



DIMENSIONS SHOWN AS: inches (mm)

HOLES (TYP.)

EXCHANGER SIZE *-BAFFLE SPACING	DIMENSIONS											
	A		B		C		D		N1		N2	
	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm
WS3H-123-2*-4	52 5/8	1337	21 1/2	546	7 1/4	184	38	965	6	152	2	51
WS3H-124-2*-4	64 5/8	1641	33 1/2	851	19 1/4	489	50	1270	6	152	2	51
WS3H-125-2*-4	76 5/8	1946	45 1/2	1156	31 1/4	794	62	1574	6	152	2	51
WS3H-126-2*-4	88 5/8	2251	57 1/2	1461	43 1/4	1099	74	1879	6	152	2	51
WS3H-127-2*-4	100 5/8	2556	69 1/2	1765	55 1/4	1403	86	2184	8	203	2 1/2	64
WS3H-128-2*-4	112 5/8	2861	81 1/2	2070	67 1/4	1708	98	2489	8	203	2 1/2	64
WS3H-129-2*-4	124 5/8	3165	93 1/2	2375	79 1/4	2013	110	2794	8	203	2 1/2	64
WS3H-1210-2*-4	136 5/8	3470	105 1/2	2680	91 1/4	2318	122	3098	8	203	2 1/2	64
WS3H-1211-2*-4	148 5/8	3775	117 1/2	2985	103 1/4	2623	134	3403	8	203	2 1/2	64
WS3H-1212-2*-4	160 5/8	4080	129 1/2	3289	115 1/4	2927	146	3708	8	203	2 1/2	64
WS3H-1213-2*-4	172 5/8	4385	141 1/2	3594	127 1/4	3232	158	4013	8	203	2 1/2	64
WS3H-1214-2*-4	184 5/8	4689	153 1/2	3899	139 1/4	3537	170	4318	8	203	2 1/2	64
WS3H-1215-2*-4	196 5/8	4994	165 1/2	4204	151 1/4	3842	182	4623	8	203	2 1/2	64

NOZZLE SCHEDULE

SERVICE	MARK	SHELL SIDE	MARK	TUBE SIDE
INLET	N1	AS PER TABLE	N5	4 (102) 300# (RFSQ) FIG.
OUTLET	N2	AS PER TABLE	N6	4 (102) 300# (RFSQ) FIG.
DRAIN	N3	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-12-2P-4	REV.
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