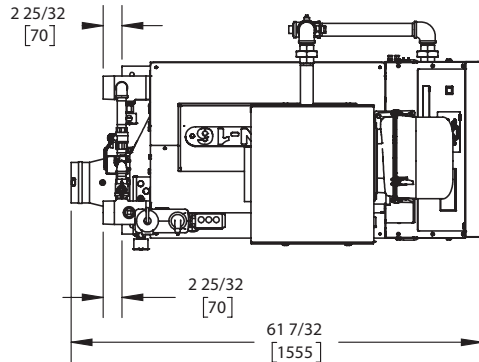


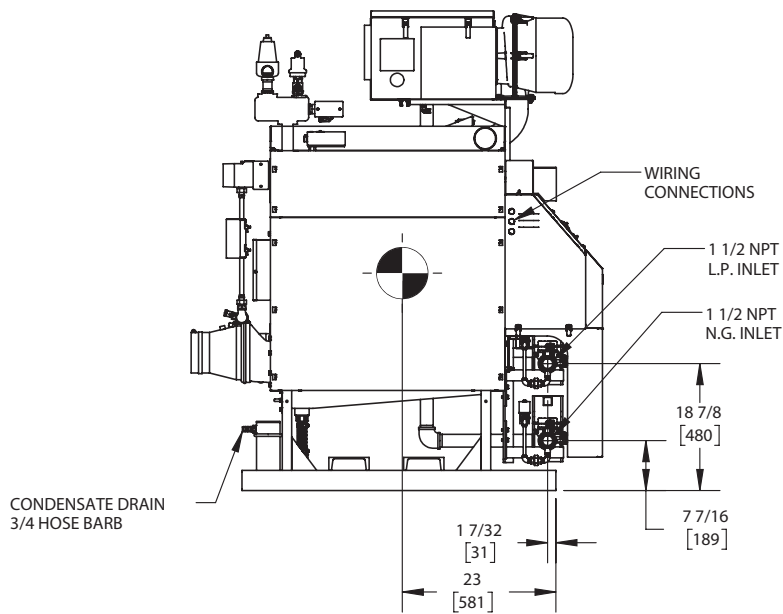
# KN-16 - Dual Fuel

**Category II or Category IV Appliance**  
(see Installation and Operation Manual for venting information)



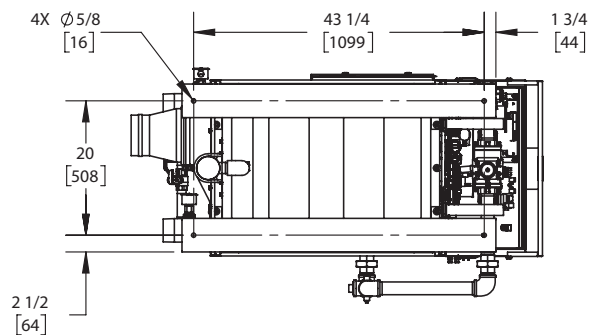
TOP VIEW

ASUB-29\_D



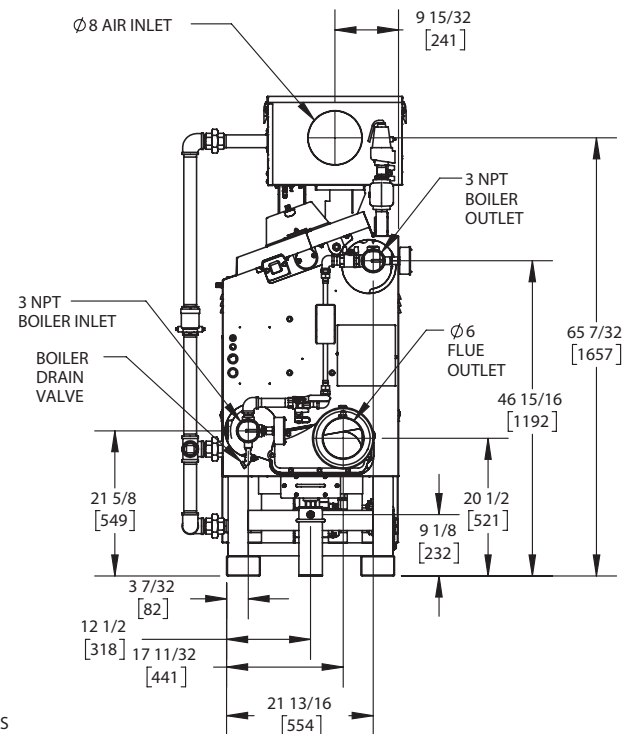
SIDE VIEW

ASUB-29\_D



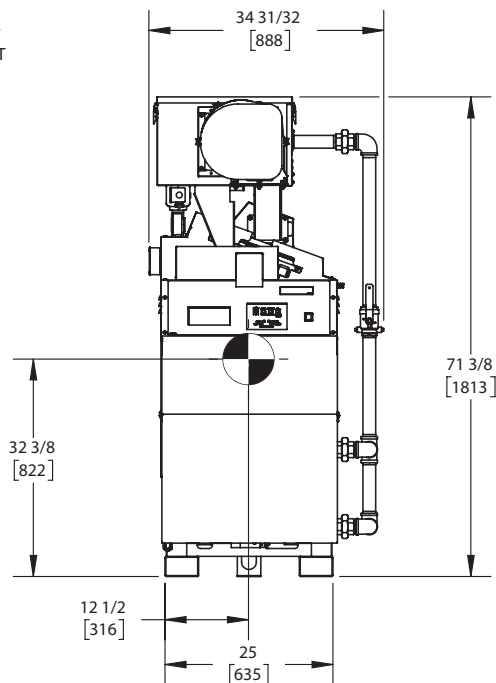
BOTTOM VIEW

ASUB-29\_D



REAR VIEW

ASUB-29\_D



FRONT VIEW

ASUB-29\_D

## NOTES:

1.  SYMBOL INDICATES CENTER OF GRAVITY.
2. DIMENSIONS ARE NOMINAL AND SUBJECT TO MANUFACTURING VARIATION AND SHOULD NOT BE USED FOR "ROUGHING IN".
3. ALL DIMENSIONS ARE INCHES [mm].



## A.G.A. CERTIFIED RATINGS & CAPACITIES

|                                |                                 |                                   |                      |
|--------------------------------|---------------------------------|-----------------------------------|----------------------|
| <b>Fuel Type</b>               | Natural/LP Gas                  | <b>Boiler FLA</b>                 | 19.75 A*             |
| <b>Input BTU/hr.</b>           | 1600 MBH / 469 KW               | <b>Min. Gas Pressure Required</b> | 3" W.C.              |
| <b>Output BTU/hr.</b>          | 1440 MBH / 422 KW               | <b>Max. Gas Pressure Allowed</b>  | 14" W.C.             |
| <b>Boiler HP</b>               | 43.0                            | <b>Water Volume</b>               | 17.9 gal.            |
| <b>Electrical Requirements</b> | 230VAC/60 hz/1PH (with neutral) | <b>Operating Weight</b>           | 2360 lbs. / 1070 kg. |
| <b>SCCR Rating</b>             | 5kA                             |                                   |                      |

## BOILER TRIM & CONTROLS

|                          |                   |                            |                      |
|--------------------------|-------------------|----------------------------|----------------------|
| <b>Main Gas Valve</b>    | Dungs MBC         | <b>Air Switch</b>          | Huba                 |
| <b>Firing Valve</b>      | 1-1/2" Apollo     | <b>Flow Sensor</b>         | SIKA                 |
| <b>Ignition Control</b>  | Honeywell RM7895C | <b>Blocked Flue Switch</b> | Cleveland NS2        |
| <b>Operating Control</b> | HeatNet®          | <b>Blower Motor</b>        | Ametek               |
| <b>High Limit</b>        | Honeywell L4006E  | <b>L.W.C.O.</b>            | 800                  |
| <b>Main Ball Valve</b>   | 1-1/2" Apollo     | <b>Relief Valve</b>        | 30, 50, 75 & 100 PSI |
| <b>Pilot Cock</b>        | 1/4" Conbraco     | <b>Pilot Regulator</b>     | White-Rodgers        |

## A.S.M.E.

|                                            |                             |                    |                 |
|--------------------------------------------|-----------------------------|--------------------|-----------------|
| <b>ASME Sect IV Fire Side Htg Surface</b>  | 59.84 Sq. Ft. / 5.56 Sq. M. | <b>Design Data</b> | 100 PSI & 250°F |
| <b>ASME Sect IV Water Side Htg Surface</b> | 63.98 Sq. Ft. / 5.94 Sq. M. |                    |                 |
| <b>CV. GPM (1PSID)</b>                     | 140                         |                    |                 |

\*Add circulator amps.

## TEMPERATURE RISE / PRESSURE DROP (Based on Full Input)

| 20°F / 11.1°C |      |               |      | 40°F / 22.2°C |      |               |      | 60°F / 33.3°C |      |               |     | 80°F / 44.4°C |      |               |     | 100°F / 55.5°C |      |               |     |
|---------------|------|---------------|------|---------------|------|---------------|------|---------------|------|---------------|-----|---------------|------|---------------|-----|----------------|------|---------------|-----|
| Flow Rate     |      | Pressure Drop |      | Flow Rate     |      | Pressure Drop |      | Flow Rate     |      | Pressure Drop |     | Flow Rate     |      | Pressure Drop |     | Flow Rate      |      | Pressure Drop |     |
| GPM           | L/s  | Ft            | kPa  | GPM           | L/s  | Ft            | kPa  | GPM           | L/s  | Ft            | kPa | GPM           | L/s  | Ft            | kPa | GPM            | L/s  | Ft            | kPa |
| 144.1         | 9.10 | 2.44          | 7.30 | 72.0          | 4.50 | .61           | 1.80 | 48.0          | 3.00 | .27           | .80 | 36.0          | 2.30 | .15           | .50 | 28.8           | 1.80 | .10           | .30 |

| Flow GPM |  |       |  | Temp. Rise** (°F) |  |     |  | Vent Length (Equiv. Ft.) |  |     |  | Air Inlet Length (Equiv. Ft.) |  |     |  |
|----------|--|-------|--|-------------------|--|-----|--|--------------------------|--|-----|--|-------------------------------|--|-----|--|
| Min      |  | Max   |  | Min               |  | Max |  | Min                      |  | Max |  | Min                           |  | Max |  |
| 28.8     |  | 144.1 |  | 20                |  | 100 |  | 6                        |  | 120 |  | 0                             |  | 120 |  |

\*\*Min/Max delta t reflects boiler operation at full input. For applications requiring operation above/below these parameters please consult factory.

**REP FIRM** \_\_\_\_\_  
**SUBMITTED BY** \_\_\_\_\_  
**JOB NAME** \_\_\_\_\_  
**ARCHITECT** \_\_\_\_\_  
**ENGINEER** \_\_\_\_\_  
**CONTRACTOR** \_\_\_\_\_  
**DATE** \_\_\_\_\_

## KN-16 - Dual Fuel

**Category II or Category IV Appliance**  
 (see Installation and Operation Manual for venting information)



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