



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-223-2-4	61 3/4	1568	19 1/8	486	6 3/4	171	40	1016	21 3/4	552	28 1/2	724	10	254	3 NPT	76
WS-224-2-4	73 3/4	1873	31 1/8	791	18 3/4	476	52	1321	21 3/4	552	28 1/2	724	10	254	3 NPT	76
WS-225-2-4	85 3/4	2178	43 1/8	1096	30 3/4	781	64	1626	21 3/4	552	28 1/2	724	10	254	3 NPT	76
WS-226-2-4	97 3/4	2482	53 1/2	1359	37 3/4	959	76	1930	23 1/4	591	31	787	12	305	4 FLG	102
WS-227-2-4	109 3/4	2787	65 1/2	1664	49 3/4	1264	88	2235	23 1/4	591	31	787	12	305	4 FLG	102
WS-228-2-4	121 3/4	3092	76 1/2	1943	60 1/4	1530	100	2540	24 1/4	616	32 1/2	826	14	356	4 FLG	102
WS-229-2-4	133 3/4	3397	88 1/2	2248	72 1/4	1835	112	2845	24 1/4	616	32 1/2	826	14	356	4 FLG	102
WS-2210-2-4	145 3/4	3702	98 1/8	2492	79 3/4	2026	124	3150	25 1/2	648	34 3/4	883	16	406	6 FLG	152
WS-2211-2-4	157 3/4	4006	110 1/8	2797	91 3/4	2330	136	3454	25 1/2	648	34 3/4	883	16	406	6 FLG	152
WS-2212-2-4	169 3/4	4311	121 3/8	3083	102	2591	148	3759	26 1/4	667	36 1/2	927	18	457	6 FLG	152
WS-2213-2-4	181 3/4	4616	133 3/8	3388	114	2896	160	4064	26 1/4	667	36 1/2	927	18	457	6 FLG	152
WS-2214-2-4	193 3/4	4921	145 3/8	3693	126	3200	172	4369	26 1/4	667	36 1/2	927	18	457	6 FLG	152
WS-2215-2-4	205 3/4	5226	157 3/8	3997	138	3505	184	4674	26 1/4	667	36 1/2	927	18	457	6 FLG	152

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 DIM'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 TEL : (416) 755-2291	MONTREAL - CANADA TEL : (514) 421-2424	BUFFALO - N. Y. TEL : (716) 693-8813	COLCHESTER - U.K. TEL : (44) 120-657-9491	WS-22-2P-4	