



DIMENSIONS SHOWN AS: inches (mm)

| EXCHANGER SIZE *-BAFFLE SPACING | DIMENSIONS | | | | | | | | | | | |
|------------------------------------|------------|------|--------|------|---------|------|--------|------|--------|-----|--------|----|
| | A | | B | | C | | D | | N1 | | N2 | |
| | inches | mm | inches | mm | inches | mm | inches | mm | inches | mm | inches | mm |
| WS3T-85-2*-3 | 64 5/8 | 1641 | 49 | 1245 | 37 3/8 | 949 | 62 | 1575 | 4 | 102 | 1 | 25 |
| WS3T-86-2*-3 | 76 5/8 | 1946 | 61 | 1549 | 49 3/8 | 1254 | 74 | 1880 | 4 | 102 | 1-1/4 | 32 |
| WS3T-87-2*-3 | 88 5/8 | 2251 | 73 | 1854 | 61 3/8 | 1559 | 86 | 2184 | 4 | 102 | 1-1/4 | 32 |
| WS3T-88-2*-3 | 100 5/8 | 2556 | 85 | 2159 | 73 3/8 | 1864 | 98 | 2489 | 6 | 152 | 1-1/4 | 32 |
| WS3T-89-2*-3 | 112 5/8 | 2861 | 97 | 2464 | 85 3/8 | 2169 | 110 | 2794 | 6 | 152 | 1-1/4 | 32 |
| WS3T-810-2*-3 | 124 5/8 | 3165 | 109 | 2769 | 97 3/8 | 2473 | 122 | 3099 | 6 | 152 | 1-1/4 | 32 |
| WS3T-811-2*-3 | 136 5/8 | 3470 | 121 | 3073 | 109 3/8 | 2778 | 134 | 3404 | 6 | 152 | 1-1/4 | 32 |
| WS3T-812-2*-3 | 148 5/8 | 3775 | 133 | 3378 | 121 3/8 | 3083 | 146 | 3708 | 6 | 152 | 1-1/4 | 32 |
| WS3T-813-2*-3 | 160 5/8 | 4080 | 145 | 3683 | 133 3/8 | 3388 | 158 | 4013 | 6 | 152 | 1-1/4 | 32 |
| WS3T-814-2*-3 | 172 5/8 | 4385 | 157 | 3988 | 145 3/8 | 3693 | 170 | 4318 | 6 | 152 | 1-1/4 | 32 |

| NOZZLE SCHEDULE | | | | |
|-----------------|------|--------------|------|------------|
| SERVICE | MARK | SHELL SIDE | MARK | TUBE SIDE |
| INLET | N1 | AS PER TABLE | N5 | 3 (76) NPT |
| OUTLET | N2 | AS PER TABLE | N6 | 3 (76) 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 TO APPLY.
 3. FABRICATED TO ASME CODE SECTION VIII DIVISION 1 AND LATEST ADDENDA.
 4. DRAWING IS NOT TO SCALE.
 5. ALL DIMN'S $\pm 1/8$ (3) UNLESS OTHERWISE SHOWN.

| DESIGN CONDITIONS | | | | |
|-------------------------|----------|----------|----------|----------|
| | SHELL | | TUBES | |
| DESIGN PRESSURE | 150 PSIG | 1034 KPa | 300 PSIG | 2068 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 | 450 PSIG | 3102 KPa |
| CONTENTS | STEAM | | WATER | |

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

| | | | | | | |
|--|--|---|--|---|--------------------------|------|
| TITLE C.A. 300 LB. WS SERIES HEAT EXCHANGERS | A R M S T R O N G | | | | NUMBER WS3T-8-2P-3(6) | REV. |
| DATE: 01 / 08 / 01 BY: J.R. | TORONTO - CANADA TEL : (416) 755-2291 | MONTREAL - CANADA TEL : (514) 421-2424 | BUFFALO - N. Y. TEL: (716) 693-8813 | COLCHESTER - U.K. TEL: (44) 120-657-9491 | | |