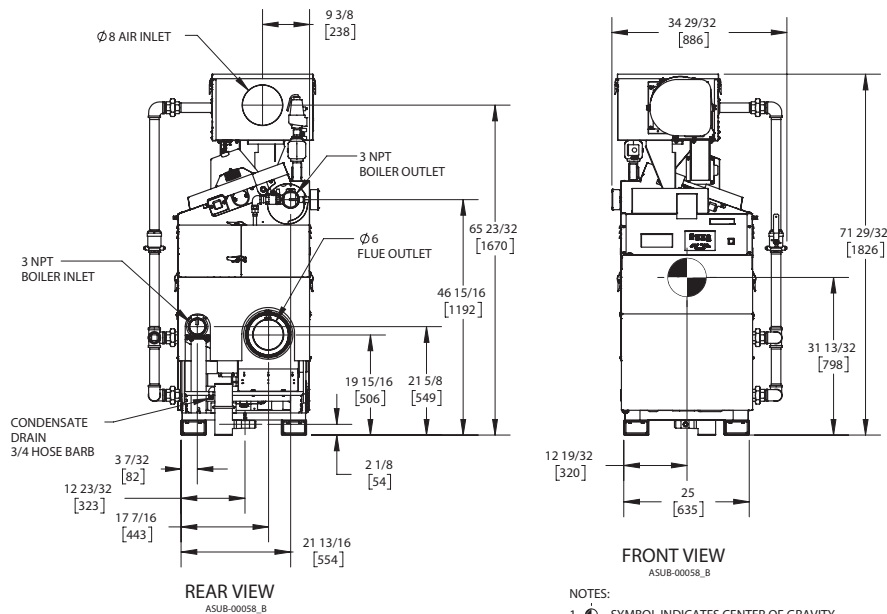
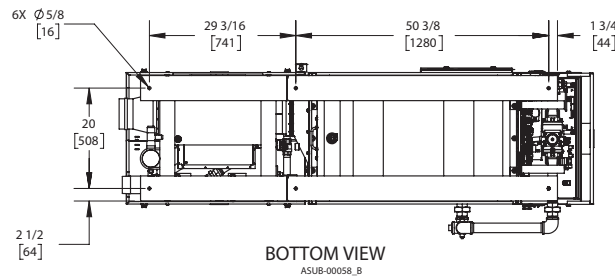
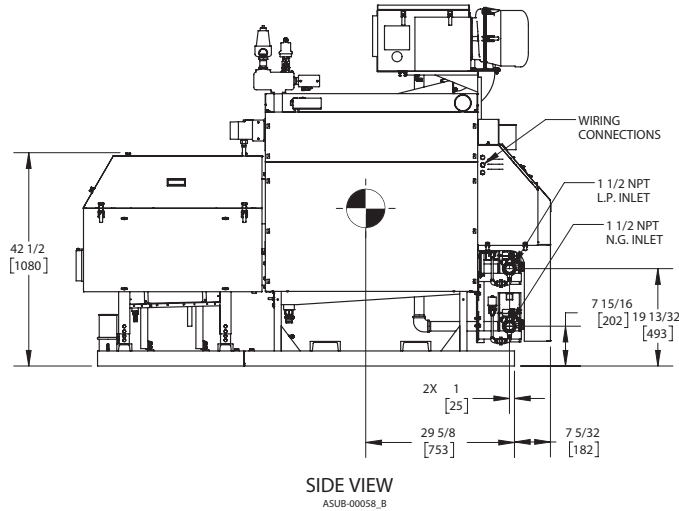
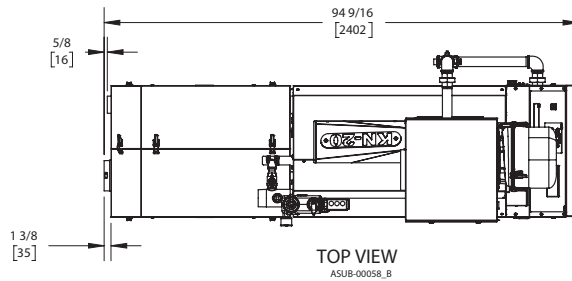


# KN20+ DUAL FUEL

## Category II or Category IV Appliance

(see Installation and Operation Manual for venting information)

## INDOOR UNIT



### 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>                 | 20.81 A*             |
| <b>Input BTU/hr.</b>           | 2,000,000 / 586 KW              | <b>Min. Gas Pressure Required</b> | 3" W.C.              |
| <b>Output BTU/hr.</b>          | 1,904,000 / 558 KW              | <b>Max. Gas Pressure Allowed</b>  | 14" W.C.             |
| <b>Boiler HP</b>               | 56.9                            | <b>Water Volume</b>               | 24.9 gal.            |
| <b>Electrical Requirements</b> | 230VAC/60 hz/1PH (with neutral) | <b>Operating Weight</b>           | 3040 lbs. / 1379 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>  | 73.14 Sq. Ft. / 6.80 Sq. M. | <b>Design Data</b> | 100 PSI & 250°F |
| <b>ASME Sect IV Water Side Htg Surface</b> | 78.20 Sq. Ft. / 7.26 Sq. M. |                    |                 |
| <b>CV. GPM (1PSID)</b>                     | 161                         |                    |                 |

\*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 |
| 190.5         | 12.02 | 3.23          | 9.65 | 95.2          | 6.01 | .81           | 2.41 | 63.5          | 4.01 | .36           | 1.07 | 47.6          | 3.00 | .20           | .60 | 38.1           | 2.40 | .13           | .39 |

| Flow GPM |       | Temp. Rise** (°F) |     | Vent Length (Equiv. Ft.) |     | Air Inlet Length (Equiv. Ft.) |     |
|----------|-------|-------------------|-----|--------------------------|-----|-------------------------------|-----|
| Min      | Max   | Min               | Max | Min                      | Max | Min                           | Max |
| 38.1     | 190.5 | 20                | 100 | 6                        | 100 | 0                             | 100 |

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

|                     |       |                                                                                                                                                                                                                                                                                                                 |
|---------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>REP FIRM</b>     | _____ | <h1>KN20+ DUAL FUEL</h1> <p><b>Category II or Category IV Appliance</b><br/>(see Installation and Operation Manual for venting information)</p>  <p>A Division of Mestek, Inc.<br/>Westfield, MA 01085<br/>833-265-5371</p> |
| <b>SUBMITTED BY</b> | _____ |                                                                                                                                                                                                                                                                                                                 |
| <b>JOB NAME</b>     | _____ |                                                                                                                                                                                                                                                                                                                 |
| <b>ARCHITECT</b>    | _____ |                                                                                                                                                                                                                                                                                                                 |
| <b>ENGINEER</b>     | _____ |                                                                                                                                                                                                                                                                                                                 |
| <b>CONTRACTOR</b>   | _____ |                                                                                                                                                                                                                                                                                                                 |
| <b>DATE</b>         | _____ |                                                                                                                                                                                                                                                                                                                 |