Specification Sheet

Project: 202610-2328

Date: 29/10/26

Contact:
Direct Line:

Plate & Frame Heat Exchanger

Version: 4.19.16 (20/1/4)

Item:	**Unit: F 2010-39-1-NH**

Technical data per HX		Hot side			Cold side	
Fluid		**Water**			**Water**	
Mass flow rate	[kg/s]	8.62			[kg/s]	8.63
Volume flow rate	[m³/h]	31.953			[m³/h]	31.725
Inlet temperature	[°C]	85.00			[°C]	60.00
Outlet temperature	[°C]	75.00			[°C]	70.00
Operating pressure	[barg]	2.00			[barg]	2.00
Physical properties		In	Out		In	Out
Dynamic viscosity	[cP]	0.333	0.378		0.468	0.404
Density	[kg/m³]	967.9	973.7		981.4	976.4
Specific heat capacity	[kJ/kgK]	4.181	4.176		4.173	4.174
Thermal conductivity	[W/mK]	0.655	0.651		0.645	0.649

P.H.E characteristic values

Heat duty	[kW]		360.00			
Eff. heat transfer area	[m²]		3.01			
Log./Effective temperature difference	[K]		15.00 / 15.00			
Heat transfer coeff. req./act.	[W/m²K]		7975 / 9303			
Fouling factor total	[m²K/W]		0.0000179			
Overdesign	[%]		16.66			
Pressure loss	[kPa]	23.632			[kPa]	22.256
Channel Velocity	[m/s]	0.83 / 1.27			[m/s]	0.80 / 1.24
Connection Velocity	[m/s]	4.01			[m/s]	3.98
No. of passes in series		1				1
No. of plates total			39			
Mix of Channeltype			11*HL + 8*LL			

Construction

Weight Dry/Wet		[kg]		approx. 120/126		
Volume		[dm³]	3.410			3.410
Design pressure		[barg]		10.0		
Max. working temperature		[°C]		110.00		
Material		DIN				
	Plates	AISI 316L / 1.4404 (0.50 mm)				
	Gaskets	NBR HT				
	Frame	S 355 J2+N (Pressure Plates), max. plates: 80, Extensibility 105%				
	Painting	Standard, RAL 5002, <= 150°C,				
Connection	Hot side	F1 => F4 : Threaded pipe, male, DN 50, Stainless steel, G 2"				
	Cold side	F3 => F2 : Threaded pipe, male, DN 50, Stainless steel, G 2"				
Design Code		AD-2000				
Inspection Code		PED 2014/68/EU				

Remark

Construction sheet

Project: 202610-2328

Date: 29/10/26

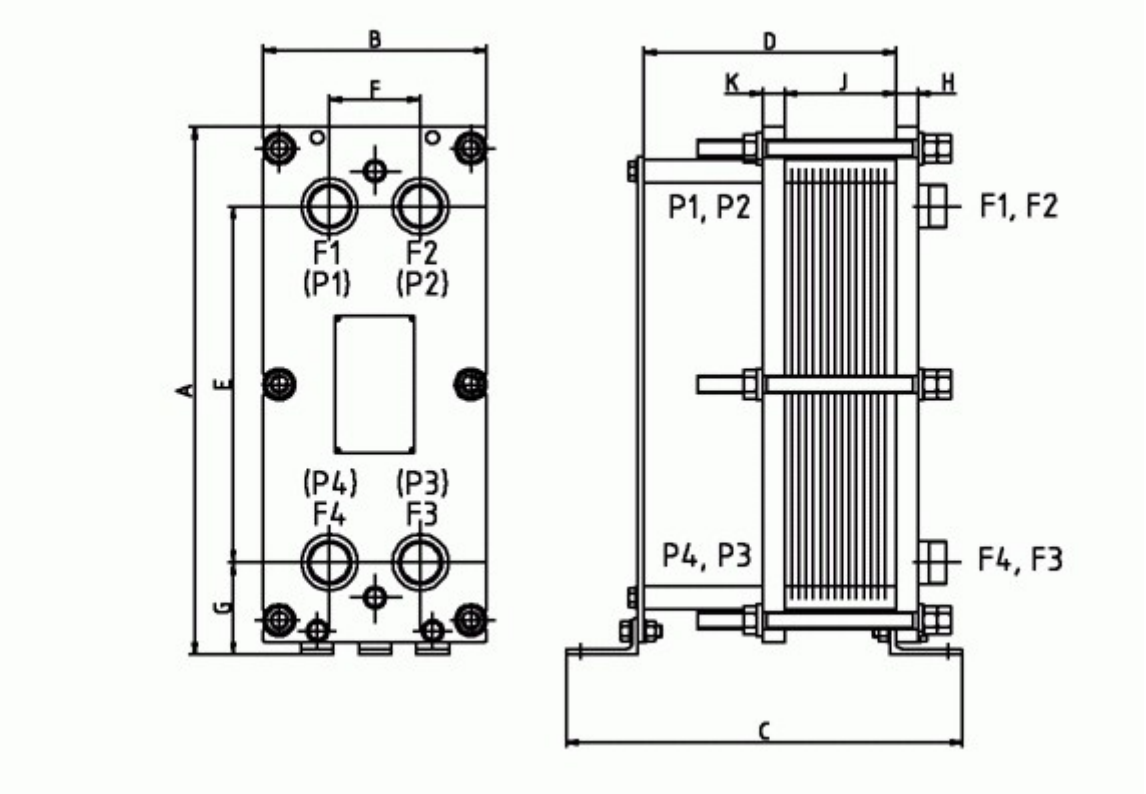
Contact:
Direct Line:

Plate & Frame Heat Exchanger

Version: 4.19.16 (20/1/4)

Item:	**Unit: F 2010-39-1-NH**

Dimensional sketch - not Certified



Dimensions [appr. mm, inch], max. no. of plates 80		**:mm**	**:inch**
A:	Total height	:732.5	:28.8
B:	Total width	:310	:12.2
C:	Total length	:588	:23.1
D:	Length of carrier bar	:495	:19.5
E:	Distance between connections, vertical	:494	:19.4
F:	Distance between connections,horizontal	:126	:5.0
G:	middlepoint of connection from the ground	:128	:5.0
H:	Thickness of frame plate	:20	:0.8
K:	Thickness of pressure plate	:20	:0.8
J:	Length of the plate-package	:113.1	:4.5

Connections

Hot side: F1 => F4 :
Threaded pipe, male,
DN 50, Stainless steel, G 2"

Cold side: F3 => F2 :
Threaded pipe, male,
DN 50, Stainless steel, G 2"

Preliminary Dimensions