DATA SHEET

# PROCESS TECHNOLOGY.

## **XC** Inline Exchanger

With a PFA tube-side fluid path the XC Series will meet the most stringent cleanliness requirements to support the next generation semiconductor node technologies.



### FEATURES

#### Advanced Cleanliness

Chemistry fluid path made from high grade PFA, PTFE or PVDF components

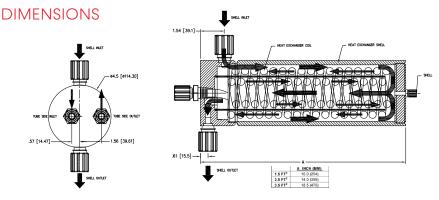
No wetted o-ring seals eliminates source for contamination Assembled and tested in clean-room environment

#### Low Mass Heat Exchanger

Enables faster temperature response Allows for precise and stable temperature control

#### Compact Design

Reduces tool design space requirements Facilitates retrofitting of existing tools Simplifies manufacturing complexity



### APPLICATIONS

Semiconductor wafer cleaning

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# **XC** In-line Exchanger

#### **SPECIFICATIONS**

Sizes	.14m² (1.5 ft²) of exchange area				
	.23m² (2.5 ft²) of exchange area				
	.33m² (3.5 ft²) of exchange area				
Standard Features	13mm (0.5 inch) PFA tubing, 0.76mm (0.030 inch) wall thickness				
	All welded construction (shell)				
	114mm (4.5 inch) 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 ft2x F)				
	Shell-side drain connection				
Fluid Connections	Tube, Shell, & Drain: Flared connections standard, choose sizes and other options when ordering				
Maximum Pressure/	PFA Tubing: 172kPa (25 PSI) at 135°C (275°F)				
Temperature	Polypro Shell: 207kPa (30 PSI) at 82°C (180°F)				
	PVDF Shell: 207kPa (30 PSI) at 135°C (275°F)				
Options	6.4mm (0.25 inches) 19mm (0.75 inch) Super 300 Pillar Type connections				
	Custom sizes based on application				
	Heavy-wall PFA tubing, 15.7mm (0.062 inch) wall thickness				
	121mm (4.75 inches) PTFE shell				

#### MODEL NUMBER BREAKDOWN

XC		Р		1.5	ŀ.	А	С	А	-
									l
Serie	s	Material		Exchanger Area	-	A Circuit Connection (Tube)	B Circuit Connections (Shell)	Drain Connection	- Options
хс	P = Po	ypro Chambe	r :	1.5 = 1.5 ft2	11	A = 1/2" Flared	A = 1/2" Flared	A = 1/2" Flared	THK = .062" wall exchanger tubing
	K = Kyı	nar PVDF Char	nber 🛛	2.5 = 2.5 ft2	1 [	B = 3/4" Flared	B = 3/4" Flared	B = 3/4" Flared	SS = 316SS FNPT union half
			3	3.5 = 3.5ft2	11	C = 1" Flared	C = 1" Flared	C = 1" Flared	P = PFA Ferrule (standard is PVDF)
			_		1	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	
					ſ	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	
FLUOROPOLYMER INLINE HEAT EXCHANGERS							W = 3/4" Super 300 Pillar	Z = 1/4" Flared	
	LENGTH DIA. in/(mm) in/(mm	POLYPROPYLENE SHELL	PVDF SHELL				O = 3/8" Pipe size stube	No drain = Blank	]
1.5 (0.14)	10 4.5 (254) (115)	XCP1.5-***	XCK1.5-***						
2.5 (0.23)	14 (356) (229)	XCP2.5-***	XCK2.5-**						
(0120)		1	-						

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XCP3.5-\*\*\*

XCK3.5-\*\*