

**GENERAL NOTE – SAMPLE COOLER PRODUCTION**

Heat exchangers are generally used as fluid coolers/heaters. The design involves a small amount of helicoidal spiral piping immersed in a small cask filled with of a hot/cold liquid; according to the principle of heat exchange the piping absorbs/releases the temperature of the liquid in which it is immersed, allowing the plant's technicians to bring the fluid to the required temperature.



All of Blu Zac products have been designed to satisfy the requests and specific requirements of the customer, including high pressure applications. Designed and fabricated to ASME VIII Div.1 and ASME B16.34 as standard.

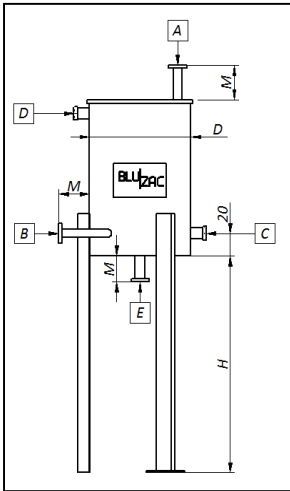


SIZES CONNECTION	
from 3/8" to 1"	

CONNECTIONS		
Buttweld	BW	ANSI B16.25
Flanged	FLG	ANSI B16.5

**GENERAL NOTE – SAMPLE COOLER STANDARD PRODUCTION**

<b>LEG</b>	 Without Leg	 With one Leg	 With three Leg	
<b>COVER</b>	 Without Cover	 With Cover	 With Bolted Cover	



Size	3/8"	1/2"	3/4"	1"	1.1/4"	1.1/2"
M (mm)	100	100	100	120	130	140
H (mm)	500	500	500	600	650	700
D (mm)	168	168	168	219	273	273

Connection	3/8"	1/2"	3/4"	1"	1.1/4"	1.1/2"
A	3/8"	1/2"	3/4"	1"	1.1/4"	1.1/2"
B	3/8"	1/2"	3/4"	1"	1.1/4"	1.1/2"
C	1/2"	1/2"	1/2"	1"	1"	1"
D	1/2"	1/2"	1/2"	1"	1"	1"
E	1/2"	1/2"	1/2"	1"	1"	1"

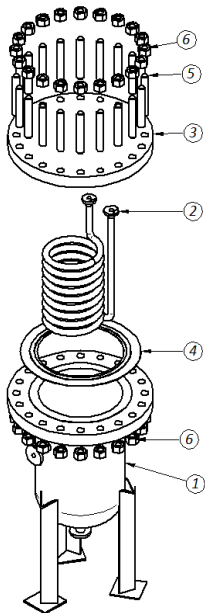
DIMENSION TOLLERANCE		
SIZE	DIMENSION	
	M D	H
1/2" to 1.1/2"	± 1	± 2

POS	DESCRIPTION	MATERIALS	MATERIALS	MATERIALS	MATERIALS	SPARES
1	Body	ASTM A106 Gr.B	ASTM A333 Gr.6	ASTM A312 TP304	ASTM A312 TP316	
2	Coil	ASTM A105	ASTM A350 LF2	ASTM A182 F304	ASTM A182 F316	
3	Cover	ASTM A105	ASTM A350 LF2	ASTM A182 F304	ASTM A182 F316	
4	Gasket	SPW: F-Graphite W-316 IR-316 OR-CS	SPW: F-Graphite W-316 IR-316 OR-CS	SPW: F-Graphite W-316 IR&OR-316	SPW: F-Graphite W-316 IR&OR-316	X
5	Bolts	ASTM A193 B7	ASTM A320 L7	ASTM A193 B8	ASTM A193 B8	
6	Nuts	ASTM A194 Gr.2H	ASTM A194 Gr.4	ASTM A194 Gr.8	ASTM A194 Gr.8	

Note 1: Other Materials and Dimensions on Request

Note 2: Detail Leg are optional if required by client.

Note 3: Detail 3, 4, 5 and 6 are optional if required by client.



#### HOW TO MAKE FACILITIES SERVICES

Usually, the maintenance of the Sample Cooler should be done once a year.

Important: check system at least once a month and, if possible, undertake a quick cleaning.

#### HOW TO MAINTAIN only for type with Bolted Cover:

1. Before starting, wear the required safety equipment and follow all plant safety procedures.
2. Stop the main line to make sure that no residues of dangerous waste fluid could be emitted.
3. Unscrew cover studs(5) and nuts(6), then remove the cover flange(3) and gasket(4).
4. Remove the coil(2), clean the block with compressed air or any other appropriate tools. Inspect thoroughly to check for any damage;
5. Thoroughly clean the inside of the vessel before inserting the coil (2).
6. Replace the gasket(4).
7. Reposition the cover flange (3), then screw the studs(5) and nuts(6) of the cover.
8. Slowly start the plant and check if there are any line losses.
9. Apply a label to the filter with the maintenance date.

#### ORDER CODE

i.e. SACO 1/2" 150RF A106 Gr.B/F316

