



DIMENSIONS SHOWN AS: inches (mm)

EXCHANGER SIZE	DIMENSIONS											
	A		B		C		D		(N1)		(N2)	
	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm
WS-42-2E2	37 1/4	946	23 1/4	591	16	406	26	660	2	51	1	25
WS-43-2E2	49 1/4	1251	35 1/4	895	28	711	38	965	2	51	1	25
WS-44-2E2	61 1/4	1556	47 1/4	1200	40	1016	50	1270	2	51	1	25
WS-45-2E2	73 1/4	1861	59 1/4	1505	52	1321	62	1575	2 1/2	64	1 1/4	32
WS-46-2E2	85 1/4	2165	71 1/4	1810	64	1626	74	1880	2 1/2	64	1 1/4	32
WS-47-2E2	97 1/4	2470	83 1/4	2115	76	1930	86	2184	2 1/2	64	1 1/4	32
WS-48-2E2	109 1/4	2775	95 1/4	2419	88	2235	98	2489	2 1/2	64	1 1/4	32
WS-49-2E2	121 1/4	3080	107 1/4	2724	100	2540	110	2794	2 1/2	64	1 1/4	32
WS-410-2E2	133 1/4	3385	119 1/4	3029	112	2845	122	3099	2 1/2	64	1 1/4	32
WS-411-2E2	145 1/4	3689	131 1/4	3334	124	3150	134	3404	2 1/2	64	1 1/4	32
WS-412-2E2	157 1/4	3994	143 1/4	3639	136	3454	146	3708	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:

- SUPPORTS SUPPLIED ONLY IF SPECIFIED ON ORDER.
- NOZZLE SIZES SHOWN ARE RECOMMENDED FOR MAXIMUM EXCHANGER LIFE.
- FABRICATED TO ASME CODE SECTION VIII DIVISION 1 AND LATEST ADDENDA.
- DRAWING IS NOT TO SCALE.
- 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.	35 °F	1.7 °C	35 °F	1.7 °C
HYDRO. TEST PRESSURE	225 PSIG	1551 KPa	300 PSIG	2068 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	REV.
DATE:	12 / 01 / 94	BY:	D.C.R.	TORONTO - CANADA	MONTREAL - CANADA	BUFFALO - N. Y.	COLCHESTER - U.K.	WS-4-2P-E2		
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