



Steam inlet pressure not to exceed 30 psig.  
For higher steam pressure, use Extended shell.

EXCHANGER SIZE	DIMENSIONS											
	A		B		C		D		N1		N2	
	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm
WS-203-2-4	57 7/8	1470	13 1/2	343	N/A	N/A	39	991	12	305	4	102
WS-204-2-4	69 7/8	1775	25 1/2	648	10 1/2	267	51	1295	12	305	4	102
WS-205-2-4	81 7/8	2080	37 1/2	953	22 1/2	572	63	1600	12	305	4	102
WS-206-2-4	93 7/8	2384	49 1/2	1257	34 1/2	876	75	1905	12	305	4	102
WS-207-2-4	105 7/8	2689	61 1/2	1562	46 1/2	1181	87	2210	12	305	4	102
WS-208-2-4	117 7/8	2994	73 1/2	1867	58 1/2	1486	99	2515	12	305	4	102
WS-209-2-4	129 7/8	3299	85 1/2	2172	70 1/2	1791	111	2819	12	305	4	102
WS-2010-2-4	141 7/8	3604	97 1/2	2477	82 1/2	2096	123	3124	12	305	4	102
WS-2011-2-4	153 7/8	3908	109 1/2	2781	94 1/2	2400	135	3429	12	305	4	102
WS-2012-2-4	165 7/8	4213	121 1/2	3086	106 1/2	2705	147	3734	12	305	4	102
WS-2013-2-4	177 7/8	4518	133 1/2	3391	118 1/2	3010	159	4039	12	305	4	102
WS-2014-2-4	189 7/8	4823	145 1/2	3696	130 1/2	3315	171	4343	12	305	4	102
WS-2015-2-4	201 7/8	5128	157 1/2	4001	142 1/2	3620	183	4648	12	305	4	102

NOZZLE SCHEDULE				
SERVICE	MARK	SHELL SIDE	MARK	TUBE SIDE
INLET	N1	AS PER TABLE	N5	8 (203) FLG
OUTLET	N2	AS PER TABLE	N6	8 (203) FLG
DRAIN	N3	3/4 (19) 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 DIM'S ±1/8 (3) UNLESS OTHERWISE SHOWN.

DESIGN CONDITIONS				
	SHELL		TUBES	
DESIGN PRESSURE	150 PSIG	1034 KPa	150 PSIG	1034 KPa
DESIGN TEMPERATURE	375 °F	191 °C	375 °F	191 °C
MIN. DESIGN METAL TEMP.	40 °F	4.4 °C	40 °F	4.4 °C
HYDRO. TEST PRESSURE	225 PSIG	1551 KPa	225 PSIG	1551 KPa
CONTENTS	STEAM		WATER	

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

TITLE	G.A. 150 LB. WS SERIES HEAT EXCHANGERS	A R M S T R O N G				NUMBER	WS-20-2P-4	REV.	
DATE:	12 / 01 / 94	BY:	D.C.R.	TORONTO - CANADA	MONTREAL - CANADA	BUFFALO - N. Y.	COLCHESTER - U.K.		
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