

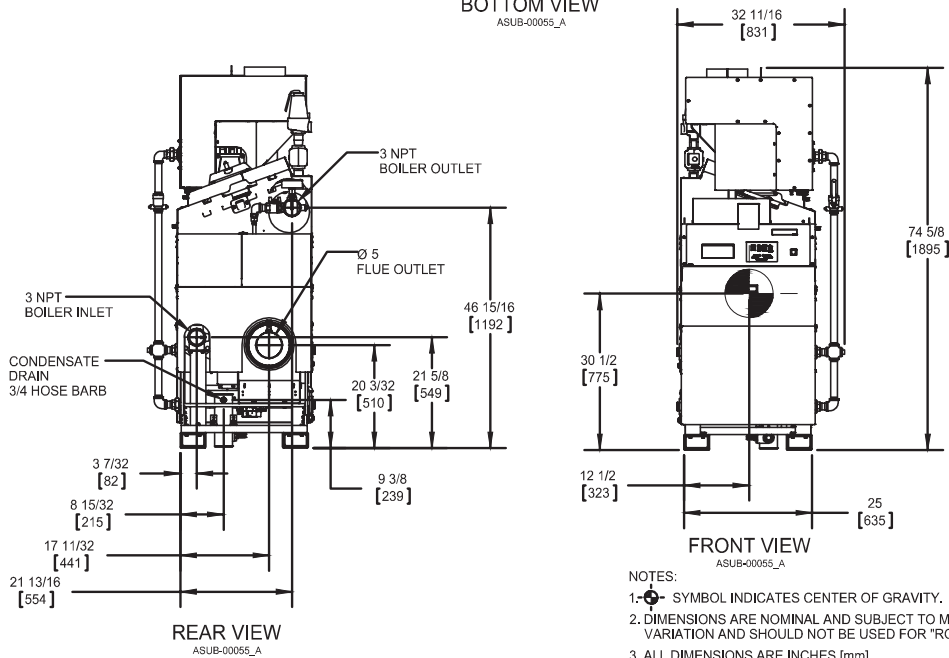
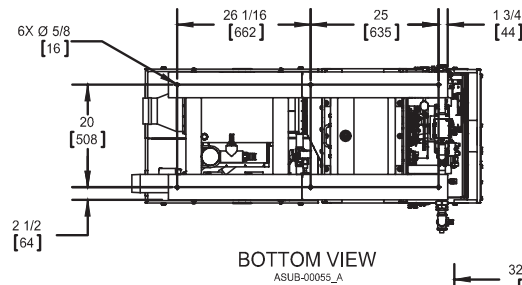
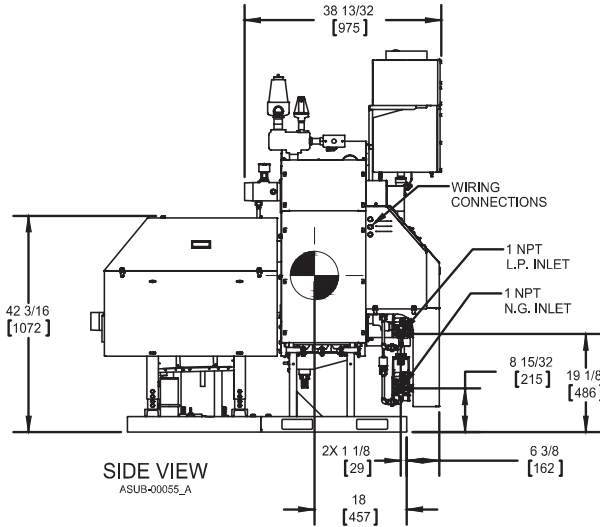
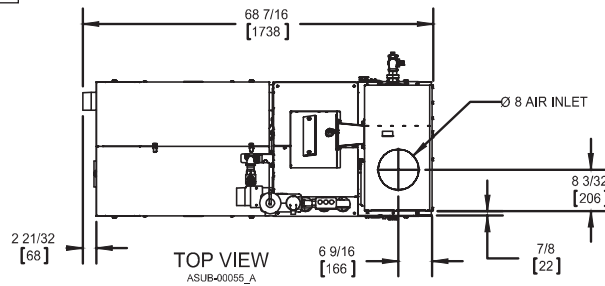
# KN6+ DUAL FUEL

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

## CODE OPTIONS

|       |          |
|-------|----------|
| CSD-1 | STANDARD |
|-------|----------|

## 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>                 | 13.9 A*             |
| <b>Input BTU/hr.</b>           | 600,000 / 176 KW   | <b>Min. Gas Pressure Required</b> | 3" W.C.             |
| <b>Output BTU/hr.</b>          | 576,600 / 169 KW   | <b>Max. Gas Pressure Allowed</b>  | 14" W.C.            |
| <b>Boiler HP</b>               | 17.2               | <b>Water Volume</b>               | 10.5 gal.           |
| <b>Electrical Requirements</b> | 120VAC/ 60 hz/ 1PH | <b>Operating Weight</b>           | 1485 lbs. / 674 kg. |

## BOILER TRIM & CONTROLS

|                          |                   |                            |                      |
|--------------------------|-------------------|----------------------------|----------------------|
| <b>Main Gas Valve</b>    | Dungs MBC         | <b>Air Switch</b>          | Huba                 |
| <b>Firing Valve</b>      | 1" 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" 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>  | 248.5 Sq. Ft. / 23.1 Sq. M. | <b>Design Data</b> | 100 PSI & 250°F |
| <b>ASME Sect IV Water Side Htg Surface</b> | 30.95 Sq. Ft. / 2.87 Sq. M. |                    |                 |
| <b>CV. GPM (1PSID)</b>                     | 62                          |                    |                 |

\*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 |
| 57.7          | 3.64 | 2.00          | 5.97 | 28.8          | 1.82 | .50           | 1.49 | 19.2          | 1.21 | .22           | .66 | 14.4          | .91 | .12           | .37 | 11.5           | .73 | .08           | .24 |

| Flow GPM |  |      |  | Temp. Rise** (°F) |  |     |  | Vent Length (Equiv. Ft.) |  |     |  | Air Inlet Length (Equiv. Ft.) |  |     |  |
|----------|--|------|--|-------------------|--|-----|--|--------------------------|--|-----|--|-------------------------------|--|-----|--|
| Min      |  | Max  |  | Min               |  | Max |  | Min                      |  | Max |  | Min                           |  | Max |  |
| 11.5     |  | 57.7 |  | 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>KN6+ DUAL FUEL</h1> <p><b>Category II or Category IV Appliance</b><br/>(see Installation and Operation Manual for venting information)</p> <div>  <div> A Division of Mestek, Inc.<br/> Westfield, MA 01085<br/> (413) 564-5515 </div> </div> |
| <b>SUBMITTED BY</b> | _____ |                                                                                                                                                                                                                                                                                                                                       |
| <b>JOB NAME</b>     | _____ |                                                                                                                                                                                                                                                                                                                                       |
| <b>ARCHITECT</b>    | _____ |                                                                                                                                                                                                                                                                                                                                       |
| <b>ENGINEER</b>     | _____ |                                                                                                                                                                                                                                                                                                                                       |
| <b>CONTRACTOR</b>   | _____ |                                                                                                                                                                                                                                                                                                                                       |
| <b>DATE</b>         | _____ |                                                                                                                                                                                                                                                                                                                                       |

# KN10+ DUAL FUEL

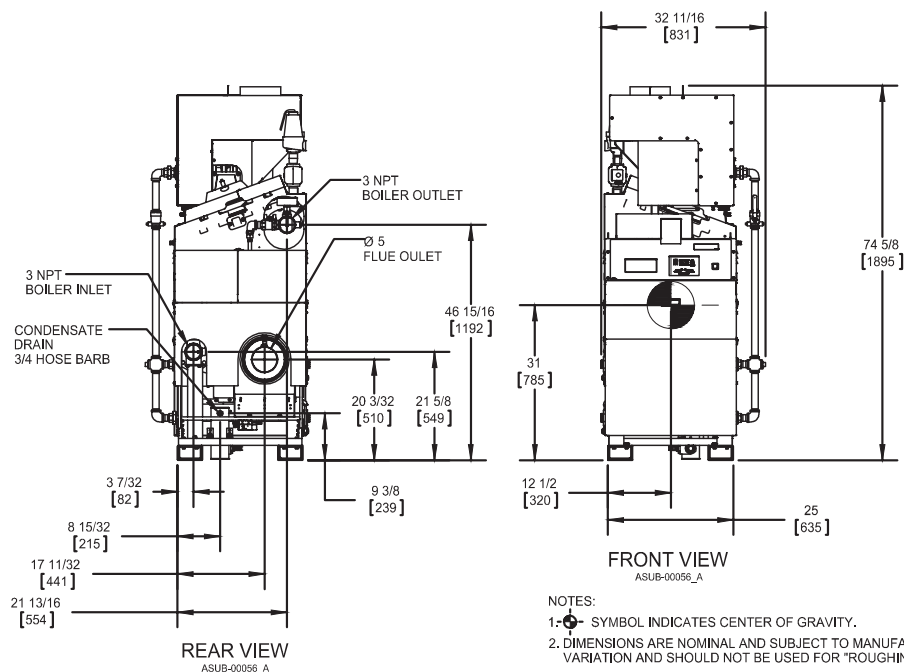
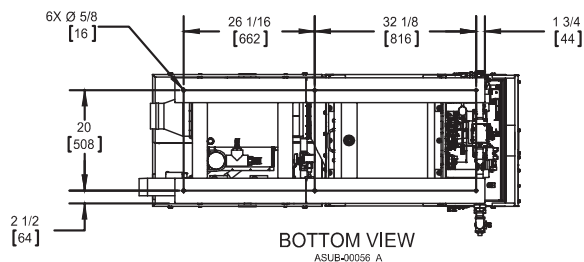
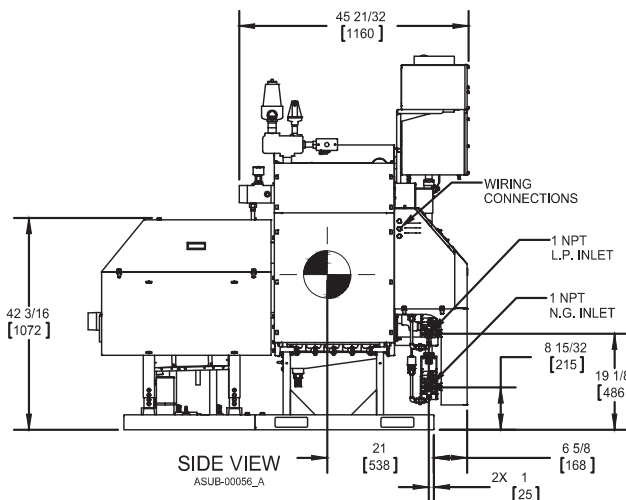
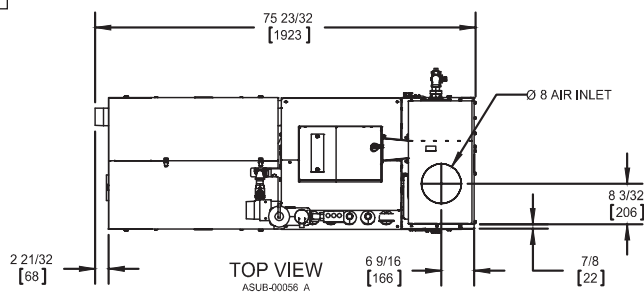
**Category II or Category IV Appliance**  
(see Installation and Operation Manual for venting information)

## CODE OPTIONS

CSD-1

STANDARD

## 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>                 | 13.9 A*             |
| <b>Input BTU/hr.</b>           | 1,000,000 / 293 KW | <b>Min. Gas Pressure Required</b> | 3" W.C.             |
| <b>Output BTU/hr.</b>          | 952,000 / 279 KW   | <b>Max. Gas Pressure Allowed</b>  | 14" W.C.            |
| <b>Boiler HP</b>               | 28.4               | <b>Water Volume</b>               | 14.5 gal.           |
| <b>Electrical Requirements</b> | 120VAC/ 60 hz/ 1PH | <b>Operating Weight</b>           | 1850 lbs. / 839 kg. |

## BOILER TRIM & CONTROLS

|                          |                   |                            |                      |
|--------------------------|-------------------|----------------------------|----------------------|
| <b>Main Gas Valve</b>    | Dungs MBC         | <b>Air Switch</b>          | Huba                 |
| <b>Firing Valve</b>      | 1" 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" 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>  | 261.8 Sq. Ft. / 24.3 Sq. M. | <b>Design Data</b> | 100 PSI & 250°F |
| <b>ASME Sect IV Water Side Htg Surface</b> | 45.17 Sq. Ft. / 4.20 Sq. M. |                    |                 |
| <b>CV. GPM (1PSID)</b>                     | 100                         |                    |                 |

\*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 |
| 95.2          | 6.01 | 2.09          | 6.26 | 47.6          | 3.00 | .52           | 1.56 | 31.7          | 2.00 | .23           | .70 | 23.8          | 1.50 | .13           | .39 | 19.0           | 1.20 | .08           | .25 |

| Flow GPM |  |      |  | Temp. Rise** (°F) |  |     |  | Vent Length (Equiv. Ft.) |  |     |  | Air Inlet Length (Equiv. Ft.) |  |     |  |
|----------|--|------|--|-------------------|--|-----|--|--------------------------|--|-----|--|-------------------------------|--|-----|--|
| Min      |  | Max  |  | Min               |  | Max |  | Min                      |  | Max |  | Min                           |  | Max |  |
| 19.0     |  | 95.2 |  | 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>KN10+ 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/>(413) 564-5515</p> |
| <b>SUBMITTED BY</b> | _____ |                                                                                                                                                                                                                                                                                                                   |
| <b>JOB NAME</b>     | _____ |                                                                                                                                                                                                                                                                                                                   |
| <b>ARCHITECT</b>    | _____ |                                                                                                                                                                                                                                                                                                                   |
| <b>ENGINEER</b>     | _____ |                                                                                                                                                                                                                                                                                                                   |
| <b>CONTRACTOR</b>   | _____ |                                                                                                                                                                                                                                                                                                                   |
| <b>DATE</b>         | _____ |                                                                                                                                                                                                                                                                                                                   |

# KN16+ DUAL FUEL

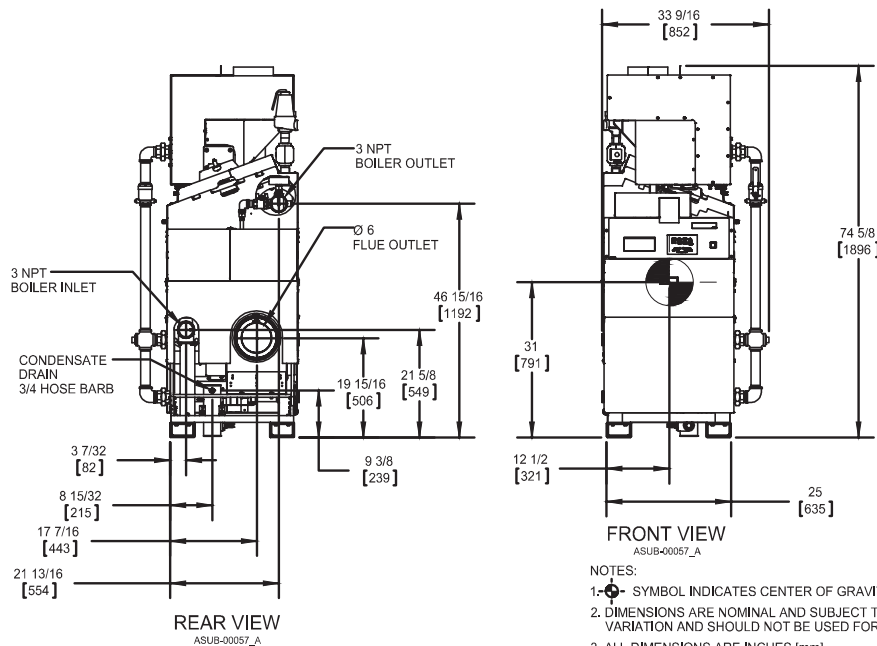
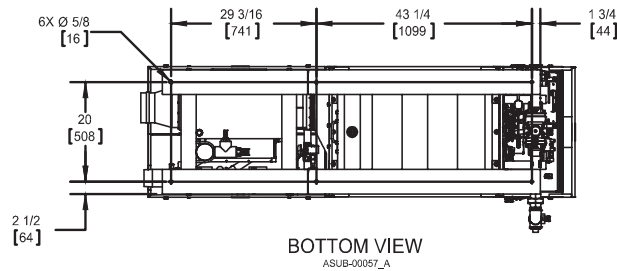
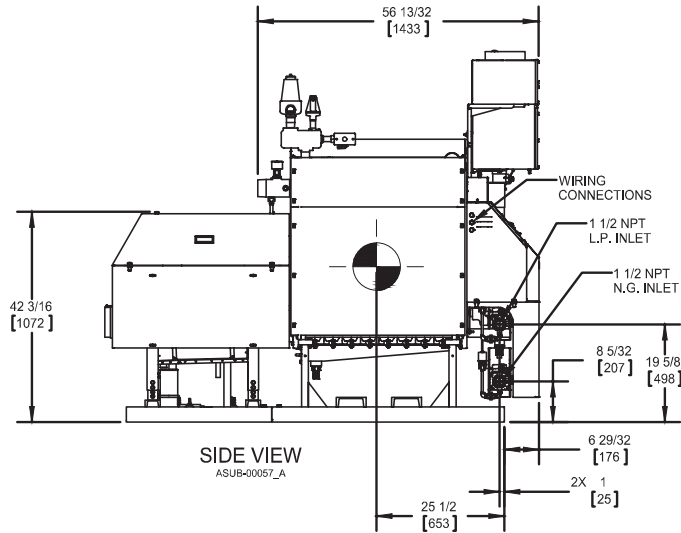
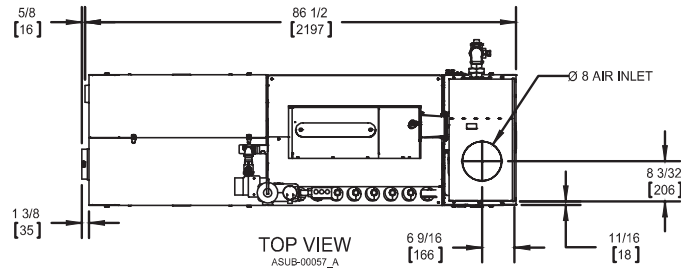
**Category II or Category IV Appliance**  
(see Installation and Operation Manual for venting information)

## CODE OPTIONS

CSD-1

STANDARD

## 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>                 | 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>          | 1,537,600 / 450 KW              | <b>Max. Gas Pressure Allowed</b>  | 14" W.C.             |
| <b>Boiler HP</b>               | 45.9                            | <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. |

## 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 |
| 153.8         | 9.70 | 2.79          | 8.33 | 76.9          | 4.85 | .70           | 2.08 | 51.3          | 3.23 | .31           | .93 | 38.5          | 2.43 | .17           | .52 | 30.8           | 1.94 | .11           | .33 |

| Flow GPM |  |       |  | Temp. Rise** (°F) |  |     |  | Vent Length (Equiv. Ft.) |  |     |  | Air Inlet Length (Equiv. Ft.) |  |     |  |
|----------|--|-------|--|-------------------|--|-----|--|--------------------------|--|-----|--|-------------------------------|--|-----|--|
| Min      |  | Max   |  | Min               |  | Max |  | Min                      |  | Max |  | Min                           |  | Max |  |
| 30.8     |  | 153.8 |  | 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>SUBMITTED BY</b> | _____ |
| <b>JOB NAME</b>     | _____ |
| <b>ARCHITECT</b>    | _____ |
| <b>ENGINEER</b>     | _____ |
| <b>CONTRACTOR</b>   | _____ |
| <b>DATE</b>         | _____ |

## KN16+ DUAL FUEL

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



A Division of Mestek, Inc.  
Westfield, MA 01085  
(413) 564-5515

# KN20+ DUAL FUEL

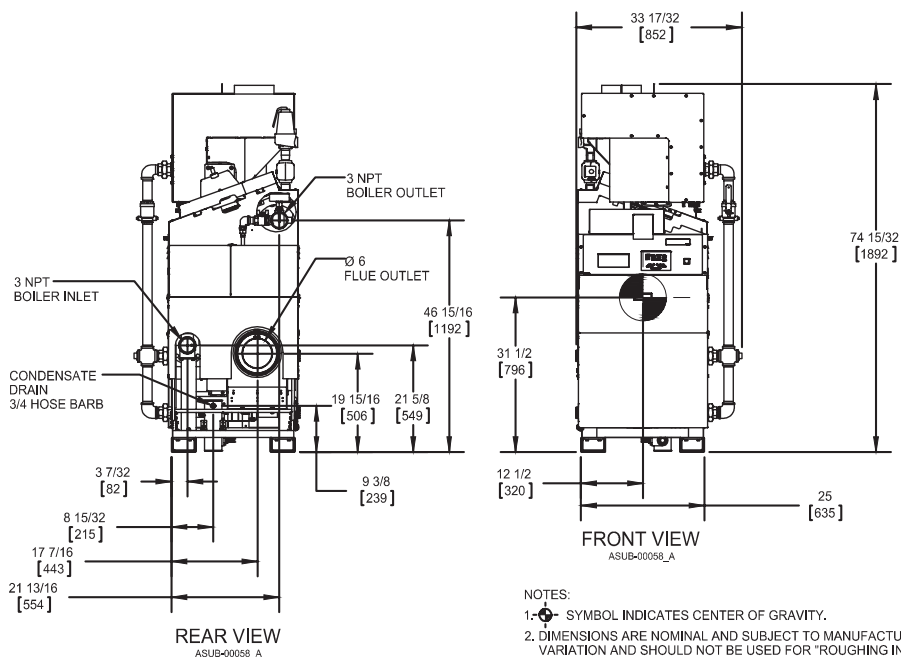
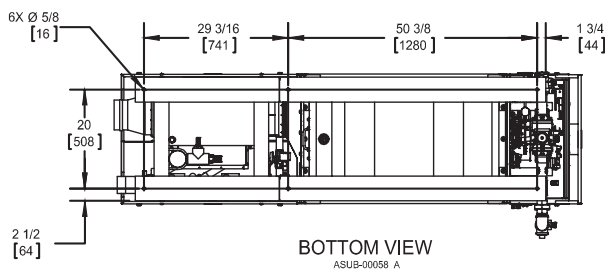
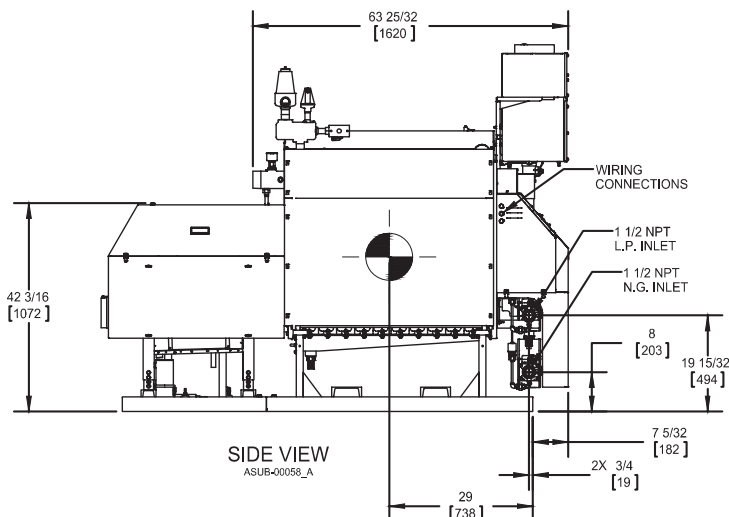
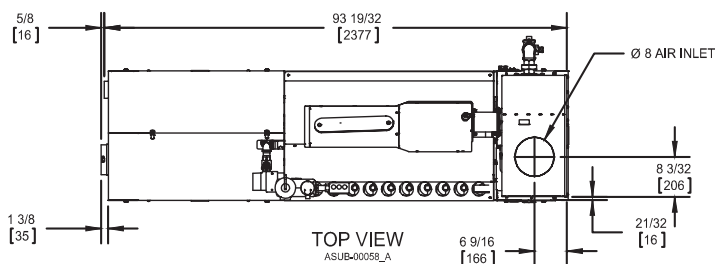
**Category II or Category IV Appliance**  
(see Installation and Operation Manual for venting information)

## CODE OPTIONS

CSD-1

STANDARD

## 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>                 | 13.9 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. |

## 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>  | 446.7 Sq. Ft. / 41.5 Sq. M. | <b>Design Data</b> | 100 PSI & 250°F |
| <b>ASME Sect IV Water Side Htg Surface</b> | 87.13 Sq. Ft. / 8.09 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.

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

# KN20+ DUAL FUEL

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



A Division of Mestek, Inc.  
Westfield, MA 01085  
(413) 564-5515



# KN26+ DUAL FUEL

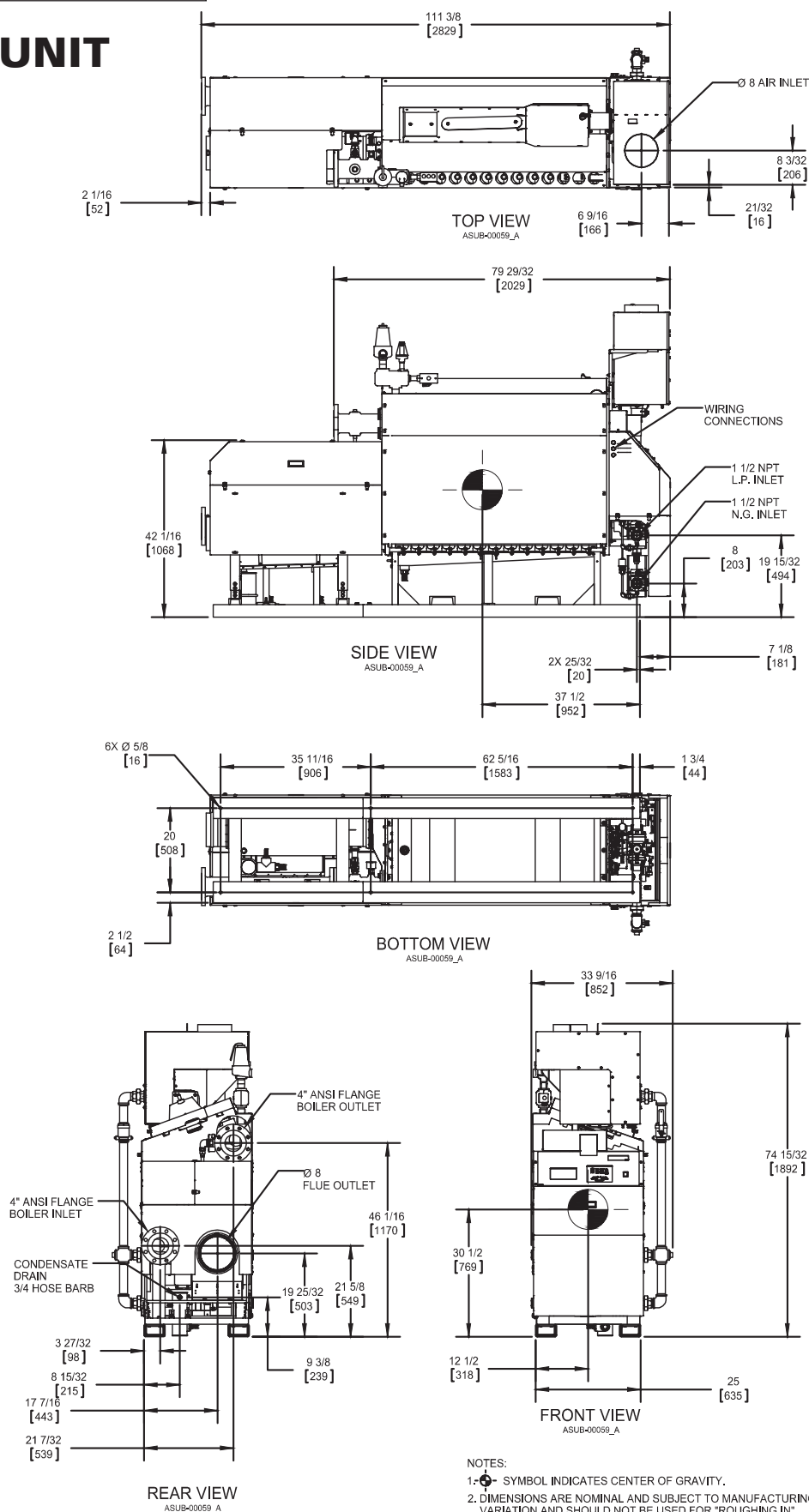
**Category II or Category IV Appliance**  
(see Installation and Operation Manual for venting information)

## CODE OPTIONS

CSD-1

STANDARD

## INDOOR UNIT



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

|                                |                    |                                   |                      |
|--------------------------------|--------------------|-----------------------------------|----------------------|
| <b>Fuel Type</b>               | Natural/LP Gas     | <b>Boiler FLA</b>                 | 11.3 A*              |
| <b>Input BTU/hr.</b>           | 2,600,000 / 762 KW | <b>Min. Gas Pressure Required</b> | 3" W.C.              |
| <b>Output BTU/hr.</b>          | 2,498,600 / 732 KW | <b>Max. Gas Pressure Allowed</b>  | 14" W.C.             |
| <b>Boiler HP</b>               | 74.6               | <b>Water Volume</b>               | 31.9 gal.            |
| <b>Electrical Requirements</b> | 230VAC/60 hz/3PH   | <b>Operating Weight</b>           | 3840 lbs. / 1742 kg. |

## 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 (Manual Reset)</b> | Honeywell L4006E  | <b>L.W.C.O.</b>            | 800                  |
| <b>High Limit (Auto Reset)</b>   | Honeywell L4006A  | <b>Relief Valve</b>        | 30, 50, 75 & 100 PSI |
| <b>Main Ball Valve</b>           | 1-1/2" Apollo     | <b>Pilot Regulator</b>     | Maxitrol RV12LT      |
| <b>Pilot Cock</b>                | 1/4" Conbraco     |                            |                      |

## A.S.M.E.

|                                            |                             |                    |                 |
|--------------------------------------------|-----------------------------|--------------------|-----------------|
| <b>ASME Sect IV Fire Side Htg Surface</b>  | 542.4 Sq. Ft. / 50.4 Sq. M. | <b>Design Data</b> | 100 PSI & 250°F |
| <b>ASME Sect IV Water Side Htg Surface</b> | 111.7 Sq. Ft. / 10.4 Sq. M. |                    |                 |
| <b>CV. GPM (1PSID)</b>                     | 222                         |                    |                 |

\*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 |
| 250.0         | 15.77 | 2.93          | 8.74 | 125.0         | 7.89 | .73           | 2.19 | 83.3          | 5.26 | .33           | .97 | 62.5          | 3.94 | .18           | .55 | 50.0           | 3.15 | .12           | .35 |

| Flow GPM |  |       |  | Temp. Rise** (°F) |  |     |  | Vent Length (Equiv. Ft.) |  |     |  | Air Inlet Length (Equiv. Ft.) |  |     |  |
|----------|--|-------|--|-------------------|--|-----|--|--------------------------|--|-----|--|-------------------------------|--|-----|--|
| Min      |  | Max   |  | Min               |  | Max |  | Min                      |  | Max |  | Min                           |  | Max |  |
| 50.0     |  | 250.0 |  | 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>KN26+ 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/>(413) 564-5515</p> |
| <b>SUBMITTED BY</b> | _____ |                                                                                                                                                                                                                                                                                                                   |
| <b>JOB NAME</b>     | _____ |                                                                                                                                                                                                                                                                                                                   |
| <b>ARCHITECT</b>    | _____ |                                                                                                                                                                                                                                                                                                                   |
| <b>ENGINEER</b>     | _____ |                                                                                                                                                                                                                                                                                                                   |
| <b>CONTRACTOR</b>   | _____ |                                                                                                                                                                                                                                                                                                                   |
| <b>DATE</b>         | _____ |                                                                                                                                                                                                                                                                                                                   |

# KN30+ DUAL FUEL

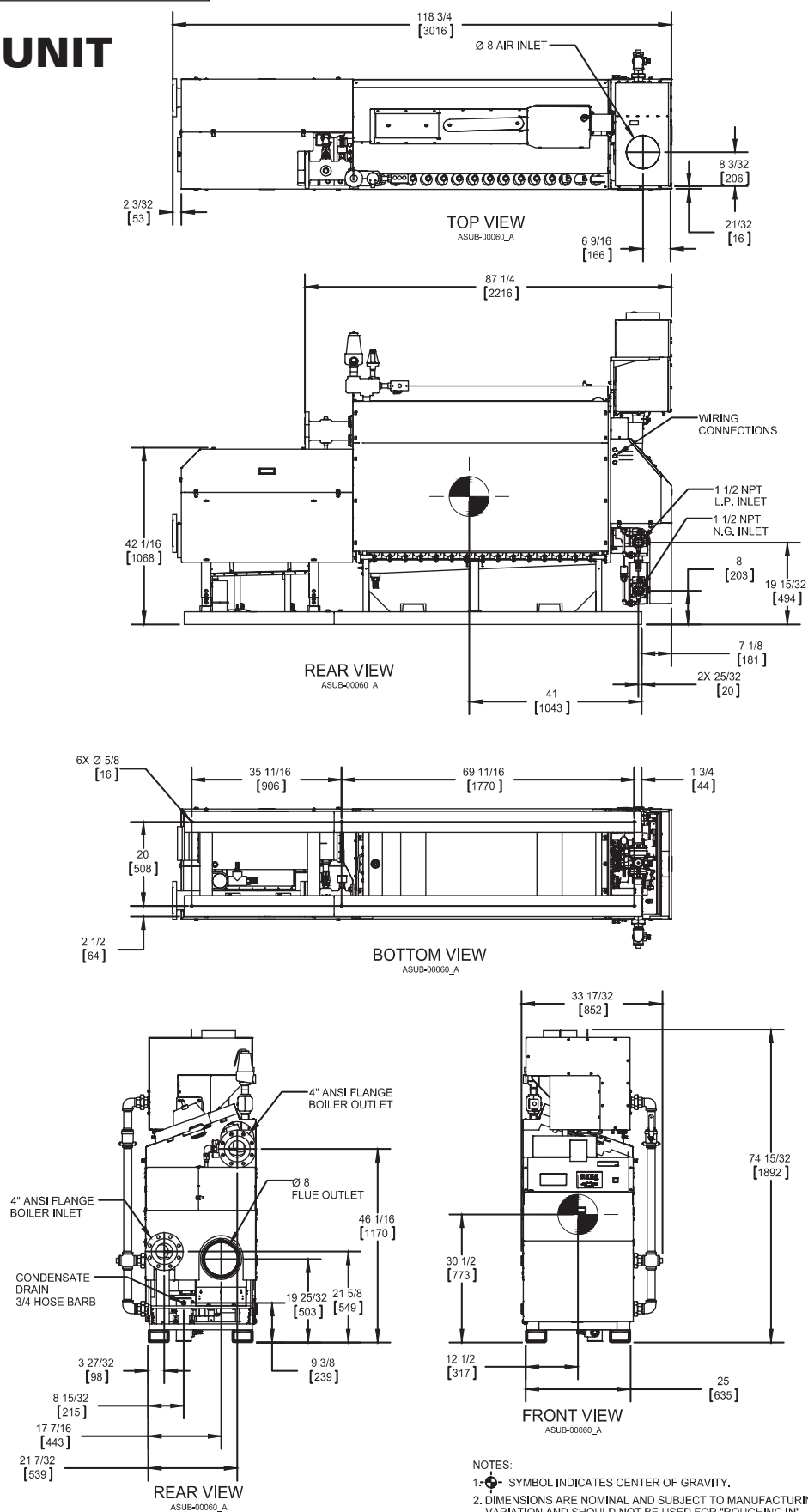
**Category II or Category IV Appliance**  
(see Installation and Operation Manual for venting information)

## CODE OPTIONS

CSD-1

STANDARD

## INDOOR UNIT



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

|                                |                    |                                   |                      |
|--------------------------------|--------------------|-----------------------------------|----------------------|
| <b>Fuel Type</b>               | Natural/LP Gas     | <b>Boiler FLA</b>                 | 11.3 A*              |
| <b>Input BTU/hr.</b>           | 3,000,000 / 879 KW | <b>Min. Gas Pressure Required</b> | 3" W.C.              |
| <b>Output BTU/hr.</b>          | 2,856,000 / 837 KW | <b>Max. Gas Pressure Allowed</b>  | 14" W.C.             |
| <b>Boiler HP</b>               | 85.3               | <b>Water Volume</b>               | 35.9 gal.            |
| <b>Electrical Requirements</b> | 230VAC/60 hz/3PH   | <b>Operating Weight</b>           | 4250 lbs. / 1928 kg. |

## 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 (Manual Reset)</b> | Honeywell L4006E  | <b>L.W.C.O.</b>            | 800                  |
| <b>High Limit (Auto Reset)</b>   | Honeywell L4006A  | <b>Relief Valve</b>        | 30, 50, 75 & 100 PSI |
| <b>Main Ball Valve</b>           | 1-1/2" Apollo     | <b>Pilot Regulator</b>     | Maxitrol RV12LT      |
| <b>Pilot Cock</b>                | 1/4" Conbraco     |                            |                      |

## A.S.M.E.

|                                            |                             |                    |                 |
|--------------------------------------------|-----------------------------|--------------------|-----------------|
| <b>ASME Sect IV Fire Side Htg Surface</b>  | 555.7 Sq. Ft. / 51.6 Sq. M. | <b>Design Data</b> | 100 PSI & 250°F |
| <b>ASME Sect IV Water Side Htg Surface</b> | 125.9 Sq. Ft. / 11.7 Sq. M. |                    |                 |
| <b>CV. GPM (1PSID)</b>                     | 246                         |                    |                 |

\*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 |
| 285.7         | 18.03 | 3.11          | 9.30 | 142.9         | 9.01 | .78           | 2.33 | 95.2          | 6.01 | .35           | 1.03 | 71.4          | 4.51 | .19           | .58 | 57.1           | 3.61 | .12           | .37 |

| Flow GPM |  |       |  | Temp. Rise** (°F) |  |     |  | Vent Length (Equiv. Ft.) |  |     |  | Air Inlet Length (Equiv. Ft.) |  |     |  |
|----------|--|-------|--|-------------------|--|-----|--|--------------------------|--|-----|--|-------------------------------|--|-----|--|
| Min      |  | Max   |  | Min               |  | Max |  | Min                      |  | Max |  | Min                           |  | Max |  |
| 57.1     |  | 285.7 |  | 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>KN30+ 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/>(413) 564-5515</p> |
| <b>SUBMITTED BY</b> | _____ |                                                                                                                                                                                                                                                                                                                   |
| <b>JOB NAME</b>     | _____ |                                                                                                                                                                                                                                                                                                                   |
| <b>ARCHITECT</b>    | _____ |                                                                                                                                                                                                                                                                                                                   |
| <b>ENGINEER</b>     | _____ |                                                                                                                                                                                                                                                                                                                   |
| <b>CONTRACTOR</b>   | _____ |                                                                                                                                                                                                                                                                                                                   |
| <b>DATE</b>         | _____ |                                                                                                                                                                                                                                                                                                                   |

# KN40+ DUAL FUEL

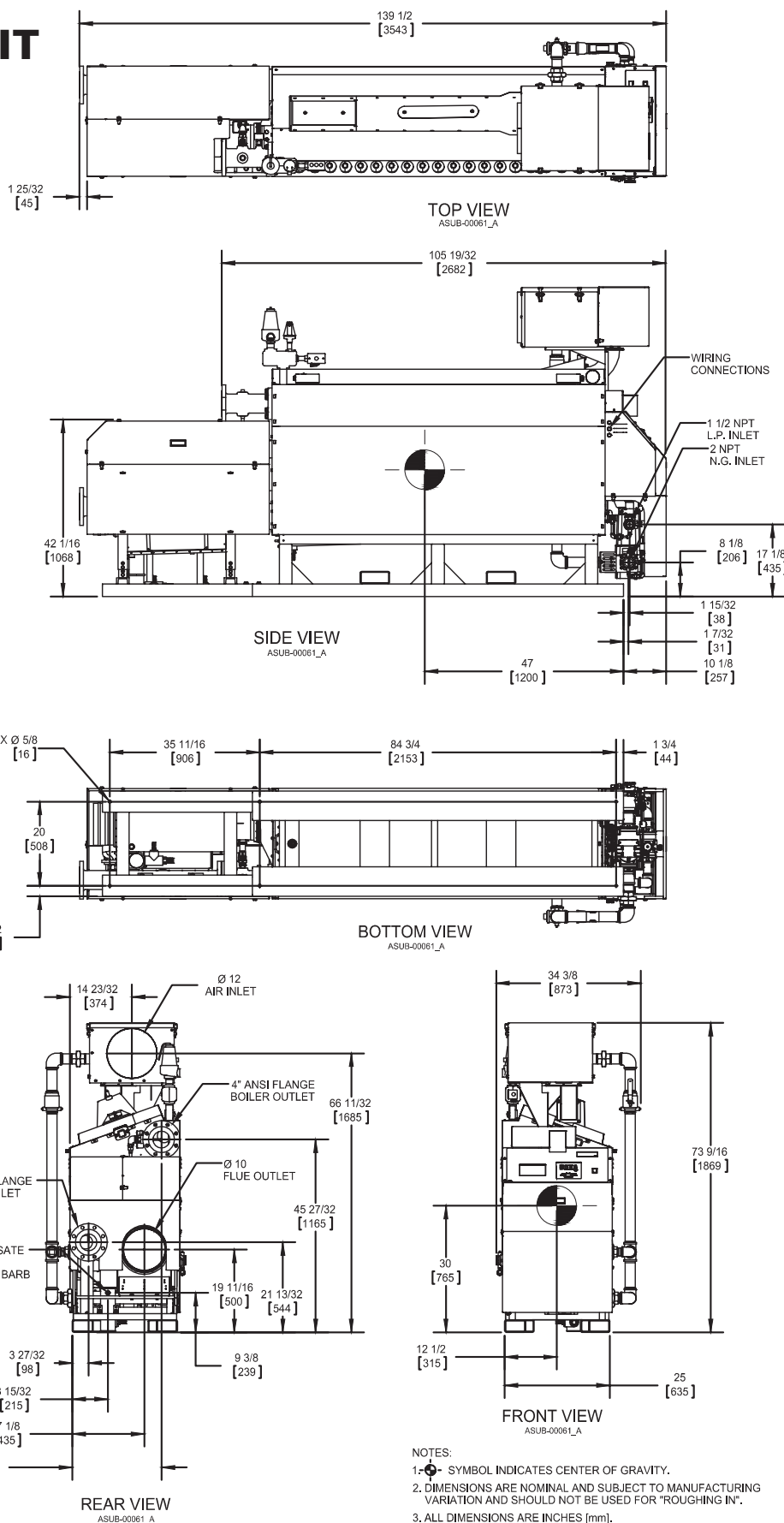
Category II or Category IV Appliance  
(see Installation and Operation Manual for venting information)

## CODE OPTIONS

CSD-1

STANDARD

## INDOOR UNIT



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

|                                |                     |                                   |                      |
|--------------------------------|---------------------|-----------------------------------|----------------------|
| <b>Fuel Type</b>               | Natural/LP Gas      | <b>Boiler FLA</b>                 | 17.0 A*              |
| <b>Input BTU/hr.</b>           | 4,000,000 / 1172 KW | <b>Min. Gas Pressure Required</b> | 3" W.C.              |
| <b>Output BTU/hr.</b>          | 3,808,000 / 1116 KW | <b>Max. Gas Pressure Allowed</b>  | 14" W.C.             |
| <b>Boiler HP</b>               | 113.8               | <b>Water Volume</b>               | 47.1 gal.            |
| <b>Electrical Requirements</b> | 230VAC/60 hz/3PH    | <b>Operating Weight</b>           | 5120 lbs. / 2322 kg. |

## BOILER TRIM & CONTROLS

|                                  |                   |                            |                      |
|----------------------------------|-------------------|----------------------------|----------------------|
| <b>Main Gas Valve</b>            | Dungs MBC         | <b>Air Switch</b>          | Huba                 |
| <b>Firing Valve</b>              | 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 (Manual Reset)</b> | Honeywell L4006E  | <b>L.W.C.O.</b>            | 800                  |
| <b>High Limit (Auto Reset)</b>   | Honeywell L4006A  | <b>Relief Valve</b>        | 30, 50, 75 & 100 PSI |
| <b>Main Ball Valve</b>           | 2" Apollo         | <b>Pilot Regulator</b>     | Maxitrol RV12LT      |
| <b>Pilot Cock</b>                | 1/4" Conbraco     |                            |                      |

## A.S.M.E.

|                                            |                             |                    |                 |
|--------------------------------------------|-----------------------------|--------------------|-----------------|
| <b>ASME Sect IV Fire Side Htg Surface</b>  | 694.3 Sq. Ft. / 64.5 Sq. M. | <b>Design Data</b> | 100 PSI & 250°F |
| <b>ASME Sect IV Water Side Htg Surface</b> | 165.9 Sq. Ft. / 15.4 Sq. M. |                    |                 |
| <b>CV. GPM (1PSID)</b>                     | 271                         |                    |                 |

\*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 |
| 381.0         | 24.03 | 4.56          | 13.63 | 190.5         | 12.02 | 1.14          | 3.41 | 127.0         | 8.01 | .51           | 1.51 | 95.2          | 6.01 | .28           | .85 | 76.2           | 4.81 | .18           | .55 |

| Flow GPM |  |       |  | Temp. Rise** (°F) |  |     |  | Vent Length (Equiv. Ft.) |  |     |  | Air Inlet Length (Equiv. Ft.) |  |     |  |
|----------|--|-------|--|-------------------|--|-----|--|--------------------------|--|-----|--|-------------------------------|--|-----|--|
| Min      |  | Max   |  | Min               |  | Max |  | Min                      |  | Max |  | Min                           |  | Max |  |
| 76.2     |  | 381.0 |  | 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>KN40+ DUAL FUEL</h1> <p><b>Category II or Category IV Appliance</b><br/>(see Installation and Operation Manual for venting information)</p> <div>  <p>A Division of Mestek, Inc.<br/>Westfield, MA 01085<br/>(413) 564-5515</p> </div> |
| <b>SUBMITTED BY</b> | _____ |                                                                                                                                                                                                                                                                                                                                |
| <b>JOB NAME</b>     | _____ |                                                                                                                                                                                                                                                                                                                                |
| <b>ARCHITECT</b>    | _____ |                                                                                                                                                                                                                                                                                                                                |
| <b>ENGINEER</b>     | _____ |                                                                                                                                                                                                                                                                                                                                |
| <b>CONTRACTOR</b>   | _____ |                                                                                                                                                                                                                                                                                                                                |
| <b>DATE</b>         | _____ |                                                                                                                                                                                                                                                                                                                                |