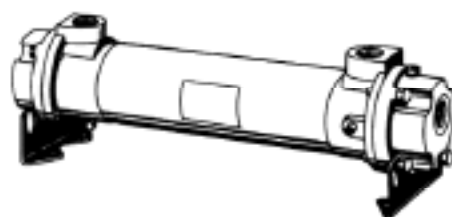


JOB _____		B & G REPRESENTATIVE _____	
UNIT TAG NO. _____	ORDER NO. _____	DATE _____	
ENGINEER _____	SUBMITTED BY _____	DATE _____	
CONTRACTOR _____	APPROVED BY _____	DATE _____	



Type CHXS and CHXS-I Heat Exchangers

DESCRIPTION

B&G Type "CHXS/CHXS-I" Heat Exchangers are of the shell and tube type with a non-removable tube bundle. All 2" thru 8" Series "CHXS/CHXS-I" units have 316SS shells, 316SS baffles, 316SS tube sheets and 316SS tubes. CHXS heat

exchangers also include cast 316 stainless steel heads. CHXS-I heat exchangers include cast iron heads. All bolts and support legs are carbon steel.

OPERATING DATA

DUTY

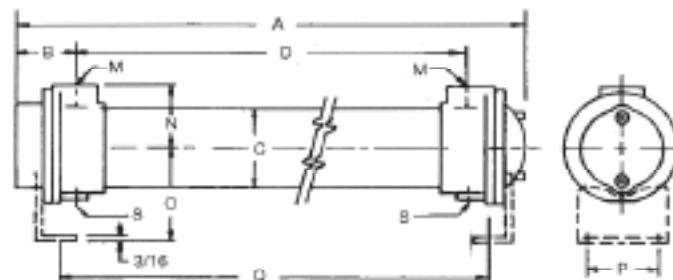
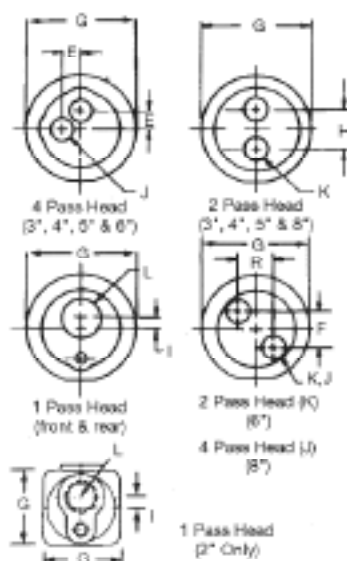
- Exchanger Model Number _____
 Service _____
 Cooler _____
 Heater _____

	TUBE SIDE	SHELL SIDE
2. Fluid Circulated	_____	_____
3. Total Flow Expressed in GPM, GPH, CFM, CFH, lbs./min. or lbs./hr.	_____	_____
4. Specific Gravity	_____	_____
5. Specific Heat	_____	_____
6. Latent Heat	_____	_____
7. Viscosity Expressed in Proper Units and Temperature such as centipoises @ °F	_____	_____
8. Thermal Conductivity	_____ / _____	_____ / _____
9. Temperature In/Out	_____	_____
10. Heat Load BTU/hr	_____	_____
11. Maximum Operating Temperature of Unit	_____	_____
12. Pressure Drop (Maximum)	_____	_____
13. Fouling Factor or Percentage of Additional Surface	_____	_____

APPROVALS

Bell & Gossett

2" THRU 8" SERIES TYPE CHXS/CHXS-I HEAT EXCHANGERS DIMENSIONS



Tapping for zinc anodes - 3/8" NPT for CHXS/CHXS-I 300 2P & 4P, 400 & 600
 - 1/2" NPT for CHXS/CHXS-I 800
 - 1/4" NPT for CHXS/CHXS-I 500

No zinc anode tapping for CHXS/CHXS-I 200 & 300 1P.

	Tube Side	Shell Side
Design Press.	150 PSI	225 PSI
Test Press.	225 PSI	338 PSI
Design Temp. (CHXS)	450°F	450°F
Design Temp. (CHXS-I)	300°F	450°F

Materials of Construction**	
Heads - 316SS (CHXS), C.I. (CHXS-I)	
Tube Sheets - 316SS, Shell Ends - 316SS, Shell - 316SS	
Tubes - CHXS/CHXS-I 200, 300 & 400 Series 1/4 in. 316SS	
CHXS/CHXS-I 500, 600 & 800 Series 3/8 in. 316SS	

MODEL	AREA SQ. FT.	1 PASS		2 PASS		4 PASS		C IN.	D IN.	E IN.	F IN.	G IN.	H IN.	I IN.	J NPT	K NPT	L NPT	M NPT	N IN.	O IN.	P IN.	Q IN.	R IN.	S NPT	APPROX. WT.
		A IN.	B IN.	A IN.	B IN.	A IN.	B IN.																		
CHXS/CHXS-I-208*	1.2	11	1 1/8	-	-	-	-	2 1/8	6 1/8	-	-	2 1/8	-	1/8	-	-	1/8	1	1 1/8	-	-	-	-	-	6
CHXS/CHXS-I-214*	2.1	17		-	-	-	-	2 1/8	12 1/8	-	-	2 1/8	-	1/8	-	-	1/8	1	1 1/8	-	-	-	-	-	8
CHXS/CHXS-I-308*	2.4	11 1/4	2 1/8	10 1/8	2 1/8	10 1/8	2 1/8	3 1/8	6 1/8	1	-	4 1/8	2	1/8	1/8	1 1/2	1	2 1/8	2 1/8	3 1/8	7 1/8	-	1/8	12	
CHXS/CHXS-I-314*	4.3	17 1/4		16 1/8		16 1/8		12 1/8	13 1/8												15				
CHXS/CHXS-I-324*	7.3	27 1/4		26 1/8		26 1/8		22 1/8	23 1/8												20				
CHXS/CHXS-I-336*	11	39 1/4		38 1/8		38 1/8		34 1/8	35 1/8												26				
CHXS/CHXS-I-414*	8.3	18	3 1/8	17 1/8	3 1/8	17 1/8	3 1/8	4 1/8	11 1/8	1 1/8	-	5 1/8	2 1/8	1/8	1/8	1 1/2	2	1 1/8	3 1/8	3 1/8	12 1/8	-	1/8	41	
CHXS/CHXS-I-424*	14.1	28		27 1/8		27 1/8		21 1/8	22 1/8												50				
CHXS/CHXS-I-436*	21.1	40		39 1/8		39 1/8		33 1/8	34 1/8												60				
CHXS/CHXS-I-514*	9.1	18 1/2	3 1/8	17 1/8	3 1/8	17 1/8	3 1/8	5 1/8	11 1/8	1 1/8	-	6 1/8	3	-	1 1/2	1 1/2	2 1/8	1 1/8	3 1/8	3 1/8	11 1/8	-	1/8	50	
CHXS/CHXS-I-524*	15.7	28 1/2		27 1/8		27 1/8		21 1/8	21 1/8												60				
CHXS/CHXS-I-536*	23.5	40 1/2		39 1/8		39 1/8		33 1/8	33 1/8												84				
CHXS/CHXS-I-624*	23	28 1/2	4	28 1/8	4	28 1/8	4	6 1/8	20 1/8	2	-	7 1/8	3 1/8	-	1 1/2	2	3	2	4 1/8	4 1/8	21 1/8	-	1/2	80	
CHXS/CHXS-I-636*	34	40 1/2		40 1/8		40 1/8		32 1/8	33 1/8												105				
CHXS/CHXS-I-648*	46	52 1/2		52 1/8		52 1/8		44 1/8	45 1/8												130				
CHXS/CHXS-I-824*	41	28 1/2	4 1/8	28	4 1/8	28	4 1/8	8 1/8	19 1/8	-	2 1/8	9 1/8	4 1/8	-	2	2 1/2	3	3	5 1/8	5 1/8	20 1/8	5	1/8	115	
CHXS/CHXS-I-836*	62	40 1/2		40		40		31 1/8	32 1/8												200				
CHXS/CHXS-I-848*	83	52 1/2		52		52		43 1/8	44 1/8												240				
CHXS/CHXS-I-860*	103	64 1/2		64		64		55 1/8	56 1/8												280				
CHXS/CHXS-I-872*	124	76 1/2		76		76		67 1/8	68 1/8												320				
CHXS/CHXS-I-884*	145	88 1/2	88	88	79 1/8	80 1/8	360																		
CHXS/CHXS-I-896*	166	100 1/2	100	100	91 1/8	92 1/8	400																		

* No. of passes, either 1, 2, or 4. Baffle Spacing, either S or L.

** Consult factory on the availability of optional materials, variations in unit length, and design, available on some models. CHXS 1000 & 1200 series units are available.

† 1/2" NPT with S baffle spacing; 1" NPT with L baffle spacing.

Dimensions subject to change without notice.

Use only certified drawings for construction purposes.

For further information, contact Bell & Gossett Heat Transfer Products, 175 Standard Parkway, Cheektowaga, NY 14227,
 Phone (716) 862-4171 — Facsimile (716) 862-4176 —

Bell & Gossett