



| 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*-3 | 28 5/8 | 727 | 14 | 356 | - | - | 26 | 660 | 4 | 102 | 4 | 102 |
| W-83-4*-3 | 40 5/8 | 1032 | 26 | 660 | 15 | 381 | 38 | 965 | 4 | 102 | 4 | 102 |
| W-84-4*-3 | 52 5/8 | 1337 | 38 | 965 | 27 | 686 | 50 | 1270 | 4 | 102 | 4 | 102 |
| W-85-4*-3 | 64 5/8 | 1641 | 50 | 1270 | 39 | 991 | 62 | 1575 | 4 | 102 | 4 | 102 |
| W-86-4*-3 | 76 5/8 | 1946 | 62 | 1575 | 51 | 1295 | 74 | 1880 | 4 | 102 | 4 | 102 |
| W-87-4*-3 | 88 5/8 | 2251 | 74 | 1880 | 63 | 1600 | 86 | 2184 | 4 | 102 | 4 | 102 |
| W-88-4*-3 | 100 5/8 | 2556 | 86 | 2184 | 75 | 1905 | 98 | 2489 | 4 | 102 | 4 | 102 |
| W-89-4*-3 | 112 5/8 | 2861 | 98 | 2489 | 87 | 2210 | 110 | 2794 | 4 | 102 | 4 | 102 |
| W-810-4*-3 | 124 5/8 | 3165 | 110 | 2794 | 99 | 2515 | 122 | 3099 | 4 | 102 | 4 | 102 |
| W-811-4*-3 | 136 5/8 | 3470 | 122 | 3099 | 111 | 2819 | 134 | 3404 | 4 | 102 | 4 | 102 |
| W-812-4*-3 | 148 5/8 | 3775 | 134 | 3404 | 123 | 3124 | 146 | 3708 | 4 | 102 | 4 | 102 |
| W-813-4*-3 | 160 5/8 | 4080 | 146 | 3708 | 135 | 3429 | 158 | 4013 | 4 | 102 | 4 | 102 |
| W-814-4*-3 | 172 5/8 | 4385 | 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 | 225 PSIG | 1551 KPa |
| CONTENTS | WATER | | WATER | |

CUSTOMER:
 LOCATION:
 ORDER No.:
 PROJECT/JOB:
 LOCATION:
 TAG:

| | | | | | | |
|---|---|--|--|---|-----------------------|------------------------|
| TITLE G.A. 150 LB. W SERIES HEAT EXCHANGERS | A R M S T R O N G | | | | NUMBER W-8-4P-3(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 | | |