

XC Series

Inline Heat Exchanger

PRODUCT DATA SHEET

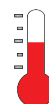
Ideal for one-pass cooling of chemicals dumping to waste stream!

Exceptionally clean performance

Leak free operation

Compact size

Extremely rugged construction



-50°C (-60°F) to 150°C (302°F)



- Tube (PFA): 172 kPa (25 PSIG) at 135°C (275°F)
- Shell (PP): 207 kPa (30 PSIG) at 82°C (180°F)
- Optional shell (PVDF): 207 kPa (30 PSIG) at 135°C (275°F)



- Tube: PFA
- Shell: PP
- Optional Shell: PVDF

FLUOROPOLYMER INLINE HEAT EXCHANGERS				
EXCHANGE AREA ft ² /(m ²)	LENGTH in/(mm)	DIA. in/(mm)	POLYPROPYLENE SHELL	PVDF SHELL
1.5 (0.14)	10 (254)	4.5 (115)	XCP1.5-***	XCK1.5-***
2.5 (0.23)	14 (356)	(229)	XCP2.5-***	XCK2.5-**
3.5 (0.33)	18.5 (470)	14	XCP3.5-***	XCK3.5-**

***Connections and drain specified.

**PROCESS
TECHNOLOGY**

ISO 9001:2015
WITH DESIGN CERTIFIED

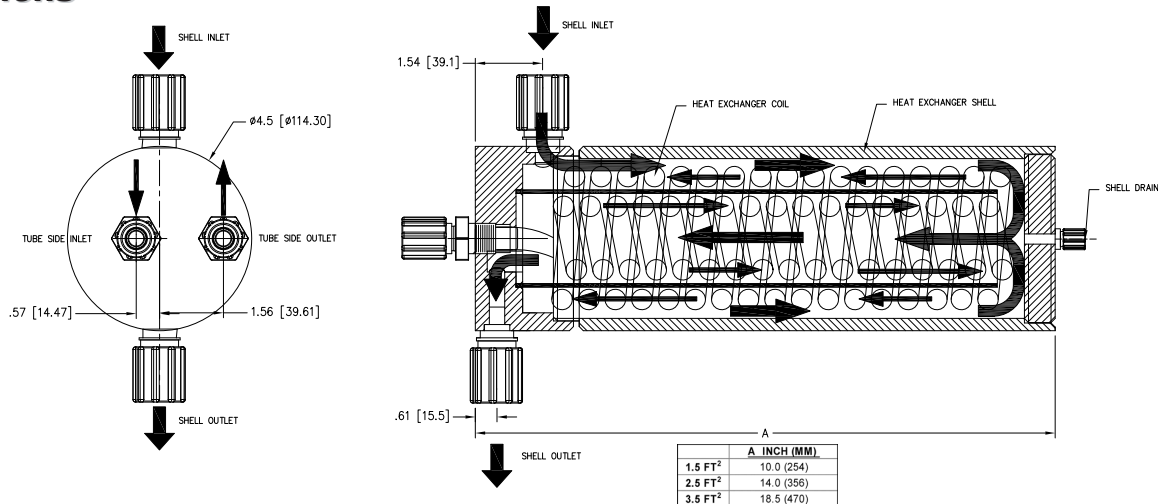
Features & Values

- Inline chemical heat exchanger with all fluoropolymer wetted surfaces (tubing side) for virtually any wet chemistry application.
- **Exceptionally Clean Performance:** Assembled and tested in a cleanroom environment to ensure the highest cleanliness and manufacturing standards
- **Leak Free Operation:** Integral inlet/outlet for single point fluid connections simplifies installation and greatly reduces the potential for chemical leaks.
- **Compact Size:** Less surface area required for same BTU exchange compared to most other fluoropolymer exchangers.
- **Extremely Rugged Construction:** Thick wall, welded construction provides extremely long service life.

Specifications

Sizes	<ul style="list-style-type: none"> .14m² (1.5 ft²) of exchange area .23m² (2.5 ft²) of exchange area .33m² (3.5 ft²) of exchange area
Standard Features	<ul style="list-style-type: none"> 13mm (1/2") PFA tubing, .76mm (.030") thick All welded construction (shell) 114mm (4.5") diameter polypropylene or PVDF shell Internally baffled for enhanced heat exchanger performance "U" factor (depending on flow rate): 142-284 J/(s x m² x °C) = 25-50 BTU/(hr. x ft² x °F) Shell-side drain connection
Fluid Connections	Tube, Shell, & Drain: Flared connections standard, choose sizes and other options when ordering.
Maximum Pressure/ Temperature	<ul style="list-style-type: none"> Tube (PFA): 172 kPa (25 PSIG) at 135°C (275°F) Shell (PP): 207 kPa (30 PSIG) at 82°C (180°F) Optional shell (PVDF): 207 kPa (30 PSIG) at 135°C (275°F)
Options	<ul style="list-style-type: none"> 6.4mm (1/4") to 19mm (3/4") Super 300 Pillar Type® connections Custom sizes based on application Heavy-wall PFA tubing, 15.7mm (.062") thick 121mm (4.75") PTFE shell

Dimensions



Model Number Breakdown

XC	P	1.5	A	C	A	
Series	Material	Exchanger Area	A Circuit Connection (Tube)	B Circuit Connections (Shell)	Drain Connection	Options
XC	P = Polypro Chamber	1.5 = 1.5 ft ²	A = 1/2" Flared	A = 1/2" Flared	A = 1/2" Flared	THK = .062" wall exchanger tubing
	K = Kynar PVDF Chamber	2.5 = 2.5 ft ²	B = 3/4" Flared	B = 3/4" Flared	B = 3/4" Flared	SS = 316SS FNPT union half
		3.5 = 3.5 ft ²	C = 1" Flared	C = 1" Flared	C = 1" Flared	P = PFA Ferrule (standard is PVDF)
			S = 3/8" Flared	D = 3/8" FNPT (via union)	S = 3/8" Flared	
			T = 3/8" Super 300 Pillar	F = 1/2" FNPT (via union)	T = 3/8" Super 300 Pillar	
			V = 1/2" Super 300 Pillar	S = 3/8" Flared	V = 1/2" Super 300 Pillar	
			W = 3/4" Super 300 Pillar	T = 3/8" Super 300 Pillar	W = 3/4" Super 300 Pillar	
				V = 1/2" Super 300 Pillar	Y = 1/4" Super 300 Pillar	
				W = 3/4" Super 300 Pillar	Z = 1/4" Flared	
				O = 3/8" Pipe size stub	No drain = Blank	

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