



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-303-4E4	83 1/8	2111	35 1/2	902	19 1/2	495	45	1143	19 1/4	489	27 1/2	699	12	305	4	102
WS-304-4E4	95 1/8	2416	47 1/2	1207	31 1/2	800	57	1448	19 1/4	489	27 1/2	699	12	305	4	102
WS-305-4E4	110 1/2	2807	60 1/4	1530	41 1/2	1054	69	1753	20 1/4	514	29 1/2	749	16	406	6	152
WS-306-4E4	122 1/2	3112	72 1/4	1835	53 1/2	1359	81	2057	20 1/4	514	29 1/2	749	16	406	6	152
WS-307-4E4	136 1/2	3467	85 1/4	2165	65 1/2	1664	93	2362	20 1/4	514	29 1/2	749	18	457	6	152
WS-308-4E4	148 1/2	3772	97 1/4	2470	77 1/2	1969	105	2667	20 1/4	514	29 1/2	749	18	457	6	152
WS-309-4E4	162 1/2	4128	110 1/4	2800	89 1/2	2273	117	2972	20 1/4	514	29 1/2	749	20	508	6	152
WS-3010-4E4	174 1/2	4432	122 1/4	3105	101 1/2	2578	129	3277	20 1/4	514	29 1/2	749	20	508	6	152
WS-3011-4E4	188 1/2	4788	134	3404	111	2819	141	3581	21 1/2	546	32	813	22	559	8	203
WS-3012-4E4	200 1/2	5093	146	3708	123	3124	153	3886	21 1/2	546	32	813	22	559	8	203
WS-3013-4E4	214 3/4	5455	157 3/4	4007	132 1/2	3366	165	4191	22 3/4	578	34 1/2	876	24	610	10	254
WS-3014-4E4	226 1/2	5753	169 3/4	4312	144 1/2	3670	177	4496	22 3/4	578	34 1/2	876	24	610	10	254

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	(N7)	3/4 (19) NPT
VENT	(N4)	3/4 (19) NPT		

NOTES:

- SUPPORTS SUPPLIED ONLY IF SPECIFIED ON ORDER.
- NOZZLE SIZES SHOWN ARE RECOMMENDED FOR MAXIMUM EXCHANGER LIFE.
- FABRICATED TO ASME CODE SECTION VIII DIVISION 1 AND LATEST ADDENDA.
- DRAWING IS NOT TO SCALE.
- ALL DIMN'S $\pm 1/8$ (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-30-4P-E4	
	TEL : (416) 755-2291	TEL : (514) 421-2424	TEL: (716) 693-8813	TEL: (44) 120-657-9491		