. load	K	0.0194

9. Component: Cu-TUBH42-DIN Horizontal pipe		
Nom.connection (mm)		DN42
Nom.connection (Inch)		1 5/8
Pipe length	m	9.00
dp max. load	bar	0.0280
dt max. load	K	0.192
Vel.max.load	m/s	9.75

10. Component: BE-Cu-42-90-DIN 90° Bend		
Nom.connection (mm)		DN42
Nom.connection (Inch)		1 5/8
dp max. load	bar	0.00286
dt max. load	K	0.0197



Danfoss Industrial

Refrigeration A/S

Page 4/4

11. Component: Cu-TUBDN42-DIN Vertical pipe down		
Nom.connection (mm)		DN42
Nom.connection (Inch)		1 5/8
Pipe length	m	1.00
dp max. load	bar	0.00116
dt max. load	K	0.00801
Vel.max.load	m/s	9.83