



DIMENSIONS SHOWN AS: inches (mm)

EXCHANGER SIZE *-BAFFLE SPACING	DIMENSIONS											
	A		B		C		D		(N1)		(N2)	
	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm
W-82-4*-1	29 3/8	746	14	356	-	-	26	660	4	102	4	102
W-83-4*-1	41 3/8	1051	26	660	15	381	38	965	4	102	4	102
W-84-4*-1	53 3/8	1356	38	965	27	686	50	1270	4	102	4	102
W-85-4*-1	65 3/8	1661	50	1270	39	991	62	1575	4	102	4	102
W-86-4*-1	77 3/8	1965	62	1575	51	1295	74	1880	4	102	4	102
W-87-4*-1	89 3/8	2270	74	1880	63	1600	86	2184	4	102	4	102
W-88-4*-1	101 3/8	2575	86	2184	75	1905	98	2489	4	102	4	102
W-89-4*-1	113 3/8	2880	98	2489	87	2210	110	2794	4	102	4	102
W-810-4*-1	125 3/8	3185	110	2794	99	2515	122	3099	4	102	4	102
W-811-4*-1	137 3/8	3489	122	3099	111	2819	134	3404	4	102	4	102
W-812-4*-1	149 3/8	3794	134	3404	123	3124	146	3708	4	102	4	102
W-813-4*-1	161 3/8	4099	146	3708	135	3429	158	4013	4	102	4	102
W-814-4*-1	173 3/8	4404	158	4013	147	3734	170	4318	4	102	4	102

NOZZLE SCHEDULE				
SERVICE	MARK	SHELL SIDE	MARK	TUBE SIDE
INLET	(N1)	AS PER TABLE	(N5)	2 (51) NPT
OUTLET	(N2)	AS PER TABLE	(N6)	2 (51) NPT
DRAIN	(N3)	1/2 (13) NPT	(N7)	1/2 (13) NPT
VENT	(N4)	3/4 (19) NPT		

NOTES: 1. SUPPORTS SUPPLIED ONLY IF SPECIFIED ON ORDER.
 2. NOZZLE SIZES SHOWN ARE RECOMMENDED FOR MAX. EXCHANGER LIFE, NO EXTERNAL FORCES APPLY.
 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.	35 °F	1.7 °C	35 °F	1.7 °C
HYDRO. TEST PRESSURE	225 PSIG	1551 KPa	300 PSIG	2068 KPa
CONTENTS	WATER		WATER	

CUSTOMER:
 LOCATION:
 ENGINEER:
 ORDER No.:
 PROJECT/JOB:
 LOCATION:
 TAG: (QUOTE #)

TITLE G.A. 150 LB. W SERIES HEAT EXCHANGERS	A R M S T R O N G				NUMBER W-8-4P-1(4)	REV. A 2001 J.R.
DATE: 12 / 01 / 94 BY: D.C.R.	TORONTO - CANADA TEL.: (416) 755-2291	MONTREAL - CANADA TEL.: (514) 421-2424	BUFFALO - N. Y. TEL.: (716) 893-8813	COLCHESTER - U.K. TEL.: (44) 120-657-9491		