

# Bell & Gossett GPX™

## Gasketed Plate Heat Exchanger Specification Sheet

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Customer  
Inquiry Number 12116

Date Monday, December 23, 2013  
Item Number

**Performance of One Unit:** P62 PN: BY5432

**Units Connected in Parallel:** 1

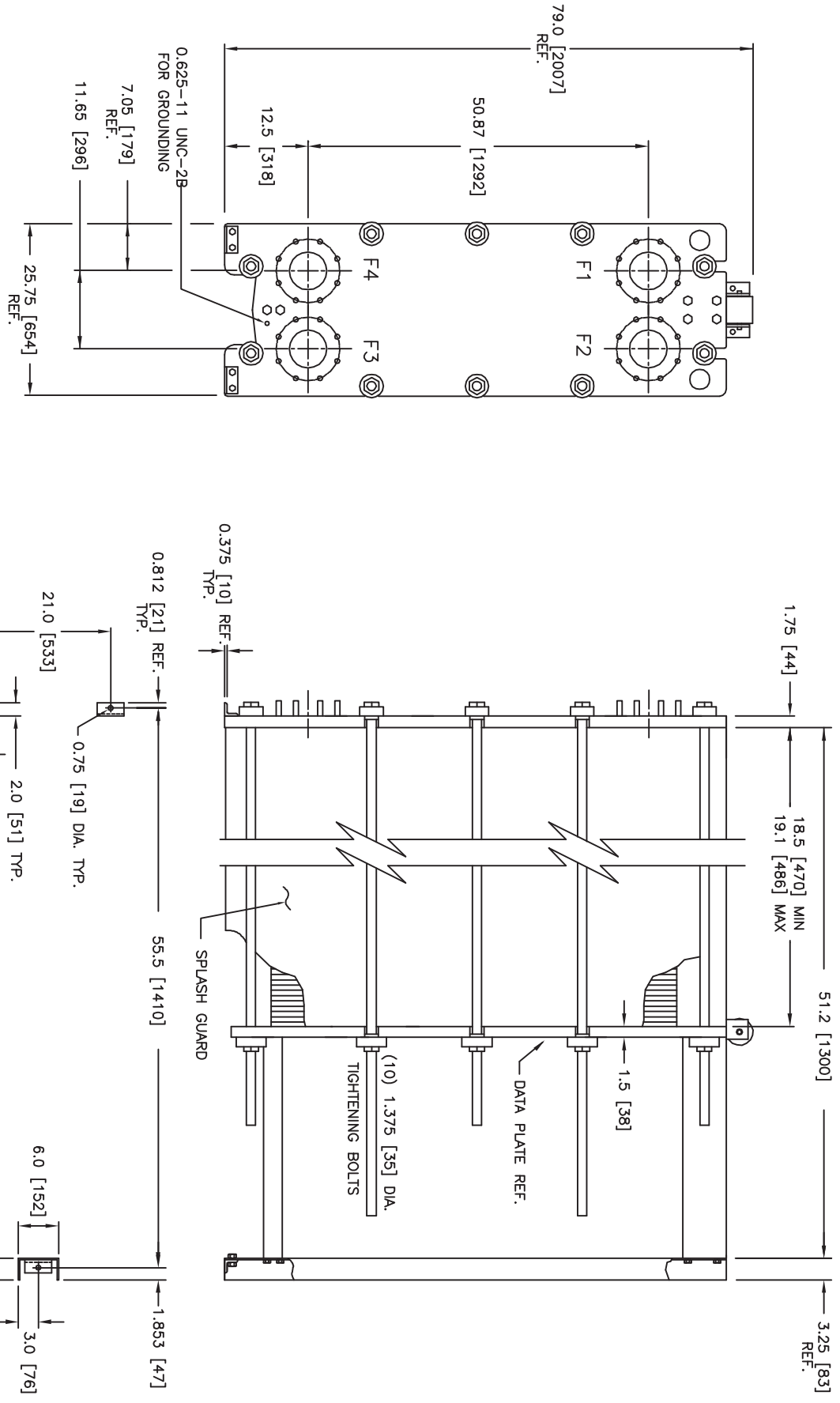
|  |                               |                       |
|--|-------------------------------|-----------------------|
| Fluid Name                                     | Water                         | Water                 |
| Total Flow                                     | 500.0 GPM                     | 499.9 GPM             |
| Inlet Temperature                              | 55.0 °F                       | 43.0 °F               |
| Outlet Temperature                             | 45.0 °F                       | 53.0 °F               |
| Operating Pressure                             | 0.0 PSIG                      | 0.0 PSIG              |
| Pressure Drop, Allow./Calc                     | 4.5/4.5 PSIG                  | 4.5/4.4 PSIG          |
| Density  | 62.4 lb/ft3                   | 62.4 lb/ft3           |
| Viscosity                                      | 1.3 cp                        | 1.3 cp                |
| Specific Heat                                  | 1.00 Btu/lbm,°F               | 1.00 Btu/lbm,°F       |
| Thermal Conductivity                           | 0.33 Btu/ft,h,°F              | 0.33 Btu/ft,h,°F      |
| Specified Fouling Factor                       | 0.00000 hr,ft2,°F/Btu         | 0.00000 hr,ft2,°F/Btu |
| Total Heat Exchanged                           | 2,510,532.4 Btu/h             |                       |
| LMTD   | 2.0 °F                        |                       |
| Overall Heat Transfer Coefficient, Clean/Dirty | 1,091.7/1,091.7 Btu/hr,ft2,°F |                       |
| Overall Heat Transfer Coefficient, Service     | 1,071.4 Btu/hr,ft2,°F         |                       |
| Effective Surface Area                         | 1,171.1 ft2                   |                       |
| Excess Surface                                 | 1.9 %                         |                       |

### Construction

|                                  |   |   |
|----------------------------------|---|---|
| Number of Passes * Channels      | 1*80  | 1*81  |
| Total Number of Plates           |   | 162   |
| Pressure, Design/Test            | 150/195(PSIG)                                       | 150/195(PSIG)                                       |
| Design Temperature, min/max      | 32/230(°F)  | 32/230(°F)  |
| Internal Volume                  | 5.9(ft3)  | 6.0(ft3)  |
| Inlet Connection(Location)       | F1, steel studded port for 150# ansi flange<br>6.0" | F3, steel studded port for 150# ansi flange<br>6.0" |
| Outlet Connection(Location)      | F4, steel studded port for 150# ansi flange<br>6.0" | F2, steel studded port for 150# ansi flange<br>6.0" |
| Plate Material                   |   | 304   |
| Plate Thickness                  |   | 0.4 mm  |
| Plate Mix                        |   | TKTL-90   |
| Gasket Material                  |   | NITRILE HT  |
| Empty/Flooded Weight             |   | 3,217 / 3,962 lb                                    |
| Frame Size / Max. Frame Capacity |   | 51.2 inch / 170 plates                              |
| Approvals                        |   | ASME Sect VIII Div 1 w/U stamp.                     |

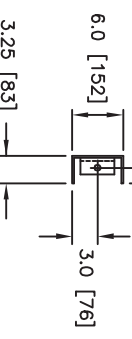
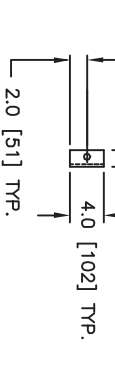
**Note:** Customer to verify fluid/material compatibility.

NOTE(s): 1. Dimensions shown in inches (in.)



EST. WEIGHT (LBS): 3217 DRY / 3962 WET

| UNIT CONSTRUCTION - ASME CODE    | DESIGN CONDITIONS:  | SIDE-1                            | SIDE-2   |
|----------------------------------|---------------------|-----------------------------------|--|
| THERMAL PLATES: 0.4mm / 304      | DSGN PRESS. (PSIG)  | 150.0                             | 150.0  |
| GASKET TYPE: NITRILE HT          | TEST PRESS. (PSIG)  | 195.0                             | 195.0  |
| PLATE MIXTURE: TKTL-90           | DSGN TEMP. (°F)     | 230                               | 230  |
| MIX (SIDE 1): 1 x 80             | MIN. TEMP. (°F)     | 32                                | 32   |
| MIX (SIDE 2): 1 x 81             |                     |                                   |  |
| CARRY BAR LGTH: 162 / 170 MAX    | PORT IDENTIFICATION | CONNECTION - TYPE AND DESCRIPTION |  |
| CARRY BAR MTL: ALUM. S/S PROFILE | F1                  | SIDE-1 IN                         | 6" PORT, STUDDED FOR 150# ANSI FLANGE, STEEL UNLINED |
| THE BOLTS: ZINC PLATED CARBON    | F4                  | SIDE-1 OUT                        | 6" PORT, STUDDED FOR 150# ANSI FLANGE, STEEL UNLINED |
| SPLASH GUARD: 316 STN STL        | F3                  | SIDE-2 IN                         | 6" PORT, STUDDED FOR 150# ANSI FLANGE, STEEL UNLINED |
|                                  | F2                  | SIDE-2 OUT                        | 6" PORT, STUDDED FOR 150# ANSI FLANGE, STEEL UNLINED |



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**Bell & Gossett**  
 Buffalo, NY 14227 USA  
 MODEL P62  
 ORDER NO. NA  
 DATE HT 12/23/13  
 12116 -00