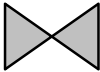
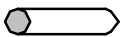
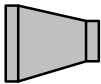





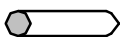

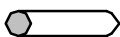
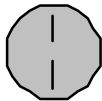
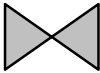




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Refrigeration A/S

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Project data					
Date	15.09.2011				
File	M.dan				
Project	M				
Information	Info text				
System data					
Refrigerant	R507				
Selected task	SERIES				
Selected system	DRY				
Selected pipeline	Dry suction line				
Design size	89.0 (83.0)				
Design velocity	m/s	12.0			
Operating data					
Evap.cap	kW	37.9			
Line massflow	kg/h	5132			
Evap.temp	°C	-10.0			
Evap.pres	bar	4.53			
Cond.temp	°C	45.0			
Cond.pres	bar	21.2			
Superheating	K	10.0			
Subcooling	K	3.00			
Line multiplier		4.00			
Calculated total pressure drop, max load	bar	0.111			
Calculated total temperature drop, max load	K	0.722			
Flow diagram					
					
SVA100 str...	TUBH100-DIN	FID100-80-...	BE80-5-90-...	BE80-3-90-...	BE80-5-90-...
					
TUBUP80-DIN	BE80-5-90-...	TUBH80-DIN	FIU80-100-...	TUBH100-DIN	FIA100-150...
					
SVA100 str...					



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1. Component: SVA100 straight Stop valve, straight		
Nom.connection (mm)		DN100
Nom.connection (Inch)		4
dp max. load	bar	0.0155
dt max. load	K	0.100
2. Component: TUBH100-DIN Horizontal pipe		
Nom.connection (mm)		DN100
Nom.connection (Inch)		4
Pipe length	m	10.0
dp max. load	bar	0.00581
dt max. load	K	0.0377
Vel.max.load	m/s	7.23
3. Component: FID100-80-DIN Reducer		
Inlet connection		DN100
Outlet connection		DN80
dp max. load	bar	0.00469
dt max. load	K	0.0304
4. Component: BE80-5-90-DIN 90° Bend		
Nom.connection (mm)		DN80
Nom.connection (Inch)		3
dp max. load	bar	0.00359
dt max. load	K	0.0233
5. Component: BE80-3-90-DIN 90° Bend		
Nom.connection (mm)		DN80
Nom.connection (Inch)		3
dp max. load	bar	0.00415
dt max. load	K	0.0270



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6. Component: BE80-5-90-DIN 90° Bend

Nom.connection (mm)		DN80
Nom.connection (Inch)		3
dp max. load	bar	0.00360
dt max. load	K	0.0234

7. Component: TUBUP80-DIN Vertical pipe up

Nom.connection (mm)		DN80
Nom.connection (Inch)		3
Pipe length	m	2.00
dp max. load	bar	0.00840
dt max. load	K	0.0547
Vel.max.load	m/s	12.2

8. Component: BE80-5-90-DIN 90° Bend

Nom.connection (mm)		DN80
Nom.connection (Inch)		3
dp max. load	bar	0.00361
dt max. load	K	0.0235

9. Component: TUBH80-DIN Horizontal pipe

Nom.connection (mm)		DN80
Nom.connection (Inch)		3
Pipe length	m	1.00
dp max. load	bar	0.00207
dt max. load	K	0.0135
Vel.max.load	m/s	12.3

10. Component: FIU80-100-DIN Diffusor

Inlet connection		DN80
Outlet connection		DN100
dp max. load	bar	0.00144
dt max. load	K	0.00938



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11. Component: TUBH100-DIN Horizontal pipe		
Nom.connection (mm)		DN100
Nom.connection (Inch)		4
Pipe length	m	20.0
dp max. load	bar	0.0117
dt max. load	K	0.0766
Vel.max.load	m/s	7.29
12. Component: FIA100-150 angle-p Filter angle		
Nom.connection (mm)		DN100
Nom.connection (Inch)		4
dp max. load	bar	0.0301
dt max. load	K	0.197
13. Component: SVA100 straight Stop valve, straight		
Nom.connection (mm)		DN100
Nom.connection (Inch)		4
dp max. load	bar	0.0159
dt max. load	K	0.104