



| EXCHANGER SIZE | DIMENSIONS | | | | | | | | | | | |
|----------------|------------|------|---------|------|---------|------|--------|------|--------|-----|--------|----|
| | A | | B | | C | | D | | N1 | | N2 | |
| | inches | mm | inches | mm | inches | mm | inches | mm | inches | mm | inches | mm |
| WS-102-2-2 | 36 1/2 | 927 | 12 1/2 | 318 | 4 1/2 | 114 | 26 | 660 | 4 | 102 | 1 1/2 | 38 |
| WS-103-2-2 | 48 1/2 | 1232 | 24 1/2 | 622 | 16 1/2 | 419 | 38 | 965 | 4 | 102 | 1 1/2 | 38 |
| WS-104-2-2 | 60 1/2 | 1537 | 36 1/2 | 927 | 28 1/2 | 724 | 50 | 1270 | 6 | 152 | 2 | 51 |
| WS-105-2-2 | 72 1/2 | 1842 | 48 1/2 | 1232 | 40 1/2 | 1029 | 62 | 1575 | 6 | 152 | 2 | 51 |
| WS-106-2-2 | 84 1/2 | 2146 | 60 1/2 | 1537 | 52 1/2 | 1334 | 74 | 1880 | 6 | 152 | 2 | 51 |
| WS-107-2-2 | 96 1/2 | 2451 | 72 1/2 | 1842 | 64 1/2 | 1638 | 86 | 2184 | 6 | 152 | 2 | 51 |
| WS-108-2-2 | 108 1/2 | 2756 | 84 1/2 | 2146 | 76 1/2 | 1943 | 98 | 2489 | 6 | 152 | 2 | 51 |
| WS-109-2-2 | 120 1/2 | 3061 | 96 1/2 | 2451 | 88 1/2 | 2248 | 110 | 2794 | 6 | 152 | 2 | 51 |
| WS-1010-2-2 | 132 1/2 | 3366 | 108 1/2 | 2756 | 100 1/2 | 2553 | 122 | 3099 | 6 | 152 | 2 | 51 |
| WS-1011-2-2 | 144 1/2 | 3670 | 120 1/2 | 3061 | 112 1/2 | 2858 | 134 | 3404 | 6 | 152 | 2 | 51 |
| WS-1012-2-2 | 156 1/2 | 3975 | 132 1/2 | 3366 | 124 1/2 | 3162 | 146 | 3708 | 6 | 152 | 2 | 51 |
| WS-1013-2-2 | 168 1/2 | 4280 | 144 1/2 | 3670 | 136 1/2 | 3467 | 158 | 4013 | 6 | 152 | 2 | 51 |
| WS-1014-2-2 | 180 1/2 | 4585 | 156 1/2 | 3975 | 148 1/2 | 3772 | 170 | 4318 | 6 | 152 | 2 | 51 |
| WS-1015-2-2 | 192 1/2 | 4890 | 168 1/2 | 4280 | 160 1/2 | 4077 | 182 | 4623 | 6 | 152 | 2 | 51 |

| NOZZLE SCHEDULE | | | | |
|-----------------|------|--------------|------|-------------|
| SERVICE | MARK | SHELL SIDE | MARK | TUBE SIDE |
| INLET | (N1) | AS PER TABLE | (N5) | 4 (102) FLG |
| OUTLET | (N2) | AS PER TABLE | (N6) | 4 (102) FLG |
| DRAIN | (N3) | 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 DIMN'S ±1/8 (3) UNLESS OTHERWISE SHOWN.

| DESIGN CONDITIONS | | | | |
|-------------------------|----------|----------------------|----------|----------------------|
| | SHELL | | TUBES | |
| DESIGN PRESSURE | 150 PSIG | 1034 KP _a | 150 PSIG | 1034 KP _a |
| 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 KP _a | 300 PSIG | 2068 KP _a |
| CONTENTS | STEAM | | WATER | |

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

| | | | | | | | | | | | |
|-------|--|-----|--------|------------------|-------------------|-----------------|-------------------|---------------------|---------------------|---------------------|------------------------|
| TITLE | G.A. 150 LB. WS SERIES HEAT EXCHANGERS | | | | A R M S T R O N G | | | | NUMBER | WS-10-2P-2 | REV. |
| DATE: | 12 / 01 / 94 | 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 |