



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-303-2-4	72 3/4	1848	19 7/8	505	4	102	45	1143	26 3/4	679	34 1/2	876	12	305	4	102
WS-304-2-4	84 3/4	2153	31 7/8	810	16	406	57	1448	26 3/4	679	34 1/2	876	12	305	4	102
WS-305-2-4	96 3/4	2457	40 5/8	1032	22	559	69	1753	29	737	38 1/2	978	16	406	6	152
WS-306-2-4	108 3/4	2762	52 5/8	1337	34	864	81	2057	29	737	38 1/2	978	16	406	6	152
WS-307-2-4	120 3/4	3067	63 7/8	1622	44 1/4	1124	93	2362	29 3/4	756	40 1/4	1022	18	457	6	152
WS-308-2-4	132 3/4	3372	75 7/8	1927	56 1/4	1429	105	2667	29 3/4	756	40 1/4	1022	18	457	6	152
WS-309-2-4	144 3/4	3677	86 5/8	2200	66	1676	117	2972	31	787	42 1/2	1080	20	508	6	152
WS-3010-2-4	156 3/4	3982	98 5/8	2505	78	1981	129	3277	31	787	42 1/2	1080	20	508	6	152
WS-3011-2-4	168 3/4	4286	108 5/8	2759	85 3/4	2178	141	3581	32	813	44 1/2	1130	22	559	8	203
WS-3012-2-4	180 3/4	4591	120 5/8	3064	97 3/4	2483	153	3886	32	813	44 1/2	1130	22	559	8	203
WS-3013-2-4	192 3/4	4896	131 3/8	3337	107 1/2	2731	165	4191	33 1/4	845	46 3/4	1187	24	610	8	203
WS-3014-2-4	204 3/4	5201	143 3/8	3642	119 1/2	3035	177	4496	33 1/4	845	46 3/4	1187	24	610	8	203

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 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-30-2P-4	
	TEL : (416) 755-2291	TEL : (514) 421-2424	TEL : (716) 693-8813	TEL : (44) 120-657-9491		