



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-123-4E4	64 5/8	1641	37	940	26	660	38	965	6	152	2	51
WS-124-4E4	76 5/8	1946	49	1245	38	965	50	1270	6	152	2	51
WS-125-4E4	88 5/8	2251	61	1549	50	1270	62	1575	6	152	2	51
WS-126-4E4	100 5/8	2556	73	1854	62	1575	74	1880	6	152	2	51
WS-127-4E4	112 5/8	2861	85	2159	74	1880	86	2184	8	203	2 1/2	64
WS-128-4E4	124 5/8	3165	97	2464	86	2184	98	2489	8	203	2 1/2	64
WS-129-4E4	136 5/8	3470	109	2769	98	2489	110	2794	8	203	2 1/2	64
WS-1210-4E4	148 5/8	3775	121	3073	110	2794	122	3099	8	203	2 1/2	64
WS-1211-4E4	160 5/8	4080	133	3378	122	3099	134	3404	8	203	2 1/2	64
WS-1212-4E4	172 5/8	4385	145	3683	134	3404	146	3708	8	203	2 1/2	64
WS-1213-4E4	184 5/8	4689	157	3988	146	3708	158	4013	8	203	2 1/2	64
WS-1214-4E4	196 5/8	4994	169	4293	158	4013	170	4318	8	203	2 1/2	64
WS-1215-4E4	208 5/8	5299	181	4597	170	4318	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) FLG
OUTLET	N2	AS PER TABLE	N6	4 (102) FLG
DRAIN	N3	1/2 (13) NPT	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 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	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-12-4P-E4	REV.
DATE: 12/01/94 BY: D.C.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		