



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-164-4*-1	56 3/8	1432	32 1/4	819	17 3/4	451	50	1270	8	203	8	203
W-165-4*-1	68 3/8	1737	44 1/4	1124	29 3/4	756	62	1575	8	203	8	203
W-166-4*-1	80 3/8	2042	56 1/4	1429	41 3/4	1060	74	1880	8	203	8	203
W-167-4*-1	92 3/8	2346	68 1/4	1734	53 3/4	1365	86	2184	8	203	8	203
W-168-4*-1	104 3/8	2651	80 1/4	2038	65 3/4	1670	98	2489	8	203	8	203
W-169-4*-1	116 3/8	2956	92 1/4	2343	77 3/4	1975	110	2794	8	203	8	203
W-1610-4*-1	128 3/8	3261	104 1/4	2648	89 3/4	2280	122	3099	8	203	8	203
W-1611-4*-1	140 3/8	3566	116 1/4	2953	101 3/4	2584	134	3404	8	203	8	203
W-1612-4*-1	152 3/8	3870	128 1/4	3258	113 3/4	2889	146	3708	8	203	8	203
W-1613-4*-1	164 3/8	4175	140 1/4	3562	125 3/4	3194	158	4013	8	203	8	203
W-1614-4*-1	176 3/8	4480	152 1/4	3867	137 3/4	3499	170	4318	8	203	8	203
W-1615-4*-1	188 3/8	4785	164 1/4	4172	149 3/4	3804	182	4623	8	203	8	203

NOZZLE SCHEDULE

SERVICE	MARK	SHELL SIDE	MARK	TUBE SIDE
INLET	N1	AS PER TABLE	N5	4 (102) NPT
OUTLET	N2	AS PER TABLE	N6	4 (102) 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 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	125 PSIG	862 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	250 PSIG	1723 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-16-4P-1(8)	REV.
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) 693-8813	COLCHESTER - U.K. TEL: (44) 120-657-9491		