BELL & GOSSETT



REVISION 3



Type "OC" Heat Exchangers

Straight Tube—Channel Head Design

JOB		B & G REPRESENTATIVE					
UNIT TAG NO ENGINEER CONTRACTOR		ORDER NO	DATE DATE DATE				
DUTY:	OPERATII	NG DATA					
Type of Service Condenser	Evaporator_		Heater				
2. Fluid Circulated		TUBE SIDE	SHELL SIDE				
3. Total Flow*							
4. Specific Gravity							
5. Specific Heat							
6. Latent Heat							
7. Viscosity**							
8. Thermal Conductivity							
9. Temperature In/Out							
10. Heat Load BTU/hr.							
11. Openings (Flanged) (Threaded)							
12. Operating Pressure							
13. Design Pressure							
14. Maximum Operating Temperature of U							
15. Pressure Drop (Maximum)							
16. Fouling Factor or Percentage of Additional *Expressed in GPM, GPH, SCFM, SCFH, I **Expressed in Proper Units and Tempera							
MATERIALS:							
1. Heads(Channel)		5. Tube Size O. D. & Gauge_	5/8 3/4				
2. Shell							
3. Tube Sheets							
with control of the control of the Market of			Other				

DESCRIPTION

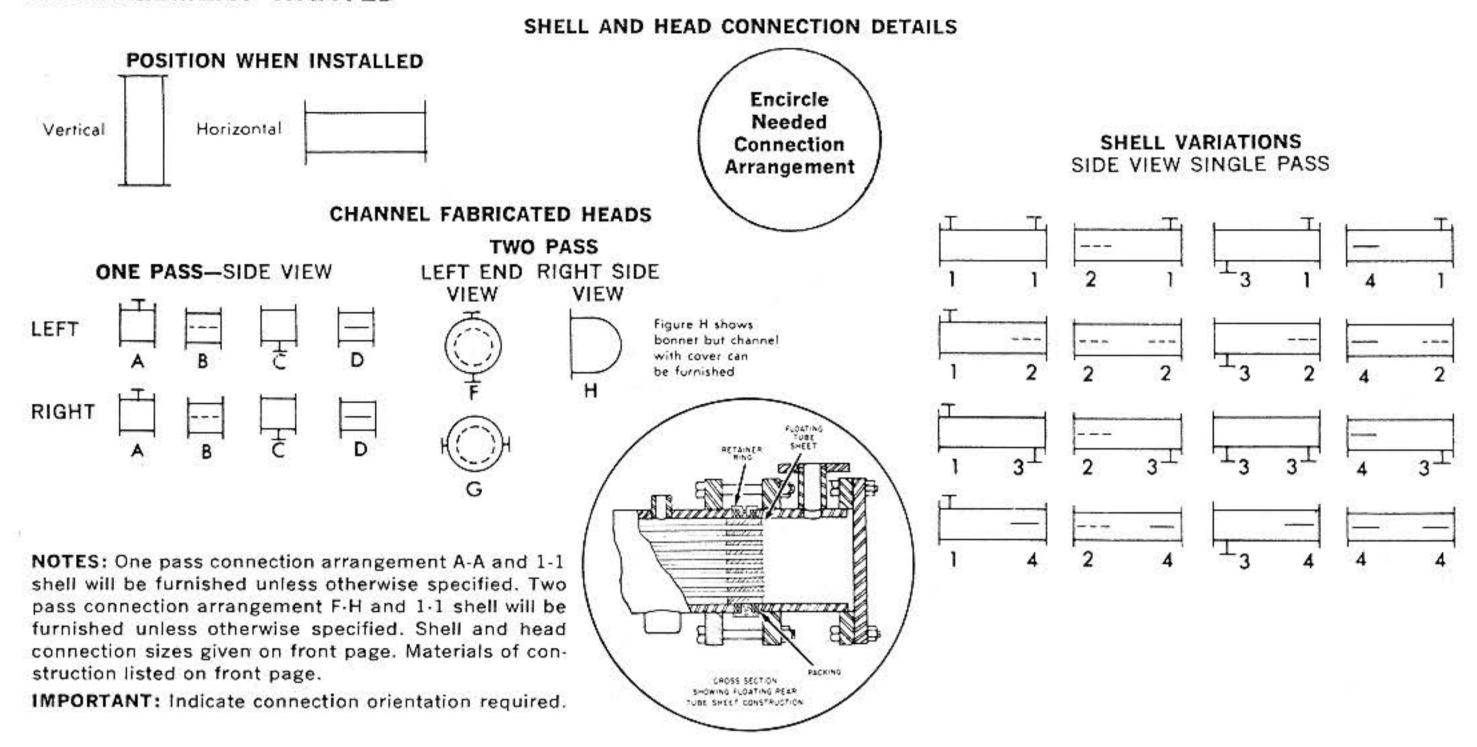
B&G Type "OC" Heat Exchangers are of the shell and tube type. Tube bundles are removable and tubes are easily cleaned both inside and outside. Tube ends are roller expanded into both the front and rear tube sheets. Floating tube sheet construction within the rear head compensates for expansion or contraction of the entire bundle regardless of temperature variations. Baffles are stamped to close tolerances, minimizing the slippage of liquids or gases between the baffles and shell wall.

CONSTRUCTION MATERIALS

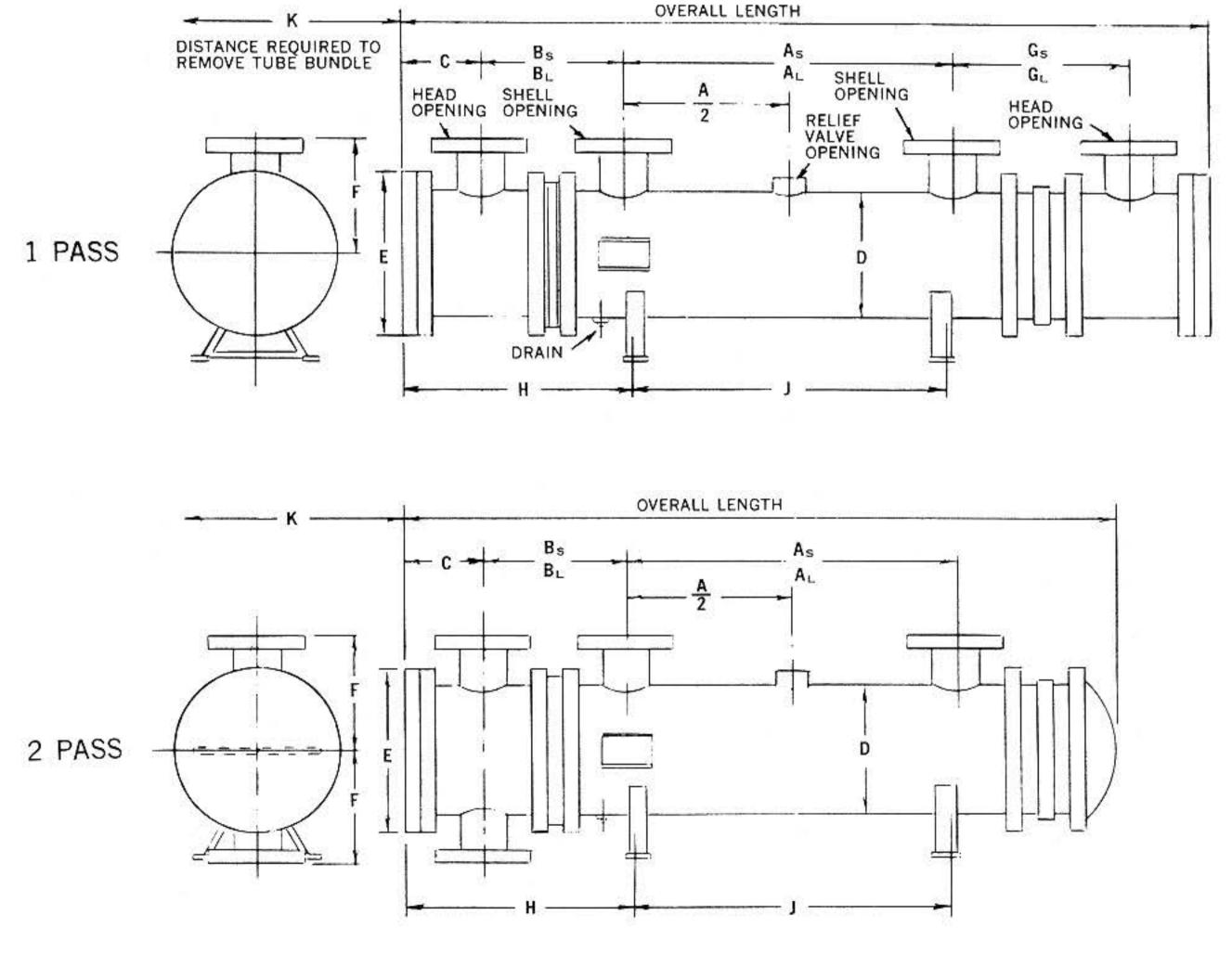
B&G "OC" Heat Exchangers are constructed according to ASME requirements for pressures and temperature. A Manufacturer's Data Report for Pressure Vessels, Form No. U-1 as required by the provisions of the ASME Code Rules is furnished with each unit upon request.

This form is signed by an authorized inspector, holding a National Board Commission, and who is employed by an authorized inspection agency, certifying that construction conforms to the latest ASME Code for pressure vessels. The ASME "U" symbol is stamped on each vessel. In addition, each unit is registered with the National Board of Boiler and Pressure Vessel Inspectors.

ARRANGEMENT WANTED



DIMENSIONS



NOTE: Flanges for field connections drilled and faced per 150# ANSI standards.

DIMENSIONS

-"OC" type straight tube—floating head
-outside packed lantern
- Shell diameter in inches
- Tube length in feet
- Number of tube passes

UNIT NUMBER	HEAD CONN. 150# ANSI FLANGES		ANSI 150# ANSI		LEN	RALL IGTH CHES)	DIMENSIONS IN INCHES												
1 & 2 PASS	1 PASS	2 PASS	SMALL	LARGE	1 PASS	2 PASS	As	AL	Bs	B∟	С	D	E	F Max.	Gs	GL	н	j	к
OC-62-*	3	2-N.P.T.	21/2	3	47	38%	141/4	13¾	93/4	10	51/4	65/8	101/2	73/4	121/2	12¾	19	7	17
OC-63-*	3	2-N.P.T.	21/2	3	59	50%	261/4	25¾	93/4	10	51/4	65/8	101/2	73/4	121/2	123/4	19	19	29
OC-64-*	3	2-N.P.T.	21/2	3	71	621/8	381/4	373/4	93/4	10	51/4	65/8	101/2	73/4	121/2	123/4	19	31	41
OC-65-*	3	2-N.P.T.	21/2	3	83	74%	501/4	493/4	93/4	10	51/4	65/8	101/2	73/4	121/2	123/4	19	43	53
OC-66-*	3	2-N.P.T.	21/2	3	95	86%	621/4	613/4	93/4	10	51/4	65/8	101/2	73/4	121/2	123/4	19	55	65
OC-67-*	3	2-N.P.T.	21/2	3	107	981/8	741/4	733/4	93/4	10	51/4	65/8	101/2	73/4	121/2	123/4	19	67	77
OC-68-*	3	2-N.P.T.	21/2	3	119	110%	861/4	85¾	93/4	10	51/4	65/8	101/2	73/4	121/2	123/4	19	79	89
OC-69-*	3	2-N.P.T.	21/2	3	131	1221/8	981/4	973/4	93/4	10	51/4	65/8	101/2	73/4	121/2	123/4	19	91	101
OC-610-*	3	2-N.P.T.	21/2	3	143	1341/8	1101/4	109¾	93/4	10	51/4	65/8	101/2	73/4	121/2	123/4	19	103	113
OC-83-*	4	21/2	3	4	613/8	521/2	25¾	241/4	10%	113/8	51/8	85/8	121/2	83/4	131/4	14	21	16	28
OC-84-*	4	21/2	3	4	733/8	641/2	37¾	361/4	105/8	113/8	51/8	85/8	121/2	83/4	131/4	14	21	28	40
OC-85-*	4	21/2	3	4	853/8	761/2	493/4	481/4	105/8	113/8	51/8	85/8	121/2	83/4	131/4	14	21	40	52
OC-86-*	4	21/2	3	4	973/8	881/2	613/4	601/4	105/8	113/8	51/8	85/8	121/2	83/4	131/4	14	21	52	64
OC-87-*	4	21/2	3	4	1093/8	1001/2	733/4	721/4	105/8	113/8	51/8	85/8	121/2	83/4	131/4	14	21	64	76
OC-88-*	4	21/2	3	4	1213/8	1121/2	85¾	841/4	105/8	113/8	51/8	85/8	121/2	83/4	131/4	14	21	76	88
OC-89-*	4	21/2	3	4	1333/8	1241/2	973/4	961/4	10%	113/8	51/8	85/8	121/2	83/4	131/4	14	21	88	100
OC-810-*	4	21/2	3	4	1453/8	1361/2	109¾	1081/4	105/8	113/8	51/8	85/8	121/2	83/4	131/4	14	21	100	112
OC-811-*	4	21/2	3	4	1573/8	1481/2	1213/4	1201/4	10%	113/8	51/8	85/8	121/2	83/4	131/4	14	21	112	124
OC-812-*	4	21/2	3	4	1693/8	1601/2	133¾	1321/4	105/8	113/8	51/8	85/8	121/2	83/4	131/4	14	21	124	136
OC-104-*	6	4	4	6	785/8	673/8	35¾	33¾	121/8	13%	71/4	10¾	145/8	93/4	151/2	161/2	26	24	38
OC-105-*	6	4	4	6	905/8	793/8	473/4	45¾	121/8	131/8	71/4	10¾	145/8	93/4	151/2	161/2	26	36	50
OC-106-*	6	4	4	6	1025/8	913/8	59¾	57¾	121/8	13%	71/4	10¾	145/8	93/4	151/2	161/2	26	48	62
OC-107-*	6	4	4	6	1145/8	1033/8	71¾	69¾	121/8	137/8	71/4	103/4	145/8	93/4	151/2	161/2	26	60	74
OC-108-*	6	4	4	6	1265/8	1153/8	83¾	813/4	121/8	131/8	71/4	10¾	145/8	93/4	151/2	161/2	26	72	86
OC-109-*	6	4	4	6	138%	1273/8	95¾	93¾	121/8	13%	71/4	10¾	145/8	93/4	151/2	161/2	26	84	98
OC-1010-*	6	4	4	6	150%	1393/8	107¾	105¾	121/8	131/8	71/4	10¾	145/8	93/4	151/2	161/2	26	96	110
OC-1011-*	6	4	4	6	1625/8	1513/8	119¾	117¾	121/8	13%	71/4	10¾	145/8	93/4	151/2	161/2	26	108	122
OC-1012-*	6	4	4	6	1745/8	1633/8	131¾	129¾	121/8	13%	71/4	10¾	145/8	93/4	151/2	161/2	26	120	134
OC-1013-*	6	4	4	6	186%	1753/8	143¾	1413/4	121/8	13%	71/4	10¾	145/8	93/4	151/2	16½	26	132	146
OC-1014-*	6	4	4	6	198%	1873/8	155¾	153¾	121/8	13%	71/4	10¾	145/8	93/4	151/2	161/2	26	144	158
OC-126-*	6	4	4	6	1041/4	921/8	591/4	571/4	131/2	141/2	73/4	12¾	165/8	10¾	16	17	28	47	62
OC-127-*	6	4	4	6	1161/4	104%	711/4	691/4	131/2	141/2	73/4	123/4	165/8	10¾	16	17	28	59	74
OC-128-*	6	4	4	6	1281/4	116%	831/4	811/4	131/2	141/2	73/4	123/4	165/8	10¾	16	17	28	71	86
OC-129-*	6	4	4	6	1401/4	1281/8	951/4	931/4	131/2	141/2	73/4	123/4	165/8	10¾	16	17	28	83	98
OC-1210-*	6	4	4	6	1521/4	140%	1071/4	1051/4	131/2	141/2	73/4	123/4	165/8	10¾	16	17	28	95	110
OC-1211-*	6	4	4	6	1641/4	152%	1191/4	1171/4	131/2	141/2	73/4	123/4	165/8	10¾	16	17	28	107	122

NOTES: Bolt holes straddle center lines on flanged openings. Legs available at extra cost. Removable bundle. Removable heads. Channel covers removable. Dimensions are subject to change. If exact dimensions are needed for layout, write for certified drawings. See front page for flange connection sizes and construction materials.

IMPORTANT: Designate 1 or 2 pass where asterisk appears. As, Bs, Gs with smaller listed shell openings. AL, BL, GL with larger listed shell openings.

Different size Shell Connections available to suit flow requirement.

Bs, BL, C and overall length dimensions are based upon one-pass head connections.

DIMENSIONS

- "OC" type straight tube—floating head
—outside packed lantern
— Shell diameter in inches
— Tube length in feet
— Number of tube passes

UNIT NUMBER	HEAD CONN. 150# ANSI FLANGES		150# ANSI 150# ANSI		OVERALL LENGTH (INCHES)		DIMENSIONS IN INCHES												
1 & 2 PASS	1 PASS	2 PASS	SMALL	LARGE	1 PASS	PASS	As	AL	Bs	BL	С	D	E	F	Gs	GL	н	J	К
OC-1212-*	6	4	4	6	1761/4	164%	1311/4	1291/4	131/2	141/2	73/4	123/4	165/8	10¾	16	17	28	119	134
OC-1213-*	6	4	4	6	1881/4	176%	1431/4	1411/4	131/2	141/2	73/4	123/4	165/8	10¾	16	17	28	131	146
OC-1214-*	6	4	4	6	2001/4	188%	1551/4	1531/4	131/2	141/2	73/4	123/4	165/8	103/4	16	17	28	143	158
OC-146-*	6	6	4	6	1103/4	1001/2	59	57	151/8	161/8	91/4	14	171/8	11½	181/8	191/8	33	47	59
OC-147-*	6	6	4	. 6	1223/4	1121/2	71	69	151/8	161/8	91/4	14	171/8	111/2	181/8	191/8	33	59	71
OC-148-*	6	6	4	6	134¾	1241/2	83	81	151/8	161/8	91/4	14	171/8	111/2	181/8	191/8	33	71	83
OC-149-*	6	6	4	6	1463/4	1361/2	95	93	151/8	161/8	91/4	14	171/8	111/2	181/8	191/8	33	83	95
OC-1410-*	6	6	4	6	158¾	1481/2	107	105	151/8	161/8	91/4	14	171/8	111/2	181/8	191/8	33	95	107
OC-1411-*	6	6	4	6	1703/4	1601/2	119	117	151/8	161/8	91/4	14	171/8	111/2	181/8	191/8	33	107	119
OC-1412-*	6	6	4	6	182¾	1721/2	131	129	151/8	161/8	91/4	14	171/8	111/2	181/8	191/8	33	119	131
OC-1413-*	6	6	4	6	1943/4	1841/2	143	141	151/8	161/8	91/4	14	171/8	111/2	181/8	191/8	33	131	143
OC-1414-*	6	6	4	6	206¾	1961/2	155	153	151/8	161/8	91/4	14	171/8	111/2	181/8	191/8	33	143	155
OC-1415-*	6	6	4	6	218¾	2081/2	167	165	151/8	161/8	91/4	14	171/8	111/2	181/8	191/8	33	155	167
OC-1416-*	6	6	4	6	230¾	2201/2	179	177	151/8	161/8	91/4	14	171/8	111/2	181/8	191/8	33	167	179
OC-167-*	8	6	6	8	1231/8	1101/8	683/4	66	163/8	173/4	93/8	16	19%	121/2	191/4	205/8	33	54	69
OC-168-*	8	6	6	8	1351/8	1221/8	80¾	78	163/8	173/4	93/8	16	191/8	121/2	191/4	205/8	33	66	81
OC-169-*	8	6	6	8	1471/8	1341/8	923/4	90	$16\frac{3}{8}$	173/4	93/8	16	19%	121/2	191/4	205/8	33	78	93
OC-1610-*	8	6	6	8	1591/8	1461/8	1043/4	102	$16\frac{3}{8}$	173/4	93/8	16	191/8	121/2	191/4	205/8	33	90	105
OC-1611-*	8	6	6	8	1711/8	1581/8	116¾	114	163/8	173/4	93/8	16	191/8	121/2	191/4	205/8	33	102	117
OC-1612-*	8	6	6	8	1831/8	1701/8	1283/4	126	163/8	173/4	93/8	16	19%	121/2	191/4	205/8	33	114	129
OC-1613-*	8	6	6	8	1951/8	1821/8	1403/4	138	163/8	173/4	93/8	16	19%	121/2	191/4	205/8	33	126	141
OC-1614-*	8	6	6	8	2071/8	1941/8	152¾	150	163/8	17¾	93/8	16	19%	121/2	191/4	20%	33	138	153
OC-1615-*	8	6	6	6	2191/8	2061/8	164¾	162	163/8	173/4	93/8	16	191/8	121/2	191/4	205/8	33	150	165
OC-1616-*	8	6	6	8	2311/8	2181/8	176¾	174	163/8	173/4	93/8	16	191/8	121/2	191/4	20%	33	162	177
OC-1617-*	8	6	6	8	2431/8	2301/8	188¾	186	163/8	173/4	93/8	16	191/8	121/2	191/4	205/8	33	174	189
OC-1618-*	8	6	6	8	2551/8	2421/8	2003/4	198	163/8	173/4	93/8	16	19%	121/2	191/4	205/8	33	186	201
OC-1619-*	8	6	6	8	2671/8	2541/8	212¾	210	163/8	173/4	93/8	16	19%	121/2	191/4	20%	33	198	213
OC-188-*	8	6	6	8	1351/2	1223/4	801/2	773/4	165/8	18	91/2	18	22	131/2	193/8	203/4	34	66	82
OC-189-*	8	6	6	8	1471/2	134¾	921/2	89¾	165/8	18	91/2	18	22	131/2	193/8	203/4	34	78	94
OC-1810-*	8	6	6	8	1591/2	1463/4	1041/2	101¾	16%	18	91/2	18	22	131/2	193/8	203/4	34	90	106
OC-1811-*	8	6	6	8	1711/2	158¾	116½	113¾	16%	18	91/2	18	22	131/2	193/8	203/4	34	102	118
OC-1812-*	8	6	6	8	1831/2	170¾	1281/2	125¾	16%	18	91/2	18	22	131/2	193/8	203/4	34	114	130
OC-1813-*	8	6	6	8	1951/2	182¾	1401/2	137¾	165/8	18	91/2	18	22	131/2	193/8	203/4	34	126	142
OC-1814-*	8	6	6	8	2071/2	194¾	1521/2	149¾	165/8	18	91/2	18	22	131/2	193/8	203/4	34	138	154
OC-1815-*	8	6	6	8	2191/2	206¾	1641/2		165/8	18	91/2	18	22	131/2	193/8	+	34	150	166
OC-1816-*	8	6	6	8	2311/2	218¾	1761/2	173¾	165/8	18	91/2	18	22	131/2	193/8	-	34	162	178
OC-1817-*	8	6	6	8	2431/2	230¾	1881/2	185¾	16%	18	91/2	18	22	131/2	193/8		-	174	-
OC-1818-*	8	6	6	8	2551/2	2423/4	2001/2	197¾	165/8	18	91/2	18	22	131/2	193/8	-	34	186	-
OC-1819-*	8	6	6	8	2671/2					18	91/2		22	131/2	193/8	1	1	198	-
OC-1820-*	8	6	6	8	2791/2	2663/4	2241/2	2213/4	165/8	18	91/2	18	22	131/2	193/8	203/4	34	210	226

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DIMENSIONS

-"OC" type straight tube—floating head
-outside packed lantern
Shell diameter in inches
Tube length in feet
Number of tube passes

Complete sales number consists of example: OC-86-*

UNIT NUMBER	150#	CONN. ANSI NGES	150#	CONN. ANSI NGES	LEN	RALL IGTH HES)				DIMENSIONS IN INCHES											
1 & 2 PASS	1 PASS	2 PASS	SMALL	LARGE	1 PASS	2 PASS	As	AL	Bs	BL	С	D	Ε	F	Gs	G∟	н	J	к		
OC-208-*	10	6	8	10	141%	126½	771/2	75	193/4	21	1111/8	20	24	151/2	223/8	235/8	39	61	78		
OC-209-*	10	6	8	10	153%	1381/2	891/2	87	193/4	21	111/8	20	24	151/2	223/8	235/8	39	73	90		
OC-2010-*	10	6	8	10	165%	1501/2	1011/2	99	193/4	21	111//8	20	24	151/2	223/8	235/8	39	85	102		
OC-2011-*	10	6	8	10	177%	1621/2	1131/2	111	19¾	21	111/8	20	24	151/2	223/8	235/8	39	97	114		
OC-2012-*	10	6	8	10	189%	1741/2	1251/2	123	19¾	21	111/8	20	24	151/2	223/8	235/8	39	109	126		
OC-2013-*	10	6	8	10	2011/8	1861/2	1371/2	135	19¾	21	111/8	20	24	151/2	223/8	235/8	39	121	138		
OC-2014-*	10	6	8	10	2131/8	1981/2	1491/2	147	19¾	21	111/8	20	24	151/2	223/8	235/8	39	133	150		
OC-2015-*	10	6	8	10	2251/8	2101/2	161½	159	19¾	21	111/8	20	24	151/2	223/8	235/8	39	145	162		
OC-2016-*	10	6	8	10	2371/8	2221/2	1731/2	171	193/4	21	111/8	20	24	151/2	223/8	235/8	39	157	174		
OC-2017-*	10	6	8	10	249%	2341/2	1851/2	183	193/4	21	1111/8	20	24	151/2	223/8	235/8	39	169	186		
OC-2018-*	10	6	8	10	261%	2461/2	1971/2	195	19¾	21	111/8	20	24	151/2	223/8	235/8	39	181	198		
OC-2019-*	10	6	8	10	2731/8	2581/2	2091/2	207	19¾	21	111/8	20	24	151/2	223/8	235/8	39	193	210		
OC-2020-*	10	6	8	10	2851/8	2701/2	2211/2	219	193/4	21	111/8	20	24	151/2	223/8	235/8	39	205	222		
OC-2021-*	10	6	8	10	2971/8	2821/2	2331/2	231	19¾	21	111/8	20	24	151/2	223/8	235/8	39	217	234		
OC-2022-*	10	6	8	10	309%	2941/2	2451/2	243	19¾	21	111/8	20	24	151/2	223/8	235/8	39	229	246		
OC-229-*	12	8	8	12	1531/2	139	84%	80%	20	22	111/8	22	261/8	151/2	251/8	271/8	42	64	92		
OC-2210-*	12	8	8	12	1651/2	151	96%	92%	20	22	111/8	22	261/8	151/2	251/€	271/8	42	76	104		
OC-2211-*	12	8	8	12	1771/2	163	1085/8	104%	20	22	11%	22	261/8	151/2	251/8	271/8	42	88	116		
OC-2212-*	12	8	8	12	1891/2	175	120%	116%	20	22	111/8	22	261/8	151/2	251/8	271/8	42	100	128		
OC-2213-*	12	8	8	12	2011/2	187	1325/8	1285/8	20	22	111/8	22	261/8	151/2	251/8	271/8	42	112	140		
OC-2214-*	12	8	8	12	2131/2	199	1445/8	140%	20	22	11 1/8	22	261/8	151/2	251/8	271/8	42	124	152		
OC-2215-*	12	8	8	12	2251/2	211	1565/8	1525/8	20	22	11 1/8	22	261/8	151/2	251/8	271/8	42	136	164		
OC-2216-*	12	8	8	12	2371/2	223	168%	1645/8	20	22	11 1/8	22	261/8	151/2	251/8	271/8	42	148	176		
OC-2217-*	12	8	8	12	2491/2	235	180%	1765/8	20	22	11 1/8	22	261/8	151/2	251/8	271/8	42	160	188		
OC-2218-*	12	8	8	12	2611/2	247	1925/8	188%	20	22	111/8	22	261/8	151/2	251/8	271/8	42	172	200		
OC-2219-*	12	8	8	12	2731/2	259	2045/8	200%	20	22	11%	22	261/8	151/2	251/8	271/8	42	184	212		
OC-2220-*	12	8	8	12	2851/2	271	216%	2125/8	20	22	11%	22	261/8	151/2	251/8	271/8	42	196	224		
OC-2221-*	12	8	8	12	2971/2	283	2285/8	2245/8	20	22	11 1/8	22	261/8	151/2	251/8	271/8	42	208	236		
OC-2222-*	12	8	8	12	3091/2	295	240%	236%	20	22	11 1/8	22	261/8	151/2	251/8	271/8	42	220	248		
OC-2223-*	12	8	8	12	3211/2	307	2525/8	2485/8	20	22	111/8	5/80	261/8	151/2	251/8	271/8	42	232	260		
OC-2224-*	12	8	8	12	3331/2	319	2645/8	260%	20	22	111/8		261/8	151/2	251/8		42		272		

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IMPORTANT: Designate 1 or 2 pass where asterisk appears. As, Bs, Gs with smaller listed shell openings. AL, BL, GL with larger listed shell openings.

Different size Shell Connections available to suit flow requirement.

Bs. BL, C and overall length dimensions are based upon one-pass head connections.

(continued next page)

DIMENSIONS

"OC" type straight tube—floating head —outside packed lantern
Shell diameter in inches
—Tube length in feet

Number of tube passes

Complete sales number consists of example: OC-86-

1 & 2 PASS OC-249-* 14 OC-2410-* 14 OC-2411-* 14 OC-2412-* 14 OC-2413-* 14 OC-2415-* 14 OC-2416-* 14 OC-2418-* 14 OC-2419-* 14 OC-2420-* 14 OC-2422-* 14 OC-2423-* 14 OC-2424-* 14 OC-2424-* 14 OC-2424-* 16	10 10 10 10 10 10 10 10 10 10 10 10	8 8 8 8 8 8 8 8	12 12 12 12 12 12 12 12	1 PASS 157 169 181 193 205 217 229	2 PASS 141% 153% 165% 177% 189%	83% 95% 107% 119% 131%	79¾ 91¾ 103¾ 115¾	213/8 213/8 213/8 213/8	233/8 233/8	c 12% 12%	24 24	28½ 28½ 28½	F 16½ 16½	G s 26 26	G∟ 281/8	н 45	ј 63	K
OC-2410-* 14 OC-2411-* 14 OC-2412-* 14 OC-2413-* 14 OC-2415-* 14 OC-2416-* 14 OC-2417-* 14 OC-2418-* 14 OC-2419-* 14 OC-2420-* 14 OC-2422-* 14 OC-2423-* 14 OC-2424-* 14 OC-2429-* 16	1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10	8 8 8 8 8 8	12 12 12 12 12 12	169 181 193 205 217	153% 165% 177% 189%	95% 107% 119%	91¾ 103¾	213/8	233/8				200		2202		63	0.1
OC-2411-* 14 OC-2412-* 14 OC-2413-* 14 OC-2415-* 14 OC-2416-* 14 OC-2417-* 14 OC-2418-* 14 OC-2419-* 14 OC-2420-* 14 OC-2421-* 14 OC-2422-* 14 OC-2423-* 14 OC-2424-* 14 OC-269-* 16	1 10 1 10 1 10 1 10 1 10 1 10 1 10	8 8 8 8 8	12 12 12 12 12	181 193 205 217	165% 177% 189%	107 1/8 119 1/8	103¾	22	- 32	121/8	24	281/8	161/3	26	201/	AF		91
OC-2412-* 14 OC-2413-* 14 OC-2414-* 14 OC-2415-* 14 OC-2416-* 14 OC-2417-* 14 OC-2418-* 14 OC-2419-* 14 OC-2420-* 14 OC-2421-* 14 OC-2422-* 14 OC-2423-* 14 OC-2424-* 14 OC-2424-* 16	1 10 1 10 1 10 1 10 1 10 1 10	8 8 8 8	12 12 12 12	193 205 217	177% 189%	1197/8	2/30	213/8	223/			,0	10/2	20	281/8	45	75	103
OC-2413-* 14 OC-2414-* 14 OC-2415-* 14 OC-2416-* 14 OC-2417-* 14 OC-2418-* 14 OC-2419-* 14 OC-2420-* 14 OC-2421-* 14 OC-2422-* 14 OC-2423-* 14 OC-2424-* 14 OC-269-* 16	1 10 1 10 1 10 1 10 1 10 1 10	8 8 8 8	12 12 12	205 217	1895/8	3482.2839	115¾		233/8	121/8	24	281/8	161/2	26	281/8	45	87	115
OC-2414-* 14 OC-2415-* 14 OC-2416-* 14 OC-2417-* 14 OC-2418-* 14 OC-2419-* 14 OC-2420-* 14 OC-2421-* 14 OC-2422-* 14 OC-2423-* 14 OC-2424-* 14 OC-269-* 16	1 10 1 10 1 10 1 10 1 10	8 8 8	12	217		1217/	0.5888	213/8	233/8	121/8	24	281/8	161/2	26	281/8	45	99	127
OC-2415-* 14 OC-2416-* 14 OC-2417-* 14 OC-2418-* 14 OC-2419-* 14 OC-2420-* 14 OC-2421-* 14 OC-2422-* 14 OC-2423-* 14 OC-2424-* 14 OC-2424-* 16	1 10 1 10 1 10 1 10	8	12		0015/	131/8	127¾	213/8	233/8	121/8	24	281/8	161/2	26	281/8	45	111	139
OC-2416-* 14 OC-2417-* 14 OC-2418-* 14 OC-2419-* 14 OC-2420-* 14 OC-2421-* 14 OC-2422-* 14 OC-2423-* 14 OC-2424-* 14 OC-269-* 16	1 10 1 10 1 10	8	-	220	201%	143%	139¾	213/8	233/8	121/8	24	281/8	16½	26	281/8	45	123	151
OC-2417-* 14 OC-2418-* 14 OC-2419-* 14 OC-2420-* 14 OC-2421-* 14 OC-2422-* 14 OC-2423-* 14 OC-2424-* 14 OC-269-* 16	1 10		12	223	2135/8	155%	151¾	213/8	233/8	121/8	24	281/8	16½	26	281/8	45	135	163
OC-2418-* 14 OC-2419-* 14 OC-2420-* 14 OC-2421-* 14 OC-2422-* 14 OC-2423-* 14 OC-2424-* 14 OC-269-* 16	1 10	8	1966	241	2255/8	167 1/8	163¾	213/8	233/8	121/8	24	281/8	161/2	26	281/8	45	147	175
OC-2419-* 14 OC-2420-* 14 OC-2421-* 14 OC-2422-* 14 OC-2423-* 14 OC-2424-* 14 OC-269-* 16			12	253	2375/8	179%	175¾	213/8	233/8	121/8	24	281/8	16½	26	281/8	45	159	187
OC-2420-* 14 OC-2421-* 14 OC-2422-* 14 OC-2423-* 14 OC-2424-* 14 OC-269-* 16	1 10	8	12	265	2495/8	191 1/8	187¾	213/8	233/8	121/8	24	281/8	16½	26	281/8	45	171	199
OC-2421-* 14 OC-2422-* 14 OC-2423-* 14 OC-2424-* 14 OC-269-* 16		8	12	277	261%	203 1/8	199¾	213/8	233/8	121/8	24	281/8	161/2	26	281/8	45	183	211
OC-2422-* 14 OC-2423-* 14 OC-2424-* 14 OC-269-* 16	4 10	8	12	289	2735/8	215%	2113/4	213/8	233/8	121/8	24	281/8	16½	26	281/8	45	195	223
OC-2423-* 14 OC-2424-* 14 OC-269-* 16	4 10	8	12	301	2855/8	2271/8	2233/4	213/8	233/8	121/8	24	281/8	16½	26	281/8	45	207	235
OC-2424-* 14 OC-269-* 16	4 10	8	12	313	2975/8	2391/8	235¾	213/8	233/8	121/8	24	281/8	16½	26	281/8	45	219	247
OC-269-* 16	1 10	8	12	325	3095/8	251 1/8	2473/4	213/8	233/8	121/8	24	281/8	16½	26	281/8	45	231	259
	4 10	8	12	337	321%	263 1/8	259¾	213/8	233/8	121/8	24	281/8	161/2	26	281/8	45	243	271
OC-2610-* 16	5 10	8	14	161%	1443/4	831/4	785/8	23	25%	141/4	26	30%	171/2	271/8	291/8	49	60	90
00 2010 10	5 10	8	14	1731/8	156¾	951/4	90%	23	25 1/8	141/4	26	30%	171/2	271/8	291/8	49	72	102
0C-2611-* 16	5 10	8	14	185%	168¾	1071/4	1025/8	23	25%	141/4	26	30%	171/2	271/8	291/8	49	84	114
0C-2612-* 16	5 10	8	14	197 1/8	180¾	1191/4	1145/8	23	255/8	141/4	26	305/8	171/2	271/8	291/8	49	96	126
OC-2613-* 16	6 10	8	14	209%	1923/4	1311/4	1265/8	23	255/8	141/4	26	305/8	171/2	271/8	291/8	49	108	138
OC-2614-* 16	5 10	8	14	221 1/8	2043/4	1431/4	138%	23	255/8	141/4	26	30%	171/2	271/8	291/8	49	120	150
0C-2615-* 16	5 10	8	14	233 1/8	2163/4	1551/4	1505/8	23	255/8	141/4	26	30%	171/2	271/8	291/8	49	132	162
OC-2616-* 16	6 10	8	14	245%	2283/4	1671/4	1625/8	23	255/8	141/4	26	30%	171/2	271/8	291/8	49	144	174
0C-2617-* 16	5 10	8	14	257 1/8	2403/4	1791/4	1745/8	23	255/8	141/4	26	305/8	171/2	271/8	291/8	49	156	186
OC-2618-* 16	6 10	8	14	2697/8	252¾	1911/4	1865/8	23	25%	141/4	26	305/8	171/2	271/8	291/8	49	168	198
OC-2619-* 16	6 10	8	14	281 1/8	2643/4	2031/4	198%	23	25%	141/4	26	30%	171/2	271/8	291/8	49	180	210
OC-2620-* 16		8	14	2937/8	2763/4	2151/4	TOTAL FACTOR	1 - V (2220) 1 (3.020e)	25%		37,000	305/8	171/2	271/8	291/8	49	192	222
OC-2621-* 16		8	14	305 1/8	2883/4	2271/4	2225/8	23	25 1/8	Control of the contro	A500865	305/8	171/2	271/8	291/8	49	204	234
OC-2622-* 16		8	14	3171/8		2391/4	2345/8		25%	7-11-22-23-23-23-23-23-23-23-23-23-23-23-23-	53.00	305/8		271/8		49	70000	246

NOTES: Bolt holes straddle center lines on flanged openings. Legs available at extra cost. Removable bundle. Removable heads. Channel covers removable. Dimensions are subject to change. If exact dimensions are needed for layout, write for certified drawings. See front page for flange connection sizes and construction materials.

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Bs, BL, C and overall length dimensions are based upon one-pass head connections.

(continued next page)

DIMENSIONS

-"OC" type straight tube—floating head
-outside packed lantern
- Shell diameter in inches
- Tube length in feet
- Number of tube passes

								LL Consists of example: OC-86-*												
UNIT NUMBER	150#	CONN. ANSI NGES	150#	CONN. ANSI NGES	LEN	RALL IGTH HES)					DIME	ENSION	IS IN IN	CHES						
1 & 2 PASS	PASS	2 PASS	SMALL	LARGE	1 PASS	2 PASS	As	AL	Bs	В∟	С	D	E	F	Gs	GL	н	J	к	
OC-289-*	16	12	10	14	1621/4	1453/8	813/4	781/2	241/8	25¾	143/8	28	325/8	181/2	275/8	291/4	49	60	90	
OC-2810-*	16	12	10	14	1741/4	1573/8	93¾	901/2	241/8	25¾	143/8	28	325/8	181/2	275/8	291/4	49	72	102	
OC-2811-*	16	12	10	14	1861/4	1693/8	105¾	1021/2	241/8	25¾	143/8	28	325/8	181/2	275/8	291/4	49	84	114	
OC-2812-*	16	12	10	14	1981/4	1813/8	1173/4	1141/2	241/8	25¾	143/8	28	325/8	181/2	275/8	291/4	49	96	126	
OC-2813-*	16	12	10	14	2101/4	1933/8	129¾	1261/2	241/8	25¾	143/8	28	325/8	181/2	275/8	291/4	49	108	138	
OC-2814-*	16	12	10	14	2221/4	2053/8	1413/4	1381/2	241/8	253/4	143/8	28	325/8	181/2	275/8	291/4	49	120	150	
OC-2815-*	16	12	10	14	2341/4	2173/8	153¾	1501/2	241/8	25¾	143/8	28	325/8	181/2	275/8	291/4	49	132	162	
OC-2816-*	16	12	10	14	2461/4	2293/8	165¾	1621/2	241/8	25¾	143/8	28	325/8	181/2	275/8	291/4	49	144	174	
OC-2817-*	16	12	10	14	2581/4	2413/8	1773/4	1741/2	241/8	253/4	143/8	28	325/8	181/2	275/8	291/4	49	156	186	
OC-2818-*	16	12	10	14	2701/4	2533/8	189¾	1861/2	241/8	253/4	143/8	28	32%	181/2	275/8	291/4	49	168	198	
OC-2819-*	16	12	10	14	2821/4	2653/8	201¾	1981/2	241/8	25¾	143/8	28	325/8	181/2	275/8	291/4	49	180	210	
OC-2820-*	16	12	10	14	2941/4	2773/8	213¾	2101/2	241/8	25¾	143/8	28	325/8	181/2	275/8	291/4	49	192	222	
OC-309-*	18	12	10	16	166%	1483/8	811/2	761/4	251/2	281/8	15%	30	34%	191/2	285/8	311/4	54	56	90	
OC-3010-*	18	12	10	16	1781/8	1603/8	931/2	881/4	251/2	281/8	155/8	30	345/8	191/2	285/8	311/4	54	68	102	
OC-3011-*	18	12	10	16	190%	1723/8	1051/2	1001/4	251/2	281/8	15%	30	345/8	191/2	285/8	311/4	54	80	114	
OC-3012-*	18	12	10	16	2021/8	1843/8	1171/2	1121/4	251/2	281/8	155/8	30	345/8	191/2	285/8	311/4	54	92	126	
OC-3013-*	18	12	10	16	2141/8	1963/8	1291/2	1241/4	251/2	281/8	15%	30	34%	191/2	285/8	311/4	54	104	138	
OC-3014-*	18	12	10	16	2261/8	2085/8	1411/2	1361/4	251/2	281/8	15%	30	345/8	191/2	285/8	311/4	54	116	150	
OC-3015-*	18	12	10	16	2381/8	2203/8	1531/2	1481/4	251/2	281/8	15%	30	345/8	191/2	285/8	311/4	54	128	162	
OC-3016-*	18	12	10	16	250%	2323/8	1651/2	1601/4	251/2	281/8	15%	30	345/8	191/2	285/8	311/4	54	140	174	
OC-3017-*	18	12	10	16	2621/8	2443/8	1771/2	1721/4	251/2	281/8	15%	30	345/8	191/2	285/8	311/4	54	152	186	
OC-3018-*	18	12	10	16	2741/8	2563/8	1891/2	1841/4	251/2	281/8	15%	30	345/8	191/2	285/8	311/4	54	164	198	
OC-3019-*	18	12	10	16	286 1/8	2683/8	2011/2	1961/4	251/2	281/8	15%	30	345/8	191/2	285/8	311/4	54	176	210	
OC-3020-*	18	12	10	16	2981/8	2803/8	2131/2	2081/4	251/2	281/8	155/8	30	345/8	191/2	285/8	311/4	54	188	222	

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Different size Shell Connections available to suit flow requirement.

Bs, Bt, C and overall length dimensions are based upon one-pass head connections.

TYPICAL SPECIFICATIONS

Furnish and install approximately where shown on plans and with manufacturers' recommendations; heat exchangers according to the following specifications:

1.	DUTY Condenser Evaporator	CoolerHeater	
2.		Tube Side	Shell Side
	 a. Fluid Circulated b. Total Flow c. Temperature d. Heat Load BTU/Hr. e. Operating Pressure f. Maximum Pressure Droperation g. Minimum Tube Surface h. Minimum Shell Diamete 		
3.	TYPE Shell and tube, straight tube withcast iron sade		e packed lantern ring. Equipped s.
4.	MATERIALS		
	a. Heads (Channel) b. Tube Sheets d. Tubes		c. Baffles Wall Thickness
5.	CONSTRUCTION* (See bott	tom of page)	
	provisions of the ASME request. This form must Board commission, certifor pressure vessels for: Shell Head as detailed in form No. I heat exchanger. b. The manufacturer shall c. Tube rolling will be continued.	E Code Rules, is to be be signed by an authorized fying that construction of the PSIG design property of the PSIG design property. The ASME "U" synthetical synthetical for uniform expansion of the PSIG design property.	nsion into tube sheets.
6.	d. Gasket surfaces will be MANUFACTURERS	prepared with surface g	grinder.
О.	Exchangers shall be as man	one commence of the commence o	Gossett with factory No
***	Model No	560265 NO.	
SY	SIEM DESIGN NOTE: To protect	unit, a relief valve should t	be provided on the heated water side.

*Compliance with this part of the specification will insure acceptance of the vessel by any state or local jurisdiction in the United States.

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