



| EXCHANGER SIZE *-BAFFLE SPACING | DIMENSIONS | | | | | | | | | | | |
|------------------------------------|------------|------|---------|------|---------|------|--------|------|--------|-----|--------|----|
| | A | | B | | C | | D | | N1 | | N2 | |
| | inches | mm | inches | mm | inches | mm | inches | mm | inches | mm | inches | mm |
| WS3H-123-2*-E4 | 66 3/8 | 1686 | 36 3/4 | 933 | 22 1/2 | 572 | 38 | 965 | 6 | 152 | 2 | 51 |
| WS3H-124-2*-E4 | 78 3/8 | 1991 | 48 3/4 | 1238 | 34 1/2 | 876 | 50 | 1270 | 6 | 152 | 2 | 51 |
| WS3H-125-2*-E4 | 90 3/8 | 2296 | 60 3/4 | 1543 | 46 1/2 | 1181 | 62 | 1574 | 6 | 152 | 2 | 51 |
| WS3H-126-2*-E4 | 102 3/8 | 2600 | 72 3/4 | 1848 | 58 1/2 | 1486 | 74 | 1879 | 6 | 152 | 2 | 51 |
| WS3H-127-2*-E4 | 114 3/8 | 2905 | 84 3/4 | 2153 | 70 1/2 | 1791 | 86 | 2184 | 8 | 203 | 2 1/2 | 64 |
| WS3H-128-2*-E4 | 126 3/8 | 3210 | 96 3/4 | 2457 | 82 1/2 | 2096 | 98 | 2489 | 8 | 203 | 2 1/2 | 64 |
| WS3H-129-2*-E4 | 138 3/8 | 3515 | 108 3/4 | 2762 | 94 1/2 | 2400 | 110 | 2794 | 8 | 203 | 2 1/2 | 64 |
| WS3H-1210-2*-E4 | 150 3/8 | 3820 | 120 3/4 | 3067 | 106 1/2 | 2705 | 122 | 3098 | 8 | 203 | 2 1/2 | 64 |
| WS3H-1211-2*-E4 | 162 3/8 | 4124 | 132 3/4 | 3372 | 118 1/2 | 3010 | 134 | 3403 | 8 | 203 | 2 1/2 | 64 |
| WS3H-1212-2*-E4 | 174 3/8 | 4429 | 144 3/4 | 3677 | 130 1/2 | 3315 | 146 | 3708 | 8 | 203 | 2 1/2 | 64 |
| WS3H-1213-2*-E4 | 186 3/8 | 4734 | 156 3/4 | 3981 | 142 1/2 | 3620 | 158 | 4013 | 8 | 203 | 2 1/2 | 64 |
| WS3H-1214-2*-E4 | 198 3/8 | 5039 | 168 3/4 | 4286 | 154 1/2 | 3924 | 170 | 4318 | 8 | 203 | 2 1/2 | 64 |
| WS3H-1215-2*-E4 | 210 3/8 | 5344 | 180 3/4 | 4591 | 166 1/2 | 4229 | 182 | 4623 | 8 | 203 | 2 1/2 | 64 |

NOZZLE SCHEDULE

| SERVICE | MARK | SHELL SIDE | MARK | TUBE SIDE |
|---------|------|--------------|------|--------------------------|
| INLET | (N1) | AS PER TABLE | (N5) | 4 (102) 300# (RFSQ) FLG. |
| OUTLET | (N2) | AS PER TABLE | (N6) | 4 (102) 300# (RFSQ) 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 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 | 300 PSIG | 2068 KPa | 300 PSIG |
| 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 | 450 PSIG | 3102 KPa | 450 PSIG | 3102 KPa |
| CONTENTS | STEAM | | WATER | |

CUSTOMER:

LOCATION:

ENGINEER:

ORDER No.:

PROJECT/JOB:

LOCATION:

TAG:

(QUOTE #)

TITLE G.A. 300 LB. WS SERIES
HEAT EXCHANGERS

A R M S T R O N G

NUMBER

REV.

DATE: 04 / 27 / 01 BY: J.R.

TORONTO - CANADA MONTREAL - CANADA BUFFALO - N. Y. COLCHESTER - U.K.
TEL : (416) 755-2281 TEL : (514) 421-2424 TEL : (716) 693-8813 TEL : (44) 120-657-9491

WS3H-12-2P-E4