TECHNICAL CATALOG BULLETIN

# V-3 OIL-FIRED—NON-PACKAGED FLAME RETENTION BOILER-BURNER UNIT HOT WATER OR STEAM

PLAINTIFF'S EXHIBIT

ASI-129

## THE NEW V-3 BOILER-BURNER FEATURES:

**WET BASE DESIGN**—for durability and heat transfer efficiency. Sections water tested at 75 PSI (2½ times rated capacity relief valve).

**DUAL FIRING RATES**—each boiler comes with two nozzles. Install the one that meets immediate needs. Change capacity later when and if required just by switching to other nozzle.

**NON-PACKAGED**—for Go-Anywhere versatility. Sections are factory assembled.

**QUIET**—1725 RPM Flame Retention Burner.

**EFFICIENT**—Flame Retention DH Burner capable of operating at 12¼% $CO_2$ with combustion efficiency of over 80%.

**CONTROLS**—(including primary control) are front mounted for ease of service and adjustment. Primary control features light-sensing detector for fast response to ignition and shutdown.

EXACT-AIRE is a trademark of AMERICAN STANDARD Inc.

**DH-F FLAME RETENTION OIL BURNER**—Flame Retention head engineered to provide clean, efficient, economical firing. Sling-Mount hanging and EXACT-AIRE control simplify installation and adjustment.

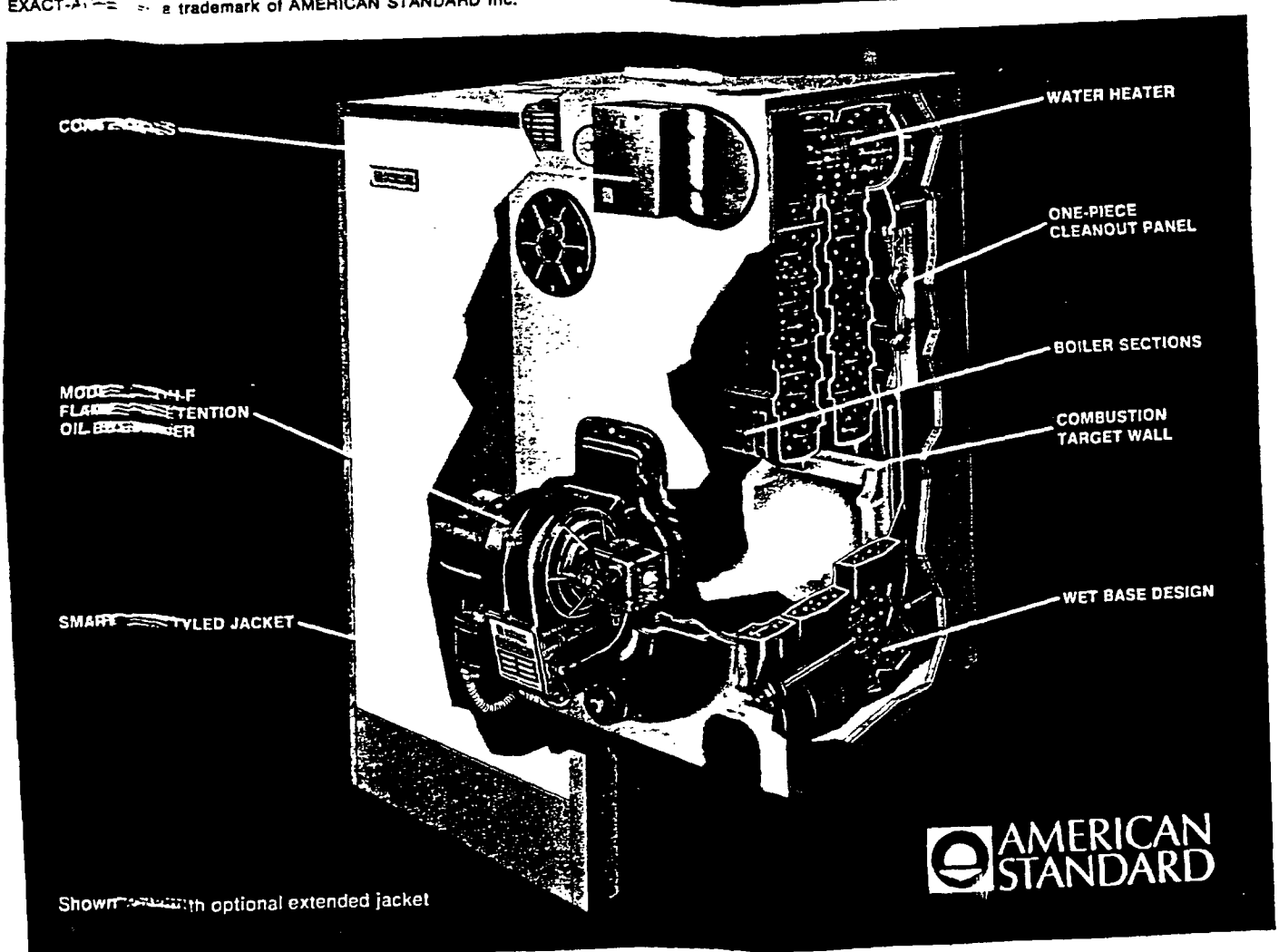
**WATER HEATER**—large capacity, copper coil tankless type. Inserts into upper nipple port on forced water boiler, lower nipple port on steam boiler.

**ONE-PIECE CLEAN OUT PANEL**—permits cleaning of all flue surfaces from right side without disturbing burner, controls or accessories.

**COMBUSTION TARGET WALL**—long-lived, efficient refractory target wall, provides even heat distribution from combustion area.

**SMARTLY STYLED JACKET**—insulated sturdy steel in modern brown and beige colors.

**BOILER ONLY AVAILABLE**—designated **V-3M**, lower ratings, supplied with full combustion chamber and burner plate with radiation shield.




Shown with optional extended jacket

A.I.A. File No. 30-C-1

(April, 1973)

# V-3 OIL-FIRED—NON-PACKAGED FLAME RETENTION BOILER-BURNER UNIT

## V-3 BOILER-BURNER UNITS

| No. of Sections | Model ▪ Number | Burner Used | I=B=R Burner Capacity (GPH) | Nozzle Used | I=B=R Gross Output (MBH) | Net Installed Rad.-Water (MBH) | Net Installed Rad.-Steam (Sq. Ft.) | Net Installed Rad.-Steam (MBH) | Tankless Heater Number | Tankless Heater Rating• Steam (GPM) | Tankless Heater Rating• Water (GPM) | I=B=R Nominal Chimney Size (Inches) | Approx. Shipping Wt. Non-Packaged Boiler-Burner Unit Section Assembly |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | V3-116 | DH-4F1 | 1.05 | 1.00-80ES | 116 | 100.9 | 353 | 87.1 | 222 | 4-1/4 | 4-3/4 | 8x8x15 | 613 |
| 3 | V3-128 | DH-4F1 | 1.15 | 1.10-80ES | 128 | 111.3 | 400 | 96.0 | 222 | 4-1/4 | 4-3/4 | 8x8x15 | 613 |
| 4 | V3-172 | DH-5F2 | 1.55 | 1.50-80ES | 172 | 149.6 | 538 | 129.1 | 226 | 5-1/4 | 5-3/4 | 8x8x15 | 790 |
| 4 | V3-186 | DH-5F2 | 1.70 | 1.65-70ES | 186 | 161.7 | 581 | 139.4 | 226 | 5-1/4 | 5-3/4 | 8x8x15 | 790 |
| 5 | V3-228 | DH-5F3 | 2.10 | 2.00-70R | 228 | 198.3 | 713 | 171.1 | 232 | 6-1/4 | 7 | 8x8x15 | 967 |
| 5 | V3-244 | DH-5F3 | 2.25 | 2.25-70R | 244 | 212.2 | 763 | 183.1 | 232 | 6-1/4 | 7 | 8x12x15 | 967 |
| 6 | V3-284 | DH-5F3 | 2.60 | 2.50-70B | 284 | 247.0 | 888 | 213.1 | 445 | 7-1/4 | 8-1/4 | 8x12x15 | 1,144 |
| 6 | V3-302 | DH-5F3 | 2.80 | 2.75-60B | 302 | 262.6 | 944 | 226.6 | 445 | 7-1/4 | 8-1/4 | 8x12x15 | 1,144 |

▪ "WB" will imply water application
"SB" will imply steam application
For boiler with tankless heater add suffix "T". } Example: V3-116WBT or V3-116WB

• Gallons per minute of water heated from 40 degrees F to 140 degrees F with 200 degrees F boiler water.

## V-3M BOILERS ONLY

| No. of Sections | Model ▪ Number | Burner Used | I=B=R Burner Capacity (GPH) | Nozzle Used | I=B=R Gross Output (MBH) | Net Installed Rad.-Water (MBH) | Net Installed Rad.-Steam (Sq. Ft.) | Net Installed Rad.-Steam (MBH) | Tankless Heater Number | Tankless Heater Rating• Steam (GPM) | Tankless Heater Rating• Water (GPM) | I=B=R Nominal Chimney Size (Inches) | Approx. Shipping Wt. Non-Packaged Boiler-Burner Unit Section Assembly |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | V3M-92 | DH-5(1) | .85 | .85-70W | 92 | 80.0 | 288 | 69.0 | 222 | 4 | 4-1/2 | 8x8x15 | 613 |
| 3 | V3M-110 | DH-5(1) | 1.00 | 1.00-70W | 110 | 95.7 | 344 | 82.5 | 222 | 4 | 4-1/2 | 8x8x15 | 613 |
| 4 | V3M-138 | DH-5(2) | 1.30 | 1.25-70B | 138 | 120.0 | 431 | 103.5 | 226 | 5 | 5-1/2 | 8x8x15 | 790 |
| 4 | V3M-156 | DH-5(2) | 1.45 | 1.35-70B | 156 | 135.7 | 489 | 117.0 | 226 | 5 | 5-1/2 | 8x8x15 | 790 |
| 5 | V3M-184 | DH-5(2) | 1.70 | 1.65-70B | 184 | 160.0 | 575 | 138.0 | 232 | 6 | 6-3/4 | 8x8x15 | 967 |
| 5 | V3M-202 | DH-5(2) | 1.90 | 1.75-70B | 202 | 175.7 | 631 | 151.5 | 232 | 6 | 6-3/4 | 8x8x15 | 967 |
| 6 | V3M-230 | DH-5(3) | 2.15 | 2.00-70B | 230 | 200.9 | 722 | 173.3 | 445 | 7 | 7-3/4 | 8x12x15 | 1,144 |
| 6 | V3M-248 | DH-5(3) | 2.35 | 2.25-60B | 248 | 215.7 | 775 | 186.0 | 445 | 7 | 7-3/4 | 8x12x15 | 1,144 |

▪ "W" will imply water application
"S" will imply steam application
For boiler with tankless heater add suffix "T". } Example: V3M-92WT or V3M-92W

• Gallons per minute of water heated from 40 degrees F to 140 degrees F with 200 degrees F boiler water.
Only I=B=R approved oil burners, such as the DH-5 burner, may be used with V-3M oil fired boilers.

AMERICAN STANDARD
PLUMBING / HEATING
P.O. BOX 2003, NEW BRUNSWICK, N. J. 08903

# TECHNICAL CATALOG BULLETIN

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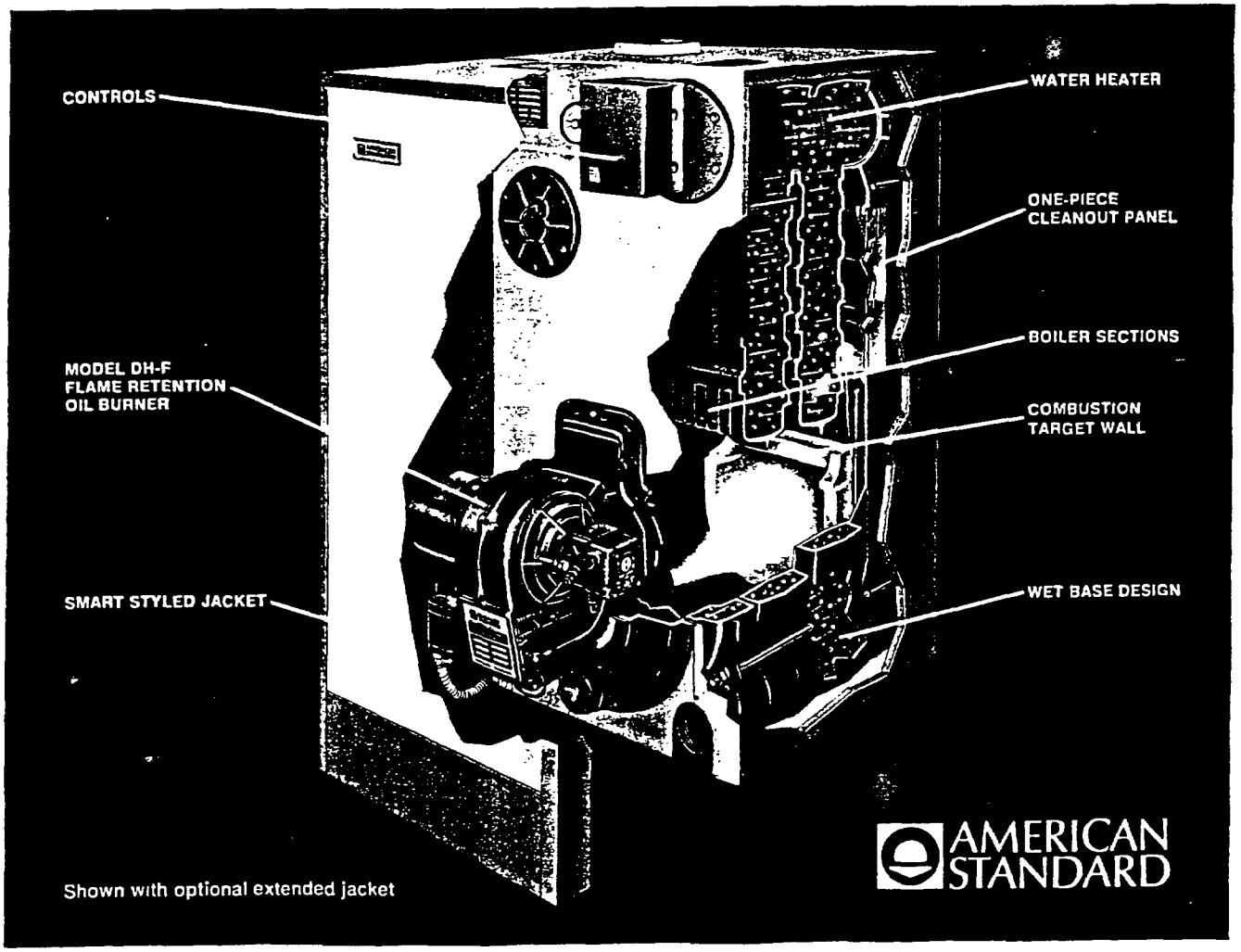
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