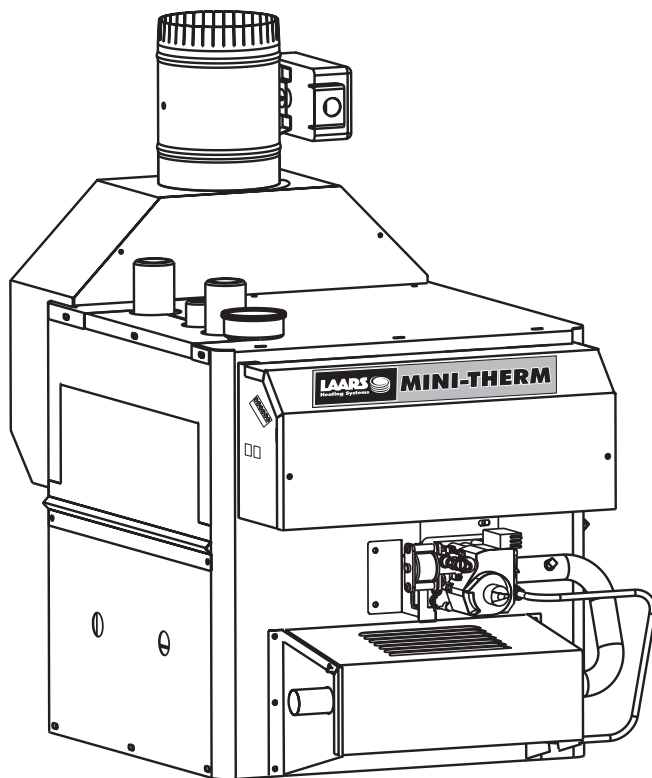


## MINI-THERM® JVS



# Hydronic Boilers

JVS Residential Gas-Fired Boiler

Indoor Sizes 50-225 MBTU/h

Submittal Data **LAARS**  
Heating Systems Company

### Standard Equipment

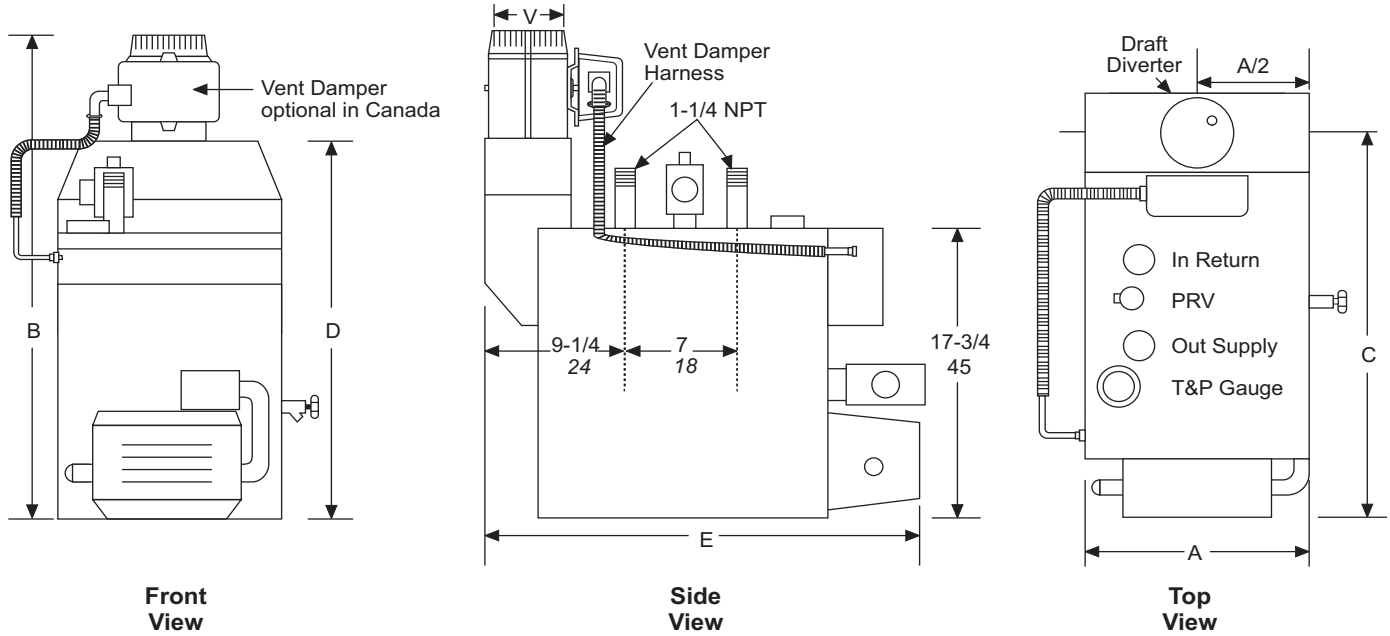
- PI Controller
- Outdoor reset with ratios of 0.4 to 3.6
- Warm Weather Shutdown (WWSD)
- Domestic Hot Water Operation (DHW)
- Indicator lights for power, heat call, DHW call and WWSD
- Automatic boiler differential
- Pump pre-purge, post-purge and exercise
- Codes for sensor errors
- Venting: built-in draft diverter
- Design certified/tested by CSA International
- Natural or propane gas
- Maximum working pressure: water 30 P.S.I., ASME rated
- Hydrostatic test pressure at factory: 60 P.S.I.
- 30 psi ASME pressure relief valve
- Maximum gas supply pressure: Natural 10.5" W.C.; Propane 13" W.C.
- Pressure relief valve: capacity in excess of boiler input rating
- Material specifications per Section IV, ASME Code
- Headers: cast iron per ASME requirements
- Tubes: copper with integral formed external fins
- Main burners: aluminized steel
- Air supply: natural aspiration
- Altitudes: 0–10,000 ft.
- Spark to pilot ignition
- Electrical: 115V-60Hz-1PH less than 12 Amps 24V transformer mounted and wired
- Pump relay: standard
- Vent damper and wire harness
- Blocked vent safety switch (B.V.S.S.)
- Flame rollout safety switch
- Up to 85% AFUE
- 20-Year Limited Warranty

### Minimum Clearances from Adjacent Construction

#### Minimum Clearances, inches cm

| Size | Left + Right Sides, Rear |    | Front |    | Flue |    | Top |    |
|------|--------------------------|----|-------|----|------|----|-----|----|
| 50   | 6                        | 15 | 4     | 10 | 6    | 15 | 23  | 58 |
| 75   | 6                        | 15 | 4     | 10 | 6    | 15 | 23  | 58 |
| 100  | 6                        | 15 | 4     | 10 | 6    | 15 | 23  | 58 |
| 125  | 6                        | 15 | 4     | 10 | 6    | 15 | 23  | 58 |
| 160  | 6                        | 15 | 4     | 10 | 6    | 15 | 36  | 91 |
| 225  | 6                        | 15 | 4     | 10 | 6    | 15 | 36  | 91 |

## Dimensional Data



Dimensions shown in inches *cm*.

| Size | Dimensions<br>inches <i>cm</i> |           |           |           |           |      | Approx Weight |    |
|------|--------------------------------|-----------|-----------|-----------|-----------|------|---------------|----|
|      | A                              | B         | C         | D         | E         | V    | lbs.          | kg |
| 50   | 13-3/8 34                      | 27-3/4 71 | 23-5/8 60 | 21-3/4 55 | 26-1/2 67 | 4 10 | 120           | 54 |
| 75   | 13-3/8 34                      | 27-3/4 71 | 24-1/8 61 | 21-3/4 55 | 27-1/2 70 | 5 13 | 126           | 57 |
| 100  | 16-7/8 43                      | 28-3/4 73 | 24-1/8 61 | 22-3/4 58 | 27-1/2 70 | 5 13 | 134           | 61 |
| 125  | 16-7/8 43                      | 28-3/4 73 | 23-5/8 60 | 22-3/4 58 | 27-1/2 70 | 6 15 | 138           | 63 |
| 160  | 20-3/8 52                      | 28-3/4 73 | 23-5/8 60 | 22-3/4 58 | 27-1/2 70 | 6 15 | 164           | 74 |
| 225  | 25-5/8 65                      | 31-1/2 80 | 23-1/4 59 | 24-3/4 63 | 27-1/2 70 | 7 18 | 181           | 82 |

| Size | Input  |      | Heating Capacity |      | Net IBR |      | AFUE % | Water Conn.<br>in. | Gas Conn.<br>in. |
|------|--------|------|------------------|------|---------|------|--------|--------------------|------------------|
|      | MBTU/h | kW   | MBTU/h           | kW   | MBTU/h  | kW   |        |                    |                  |
| 50   | 50     | 14.6 | 43               | 12.3 | 36.5    | 10.7 | 85.0   | 1-1/4              | 1/2              |
| 75   | 75     | 21.9 | 64               | 18.5 | 54.8    | 16.1 | 85.0   | 1-1/4              | 1/2              |
| 100  | 100    | 29.1 | 85               | 24.6 | 73      | 21.4 | 85.0   | 1-1/4              | 1/2              |
| 125  | 125    | 36.6 | 106              | 30.8 | 91.3    | 26.8 | 85.0   | 1-1/4              | 1/2              |
| 160  | 160    | 46.8 | 136              | 39.3 | 116.9   | 34.3 | 85.0   | 1-1/4              | 1/2              |
| 225  | 225    | 65.9 | 191              | 55.4 | 164.3   | 48.1 | 85.0   | 1-1/4              | 3/4*             |

\*1/2" for propane



Laars Heating Systems Company reserves the right to change specifications, components, features, or to discontinue products without notice.