



#### Model CHXS Heat Exchangers

# Fixed tube sheet stainless steel heat exchangers

- Liquid to Liquid
- Liquid to Gas
- Cooling and Heating



**Bell & Gossett** 



#### **BELL & GOSSETT COMPACT HEAT EXCHANGERS**

## CHXS the Standard in Stainless

#### **Standard Construction Features**

- 316 Stainless Steel Components
- NPT pipe thread connection on 2 thru 8 inch models.
- Flanged connections on 10 and 12 inch models
- Single, two or four pass on all models except 2 inch.
- Carbon steel bolting and support feet
- Enlarged full dispersion hubs
- Minimum baffle-shell and baffle-tube clearances
- Roller expanded tube to tubesheet joints
- Flanged baffle lips for tube support
- Compressed fiber gaskets
- 1/4" O.D. tubes on 2 and 3 inch models;
- <sup>3</sup>/<sub>8</sub>" O.D. tubes on other models

#### **Available Options**

- ASME code on 4 thru 12 inch models
- Stainless steel bolts and support feet
- 1/4", 3/8" or 5/8" O.D. tubes
- Double tubesheets leak detection
- Flanged connections
- SAE straight thread connections
- Polished tubeside to meet FDA requirements
- 304 Stainless materials
- Welded tube joints
- Teflon impregnated gaskets

#### Lowest Total Cost – When You Put It All Together:

- · Production and scheduling savings from fast delivery
- Process consistency from predictable performance
- · Low downtime because of maximized service life
- Low initial cost due to product standardization
- Low operating cost because of optimized selection

#### You'll Find CHXS Ideal For:

- Lubricating oil
- Hydraulic oil
- Heat transfer oil
- Vegetable oil
- Food product (Non FDA)
- Chemical process fluids
- Pharmaceutical fluids
- Air and gases
- Brine solutions
- Refrigerants
- Acids
- Steam
- Glycol solutions
- Hydrocarbons

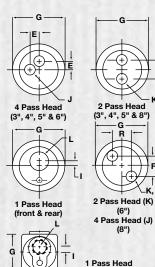
The result is the lowest total cost stainless steel heat exchanger on the market

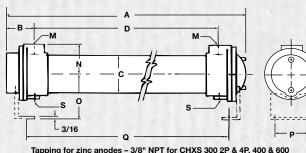
#### TYPE CHXS HEAT EXCHANGERS DIMENSIONS

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(2" Only)





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

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

Tubeside	Shellside
150 PSI	225 PSI
225 PSI	338 PSI
450°F	450°F
	150 PSI 225 PSI

Materials of Construction**
Heads – 316SS, Shell – 316SS
Tube Sheets – 316SS, Shell Ends – 316SS
Tubes - CHXS 200, 300 & 400 Series 1/4 in. 316SS
CHXS 500, 600 & 800 Series 3/8 in. 316SS
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MODEL		1 PASS 2		2 P/	PASS 4 PA		ASS																		
	AREA SQ. FT.	A IN.	B IN.	A IN.	B IN.	A IN.	B IN.	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.
CHXS-208-*	1.2	1015/16	2 <sup>3</sup> / <sub>16</sub>	-	-	-		2 <sup>1</sup> /8	65/8	-	-	2 <sup>9</sup> / <sub>16</sub>	-	3/8	-	-	3/4	†	11/2	-	-	-		-	6
CHXS-214-*	2.1	1615/16		-		-	-		125/8													-	-		8
CHXS-308-*	2.4	111/4	29/16	101/2		103/8	/8 /8 2 <sup>5</sup> /16	31/8	6 <sup>1</sup> /8		-	43/16	2	3/8	3/4	1	11/2	1	27/16	23/8	31/4	<b>7</b> <sup>1</sup> / <sub>2</sub>	-	24	12
CHXS-314-*	4.3	171/4		161/2	07/	163/8			121/8													13 <sup>1</sup> / <sub>2</sub>			15
CHXS-324-*	7.3	271/4		261/2	27/16	263/8			221/8	1												23 <sup>1</sup> / <sub>2</sub>	-	3/8	20
CHXS-336-*	11	39 <sup>1</sup> / <sub>4</sub>		<b>38</b> <sup>1</sup> / <sub>2</sub>		383/8			341/8													35 <sup>1</sup> / <sub>2</sub>			26
CHXS-414-*	8.3	18		175/8	37/16	175/8	37/16	41/8	111/8	11/16	-	57/8	23/8	1/2	3/4	11/4	2	11/2	31/8	31/2	31/2	127/8	-	3/8	41
CHXS-424-*	14.1	28	37/16	275/8		275/8			211/8													227/8			50
CHXS-436-*	21.1	40		395/8		395/8			33 <sup>1</sup> /8													347/8			60
CHXS-514-*	9.1	18 <sup>1</sup> /2	10	<b>17</b> <sup>15</sup> / <sub>16</sub>	311/16	<b>17</b> <sup>13</sup> / <sub>16</sub>	-	51/8	111/8	<b>1</b> <sup>11</sup> / <sub>16</sub>	-	61/2	3	-	1	11/2	<b>2</b> <sup>1</sup> / <sub>2</sub>	11/2	35/8	31/2	4	<b>11</b> <sup>3</sup> / <sub>4</sub>	-	1/2	50
CHXS-524-*	15.7	281/2	311/16	27 <sup>15</sup> / <sub>16</sub>		27 <sup>13</sup> / <sub>16</sub>			211/8													21 <sup>3</sup> /4			60
CHXS-536-*	23.5	40 <sup>1</sup> / <sub>2</sub>		<b>39</b> <sup>15</sup> / <sub>16</sub>		<b>39</b> <sup>13</sup> / <sub>16</sub>			33 <sup>1</sup> /8													<b>33</b> <sup>3</sup> / <sub>4</sub>			84
CHXS-624-*	23	281/2	1.1	281/8		281/8			201/2	2	-			2 <sup>5</sup> /8 —	11/2	2	3	2	41/4	41/8	5	21 <sup>3</sup> /8		1/2	80
CHXS-636-*	34	401/2	4	401/8	-	401/8	4	61/8	321/2			<b>7</b> <sup>1</sup> / <sub>2</sub>	35/8									333/8	-		105
CHXS-648-*	46	52 <sup>1</sup> / <sub>2</sub>		52 <sup>1</sup> /8		52 <sup>1</sup> /8			44 <sup>1</sup> / <sub>2</sub>													45 <sup>3</sup> /8			130
CHXS-824-*	41	28 <sup>1</sup> / <sub>2</sub>		28		28		81/8	19 <sup>1</sup> /4		2 <sup>13</sup> /16	93/4	41/2	-	2	21/2	3	3	55/8	53/8		201/8			115
CHXS-836-*	62	401/2	45/8	40		40			311/4	-												321/8	-		200
CHXS-848-*	83	52 <sup>1</sup> / <sub>2</sub>		52		52			43 <sup>1</sup> / <sub>4</sub>													44 <sup>1</sup> /8			240
CHXS-860-*	103	64 <sup>1</sup> / <sub>2</sub>		64		64	4 <sup>5</sup> /8		55 <sup>1</sup> /4												7	56 <sup>1</sup> /8	5	3/4	280
CHXS-872-*	124	76 <sup>1</sup> / <sub>2</sub>		76		76			671/4													68 <sup>1</sup> /8			320
CHXS-884-*	145	88 <sup>1</sup> / <sub>2</sub>		88	1	88			79 <sup>1</sup> /4													80 <sup>1</sup> /8			360
CHXS-896-*	166	1001/2		100		100			91 <sup>1</sup> /4													92 <sup>1</sup> /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.

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