



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-303-2E4	87 3/8	2219	35 1/2	902	19 1/2	495	45	1143	21 3/4	552	30	762	12	305	4	102
WS-304-2E4	99 3/8	2524	47 1/2	1207	31 1/2	800	57	1448	21 3/4	552	30	762	12	305	4	102
WS-305-2E4	114 3/4	2915	60 1/4	1530	41 1/2	1054	69	1753	22 3/4	578	32	813	16	406	6	152
WS-306-2E4	126 3/4	3219	72 1/4	1835	53 1/2	1359	81	2057	22 3/4	578	32	813	16	406	6	152
WS-307-2E4	140 3/4	3575	85 1/4	2165	65 1/2	1664	93	2362	22 3/4	578	32	813	18	457	6	152
WS-308-2E4	152 3/4	3880	97 1/4	2470	77 1/2	1969	105	2667	22 3/4	578	32	813	18	457	6	152
WS-309-2E4	166 3/4	4235	110 1/4	2800	89 1/2	2273	117	2972	22 3/4	578	32	813	20	508	6	152
WS-3010-2E4	178 3/4	4540	122 1/4	3105	101 1/2	2578	129	3277	22 3/4	578	32	813	20	508	6	152
WS-3011-2E4	192 3/4	4896	134	3404	111	2819	141	3581	24	610	34 1/2	876	22	559	8	203
WS-3012-2E4	204 3/4	5201	146	3708	123	3124	153	3886	24	610	34 1/2	876	22	559	8	203
WS-3013-2E4	218 3/4	5556	157 3/4	4007	132 1/2	3366	165	4191	25 1/4	641	37	940	24	610	10	254
WS-3014-2E4	230 3/4	5861	169 3/4	4312	144 1/2	3670	177	4496	25 1/4	641	37	940	24	610	10	254

NOZZLE SCHEDULE				
SERVICE	MARK	SHELL SIDE	MARK	TUBE SIDE
INLET	(N1)	AS PER TABLE ANSI (RF) FLG	(N5)	14 (356) ANSI (RF) FLG
OUTLET	(N2)	AS PER TABLE ANSI (RF) FLG	(N6)	14 (356) 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-30-2P-E4	
	TEL : (416) 755-2291	TEL : (514) 421-2424	TEL: (716) 693-8813	TEL: (44) 120-657-9491		