



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-283-2E4	83 7/8	2130	33 3/4	857	17 3/4	451	43	1092	20 3/4	527	29	737	12	305	4	102
WS-284-2E4	95 7/8	2435	45 3/4	1162	29 3/4	756	55	1397	20 3/4	527	29	737	12	305	4	102
WS-285-2E4	109 1/8	2772	58 3/8	1483	41 3/4	1060	67	1702	20 3/4	527	29	737	14	356	4	102
WS-286-2E4	123 1/8	3127	70 3/8	1788	51 3/4	1314	79	2007	21 3/4	552	31	787	16	406	6	152
WS-287-2E4	135 1/8	3432	82 3/8	2092	63 3/4	1619	91	2311	21 3/4	552	31	787	16	406	6	152
WS-288-2E4	149 1/8	3788	95 3/8	2423	75 3/4	1924	103	2616	21 3/4	552	31	787	18	457	6	152
WS-289-2E4	161 1/8	4093	107 3/8	2727	87 3/4	2229	115	2921	21 3/4	552	31	787	18	457	6	152
WS-2810-2E4	175 1/8	4448	120 3/8	3058	99 3/4	2534	127	3226	21 3/4	552	31	787	20	508	6	152
WS-2811-2E4	189 1/8	4804	132 3/8	3362	109 1/4	2775	139	3531	23	584	33 1/2	851	22	559	8	203
WS-2812-2E4	201 1/8	5109	144 1/8	3661	121 1/4	3080	151	3835	23	584	33 1/2	851	22	559	8	203
WS-2813-2E4	213 1/8	5413	156 1/8	3966	133 1/4	3385	163	4140	23	584	33 1/2	851	22	559	8	203
WS-2814-2E4	227 1/8	5769	167 7/8	4264	142 3/4	3626	175	4445	24 1/4	616	36	914	24	610	10	254
WS-2815-2E4	239 1/8	6074	179 7/8	4569	154 3/4	3931	187	4750	24 1/4	616	36	914	24	610	10	254

NOZZLE SCHEDULE				
SERVICE	MARK	SHELL SIDE	MARK	TUBE SIDE
INLET	(N1)	AS PER TABLE ANSI (RF) FLG	(N5)	12 (305) ANSI (RF) FLG
OUTLET	(N2)	AS PER TABLE ANSI (RF) FLG	(N6)	12 (305) 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 DIM'S ±1/8 (3) UNLESS OTHERWISE SHOWN.

DESIGN CONDITIONS		
	SHELL	TUBES
DESIGN PRESSURE	150 PSIG (1034 kpo)	150 PSIG (1034 kpo)
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 kpo)	225 PSIG (1551 kpo)
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-28-2P-E4	
	TEL : (416) 755-2291	TEL : (514) 421-2424	TEL: (716) 693-8813	TEL: (44) 120-657-9491		