



EXCHANGER SIZE * - BAFFLE SPACING	DIMENSIONS											
	A		B		C		D		N1		N2	
	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm
WS3H-102-4*-E4	49 1/8	1248	23 3/4	603	11 3/4	298	26	660	4	102	1 1/2	38
WS3H-103-4*-E4	61 1/8	1553	35 3/4	908	23 3/4	603	38	965	4	102	1 1/2	38
WS3H-104-4*-E4	73 1/8	1858	47 3/4	1213	35 3/4	908	50	1270	6	152	2	51
WS3H-105-4*-E4	85 1/8	2163	59 3/4	1518	47 3/4	1213	62	1574	6	152	2	51
WS3H-106-4*-E4	97 1/8	2467	71 3/4	1822	59 3/4	1518	74	1879	6	152	2	51
WS3H-107-4*-E4	109 1/8	2772	83 3/4	2127	71 3/4	1822	86	2184	6	152	2	51
WS3H-108-4*-E4	121 1/8	3077	95 3/4	2432	83 3/4	2127	98	2489	6	152	2	51
WS3H-109-4*-E4	133 1/8	3382	107 3/4	2737	95 3/4	2432	110	2794	6	152	2	51
WS3H-1010-4*-E4	145 1/8	3687	119 3/4	3042	107 3/4	2737	122	3098	6	152	2	51
WS3H-1011-4*-E4	157 1/8	3991	131 3/4	3346	119 3/4	3042	134	3403	6	152	2	51
WS3H-1012-4*-E4	169 1/8	4296	143 3/4	3651	131 3/4	3346	146	3708	6	152	2	51
WS3H-1013-4*-E4	181 1/8	4601	155 3/4	3956	143 3/4	3651	158	4013	6	152	2	51
WS3H-1014-4*-E4	193 1/8	4906	167 3/4	4261	155 3/4	3956	170	4318	6	152	2	51
WS3H-1015-4*-E4	205 1/8	5210	179 3/4	4566	167 3/4	4261	182	4623	6	152	2	51

NOZZLE SCHEDULE				
SERVICE	MARK	SHELL SIDE	MARK	TUBE SIDE
INLET	(N1)	AS PER TABLE	(N5)	3 (76) 300# FLG.
OUTLET	(N2)	AS PER TABLE	(N6)	3 (76) 300# FLG.
DRAIN	(N3)	1/2 (13) NPT	(N7)	1/2 (13) NPT
VENT	(N4)	3/4 (19) NPT		

- NOTES:
1. SUPPORTS SUPPLIED ONLY IF SPECIFIED ON ORDER.
 2. NOZZLE SIZES SHOWN ARE RECOMMENDED FOR MAX. EXCHANGER LIFE, NO EXTERNAL FORCES APPLY.
 3. FABRICATED TO ASME CODE SECTION VIII DIVISION 1 AND LATEST ADDENDA.
 4. DRAWING IS NOT TO SCALE.
 5. ALL DIM'S ±1/8 (3) UNLESS OTHERWISE SHOWN.

DESIGN CONDITIONS				
	SHELL		TUBES	
DESIGN PRESSURE	300 PSIG	2068 KPa	300 PSIG	2068 KPa
DESIGN TEMPERATURE	375 °F	191 °C	375 °F	191 °C
MIN. DESIGN METAL TEMP.	35 °F	1.7 °C	35 °F	1.7 °C
HYDRO. TEST PRESSURE	450 PSIG	3102 KPa	450 PSIG	3102 KPa
CONTENTS	STEAM		WATER	

CUSTOMER:
LOCATION:
ENGINEER:
ORDER No.:
PROJECT/JOB:
LOCATION:
TAG: (QUOTE #)

TITLE G.A. 300 LB. WS SERIES HEAT EXCHANGERS	A R M S T R O N G				NUMBER WS3H-10-4P-E4	REV.
DATE: 03 / 09 / 01 BY: J.R.	TORONTO - CANADA TEL: (416) 755-2291	MONTREAL - CANADA TEL: (514) 421-2424	BUFFALO - N. Y. TEL: (716) 693-8813	COLCHESTER - U.K. TEL: (44) 120-657-9491		