



| EXCHANGER SIZE | DIMENSIONS | | | | | | | | | | | |
|----------------|------------|------|--------|-----|--------|-----|--------|------|--------|----|--------|----|
| | A | | B | | C | | D | | N1 | | N2 | |
| | inches | mm | inches | mm | inches | mm | inches | mm | inches | mm | inches | mm |
| WS-82-2-2 | 34 1/2 | 876 | 13 | 330 | 4 3/4 | 121 | 26 | 660 | 2 | 51 | 1 | 25 |
| WS-83-2-2 | 46 1/2 | 1181 | 25 | 635 | 16 3/4 | 425 | 38 | 965 | 2 1/2 | 64 | 1 | 25 |
| WS-84-2-2 | 58 1/2 | 1486 | 37 | 940 | 28 3/4 | 730 | 50 | 1270 | 3 | 76 | 1 | 25 |
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| NOZZLE SCHEDULE | | | | |
|-----------------|------|--------------|------|------------|
| SERVICE | MARK | SHELL SIDE | MARK | TUBE SIDE |
| INLET | N1 | AS PER TABLE | N5 | 3 (76) FLG |
| OUTLET | N2 | AS PER TABLE | N6 | 3 (76) FLG |
| VENT | N4 | 3/4 (19) NPT | | |

NOTES:

- SUPPORTS SUPPLIED ONLY IF SPECIFIED ON ORDER.
- NOZZLE SIZES SHOWN ARE RECOMMENDED FOR MAXIMUM EXCHANGER LIFE.
- FABRICATED TO ASME CODE SECTION VIII DIVISION 1 AND LATEST ADDENDA.
- DRAWING IS NOT TO SCALE.
- ALL DIM'S ±1/8 (3) UNLESS OTHERWISE SHOWN.

| DESIGN CONDITIONS | | | | |
|-------------------------|----------|----------|----------|----------|
| | SHELL | | TUBES | |
| DESIGN PRESSURE | 150 PSIG | 1034 KPa | 150 PSIG | 1034 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 | 300 PSIG | 2068 KPa |
| 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-8-2P-2-(3) | REV. |
| DATE: 12 / 01 / 94 BY: D.C.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 | | |