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IMMERSION COILS



Slimline Coil™ Model D 500 & QD 500 Heat Exchangers

Niche Slimline Coil™ Fluoropolymer Heat Exchangers are widely used in the metal finishing and chemical processing industries, and are especially suited to batch and continuous steel pickling applications. The inherent non-stick characteristics of fluoropolymer resins resist corrosion and fouling, extend heat exchanger service life, and improve value-in-use through savings in plant maintenance costs.

Niche Q-Series Slimline Coil™ Heat Exchangers are constructed from a proprietary resin compound that improves durability, and pressure and temperature capabilities over conventional coils—high performance that enables Niche Q-Series Slimline Coils to handle many steam heating applications without desuperheating. In metal processing, high efficiency Niche Slimline Coil Heat Exchangers also save energy, reduce waste, and cut processing costs by minimizing acid consumption and spent pickle liquor disposal.

Niche Slimline Coil Heat Exchangers are available in Q-Series as well as FEP, in U-shape as well as straight configurations ranging in lengths from 4 to 16 feet (1.2 to 4.9 m).

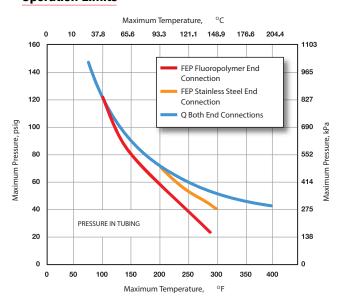
Contact an Niche representative for chemical resistance data on your application.

Model Number

EVANDLE OD C 500 CM 0 10 2								
EXAMI	EXAMPLE: Q D C 500 SM 8 10 2							
Q	RESIN TYPE	(blank) = FEP						
Q	RESINTIPE	Q = PFA/Graphite						
D	SLIMLINE COIL							
(SUPPORT RODS	(blank) = Carbon Steel						
	(TEFLON COATED)	C = Stainless Steel						
500	MODEL NUMBER							
	END CONNECTIONS	S = Stainless Steel						
SM		T = TEFLON® Type						
		SM = SS/Metric						
8	GENERATION							
10	NOMINAL LENGTH (FT.)							
	COIL CONFIGURATION	0-12 = H dimension (0-12 ft)						
		SS = Straight coil, side-mounted						
2		SB = Straight coil, bottom- mounted						
		U = Tight "U"						



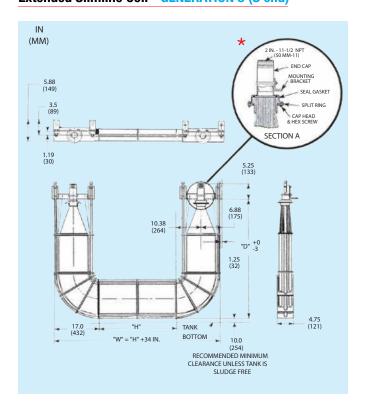
Operation Limits



Specifications

Description	Spec		
Heat Transfer Area	49 to 245 ft² (4.6 to 22.8 m²)		
Tube Outside Diameter	.125 inch (3.175 mm)		
Tube Wall Thickness	.0125 inch (.3175 mm)		
Average Heat Transfer Coefficent Q	60-100 BTU/Hrft.2-°F (293-488 Kcal/Hrm2-°C)		
Average Heat Transfer Coefficient FEP, PFA	30-50 BTU/Hrft.2-°F (146-244 Kcal/Hrm2-°C)		

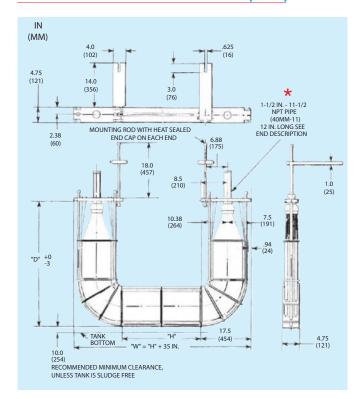
Extended Slimline Coil - GENERATION 8 (S end)



Heat Transfer Area

LENGTH	AREA			
ft	ft²	m²		
4	49.1	4.6		
6	81.8	7.6		
8	114.5	10.6		
10	147.2	13.7		
12	179.9	16.7		
14	212.0	19.8		
16	245.3	22.8		

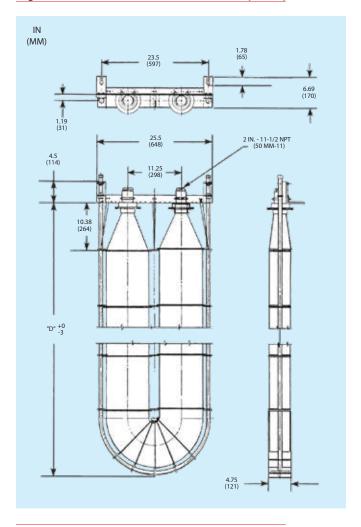
Extended Slimline Coil - GENERATION 8 (T end)



Extended Slimline Coils

NOM.	H DIMENSION												
LENGTH	0	1	2	3	4	5	6	7	8	9	10	11	12
ft	D DIMENSION, +O IN -3 IN												
5	3 ft 2.25 in	2 ft 8.25 in											
6	3 ft 5.25 in	2 ft 11.25 in	2 ft 5.25 in										
7	3 ft 11.25 in	3 ft 5.25 in	2 ft 11.25 in	2 ft 5.25 in									
8	4 ft 5.25 in	3 ft 11.25 in	3 ft 5.25 in	2 ft 11.25 in	2 ft 5.25 in								
10	5 ft 5.25 in	4 ft 11.25 in	4 ft 5.25 in	3 ft 11.25 in	3 ft 5.25 in	2 ft 11.25 in	2 ft 5.25 in						
12	6 ft 5.25 in	5 ft 11.25 in	5 ft 5.25 in	4 ft 11.25 in	4 ft 5.25 in	3 ft 11.25 in	3 ft 5.25 in	2 ft 11.25 in	2 ft 5.25 in				
14	7 ft 5.25 in	6 ft 11.25 in	6 ft 5.25 in	5 ft 11.25 in	5 ft 5.25 in	4 ft 11.25 in	4 ft 5.25 in	3 ft 11.25 in	3 ft 5.25 in	2 ft 11.25 in	2 ft 5.25 in		·
16	8 ft 5.25 in	7 ft 11.25 in	7 ft 5.25 in	6 ft 11.25 in	6 ft 5.25 in	5 ft 11.25 in	5 ft 5.25 in	4 ft 11.25 in	4 ft 5.25 in	3 ft 11.25 in	3 ft 5.25 in	2 ft 11.25 in	2 ft 5.25 in

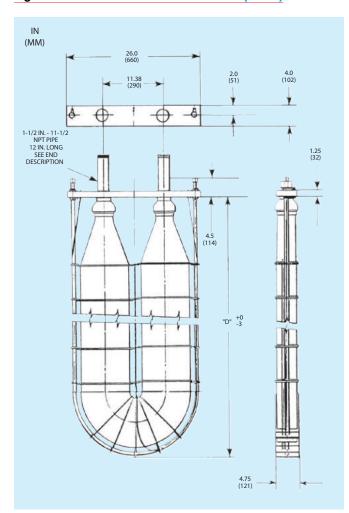
Tight "U" Slimline Coil - GENERATION 8 (S end)



Tight "U" Slimline Coil - GENERATION 8 (S end)

LENCTH 4	D DIMENCION
LENGTH, ft	D DIMENSION
5	3 ft 0.5 in
6	3 ft 6.5 in
7	4 ft 0.5 in
8	4 ft 6.5 in
10	5 ft 6.5 in
12	6 ft 6.5 in
14	7 ft 6.5 in
16	8 ft 6.5 in

Tight "U" Slimline Coil - GENERATION 8 (T end)

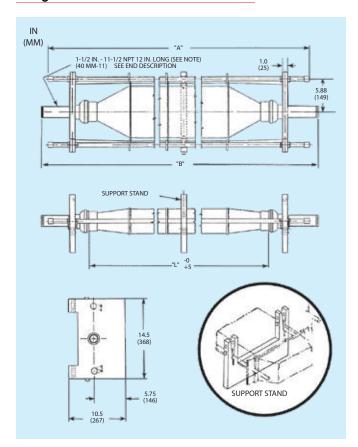


Tight "U" Slimline Coil - GENERATION 8 (T end)

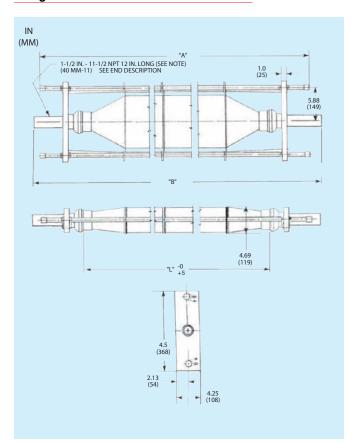
LENGTH, ft	D DIMENSION
5	3 ft 1.75 in
6	3 ft 7.75 in
7	4 ft 1.75 in
8	4 ft 7.75 in
10	5 ft 7.75 in
12	6 ft 7.75 in
14	7 ft 7.75 in
16	8 ft 7.75 in

^{*} Important Connection Note: The 12 inch welded pipe shown as "T" end hardware is standard only for units produced from Q tubing (QD500T-). Units produced from FEP tubing (D500T-) are supplied with 1-1/2 inch NPT female threads in the endbell.

Straight Slimline Coil - GENERATION 8-SB



Straight Slimline Coil - GENERATION 8-SS



Straight Slimline Coils

LENGTH	QE	No. of Support		
ft	A	В	L	Stands Required
4	5 ft 8.25 in	6 ft 11.0 in	4 ft 5.0 in	0
5	6 ft 8.25 in	7 ft 11.0 in	5 ft 5.0 in	0
6	7 ft 8.5 in	8 ft 11.0 in	6 ft 5.0 in	0
7	8 ft 8.25 in	9 ft 11.0 in	7 ft 5.0 in	1
8	9 ft 8.25 in	10 ft 11.0 in	8 ft 5.0 in	1
10	11 ft 8.25 in	12 ft 11.0 in	10 ft 5.0 in	1
12	13 ft 8.25 in	14 ft 11.0 in	12 ft 5.0 in	2
14	15 ft 8.25 in	16 ft 11.0 in	14 ft 5.0 in	2
16	17 ft 8.25 in	18 ft 11.0 in	16 ft 5.0 in	2



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FAX: +1 570-645-6950 www.nichefpp.com E-mail: info@nichefpp.com 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 Symptoms pass within 48 hours and are only adverse effects observed in humans to date.

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.

temperatures, up to 800F or from smoking materials that contain particles of fluoropolymers. Unheated fluoropolymers are essentially inert and are nonrritating to the skin.

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