



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*-4	37 3/8	949	11 1/2	292	—	—	26	660	4	102	1 1/2	38
WS3H-103-4*-4	49 3/8	1254	23 1/2	597	11 1/2	292	38	965	4	102	1 1/2	38
WS3H-104-4*-4	61 3/8	1559	35 1/2	902	23 1/2	597	50	1270	6	152	2	51
WS3H-105-4*-4	73 3/8	1864	47 1/2	1207	35 1/2	902	62	1574	6	152	2	51
WS3H-106-4*-4	85 3/8	2169	59 1/2	1511	47 1/2	1207	74	1879	6	152	2	51
WS3H-107-4*-4	97 3/8	2473	71 1/2	1816	59 1/2	1511	86	2184	6	152	2	51
WS3H-108-4*-4	109 3/8	2778	83 1/2	2121	71 1/2	1816	98	2489	6	152	2	51
WS3H-109-4*-4	121 3/8	3083	95 1/2	2426	83 1/2	2121	110	2794	6	152	2	51
WS3H-1010-4*-4	133 3/8	3389	107 1/2	2731	95 1/2	2426	122	3098	6	152	2	51
WS3H-1011-4*-4	145 3/8	3693	119 1/2	3035	107 1/2	2731	134	3403	6	152	2	51
WS3H-1012-4*-4	157 3/8	3997	131 1/2	3340	119 1/2	3035	146	3708	6	152	2	51
WS3H-1013-4*-4	169 3/8	4302	143 1/2	3645	131 1/2	3340	158	4013	6	152	2	51
WS3H-1014-4*-4	181 3/8	4607	155 1/2	3950	143 1/2	3645	170	4318	6	152	2	51
WS3H-1015-4*-4	193 3/8	4912	167 1/2	4255	155 1/2	3950	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 WS3T-10-4P-4	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	DOLCHESTER - U.K. TEL: (44) 120-657-9491		