



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-243-2E4	75 7/8	1927	32 1/2	826	19 3/4	502	41	1041	18 1/2	470	24 3/8	619	10	254	3 NPT	76
WS-244-2E4	87 7/8	2232	44 1/2	1130	31 3/4	806	53	1346	18 1/2	470	24 3/8	619	10	254	3 NPT	76
WS-245-2E4	101 7/8	2588	57 1/2	1461	41 1/2	1054	65	1651	18 1/2	470	26 5/8	676	12	305	4 FLG	102
WS-246-2E4	113 7/8	2892	69 1/2	1765	53 1/2	1359	77	1956	18 1/2	470	26 5/8	676	12	305	4 FLG	102
WS-247-2E4	127 1/4	3232	82 1/4	2089	65 1/2	1664	89	2261	18 1/2	470	26 3/4	679	14	356	4 FLG	102
WS-248-2E4	141 1/4	3588	94 1/4	2394	75 1/2	1918	101	2565	19 1/2	495	28 3/4	730	16	406	6 FLG	152
WS-249-2E4	153 1/4	3893	106 1/4	2699	87 1/2	2223	113	2870	19 1/2	495	28 3/4	730	16	406	6 FLG	152
WS-2410-2E4	165 1/4	4197	118 1/4	3004	99 3/4	2534	125	3175	19 1/2	495	28 1/2	724	16	406	6 FLG	152
WS-2411-2E4	179 1/4	4553	130	3302	109 1/4	2775	137	3480	20 3/4	527	31	787	18	457	8 FLG	203
WS-2412-2E4	191 1/4	4858	142	3607	121 1/4	3080	149	3785	20 3/4	527	31	787	18	457	8 FLG	203
WS-2413-2E4	205 1/4	5213	155	3937	133 1/4	3385	161	4089	20 3/4	527	31	787	20	508	8 FLG	203
WS-2414-2E4	217 1/4	5518	167	4242	145 1/4	3689	173	4394	20 3/4	527	31	787	20	508	8 FLG	203
WS-2415-2E4	229 1/4	5823	179	4547	157 1/4	3994	185	4699	20 3/4	527	31	787	20	508	8 FLG	203

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-24-2P-E4	
	TEL : (416) 755-2291	TEL : (514) 421-2424	TEL : (716) 693-8813	TEL : (44) 120-657-9491		