

# KN16X+

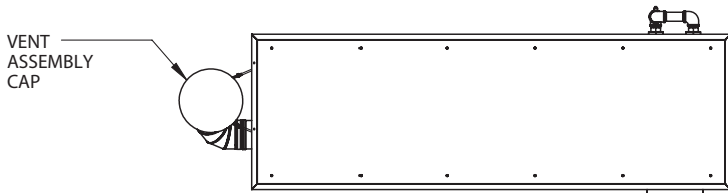
**Category II or Category IV Appliance**  
(see Installation and Operation Manual for venting information)

## CODE OPTIONS

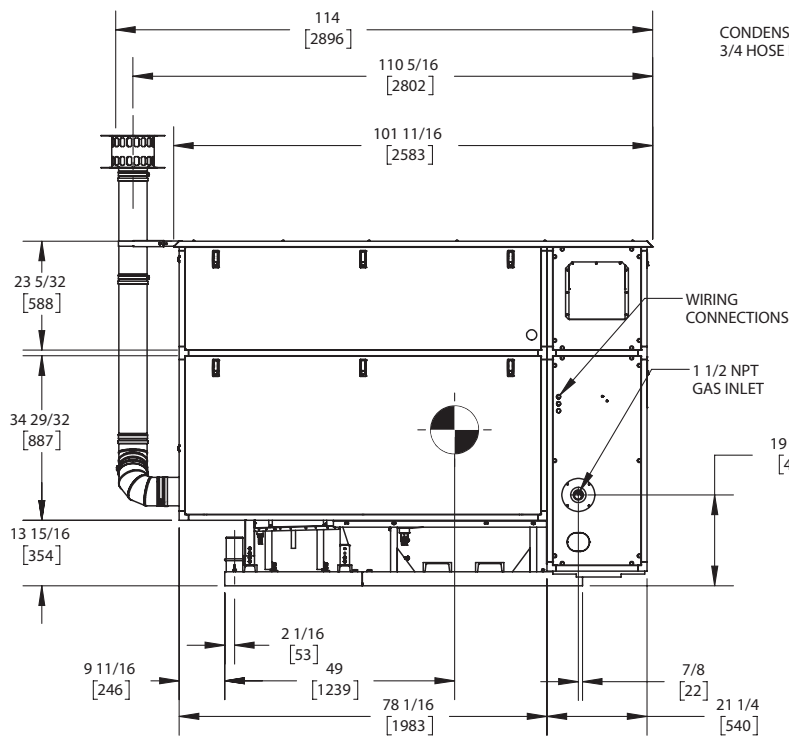
CSD-1

STANDARD

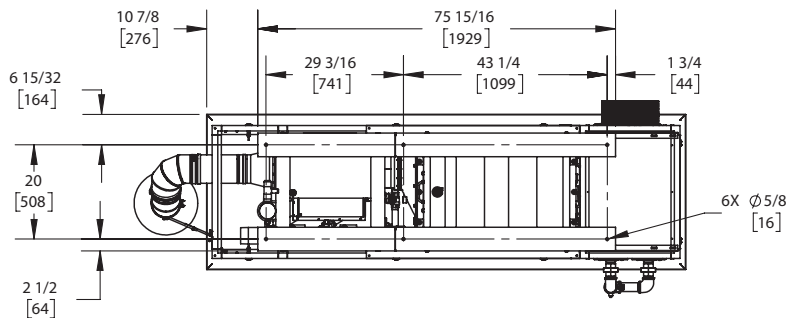
## OUTDOOR UNIT



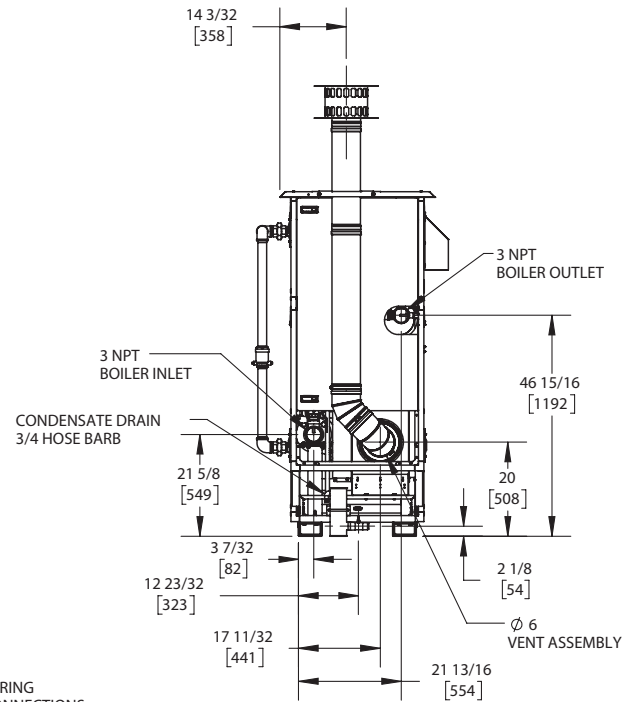
**TOP VIEW**  
ASUB-00064\_B



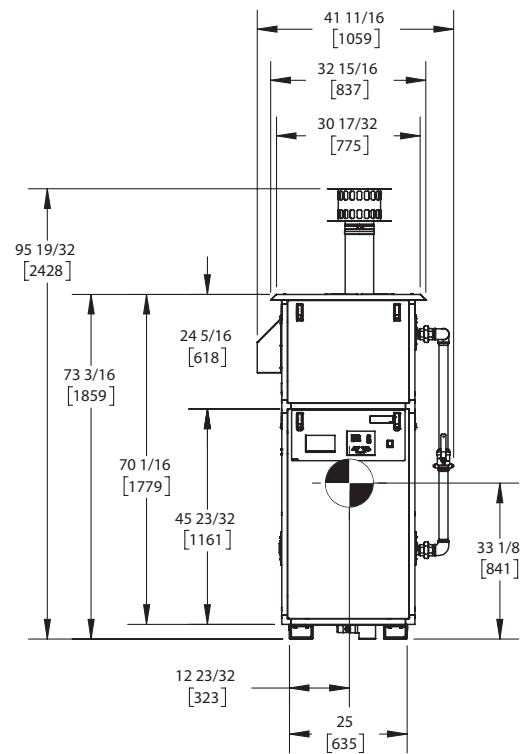
**SIDE VIEW**  
ASUB-00064\_B



**BOTTOM VIEW**  
ASUB-00064\_B



**REAR VIEW**  
ASUB-00064\_B



**FRONT VIEW**  
ASUB-00064\_B

### 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].



SKNP-16X-2

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

|                                |                                 |                                   |                      |
|--------------------------------|---------------------------------|-----------------------------------|----------------------|
| <b>Fuel Type</b>               | Natural/LP Gas                  | <b>Boiler FLA</b>                 | 13.9 A*              |
| <b>Input BTU/hr.</b>           | 1,600,000 / 469 KW              | <b>Min. Gas Pressure Required</b> | 3" W.C.              |
| <b>Output BTU/hr.</b>          | 1,528,000 / 448 KW              | <b>Max. Gas Pressure Allowed</b>  | 14" W.C.             |
| <b>Boiler HP</b>               | 45.7                            | <b>Water Volume</b>               | 21.0 gal.            |
| <b>Electrical Requirements</b> | 230VAC/60 hz/1PH (with neutral) | <b>Operating Weight</b>           | 2690 lbs. / 1220 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>     | Maxitrol RV12LT      |

## A.S.M.E.

|                                            |                             |                    |                 |
|--------------------------------------------|-----------------------------|--------------------|-----------------|
| <b>ASME Sect IV Fire Side Htg Surface</b>  | 433.5 Sq. Ft. / 40.3 Sq. M. | <b>Design Data</b> | 100 PSI & 250°F |
| <b>ASME Sect IV Water Side Htg Surface</b> | 72.91 Sq. Ft. / 6.77 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 |
| 152.9         | 9.64 | 2.75          | 8.22 | 76.4          | 4.82 | .69           | 2.06 | 51.0          | 3.21 | .31           | .91 | 38.2          | 2.41 | .17           | .51 | 30.6           | 1.93 | .11           | .33 |

| Flow GPM |  |       |  | Temp. Rise** (°F) |  |     |  | Vent Length (Equiv. Ft.) |  |     |  | Air Inlet Length (Equiv. Ft.) |  |     |  |
|----------|--|-------|--|-------------------|--|-----|--|--------------------------|--|-----|--|-------------------------------|--|-----|--|
| Min      |  | Max   |  | Min               |  | Max |  | Min                      |  | Max |  | Min                           |  | Max |  |
| 30.6     |  | 152.9 |  | 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>     | _____ | <b>KN16X+</b>                                                                                                                                            |
| <b>SUBMITTED BY</b> | _____ |                                                                                                                                                          |
| <b>JOB NAME</b>     | _____ |                                                                                                                                                          |
| <b>ARCHITECT</b>    | _____ |                                                                                                                                                          |
| <b>ENGINEER</b>     | _____ |                                                                                                                                                          |
| <b>CONTRACTOR</b>   | _____ |                                                                                                                                                          |
| <b>DATE</b>         | _____ | <b>Category II or Category IV Appliance</b><br>(see Installation and Operation Manual for venting information)                                           |
|                     |       |  A Division of Mestek, Inc.<br>Westfield, MA 01085<br>(413) 564-5515 |