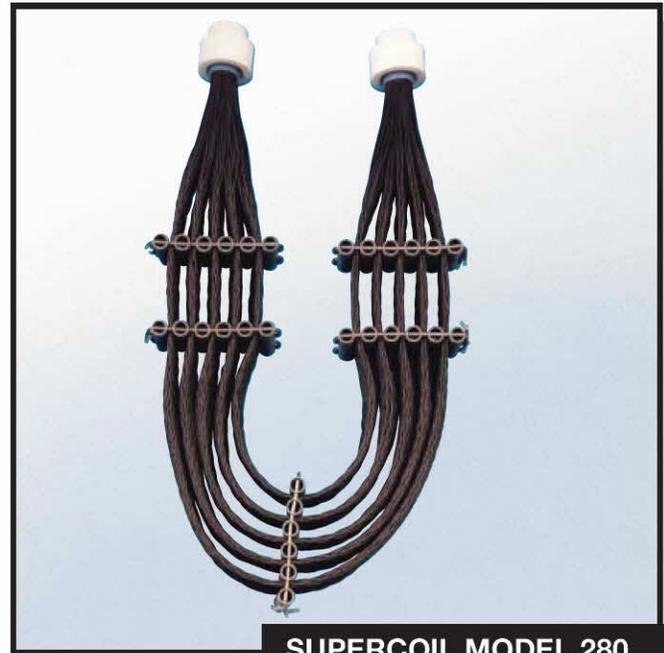


# Supercoil Models 100, 168, 280 FEP and Q-Series

## FEATURES

AMETEK Supercoil Heat Exchangers are high efficiency immersion coils designed for heating and cooling a wide range of metal finishing solutions. Applications include: electroplating, electroforming and electroless plating baths; acidic and alkaline solutions for etching, chemical milling, anodizing, cleaning, stripping, electropolishing and other similar operations. The well-known non-stick characteristics of fluoropolymer resins resist corrosion and fouling, and its high electrical resistance minimizes the effects of stray currents in electroplating tanks.

Supercoils are available in FEP as well as in proprietary Q-Series tubing formulations. Q-Series coils are made using a special fluorocarbon compound that significantly improves thermal efficiency and increases temperature and pressure capabilities. Q-Series Supercoils are ideal for most metal finishing operations, particularly those involving electroless nickel and copper plating.



**SUPERCOIL MODEL 280**

## PRODUCT DESCRIPTION

<b>Tube Outside Diameter</b>	0.10 inch (2.54 mm)
<b>Tube Wall Thickness</b>	0.01 inch (.254 mm)
<b>Average Heat Transfer Coefficient Q</b>	80 to 120 BTU/Hr.-ft. <sup>2</sup> -°F (454 to 682 watts/m <sup>2</sup> -°K)
<b>Average Heat Transfer Coefficient FEP</b>	40 to 60 BTU/Hr.-ft. <sup>2</sup> -°F (227 to 341 watts/m <sup>2</sup> -°K)

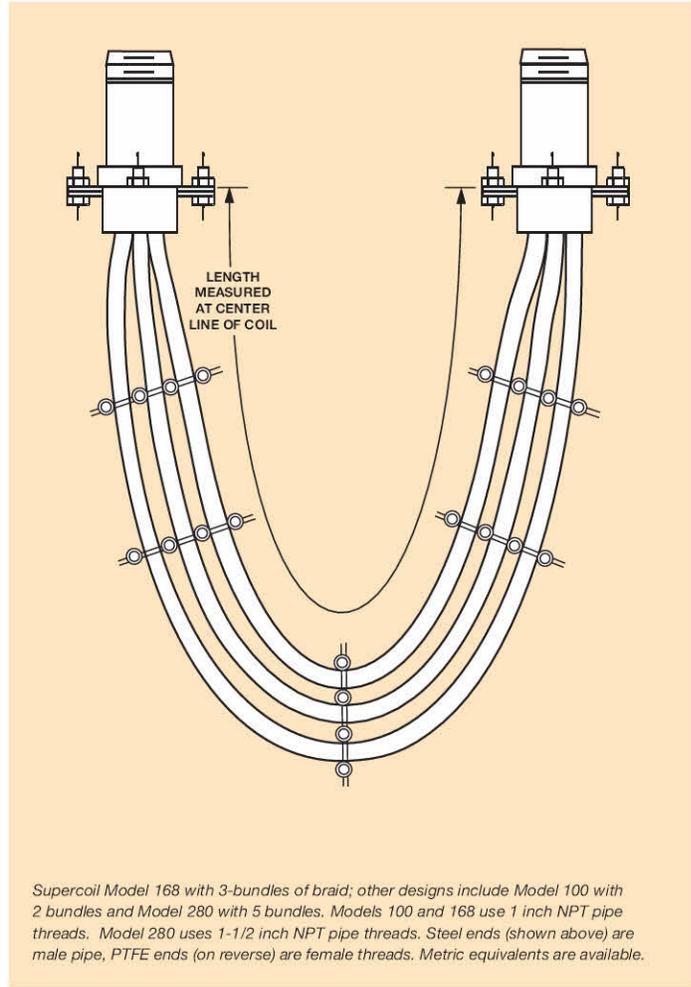
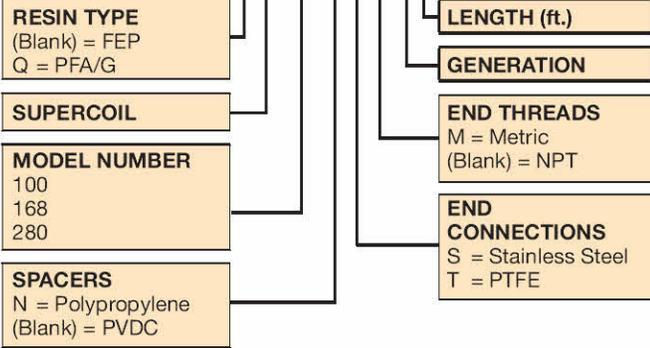
## HEAT TRANSFER AREA

100		168		280		LENGTH* ft.
AREA ft <sup>2</sup>	m <sup>2</sup>	AREA ft <sup>2</sup>	m <sup>2</sup>	AREA ft <sup>2</sup>	m <sup>2</sup>	
6.5	(0.6)	11.0	(1.0)	18.3	(1.7)	3
9.2	(0.9)	15.4	(1.4)	25.7	(2.4)	4
11.8	(1.1)	19.8	(1.8)	33.0	(3.1)	5
14.4	(1.3)	24.2	(2.2)	40.3	(3.7)	6
		28.6	(2.7)	47.6	(4.4)	7
		33.0	(3.1)	55.0	(5.1)	8
		37.4	(3.5)	62.3	(5.8)	9
		41.8	(3.9)	69.6	(6.5)	10
		46.2	(4.3)	77.0	(7.2)	11
		50.6	(4.7)	84.3	(7.8)	12
		55.0	(5.1)	91.6	(8.5)	13
		59.4	(5.5)	99.0	(9.2)	14
		63.8	(5.9)	106.3	(9.9)	15
		68.2	(6.3)	113.6	(10.6)	16

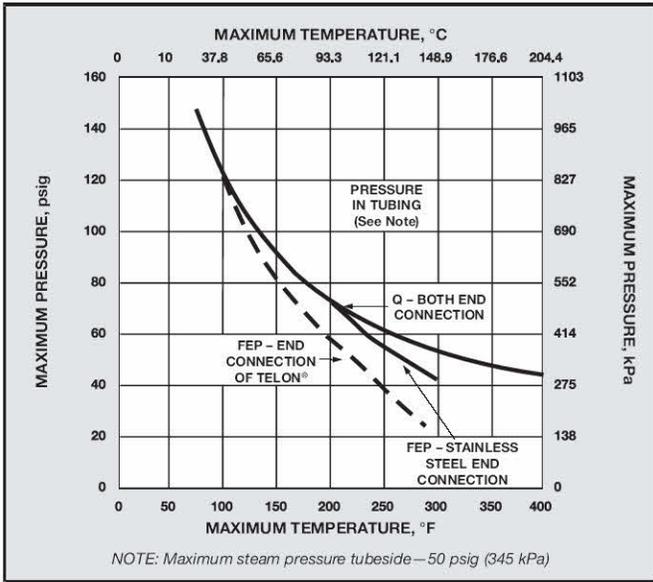
\* As measured at center line of coil

# MODEL 168 SUPERCOIL

## NOMENCLATURE Q-M-280-N-S-M-4-8



## OPERATING LIMITS



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 AMETEK 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 may occur from exposure to vapors evolved from fluoropolymers at very high temperatures, up to 800°F or from smoking materials that contain particles of fluoropolymers. Symptoms pass within 48 hours and are the only adverse effects observed in humans to date. Unheated fluoropolymers are essentially inert and are nonirritating to the skin.

This information set forth herein is furnished free of charge and is based on technical data which AMETEK believes to be reliable. It is intended for use by persons having technical skill and at their own discretion and risk. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with your use of this information. Nothing herein is to be taken as a license to operate under or a recommendation to infringe any patents.



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