



DIMENSIONS SHOWN AS: Inches (mm)

| EXCHANGER SIZE | DIMENSIONS |      |         |      |        |      |         |      | NOZZLE SCHEDULE  |                 |                       |
|----------------|------------|------|---------|------|--------|------|---------|------|--|-----------------|-----------------------|
|                | "A"        |      | "B"     |      | "C"    |      | "D"     |      | (N1) INLET   | 1 1/2" NPT (38) |                       |
|                | inches     | mm   | inches  | mm   | inches | mm   | inches  | mm   | (N2) OUTLET  | 1 1/2" NPT (38) |                       |
| THWX-612-4-1   | 15 -1/4    | 387  | 11-3/8  | 289  | 13     | 330  | -       | -    | (N3) DRAIN   | 1/2" NPT (13)   |                       |
| THWX-618-4-1   | 21 -1/4    | 540  | 17-3/8  | 441  | 19     | 483  | -       | -    | COLLAR ASSEMBLY  |                 |                       |
| THWX-624-4-1   | 27 -1/4    | 692  | 23-3/8  | 594  | 25     | 635  | 12-1/8  | 308  | STANDARD   |                 | OVS. FOR STONE LINING |
| THWX-630-4-1   | 33 -1/4    | 845  | 29-3/8  | 746  | 31     | 787  | 18-1/8  | 460  | "E"  | 6 5/8" (168)    | 8 5/8" (219)          |
| THWX-636-4-1   | 39 -1/4    | 997  | 35-3/8  | 899  | 37     | 940  | 24-1/8  | 613  | "F"  | 6 1/2" (165)    | 8" (203)              |
| THWX-642-4-1   | 45 -1/4    | 1149 | 41-3/8  | 1051 | 43     | 1092 | 30-1/8  | 765  | DESIGN CONDITIONS  |                 |                       |
| THWX-648-4-1   | 51 -1/4    | 1302 | 47-3/8  | 1203 | 49     | 1245 | 36-1/8  | 918  | TUBES  |                 |                       |
| THWX-654-4-1   | 57 -1/4    | 1454 | 53-3/8  | 1356 | 55     | 1397 | 42-1/8  | 1070 | DESIGN PRESSURE  | 150 PSIG        | 1034 KPa              |
| THWX-660-4-1   | 63 -1/4    | 1607 | 59-3/8  | 1508 | 61     | 1549 | 48-1/8  | 1222 | DESIGN TEMPERATURE   | 375 F           | 191 C                 |
| THWX-666-4-1   | 69 -1/4    | 1759 | 65-3/8  | 1661 | 67     | 1702 | 54-1/8  | 1375 | M.D.M.T.   | 35 F            | 1.7 C                 |
| THWX-672-4-1   | 75 -1/4    | 1911 | 71-3/8  | 1813 | 73     | 1854 | 60-1/8  | 1527 | HYD. TEST PRESSURE   | 300 PSIG        | 2068 KPa              |
| THWX-678-4-1   | 81 -1/4    | 2064 | 77-3/8  | 1965 | 79     | 2007 | 66-1/8  | 1680 | NOTES:   |                 |                       |
| THWX-684-4-1   | 87 -1/4    | 2216 | 83-3/8  | 2118 | 85     | 2159 | 72-1/8  | 1832 | 1. COLLAR ASSEMBLY SUPPLIED SEPARATELY.                                |                 |                       |
| THWX-690-4-1   | 93 -1/4    | 2369 | 89-3/8  | 2270 | 91     | 2311 | 78-1/8  | 1984 | 2. FABRICATED TO ASME CODE SECTION VIII DIVISION 1 AND LATEST ADDENDA. |                 |                       |
| THWX-696-4-1   | 99 -1/4    | 2521 | 95-3/8  | 2423 | 97     | 2464 | 84-1/8  | 2137 | 3. DRAWING IS NOT TO SCALE.  |                 |                       |
| THWX-6102-4-1  | 105 -1/4   | 2673 | 101-3/8 | 2575 | 103    | 2616 | 90-1/8  | 2289 | 4. ALL DIM'S 1/8 (3) UNLESS OTHERWISE SHOWN.                           |                 |                       |
| THWX-6108-4-1  | 111 -1/4   | 2826 | 107-3/8 | 2727 | 109    | 2769 | 96-1/8  | 2442 | 5. DIMENSIONS SHOWN AS: in.(mm)  |                 |                       |
| THWX-6114-4-1  | 117 -1/4   | 2978 | 113-3/8 | 2880 | 115    | 2921 | 102-1/8 | 2594 | CUSTOMER:  |                 |                       |
| THWX-6120-4-1  | 123 -1/4   | 3131 | 119-3/8 | 3032 | 121    | 3073 | 108-1/8 | 2746 | LOCATION:  |                 |                       |
| THWX-6126-4-1  | 129 -1/4   | 3283 | 125-3/8 | 3185 | 127    | 3226 | 114-1/8 | 2899 | ENGINEER :   |                 |                       |
| THWX-6132-4-1  | 135 -1/4   | 3435 | 131-3/8 | 3337 | 133    | 3378 | 120-1/8 | 3051 | ORDER No.:   |                 |                       |
| THWX-6138-4-1  | 141 -1/4   | 3588 | 137-3/8 | 3489 | 139    | 3531 | 126-1/8 | 3204 | PROJECT/JOB:   |                 |                       |
|                |            |      |         |      |        |      |         |      | LOCATION:  |                 |                       |
|                |            |      |         |      |        |      |         |      | TAG:   |                 |                       |
|                |            |      |         |      |        |      |         |      | QUOTE #  |                 |                       |

|       |                           |           |        |                      |                      |                      |                         |      |  |
|-------|---------------------------|-----------|--------|----------------------|----------------------|----------------------|-------------------------|------|--|
| TITLE | G.A. 150 LB. TANK HEATERS | ARMSTRONG |        |                      |                      | NUMBER               | Thwx-6-4P-1             | REV. |  |
| DATE  | 24/05/95                  | BY        | D.C.R. | TORONTO - CANADA     | MONTREAL - CANADA    | BUFFALO - N. Y.      | COLCHESTER - U.K.       |      |  |
|       |                           |           |        | TEL : (416) 755-2291 | TEL : (514) 421-2424 | TEL : (716) 693-8813 | TEL : (44) 120-657-9491 |      |  |