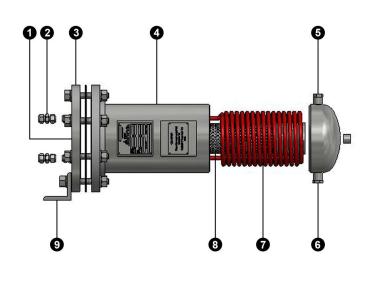


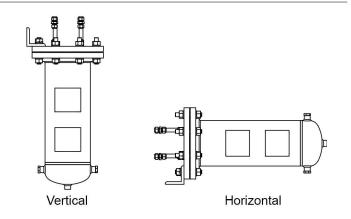
# **DFS-HEW**



#### Model Key

- 1 Cooling Water In
- 2 Tube Union
- 3 Removable Flange
- 4 Reservoir
- 5 Cooling Water Vent
- 6 Cooling Water Drain
- 7 Seamless Cooling Coil
- 8 Diffuser
- 9 Mounting Bracket

### **Mounting Positions**



# **Description**

Water cooled heat exchangers are used to cool process fluids when water is available in multiple API 682 seal arrangements such as Plan 21, 22, 23, 41 and 53B.

Our three standard designs use a single wrap helical coil, made from 3/4" X .095 wall thickness tubing, for maximum surface area. We have also incorporated a unique baffle diffuser to direct cooling water flow radially against the coil walls. These heat exchangers can be mounted both in the horizontal or vertical position and are designed with removable coils for ease of maintenance.

## Standard Design Features

## **Optional Design Features**

- ASME Sec. VIII Div. 1, 2013
- 3/4" NPTF Cooling Inlet / Outlet
- 8" Sch. 40 Shell
- 3/4" Tube Union
- Cooling Coil: 3/4" x .095 Wall Class 3000 Couplings
- 150# Removable Flange

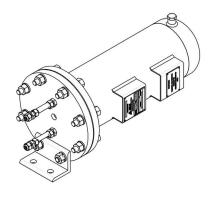
- ASME U Stamp
- Cooling Coil: 3/4" x .065 Wall
- 300# Removable Flange
- Flanged Coil Connections
- Flanged Shell Connections
- Thermometers / Thermowells
- Temperature Transmitter
- Gate Valve Drain: Class 800
- Gate Valve Vent: Class 800
- Flow Meter
- Auxiliary Circulation Pump

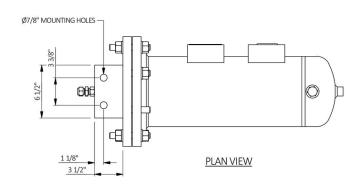
#### **Materials of Construction**

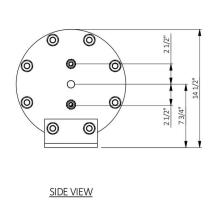
Elements	Standard	Options	
Reservoir	Painted Carbon Steel 316 / 316L SS / Application S		
Seamless Cooling Coil	ing Coil 316 / 316L Stainless Steel Super Duplex / Application Spec		
Studs / Nuts	Carbon Steel	316 / 316L SS / Application Specific	
Tube Fittings	316 Stainless Steel	Application Specific	
Flange Gasket	Non-Asbestos Fibre	316 SS / Grafoil	

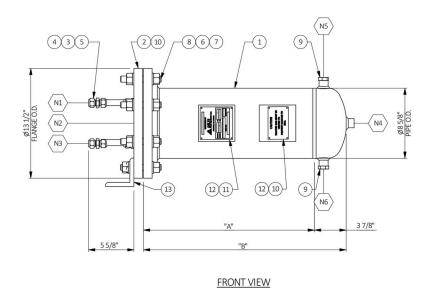
<sup>\*</sup>All materials used per ASME Section VIII Div. 1











PARTS LIST						
#	QTY		DESCRIPT		MATERIAL	
1	1	8" SCH40 SHE		1014	CS	
2	1	FLANGE & DIF		-40VM	CS	
3	1			- SEE CHART BELOW	316/316L SS	
4	2			x 3/4" TUBE-BT	316/316L SS	
5	2	TUBE UNION :	3/4 TO 3/4		316/316L SS	
6	16	HEAVY HEX N	UT 3/4 - 10 Z	INC PLATED	CS	
7	16	3/4" FLAT WA	SHER		CS	
8	8	3/4-10 UNC S	TUD 5" LG ZI	NC PLATED	CS	
9	2	3/4 NPT HEX I	PLUG		CS	
10	1	CAUTION PLA			316 SS	
11	1	DELTA CODE F			316 SS	
12	2	NAME PLATE	S-40-100 (F-2107) 1-5		cs	
13	1	MOUNTING B			CS	
	OT/	NC		CTION TABLE	CLAE	
# N1	QTY 1	PROCESS FLU	DESCRIPT	ION	SIZE 3/4" TUBE	
N2	1	COOLING WA			3/4" NPTF	
N3	1	PROCESS FLU			3/4" TUBE	
N4	1	COOLING WA			3/4" NPTF	
N5	1	VENT			3/4" NPTF	
N6	1	DRAIN			3/4" NPTF	
			DIMENS			
	MODE	L	HEW20	HEW30	HEW40	
	"A"		12"	15"	21"	
	"B"		16"	19"	25"	
)	COIL SI		4" TUBE	3/4" TUBE	3/4" TUBE	
COIL	SLIBEVO		95" WALL	0.095" WALL	0.095" WALL	
COILS	JUNTAL	L ANEA	3.4 ft2	5 ft2	6.3 ft2	
MAWP: 250 PSIG @ 200°F MDMT: -20°F @ 250 PSIG  COIL MAWP: 2500 PSIG @ 400°F MDMT: -20°F @ 2500 PSIG						
MOUNTING POSITIONS						
VERTICAL MOUNT HORIZONTAL MOUNT						
				HORIZONTAL	MOUNT	
DRAWN: CHECKED APPROVE	JEN D:	NNIFER 28-Aug-14	CHENT	HORIZONTAL  BELTA FLUID SYSTEMS		
CHECKED APPROVE UNLE	JEN D: ED: ESS OTHER MENSIONS	NNIFER 28-Aug-14 RWISE SPECIFIED ARE IN INCHES	CUENT: PROJECT:	<u>≗</u> DELTA		
CHECKED APPROVE UNLE	JEN ED: ESS OTHER MENSIONS	INIFER 28-Aug-14 RWISE SPECIFIED ARE IN INCHES 1/8"	PROJECT:	DELTA FLUID SYSTEMS	INC	
CHECKED APPROVE UNLE	JEN ED: ESS OTHER MENSIONS	NNIFER 28-Aug-14 RWISE SPECIFIED ARE IN INCHES	PROJECT:	DELTA FLUID SYSTEMS	INC	

\* REFERENCE DRAWING ONLY
\* BASIC MODEL SHOWN - CONFIGURATION TO CUSTOMERS REQUEST