

HC Series

PRODUCT DATA SHEET

Immersion Coil

Designed for the high demands of corrosive chemical heating or cooling

For use in most alkaline or acid solutions

Custom designed to your specifications

Multi-layer coils

L-shaped configurations for bottom heating applications





316 stainless steel, Zirconium, Hastelloy C and Titanium



100 PSI working pressure (steam or water)







Features & Values

- Wide variety of materials available for use in heating or cooling applications for alkaline or acid solutionsand rinse tanks. Check solution guide or consult with your chemical supplier for proper sheath material
- Heavy wall, 18 gauge metal tubing available in steel, 316 stainless steel and titanium
- 1" diameter tubing and 1" MNPT connection fittings standard
- Single point connections reduce the potential for leaks and simplify installation
- ➤ Tubing sizes: ¾ inch diameter through 1¼ inch diameter
- Helical sizes: From 3¼ inch to 10 ft. diameter available based on tube diameter and wall thickness
- > Wall thickness: .035 through .065 inches

Specifications

Options

- Mounting Hangers
- L-shaped configurations for bottom heating applications.
- Heavier gauge tubing or pipe
- Zirconium, Hastelloy C and other alloys available
- Vacuum Breakers
- Special riser sizes, fittings, lengths, and configurations
- Non-conductive isolator couplings

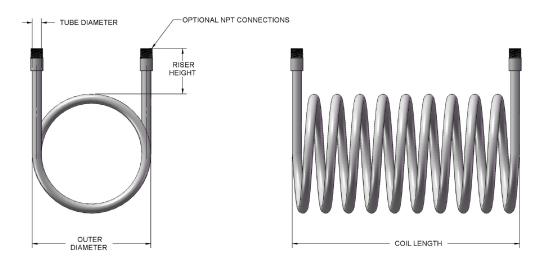
Safety Features

 Single point connections reduce the potential for leaks and simplify installation.

Pressure

100 PSI working pressure (steam or water)

Dimensions



Model Number Breakdown

SHC		3			
1	I	I			
Series	Exchange Area	Outside Diameter	Coiled Length	Inlet/Outlet	Riser Height
PHC = Steel	Specify in square feet Ex: 5 = 5 ft²	Specify in inches Ex: '-23 = 23"	Specify in inches Ex: '-24 = 24"	A = 3/4" MNPT	-R = Riser height Ex: '-R16 = 16" riser height
SHC = 316 Stainless Steel				B = 1" MNPT (standard)	
HHC = Hastelloy C®				C = 1-1/4" MNPT	
ZHC = Zirconium				D = 1-1/2" MNPT	
	-			F = 1/2" FNPT	
				G = 3/4" FNPT	
				H = 1" FNPT	
				J = 1/2" MNPT	



HEAT EXCHANGERS



	UC SERIES, U COILS									
EXCHANGE						SHIP				
AREA	DEPTH	WIDTH	STEEL	316 SS	TITANIUM	WGT.				
(Sq. Ft.)	In./(mm)	In./(mm)				Lbs./(kg)				
.75	18 (457)	12 (305)	UC18P	UC18S	UC18T	3 (1.4)				
1.00	24 (610)	12 (305)	UC24P	UC24S	UC24T	4 (1.8)				
1.25	30 (762)	12 (305)	UC30P	UC30S	UC30T	5 (2.3)				
1.50	36 (914)	12 (305)	UC36P	UC36S	UC36T	6 (2.7)				
1.75	42 (1067)	12 (305)	UC42P	UC42S	UC42T	7 (3.2)				
2.00	48 (1219)	12 (305)	UC48P	UC48S	UC48T	8 (3.6)				
2.25	54 (1372)	12 (305)	UC54P	UC54S	UC54T	9 (4.1)				
2.50	60 (1524)	12 (305)	UC60P	UC60S	UC60T	10 (4.5)				

1/2", 5/8", 3/4", and 1-1/4" tubing available, consult factory.

UC Series Features and Benefits

SUPERIOR CHEMICAL RESISTANCE:

 Wide variety of materials available for use in heating or cooling applications for alkaline or acid solutions and rinse tanks. Check solution guide or consult with your chemical supplier for proper sheath material.

RUGGED CONSTRUCTION:

- Heavy wall, 18-gauge metal tubing available in steel, 316 stainless steel, and titanium.
- 1" diameter tubing.
- ♦ 1" MNPT fittings standard.

LONG LASTING PERFORMANCE:

 One-inch thick, low profile design. Every inch of coil surface is active exchange area. Ideal for small tanks with low heat exchange requirements.

LEAK-FREE OPERATION:

 Single point connections reduce the potential for leaks and simplify installation. One-inch MNPT connections standard.

HIGH PRESSURE RATING:

100 PSI working pressure (steam or water).

SIZES:

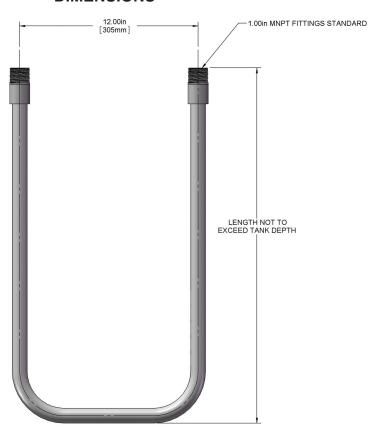
 .75 square ft. to 2.5 square ft. of exchange area standard.

OPTIONS AVAILABLE (consult factory):

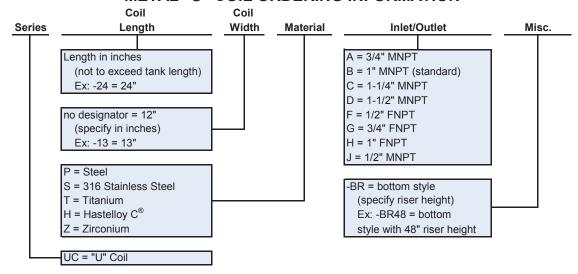
- Special configurations and lengths.
- Heavier gauge tubing
- ♦ Zirconium, Hastelloy C[®], and other alloys available.
- Fluoropolymer coatings for corrosion protection at solution/atmospheric interface.
- Non-conductive isolator couplings.
- L-shaped configurations for bottom heat applications.
- Higher pressure ratings available.
 - *Hastelloy C^{\circledR} is a registered trademark of Haynes International, Inc.



DIMENSIONS



METAL "U" COIL ORDERING INFORMATION



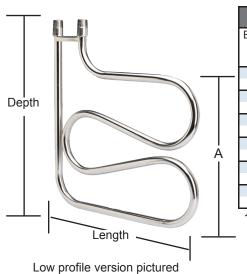
ORDERING EXAMPLE:

UC-35T-BB-BR12

U-coil, 36" horizontal length, titanium, 1" inlet/outlet, bottom style with 12" riser.



HEAT EXCHANGERS



			SP SERI	ES, SEF	RPENTINE	COILS		
Γ	EXCHANGE			NO. OF				SHIP
	AREA	LENGTH	DEPTH	PASSES	STEEL	316 SS	TITANIUM	WGT.
L	(Sq. Ft.)	In./(mm)	In./(mm)					Lbs./(kg)
_[2.6	24 (610)	36 (914)	4	SP4-24P-R*	SP4-24S-R*	SP4-24T-R*	10 (4.5)
L	3.6	36 (914)	36 (914)	4	SP4-36P-R*	SP4-36S-R*	SP4-36T-R*	12 (5.4)
	4.6	48 (1219)	36 (914)	4	SP4-48P-R*	SP4-48S-R*	SP4-48T-R*	14 (6.4)
L	5.7	60 (1524)	36 (914)	4	SP4-60P-R*	SP4-60S-R*	SP4-60T-R*	16 (7.3)
	7.3	78 (1981)	36 (914)	4	SP4-78P-R*	SP4-78S-R*	SP4-78T-R*	20 (9.1)
L	8.8	96 (2438)	36 (914)	4	SP4-96P-R*	SP4-96S-R*	SP4-96T-R*	24 (10.9)
	3.5	20 (508)	48 (1219)	6	SP6-20P-R*	SP6-20S-R*	SP6-20T-R*	12 (5.4)
L	4.8	30 (762)	48 (1219)	6	SP6-30P-R*	SP6-30S-R*	SP6-30T-R*	14 (6.4)
Г	6.1	40 (1016)	48 (1219)	6	SP6-40P-R*	SP6-40S-R*	SP6-40T-R*	17 (7.7)
L	7.4	50 (1270)	48 (1219)	6	SP6-50P-R*	SP6-50S-R*	SP6-50T-R*	20 (9.1)
	8.7	60 (1524)	48 (1219)	6	SP6-60P-R*	SP6-60S-R*	SP6-60T-R*	24 (10.9)
L	10	70 (1778)	48 (1219)	6	SP6-70P-R*	SP6-70S-R*	SP6-70T-R*	27 (12.2)

1/2", 5/8", and 3/4" tubing also available, consult factory.

SP Series Coils Features and Benefits

SUPERIOR CHEMICAL RESISTANCE:

 Wide variety of materials available for use in heating or cooling applications for alkaline or acid solutions and rinse tanks. Check solution guide or consult with your chemical supplier for proper sheath material.

RUGGED CONSTRUCTION:

- Heavy wall, 18 gauge metal tubing available in steel, stainless steel and titanium.
- 1" diameter tubing and 1" MNPT connection fittings standard.

OUTSTANDING PERFORMANCE:

- Low profile design for installation in tanks with limited space. (except zirconium material)
- Offers low cost for heating surface area.
- Every inch of coil surface is active exchange area.

LEAK-FREE OPERATION:

• Single point connections reduce the potential for leaks and simplify installation.

SIZES:

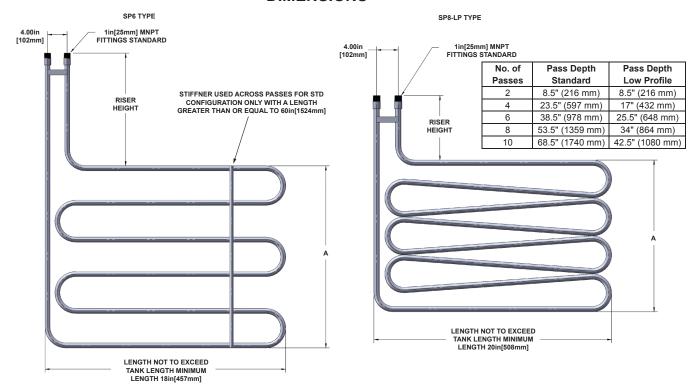
 2.6 square ft. to 10 square ft. of exchange area standard for 4-pass and 6-pass designs.

OPTIONS AVAILABLE (consult factory):

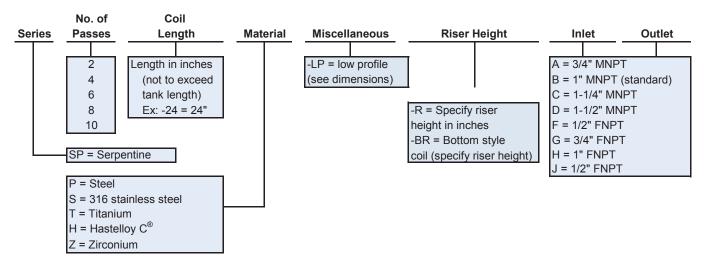
- Mounting hangers
- ♦ Special sizes in 2, 8 or 10-pass configurations.
- Heavier gauge tubing.
- Other riser lengths and configurations.
- ♦ Zirconium, Hastelloy C[®], and other alloys available.
- Fluoropolymer coatings for protection at solution/ atmospheric interface.
- Non-conductive isolator couplings.
- High pressure ratings availble (consult factory).



DIMENSIONS



METAL SERPENTINE COIL ORDERING INFORMATION



ORDERING EXAMPLE:

SP4-48T-LP-R22-BB

Serpentine coil, 4 passes, 48" length, titanium, low profile configuration, 22" risers, 1" inlet, 1" outlet.





G series

PRODUCT DATA SHEET

Immersion Coil

Designed for the high demands of corrosive chemical heating or cooling

For use in most alkaline or acid solutions

Vertical or horizontal configurations

Every inch of coil surface is active exchange area

2-inch thick, low profile design





316 stainless steel, Zirconium, Hastelloy C and Titanium



4.6 square foot to 89.9 square foot of exchange area



100 PSI working pressure (steam or water)

					G SERII	ES, GRID	COIL	.S						
	12" WIDTI	H (8 TUBES)				18" WIDTH	(12 TUBES	3)			24" WIDTH (16 TUBES	5)	
VERTICAL	HORIZONTAL	LENGTH	MODEL	SHIP	VERTICAL	HORIZONTAL	LENGTH	MODEL	SHIP	VERTICAL	HORIZONTAL	LENGTH	MODEL	SHIP
SQUARE FEET	SQUARE FEET	In./(mm) 24	NUMBER	Lbs/(kg) 12	SQUARE FEET	SQUARE FEET	In./(mm) 24	NUMBER	Lbs/(kg) 15	SQUARE FEET	SQUARE FEET	In./(mm) 24	NUMBER	Lbs/(kg) 19
4.5	3.8	(610)	*8G-24	(5.4)	6.8	5.6	(610)	*12G-24	(6.8)	9.1	7.5	(610)	*16G-24	(8.6)
5.6	4.8	30 (762)	*8G-30	14 (6.4)	8.4	7.2	30 (762)	*12G-30	18 (8.2)	11.2	9.6	30 (762)	*16G-30	23 (10.4)
6.6	5.8	36 (914)	*8G-36	16 (7.3)	9.9	8.8	36 (914)	*12G-36	21 (9.5)	13.3	11.7	36 (914)	*16G-36	28 (12.7)
8.7	7.9	48 (1219)	*8G-48	18 (8.2)	13.1	11.9	48 (1219)	*12G-48	26 (11.8)	17.5	15.9	48 (1219)	*16G-48	33 (15)
10.8	10.0	60 (1524)	*8G-60	23 (10.4)	16.2	15.1	60 (1524)	*12G-60	32 (14.5)	21.6	20.1	60 (1524)	*16G-60	40 (18.1)
12.9	12.1	72 (1829)	*8G-72	28 (12.7)	19.4	18.2	72 (1829)	*12G-72	37 (16.8)	25.8	24.3	72 (1829)	*16G-72	47 (21.3)
15.0	14.2	84 (2134)	*8G-84	31 (14.1)	22.5	21.3	84 (2134)	*12G-84	42 (19.1)	30.0	28.4	84 (2134)	*16G-84	54 (24.5)
17.1	16.3	96 (2438)	*8G-96	34 (15.4)	25.7	24.5	96 (2438)	*12G-96	47 (21.3)	34.2	32.6	96 (2438)	*16G-96	61 (27.7)
19.2	18.4	108 (2743)	*8G-108	38 (17.2)	28.8	27.6	108 (2743)	*12G-108	53 (24)	38.4	36.8	108 (2743)	*16G-108	69 (31.3)
21.3	20.5	120 (3048)	*8G-120	41 (18.6)	31.9	30.8	120 (3048)	*12G-120	58 (26.3)	42.6	41.0	120 (3048)	*16G-120	76 (34.5)
23.4	22.6	132 (3353)	*8G-132	46 (20.9)	35.1	33.9	132 (3353)	*12G-132	64 (29)	46.8	45.2	132 (3353)	*16G-132	82 (37.2)
25.5	24.7	144 (3658)	*8G-144	49 (22.2)	38.2	37.0	144 (3658)	*12G-144	69 (31.3)	51.0	49.4	144 (3658)	*16G-144	88 (39.9)
	30" WIDTH	(20 TUBES))			36" WIDTH	(24 TUBES	3)			42" WIDTH (28 TUBES	1)	
VERTICAL SQUARE FEET	HORIZONTAL SQUARE FEET	LENGTH In/(mm)	MODEL NUMBER	SHIP Lbs/(kg)	VERTICAL SQUARE FEET	HORIZONTAL SQUARE FEET	LENGTH In./(mm)	MODEL NUMBER	SHIP Lbs/(kg)	VERTICAL SQUARE FEET	HORIZONTAL SQUARE FEET	LENGTH In./(mm)	MODEL	SHIP Lbs/(kg)
11.3	9.4	24 (610)	*20G-24	22	13.6	11.3	24	*24G-24	28	15.9	13.1	24		32 (14.5)
14.0	12.0	30 (762)	*20G-24	(10)	16.8	14.4	(610)	*24G-24	(12.7)	19.5	16.8	(610)		38 (17.2)
				(12.7)			(762)		(14.1)			(762) 36		,
16.6	14.6	36 (914)	*20G-36	(15)	19.9	17.5	(914)	*24G-36	(17.2)	23.2	20.5		*28G-36	45 (20.4)
21.8	19.9											(914)		
	10.0	48 (1219)	*20G-48	40 (18.1)	26.2	23.8	48 (1219)	*24G-48	48 (21.8)	30.5	27.8	48 (1219)	*28G-48	56 (25.4)
27.1	25.1	48 (1219) 60 (1524)	*20G-48 *20G-60	(18.1) 48 (21.8)	26.2 32.5	23.8	48 (1219) 60 (1524)	*24G-48 *24G-60	48 (21.8) 57 (25.9)	30.5 37.9	27.8 35.1	48 (1219) 60 (1524)		56 (25.4) 68 (30.8)
27.1 32.3				(18.1) 48 (21.8) 58 (26.3)			48 (1219) 60 (1524) 72 (1829)		48 (21.8) 57 (25.9) 68 (30.8)			48 (1219) 60 (1524) 72 (1829)	*28G-60	,
	25.1	60 (1524)	*20G-60	(18.1) 48 (21.8) 58 (26.3) 68 (30.8)	32.5	30.1	48 (1219) 60 (1524) 72 (1829) 84 (2134)	*24G-60	48 (21.8) 57 (25.9) 68 (30.8) 79 (35.8)	37.9	35.1	48 (1219) 60 (1524) 72 (1829) 84 (2134)	*28G-60 *28G-72	68 (30.8) 80 (36.3) 92 (41.7)
32.3	25.1 30.3	60 (1524) 72 (1829) 84 (2134) 96 (2438)	*20G-60 *20G-72	(18.1) 48 (21.8) 58 (26.3) 68 (30.8) 75 (34)	32.5	30.1 36.4	48 (1219) 60 (1524) 72 (1829) 84 (2134) 96 (2438)	*24G-60 *24G-72	48 (21.8) 57 (25.9) 68 (30.8) 79 (35.8) 89 (40.4)	37.9 45.2	35.1 42.5	48 (1219) 60 (1524) 72 (1829) 84 (2134) 96 (2438)	*28G-60 *28G-72	68 (30.8) 80 (36.3) 92 (41.7) 103 (46.7)
32.3 37.5	25.1 30.3 35.6	60 (1524) 72 (1829) 84 (2134) 96 (2438) 108 (2743)	*20G-60 *20G-72 *20G-84	(18.1) 48 (21.8) 58 (26.3) 68 (30.8) 75 (34) 83 (37.7)	32.5 38.7 45.0	30.1 36.4 42.7	48 (1219) 60 (1524) 72 (1829) 84 (2134) 96 (2438) 108 (2743)	*24G-60 *24G-72 *24G-84	48 (21.8) 57 (25.9) 68 (30.8) 79 (35.8) 89 (40.4) 99 (44.9)	37.9 45.2 52.5	35.1 42.5 49.8	48 (1219) 60 (1524) 72 (1829) 84 (2134) 96 (2438) 108 (2743)	*28G-60 *28G-72 *28G-84	68 (30.8) 80 (36.3) 92 (41.7) 103 (46.7) 115 (52.2)
32.3 37.5 42.8	25.1 30.3 35.6 40.8	60 (1524) 72 (1829) 84 (2134) 96 (2438) 108 (2743) 120 (3048)	*20G-60 *20G-72 *20G-84 *20G-96	(18.1) 48 (21.8) 58 (26.3) 68 (30.8) 75 (34) 83 (37.7) 92 (41.7)	32.5 38.7 45.0 51.3	30.1 36.4 42.7 49.0	48 (1219) 60 (1524) 72 (1829) 84 (2134) 96 (2438) 108 (2743) 120 (3048)	*24G-60 *24G-72 *24G-84 *24G-96	48 (21.8) 57 (25.9) 68 (30.8) 79 (35.8) 89 (40.4) 99	37.9 45.2 52.5 59.9	35.1 42.5 49.8 57.1	48 (1219) 60 (1524) 72 (1829) 84 (2134) 96 (2438) 108 (2743) 120 (3048)	*28G-60 *28G-72 *28G-84 *28G-96	68 (30.8) 80 (36.3) 92 (41.7) 103 (46.7) 115 (52.2) 126 (57.2)
32.3 37.5 42.8 48.0	25.1 30.3 35.6 40.8 46.0	60 (1524) 72 (1829) 84 (2134) 96 (2438) 108 (2743) 120	*20G-60 *20G-72 *20G-84 *20G-96 *20G-108	(18.1) 48 (21.8) 58 (26.3) 68 (30.8) 75 (34) 83 (37.7) 92	32.5 38.7 45.0 51.3 57.6	30.1 36.4 42.7 49.0 55.2	48 (1219) 60 (1524) 72 (1829) 84 (2134) 96 (2438) 108 (2743) 120	*24G-60 *24G-72 *24G-84 *24G-96 *24G-108	48 (21.8) 57 (25.9) 68 (30.8) 79 (35.8) 89 (40.4) 99 (44.9) 109 (49.4)	37.9 45.2 52.5 59.9 67.2	35.1 42.5 49.8 57.1 64.4	48 (1219) 60 (1524) 72 (1829) 84 (2134) 96 (2438) 108 (2743) 120	*28G-60 *28G-72 *28G-84 *28G-96 *28G-108	68 (30.8) 80 (36.3) 92 (41.7) 103 (46.7) 115 (52.2) 126



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G SERIES DATA SHEET

Features & Values

- Wide variety of materials available for use in heating or cooling applications for alkaline or acid solutions and rinse tanks. Check solution guide or consult with your chemical supplier for proper sheath material.
- Heavy wall, 20 gauge metal tubing available in steel, 316 stainless steel and titanium.
- 1" diameter tubing and 1" MNPT connection fittings standard.
- 4.6 square foot to 89.9 square foot of exchange area
- Single point connections reduce the potential for leaks and simplify installation.
- NOTE: Inlet and outlet connections must be sized to adequately handle water and steam volume requirements. Generally, larger inlet sizes are needed for grid coils larger than 33 sq. ft. (for steam) and 25 sq. ft. (for water).

Specifications

Safety Features

 Integral inlet and outlet manifolds for single point connections greatly reduce the potential for leaks and simplifies installation

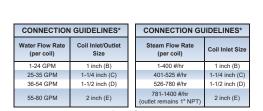
Pressure

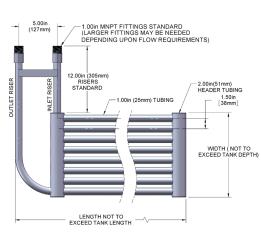
100 PSI working pressure (steam or water)

Options

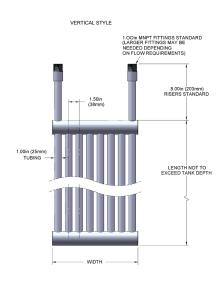
- Mounting Hangers
- Vertical or horizontal configurations
- Heavier gauge tubing or pipe
- Zirconium, Hastelloy C and other alloys available
- Vacuum Breakers
- Special riser sizes, fittings, lengths, and configurations
- Non-conductive isolator couplings

Dimensions





HORIZONTAL STYLE



Model Number Breakdown

Т	8	G	30	н	S	-	R18	ВВ		
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Series	No. of Tubes	Style Coil	Coil Length	Configuration	Service Conditions	-[Riser Height & Misc.	Inlet/Outlet Sizes		
P = Steel	8	G = Grid style	Length in inches	H = Horizontal	S = Steam	1	no designator (horizontal style) = 12" riser (std)	A = 3/4" MNPT		
S = 316 stainless steel	12		(not to exceed tank length)	V = Vertical	W = Water		no designator (vertical style) = 8" riser (std)	B = 1" MNPT		
T = Titanium	16		Ex: '-24 = 24"	Note: for vertical style, coil		Į.	-R = specify custom riser height	C = 1-1/4" MNPT		
H = Hastelloy C®	20			length is a vertical dimension		[-Ex: '-R30 = 30" riser height	D = 1-1/2" MNPT		
Z = Zirconium	24					- [-BR = bottom style coil, specify riser height	E = 2" MNPT		
	28							F = 1/2" FNPT		
		-						G = 3/4" FNPT		
								H = 1" FNPT		
								J = 1/2" FNPT		
								Ex: BA = 1" inlet/3/4" outle		

