

IMMERSION COILS

Minicoil FEP and Q-Series Heat Exchangers

Niche Minicoil Heat Exchangers made with fluorocarbon resins are used primarily in small metal finishing baths where corrosion is often a problem. The chemically inert, well-known nonstick characteristics of fluoropolymers resist corrosion and fouling, and minimize scale buildup. The inherently high electrical resistance also helps prevent short circuits and stray currents in the plating baths.

Niche offers 12 Minicoil Heat Exchanger models designed specifically for plating bath applications.

Minicoils

Nominal Size (in)	Tubes per Unit	Tube O.S. Diameter	Tube Wall Thickness
12	1 or 2	0.25 in (6.4 mm)	0.025 in (0.64 mm)
15 and 18	3 or 4	0.312 in (7.9 mm)	0.025 in (0.64 mm)

Heat Transfer Area

Size (in)	Number of Tubes	Area FT ²	Area M ²
12	1	2.1	0.195
12	2	4.2	0.39
15	3	4.5	0.42
15	4	6.0	0.56
18	3	7.5	0.70
18	4	10.0	0.93

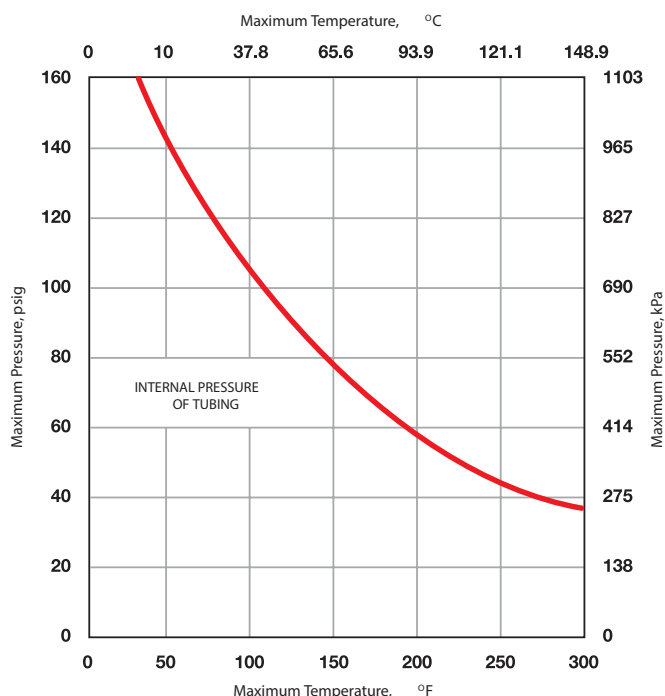
Model Number

EXAMPLE: 12 F 1			
12	NOMINAL FRAME SIZE (actual width is 1/2" less)	12 inches	
		15 inches	
		18 inches	
F	TUBING MATERIAL	F = FEP	
		Q = Q-Tubing	
		P = PFA	
1	NUMBER OF TUBES PER UNIT	1 OR 2 = 12 inch models	
		3 OR 4 = 15 and 18 inch models	

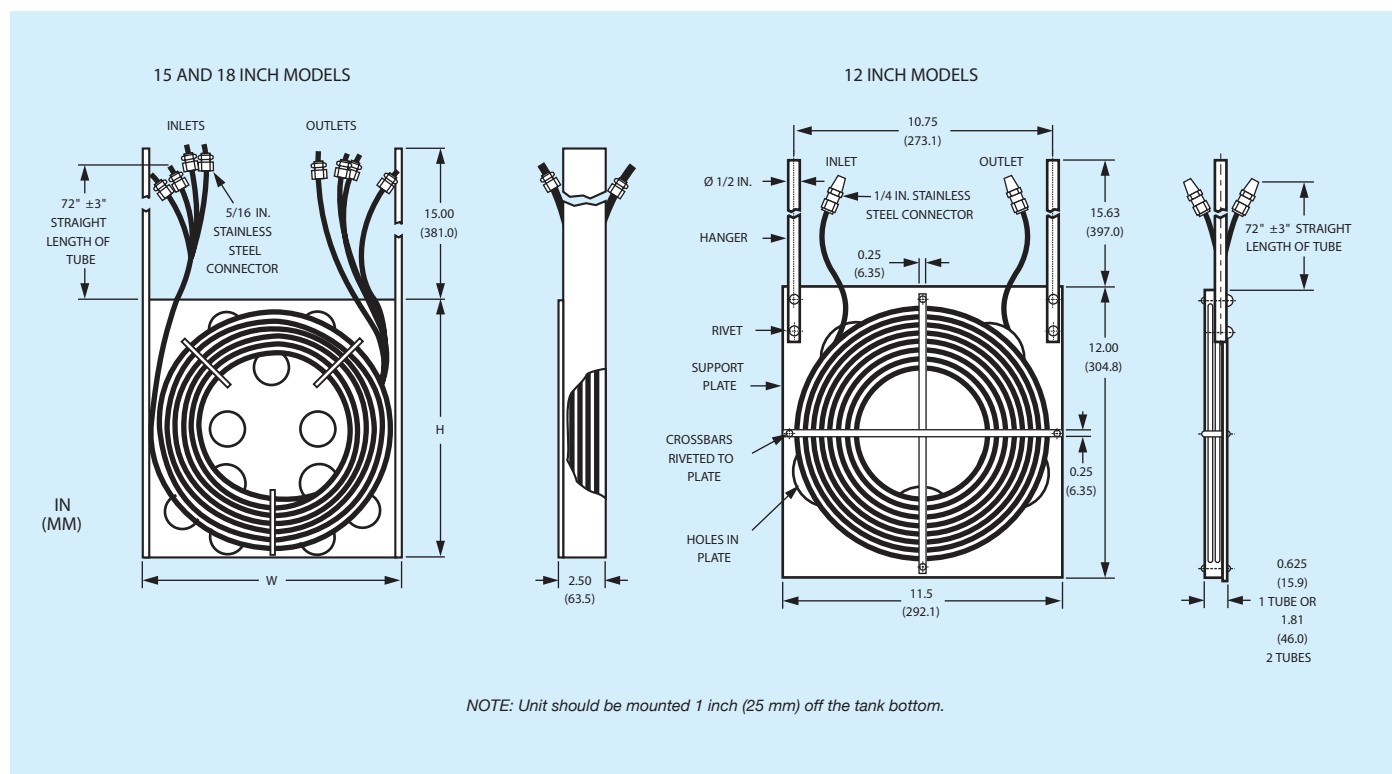
NOTE: Standard Frame for 12 inch is PTFE plate. Standard Frame for 15 and 18 inch is CPVC for FEP tubing, and PP for Q-Tubing.



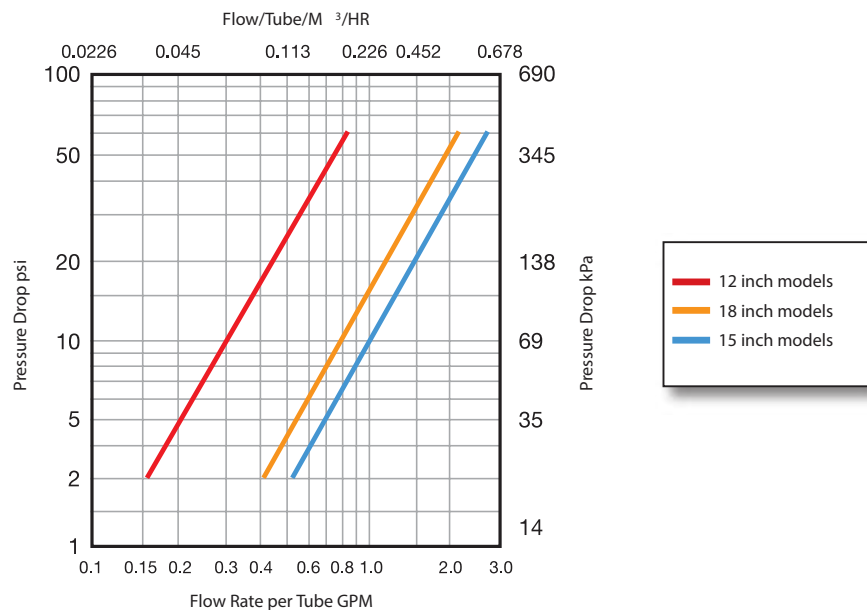
Operation Limits



Dimensions



Tube Pressure Drop



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Fluoropolymer resins are generally considered inert to most chemicals. Under certain conditions of pressure and temperature, or combinations of chemicals, fluoropolymer tubing should not be used. Please contact Niche for discussion of your specific process to be certain that our products are appropriate for your intended use.

Adequate ventilation should be used where fluoropolymers are heated during tube repairs. Flu-like symptoms occur from exposure to vapors evolved from fluoropolymers at very high temperatures, up to 800F or from smoking materials that contain particles of fluoropolymers. Symptoms pass within 48 hours and are only adverse effects observed in humans to date. Unheated fluoropolymers are essentially inert and are nonirritating to the skin.

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