



EXCHANGER SIZE	DIMENSIONS															
	A		B		C		D		E		F		N1		N2	
	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm
WS-223-2E4	74 3/4	1899	32 3/8	822	19 3/4	502	40	1016	18 1/4	464	24	610	10	254	3 NPT	76
WS-224-2E4	86 3/4	2203	44 3/8	1127	31 3/4	807	52	1321	18 1/4	464	24	610	10	254	3 NPT	76
WS-225-2E4	98 3/4	2508	56 3/8	1432	43 3/4	1111	64	1626	18 1/4	464	24	610	10	254	3 NPT	76
WS-226-2E4	112 3/4	2864	69 3/8	1762	53 1/4	1353	76	1930	18 1/4	464	26 1/2	673	12	305	4 FLG	102
WS-227-2E4	124 3/4	3169	81 3/8	2067	65 1/4	1657	88	2235	18 1/4	464	26 1/2	673	12	305	4 FLG	102
WS-228-2E4	138	3505	94	2388	77 1/4	1962	100	2540	18 1/4	464	26 1/2	673	14	356	4 FLG	102
WS-229-2E4	150	3810	106	2692	89 1/4	2267	112	2845	18 1/4	464	26 1/2	673	14	356	4 FLG	102
WS-2210-2E4	164	4166	118	2997	99 1/2	2527	124	3150	19 1/4	489	28 1/4	718	16	406	6 FLG	152
WS-2211-2E4	176	4470	130	3302	111 1/2	2832	136	3454	19 1/4	489	28 1/4	718	16	406	6 FLG	152
WS-2212-2E4	190	4826	143	3632	123 1/2	3137	148	3759	19 1/4	489	28 1/4	718	18	457	6 FLG	152
WS-2213-2E4	202	5131	155	3937	135 1/2	3442	160	4064	19 1/4	489	28 1/4	718	18	457	6 FLG	152
WS-2214-2E4	214	5436	167	4242	147 1/2	3747	172	4369	19 1/4	489	28 1/4	718	18	457	6 FLG	152
WS-2215-2E4	226	5740	179	4547	159 1/2	4051	184	4674	19 1/4	489	28 1/4	718	18	457	6 FLG	152

NOZZLE SCHEDULE				
SERVICE	MARK	SHELL SIDE	MARK	TUBE SIDE
INLET	(N1)	AS PER TABLE ANSI (RF) FLG	(N5)	10 (254) ANSI (RF) FLG
OUTLET	(N2)	AS PER TABLE ANSI (RF) FLG	(N6)	10 (254) ANSI (RF) 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 DIMN'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:

ORDER No.:

PROJECT/JOB:

LOCATION:

TAG: (QUOTE #)

TITLE 150 LB. W SERIES HEAT EXCHANGERS	A R M S T R O N G				NUMBER	REV.
DATE :-SEP./15/99 BY :-AP/AG	TORONTO - CANADA	MONTREAL - CANADA	BUFFALO - N. Y.	COLCHESTER - U.K.	WS-22-2P-E4	
	TEL : (416) 755-2291	TEL : (514) 421-2424	TEL : (716) 693-8813	TEL : (44) 120-657-9491		