



DIMENSIONS SHOWN AS: inches (mm)

2 - 3/4 (19) DIA. HOLES (TYP.)

2-1/2 (64)

EXCHANGER SIZE *BAFFLE SPACING	DIMENSIONS											
	A		B		C		D		N1		N2	
	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm
WS3H-42-4*-E4	41 5/8	1057	23 1/4	591	15 7/8	403	26	660	2	51	1	25
WS3H-43-4*-E4	53 5/8	1362	35 1/4	895	27 7/8	708	38	965	2	51	1	25
WS3H-44-4*-E4	65 5/8	1667	47 1/4	1200	39 7/8	1013	50	1270	2	51	1	25
WS3H-45-4*-E4	77 5/8	1972	59 1/4	1505	51 7/8	1318	62	1575	2 1/2	64	1 1/4	32
WS3H-46-4*-E4	89 5/8	2276	71 1/4	1810	63 7/8	1622	74	1879	2 1/2	64	1 1/4	32
WS3H-47-4*-E4	101 5/8	2581	83 1/4	2115	75 7/8	1927	86	2184	2 1/2	64	1 1/4	32
WS3H-48-4*-E4	113 5/8	2886	95 1/4	2419	87 7/8	2232	98	2489	2 1/2	64	1 1/4	32
WS3H-49-4*-E4	125 5/8	3191	107 1/4	2724	99 7/8	2537	110	2794	2 1/2	64	1 1/4	32
WS3H-410-4*-E4	137 5/8	3496	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) 300# FLG.
OUTLET	N2	AS PER TABLE	N6	1-1/4 (32) 300# FLG.
DRAIN			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 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-4-4P-E4	REV.
DATE: 11 / 15 / 00 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		