



| EXCHANGER SIZE<br>*-BAFFLE SPACING | DIMENSIONS |      |        |      |        |      |        |      |        |     |        |     |
|------------------------------------|------------|------|--------|------|--------|------|--------|------|--------|-----|--------|-----|
|                                    | A          |      | B      |      | C      |      | D      |      | N1     |     | N2     |     |
|                                    | inches     | mm   | inches | mm   | inches | mm   | inches | mm   | inches | mm  | inches | mm  |
| W-123-4*-3                         | 42 1/8     | 1070 | 23     | 584  | 10     | 254  | 38     | 965  | 6      | 152 | 6      | 152 |
| W-124-4*-3                         | 54 1/8     | 1375 | 35     | 889  | 22     | 559  | 50     | 1270 | 6      | 152 | 6      | 152 |
| W-125-4*-3                         | 66 1/8     | 1680 | 47     | 1194 | 34     | 864  | 62     | 1575 | 6      | 152 | 6      | 152 |
| W-126-4*-3                         | 78 1/8     | 1984 | 59     | 1499 | 46     | 1168 | 74     | 1880 | 6      | 152 | 6      | 152 |
| W-127-4*-3                         | 90 1/8     | 2289 | 71     | 1803 | 58     | 1473 | 86     | 2184 | 6      | 152 | 6      | 152 |
| W-128-4*-3                         | 102 1/8    | 2594 | 83     | 2108 | 70     | 1778 | 98     | 2489 | 6      | 152 | 6      | 152 |
| W-129-4*-3                         | 114 1/8    | 2899 | 95     | 2413 | 82     | 2083 | 110    | 2794 | 6      | 152 | 6      | 152 |
| W-1210-4*-3                        | 126 1/8    | 3204 | 107    | 2718 | 94     | 2388 | 122    | 3099 | 6      | 152 | 6      | 152 |
| W-1211-4*-3                        | 138 1/8    | 3508 | 119    | 3023 | 106    | 2692 | 134    | 3404 | 6      | 152 | 6      | 152 |
| W-1212-4*-3                        | 150 1/8    | 3813 | 131    | 3327 | 118    | 2997 | 146    | 3708 | 6      | 152 | 6      | 152 |
| W-1213-4*-3                        | 162 1/8    | 4118 | 143    | 3632 | 130    | 3302 | 158    | 4013 | 6      | 152 | 6      | 152 |
| W-1214-4*-3                        | 174 1/8    | 4423 | 155    | 3937 | 142    | 3607 | 170    | 4318 | 6      | 152 | 6      | 152 |
| W-1215-4*-3                        | 186 1/8    | 4728 | 167    | 4242 | 154    | 3912 | 182    | 4623 | 6      | 152 | 6      | 152 |

| 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 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 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. | 35 °F    | 1.7 °C   | 35 °F    | 1.7 °C   |
| HYDRO. TEST PRESSURE    | 225 PSIG | 1551 KPa | 200 PSIG | 1379 KPa |
| CONTENTS                | WATER    |          | WATER    |          |

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

|   |   |  |  |   |                        |   |
|---|---|--|--|---|------------------------|---|
| TITLE<br>G.A. 150 LB. W SERIES<br>HEAT EXCHANGERS | A R M S T R O N G                       |  |  |   | NUMBER<br>W-12-4P-3(6) | REV. A<br>C.O.#9159<br>FEB.5/03<br>J.R. |
| DATE: 12/01/94 BY: D.C.R.                         | TORONTO - CANADA<br>TEL: (416) 755-2291 | MONTREAL - CANADA<br>TEL: (514) 421-2424 | BUFFALO - N. Y.<br>TEL: (716) 693-8813 | COLCHESTER - U.K.<br>TEL: (44) 120-657-9491 |                        |   |