

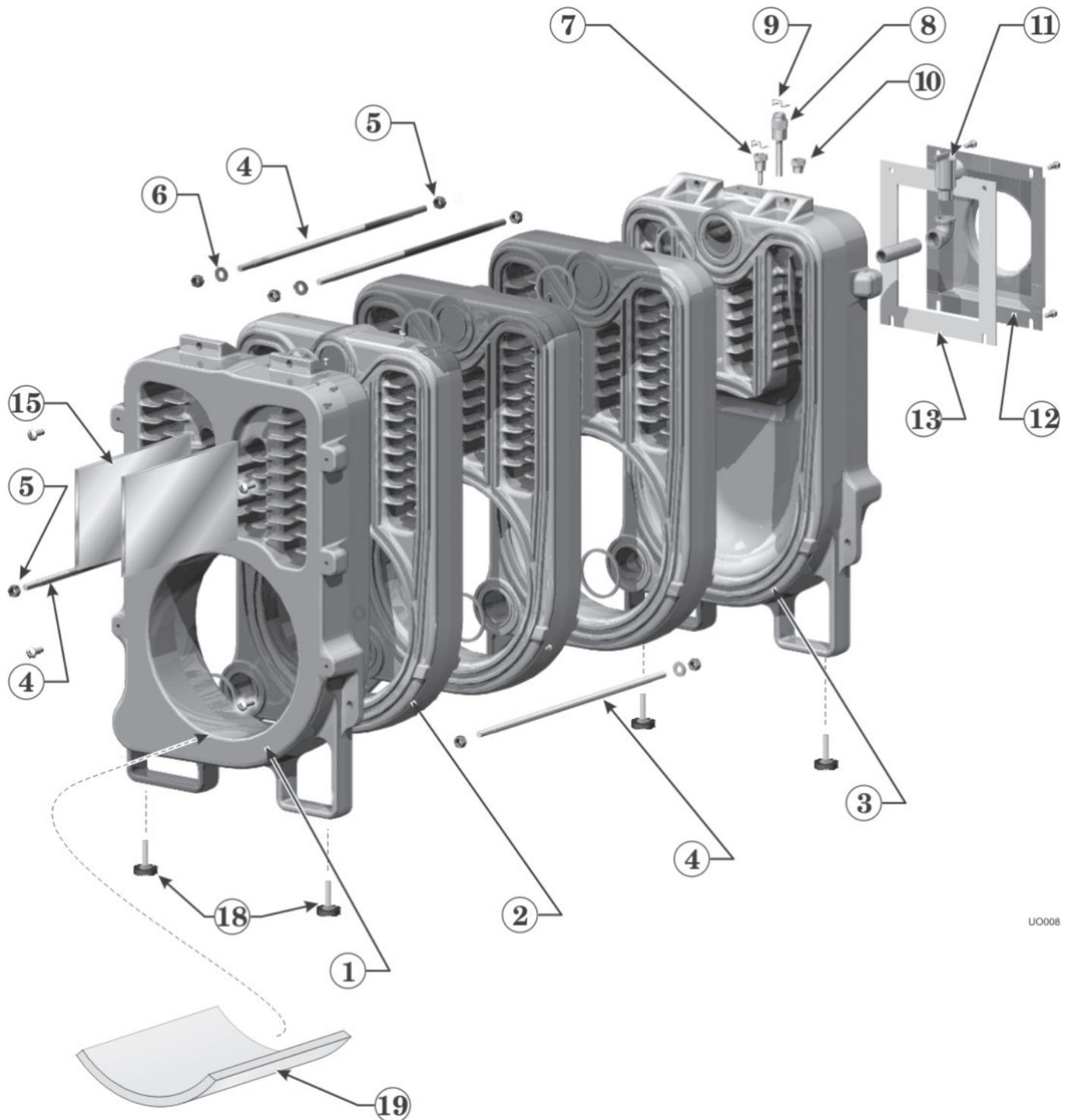
## Appendix — Replacement parts *(continued)*

### Boiler section assembly parts

| Item | Description   | Part Number                               |
|------|---|---|
| 1    | Boiler front section  | 316-900-200                               |
| 2    | Boiler intermediate section   | 316-900-210                               |
| 3    | Boiler back section   | 316-900-220                               |
| 4    | Tie rods (4 required)   | UO-3<br>UO-4<br>UO-5                      |
|      |   | 560-234-468<br>560-234-472<br>560-234-477 |
| 5    | Nuts (8 required)   | 561-928-221                               |
| 6    | Washers (4 required)  | 562-248-668                               |
| 7    | P/T gauge temperature sensor well   | 592-300-025                               |
| 8    | Limit control sensor well   | 592-300-006                               |
| 9    | Mounting clip for P/T gauge and limit well  | 512-400-001                               |
| 10   | P/T gauge pressure sensor check valve   | 512-400-000                               |
| 11   | Boiler relief valve   | 511-546-920                               |
| 12   | Flue collar   | 446-900-000                               |
| 13   | Flue collar gasket  | 590-318-028                               |
| 14   | Flue collar replacement Kit (flue collar plate, gasket, (4) bolts)                            | 386-902-002                               |
| 15   | Flueway baffles (for UO-3 1.0 gph input only) — (2) required                                  | 452-800-455                               |
| 16   | Front/Intermediate section replacement kit (includes seals & rope)                            | 386-902-004                               |
| 17   | Back section replacement kit (includes seals, rope, flue gasket)                              | 386-902-003                               |
| 18   | Leveling legs (4)   | 386-902-013                               |
| 19   | UO-3 0.80 GPH ONLY combustion chamber floor blanket   | 591-221-287                               |
| 20   | UO-3 0.80 GPH ONLY low firing rate kit (Not shown)<br>(includes blanket, water glass, nozzle) | 386-902-007                               |

## Appendix — Replacement parts *(continued)*

### Boiler section assembly parts



U0008

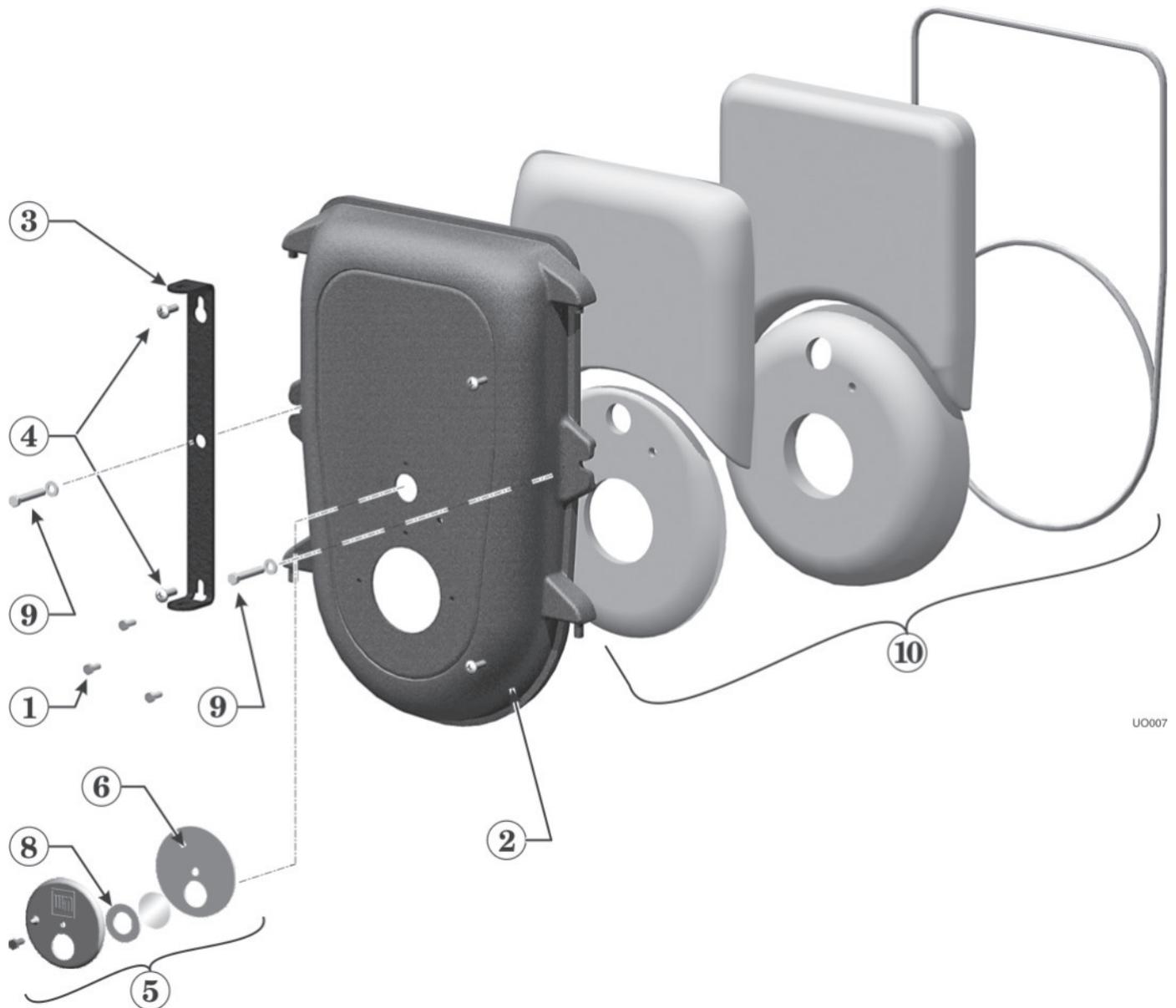
## Appendix — Replacement parts *(continued)*

### Burner door parts

| Item | Description  | Part Number      |
|------|--|------------------|
| 1    | Burner flange bolts (3) each, 5/16"-18 x 3/4" Hex HD SS  | Purchase locally |
| 2    | Burner door  | 330-054-308      |
| 3    | Burner door hinge bracket  | 466-900-000      |
| 4    | Hinge bracket screws (2 required), 3/8"-16 x 1   | Purchase locally |
| 5    | Observation port assembly (includes observation port, bolt, observation port gasket, sight glass gasket, sight glass, water glass) | 386-902-000      |
| 6    | Observation port gasket (requires water glass adhesive)  | 590-318-027      |
| 7    | Water glass for observation port gasket (Not shown)  | 591-632-612      |
| 8    | Sight glass gasket   | 590-317-580      |
| 9    | Burner door retainer bolts and washers (2) each, 3/8"-16 x 2" Hex HD ZP  | Purchase locally |
| 10   | Burner door insulation kit (includes refractories, insulation blankets, & rope)  | 386-902-001      |

## Appendix — Replacement parts *(continued)*

### Burner door parts



U0007

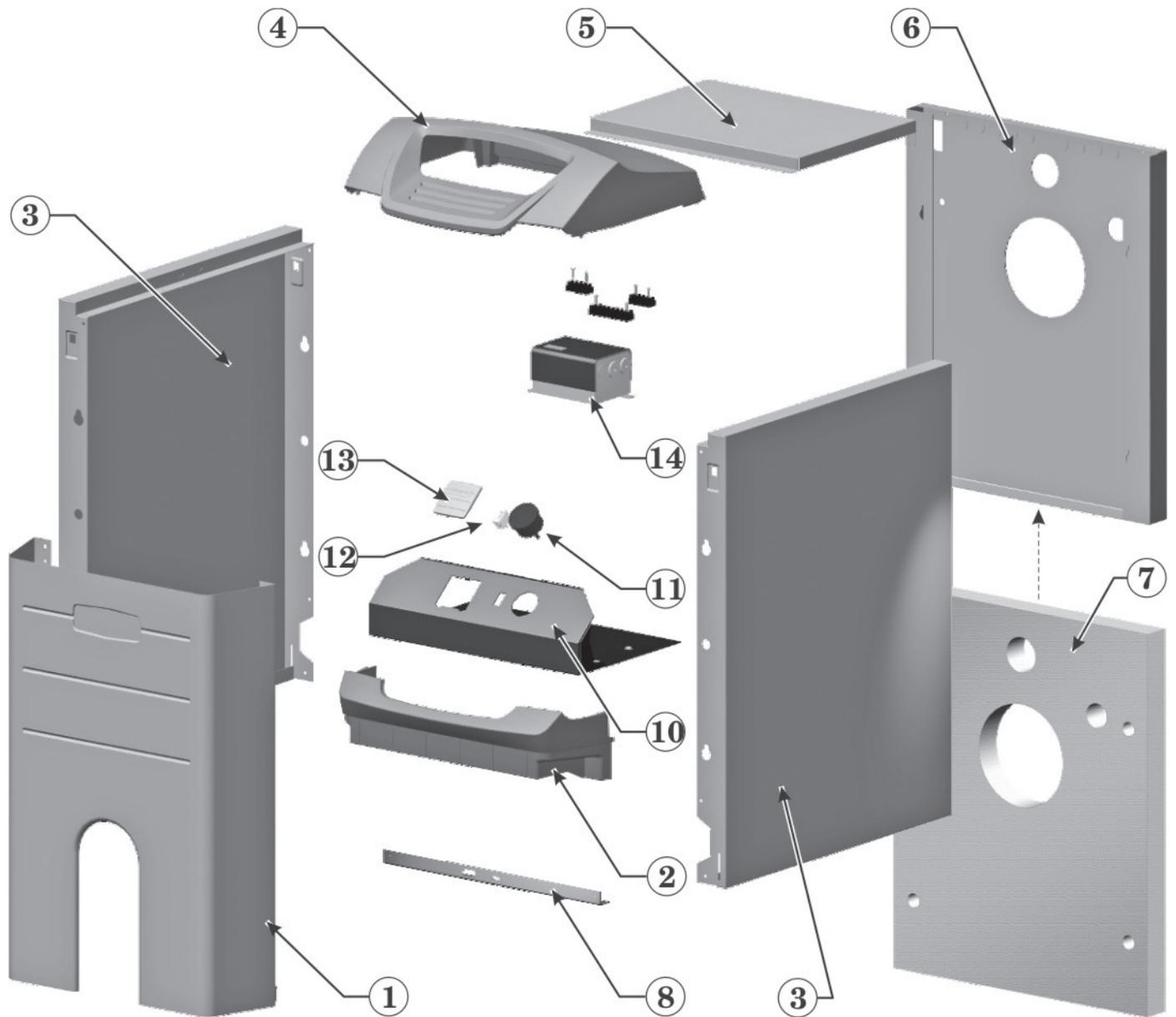
## Appendix — Replacement parts *(continued)*

### Jacket and control parts

| Item | Description   | Part Number   |
|------|---|---|
| 1    | Jacket front panel assembly (includes sheet metal, plastic, striker)  | 386-902-005   |
| 2    | Jacket front panel plastic  | 595-000-009   |
| 3    | Jacket side panel (left and right sides are the same)   | UO-3<br>426-900-002<br>UO-4<br>426-900-003<br>UO-5<br>426-900-004 |
| 4    | Control Pod cover   | 595-000-011   |
| 5    | Jacket top panel  | UO-3<br>426-900-005<br>UO-4<br>426-900-006<br>UO-5<br>426-900-007 |
| 6    | Jacket rear panel (if required order insulation below)  | 426-900-001   |
| 7    | Jacket rear panel insulation  | 591-222-181   |
| 8    | Jacket crosstie   | 426-900-008   |
| 9    | Boiler insulation (Not shown)   | UO-3<br>591-222-178<br>UO-4<br>591-222-179<br>UO-5<br>591-222-180 |
| 10   | Control tray assembly (includes tray, limit control, terminal strips, P/T gauge, ON/OFF switch, wiring, labels) | 386-902-008   |
| 11   | Pressure/Temperature gauge  | 510-218-052   |
| 12   | ON/OFF switch   | 511-624-645   |
| 13   | Weil-McLain logo plate  | 550-404-306   |
| 14   | High limit control, Honeywell L7248C-1030   | 386-902-006   |
| 15   | Wire harness (Not shown)  | 386-902-011   |
| 16   | Barometric draft control (Not shown)  | 510-512-270   |
| 17   | Limit control sensor (Not shown)  | 511-724-291   |

## Appendix — Replacement parts *(continued)*

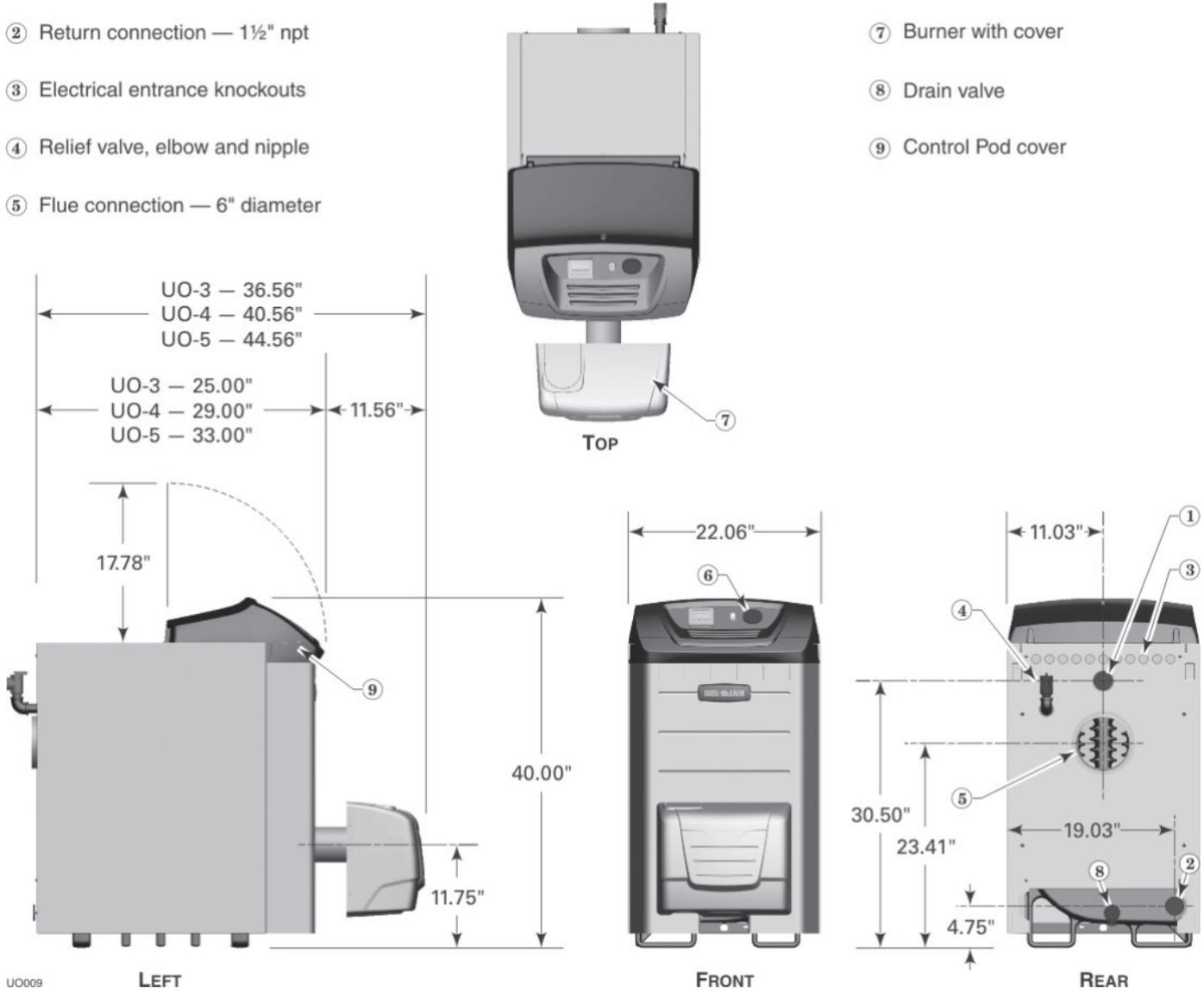
### Jacket and control parts



# Appendix — Dimensions

- ① Supply connection — 1½" npt
- ② Return connection — 1½" npt
- ③ Electrical entrance knockouts
- ④ Relief valve, elbow and nipple
- ⑤ Flue connection — 6" diameter
- ⑥ Pressure/temperature gauge
- ⑦ Burner with cover
- ⑧ Drain valve
- ⑨ Control Pod cover

ALL DIMENSIONS IN INCHES



- Notes**
1. Boiler circulator is shipped loose. Circulator may be mounted on either boiler supply or return piping.
  2. Relief valve is shipped loose, supplied with elbow and nipple to install in rear section tapping.

## Appendix — Ratings



DOE



| Boiler Model Number     | I=B=R Burner Capacity | DOE Heating Capacity | CSA Input         | CSA Output    | Net I=B=R Ratings | Boiler Water Content | Shipping Weight, Approx. | DOE Seasonal Efficiency | Flue Conn. Size | Draft Loss Through Boiler |
|-------------------------|-----------------------|----------------------|-------------------|---------------|-------------------|----------------------|--------------------------|-------------------------|-----------------|---------------------------|
|                         | GPH #2 Oil            | MBH                  | MBH               | Btuh          | MBH               | Gallons              | Pounds                   | AFUE, %                 |                 | Inches w.c.               |
| <i>Notes:</i>           |                       | <i>Notes 1, 6</i>    | <i>Notes 2, 6</i> | <i>Note 2</i> | <i>Notes 3, 6</i> |                      |                          |                         | <i>Note 4</i>   | <i>Note 5</i>             |
| <b>UO-3<br/>0.8 GPH</b> | 0.80                  | 98                   | 112               | 98            | 85                | 15.0                 | 636                      | 86.5                    | 6"              | 0.000                     |
| <b>UO-3<br/>1.0 GPH</b> | 1.00                  | 122                  | 140               | 122           | 106               | 15.0                 | 636                      | 86.5                    | 6"              | 0.020                     |
| <b>UO-4</b>             | 1.20                  | 146                  | 168               | 146           | 127               | 18.3                 | 737                      | 86.2                    | 6"              | 0.025                     |
| <b>UO-5</b>             | 1.40                  | 172                  | 196               | 172           | 150               | 21.5                 | 852                      | 86.5                    | 6"              | 0.040                     |

- (1) Based on standard test procedures prescribed by the United States Department of Energy at combustion condition of 13.0% CO<sub>2</sub> and -0.02" w.c. breeching draft.
- (2) Ratings shown are for sea level applications only. For altitudes above 2,000 feet, derate the product capacity by 4% per 1,000 feet above sea level.
- (3) Net I=B=R ratings are based on net installed radiation of sufficient quantity for the requirements of the building and nothing need be added for normal piping and pick-up. Water ratings are based on a piping and pick-up allowance of 1.15. An additional allowance should be made for unusual piping and pick-up loads. Consult local Weil-McLain Sales Office.
- (4) See page 11 for minimum breeching and chimney sizing.
- (5) Boiler draft losses are based on operation at 11.5% CO<sub>2</sub>. Set breeching draft at -0.02 inch water column.
- (6) MBH refers to thousands of Btu per hour.



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