



EXCHANGER SIZE *BAFFLE SPACING	DIMENSIONS											
	A		B		C		D		N1		N2	
	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm
WS3H-42-2*-E3	35 1/4	895	23 1/4	591	15 7/8	403	26	660	2	51	1	25
WS3H-43-2*-E3	47 1/4	1200	35 1/4	895	27 7/8	708	38	965	2	51	1	25
WS3H-44-2*-E3	59 1/4	1505	47 1/4	1200	39 7/8	1013	50	1270	2	51	1	25
WS3H-45-2*-E3	71 1/4	1810	59 1/4	1505	51 7/8	1318	62	1575	2 1/2	64	1 1/4	32
WS3H-46-2*-E3	83 1/4	2115	71 1/4	1810	63 7/8	1622	74	1879	2 1/2	64	1 1/4	32
WS3H-47-2*-E3	95 1/4	2419	83 1/4	2115	75 7/8	1927	86	2184	2 1/2	64	1 1/4	32
WS3H-48-2*-E3	107 1/4	2724	95 1/4	2419	87 7/8	2232	98	2489	2 1/2	64	1 1/4	32
WS3H-49-2*-E3	119 1/4	3029	107 1/4	2724	99 7/8	2537	110	2794	2 1/2	64	1 1/4	32
WS3H-410-2*-E3	131 1/4	3334	119 1/4	3029	111 7/8	2842	122	3099	2 1/2	64	1 1/4	32

NOZZLE SCHEDULE				
SERVICE	MARK	SHELL SIDE	MARK	TUBE SIDE
INLET	N1	AS PER TABLE	N5	1-1/4 (32) NPT
OUTLET	N2	AS PER TABLE	N6	1-1/4 (32) NPT
VENT	N4	3/4 (19) NPT		

NOTES: 1. SUPPORTS SUPPLIED ONLY IF SPECIFIED ON ORDER.
 2. NOZZLE SIZES SHOWN ARE RECOMMENDED FOR MAXIMUM EXCHANGER LIFE.
 3. FABRICATED TO ASME CODE SECTION VIII DIVISION 1 AND LATEST ADDENDA.
 4. DRAWING IS NOT TO SCALE.
 5. ALL DIMN'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-4-2P-E3	REV.	
DATE:	11 / 15 / 00	BY:	J.R.	TORONTO - CANADA	MONTREAL - CANADA	BUFFALO - N. Y.	COLCHESTER - U.K.		
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