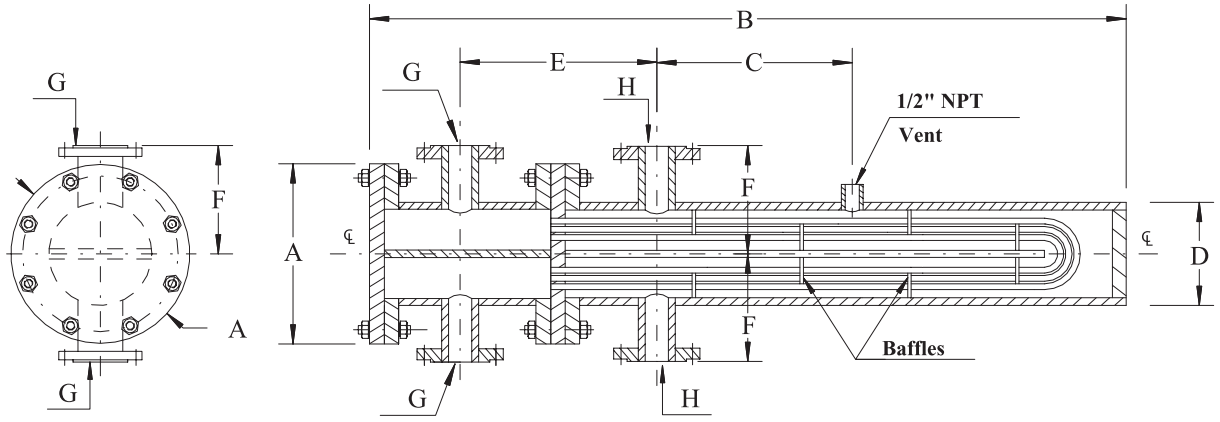
THE ALSTROM CORPORATION

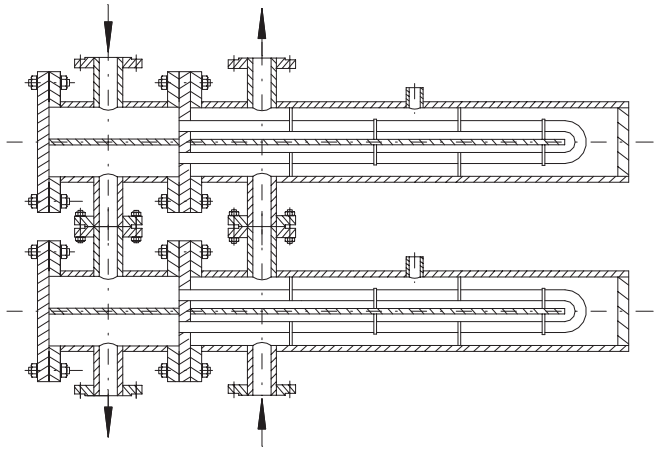
1408 Seabury Ave. Bronx, NY 10461 tel 718.824.4901 fax 718.409.3605 • alstromcorp.com

True Countercurrent Flow Heat Exchangers Series "ATC"

Typical Applications	**To have the capacity to heat_____gpm of_____ in the (shell) (tubes)**
Heat recovery systems Process heat transfer	**from_____F to_____F using_____gpm of_____, entering at_____F.**
Easy removal of tube bundle Unaffected by thermal expansion Close temperature approach	**Unit to be constructred in accordance with ASME requirements. ASME Stamp is (not) required.** **Unit to have no more than _____ ft. of length and ____ psi pressure drop in the shell and _____psi in the tubes.**



Multiple Shells



ATC-2-6-60

- Tube bundle immersion length
- Nominal shell diameter
- Number of shells
- "ATC" Series

Connections

PIPE SIZE	FROM	TO
INCHES	GPM	GPM
1/2		4.6
3/4	4.6	10.0
1	10.0	20.0
1-1/4	20.0	30.0
1-1/2	30.0	40.0
2	40.0	70.0
2-1/2	70.0	100.0
3	100.0	150.0
4	150.0	260.0
6	260.0	290.0
8	290.0	1000.0
10	1000.0	1600.0
12	1600.0	2400.0

Design Pressure & Temperature	Side	Standard	Customized
	Shell	150 psi @ 400 F	
	Tube	150 psi @ 400 F	
Head		Carbon Steel, Stainless Steel, Cast Iron	
Shell		Carbon Steel, Stainless Steel	
Tubesheet		Carbon Steel, Stainless Steel	
Tubes O.D. 1/2", 5/8", 3/4"		Copper, Stainless Steel, Carbon Steel	

* - Various materials and working conditions can be provided.
- Legs can be supplied when specified.
- Space equal to or greater than dimension "B" should be provided for removal of tube bundle.

* - All Heat Exchangers are designed and manufactured according to ASME Code, Section VIII, Div.1. ASME U-1 Form, Stamp, and N.B. Number are provided upon request for an additional cost.

* - All heaters have a one year guarantee against failure caused by materials or workmanship, but not against gasket failure or damage caused by corrosion, water hammer, fouling, sealing, excessive pressure or temperature, incorrect installation or other factor beyond the manufacturer's control.

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Threaded couplings are according to ANSI NPT for sizes up to 3". Flanged connections are optional. For 4" and up the connections are flanged according to ANSI.

Direction and sizes of connections may be specified by the customer, providing easy assembly of a new system or replacement of an old heat exchanger.

The actual dimensions of a heat exchanger depend upon its performance and may be modified during the preparatio of working drawings.

Dimension Table

ATC	A	D	E	F	G			H	ATC
					2 PASS	4 PASS	6 PASS		
*-4-**	7-1/4	4-1/2	11-1/4	6-1/2	1-1/4	1		1-1/4	*-4-**
*-5-**	8-1/4	5-9/16	12-1/2	7-3/4	1-1/4	1		2	*-5-**
*-6-**	9-1/4	6-5/8	12-1/2	7-3/4	2	1-1/2	1-1/4	2	*-6-**
*-8-**	12	8-5/8	13-3/4	9	2-1/2	2	2	3	*-8-**
*-10-**	15	10-3/4	14-1/2	10	3	3	2-1/2	3	*-10-**
*-12-**	17	12-3/4	16-1/4	10-1/2	4 Flg	3	3	3	*-12-**
*-14-**	19	14	17-1/2	12	5 Flg	4 Flg	3	4 Flg	*-14-**
*-16-**	21	16	18-1/2	13	6 Flg	5 Flg	4 Flg	4 Flg	*-16-**
*-18-**	23	18	21	14	8 Flg	5 Flg	4 Flg	6 Flg	*-18-**
*-20-**	25	20	22-1/2	15	8 Flg	6 Flg	5 Flg	8 Flg	*-20-**
*-24-**	29	24	24-1/2	17	10 Flg	8 Flg	6 Flg	8 Flg	*-24-**
TYPE									
SIZE									

Customized Heat Exchanger →

Dimensions in inches Weight in pounds

ATC		**24	**30	**36	**42	**48	**54	**60	**66	**72	**78	**84	**90	**96	**108	**120	**144
*-4-**	B	38	44	50	56	62	68	74	80	86	92	98	104	110	122	134	158
	C	7	10	13	16	19	22	25	28	31	34	37	40	43	49	55	67
	WGT	68	75	83	90	96	104	112	119	127	134	141	148	156	172	188	220
*-5-**	B	39	45	51	57	63	69	75	81	87	93	99	105	111	123	135	157
	C	7	10	13	16	19	22	25	28	31	34	37	40	43	49	55	67
	WGT	100	115	130	145	160	175	190	205	220	235	250	265	280	210	240	300
*-6**	B	39	45	51	57	63	69	75	81	87	93	99	105	111	123	135	159
	C	7	10	13	16	19	22	25	28	31	34	37	40	43	49	55	67
	WGT	134	148	162	176	190	204	218	233	248	261	276	290	305	440	470	530
*-8-**	B	41	47	53	59	65	71	77	83	89	95	101	107	113	125	137	161
	C	7	10	13	16	19	22	25	28	31	34	37	40	43	49	55	67
	WGT	190	222	250	277	305	333	360	388	416	444	472	500	527	590	650	770
*-10-**	B	42	48	54	60	66	72	78	84	90	96	102	108	114	126	138	162
	C	7	10	13	16	19	22	25	28	31	34	37	40	43	49	55	67
	WGT	320	348	377	404	432	459	487	515	544	571	599	626	653	710	766	880
*-12-**	B	44	50	56	62	68	74	80	86	92	98	104	110	116	128	140	164
	C	6	9	12	15	18	21	24	27	30	33	36	39	42	48	54	66
	WGT	417	453	490	527	564	601	638	675	714	751	788	825	862	937	1011	1170
*-14-**	B	46	52	58	64	70	76	82	88	94	100	106	112	118	130	142	168
	C	6	9	12	15	18	21	24	27	30	33	36	39	42	48	54	66
	WGT	660	704	748	791	835	879	923	967	1014	1058	1102	1146	1190	1282	1420	1700
*-16-**	B	48	54	60	66	72	78	84	90	96	102	108	114	120	132	144	168
	C	6	9	12	15	18	21	24	27	30	33	36	39	42	48	54	66
	WGT	819	874	929	984	1040	1096	1152	1207	1271	1327	1383	1438	1494	1614	1725	1930
*-18-**	B	50	56	62	68	74	80	86	92	98	104	110	116	122	134	146	170
	C	4	7	10	13	16	19	22	25	28	31	34	37	40	46	52	64
	WGT	1055	1130	1205	1280	1356	1431	1506	1582	1662	1742	1818	1893	1968	2130	2280	2580
*-20-**	B	51	57	63	69	75	81	87	93	99	105	111	117	123	135	147	171
	C	4	7	10	13	16	19	22	25	28	31	34	37	40	46	52	64
	WGT	1258	1357	1456	1555	1654	1753	1852	1951	2062	2161	2260	2359	2458	2670	2870	3270
*-24-**	B	55	61	67	73	79	85	91	97	103	109	115	121	127	139	151	175
	C	4	7	10	13	16	19	22	25	28	31	34	37	40	46	52	64
	WGT	1450	1560	1650	1750	1850	1950	2050	2150	2260	2360	2460	2560	2660	2870	3070	3470