

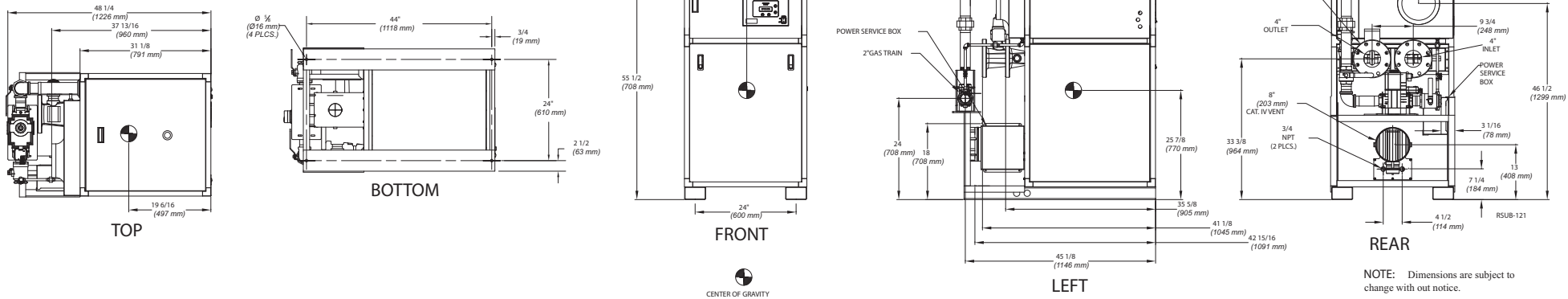
NOTE: Dimensions are approximate and should not be used to "rough-in" equipment.

* Add circulator amps.

**For incoming gas pressures lower than 3.5" W.C. natural, consult factory.

The Concord -150 Cosburn Ave E
HPG Sales

Weinstein, Taylor and Associates Inc
Champ Engineering
August 6th 2015



A.G.A. CERTIFIED RATINGS & CAPACITIES

| | | | |
|--------------------------------|--------------------|-----------------------------------|----------------------|
| Fuel Type | Natural Gas | Boiler FLA | 17* |
| Input BTU/hr. | 2,500,000 / 733 kW | Min. Gas Pressure Required | 3.5" W.C.** |
| Output BTU/hr. | 2,175,000 / 637 kW | Max. Gas Pressure Allowed | 14" W.C. |
| Electrical Requirements | 230V/ 1ph/ 60 hz | Operating Weight | 1340 lbs. / 608 kgs. |

TEMPERATURE RISE / PRESSURE DROP

| 20° F / 11.1° C | | 25° F / 13.9° C | | 30° F / 16.7° C | | 35° F / 19.4° C | | | | | | | | | |
|-----------------|---------------|-----------------|---------------|-----------------|---------------|-----------------|---------------|-------|-----|------|-----|-------|-----|------|-----|
| 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 | | | | |
| 217.4 | 13.7 | 10.05 | 29.6 | 173.9 | 10.9 | 6.45 | 19 | 144.9 | 9.1 | 2.47 | 7.3 | 124.2 | 7.8 | 1.98 | 5.8 |

BOILER TRIM & CONTROLS

| | | | |
|-----------------------------|----------------------------|----------------------------------|---------------------------|
| Main Gas Valve Body | Dungs MBC 2500 | High Limit (Manual Reset) | Jumo |
| Firing Valve | Honeywell B200T1066 1-1/2" | High Limit (Auto Reset) | Jumo |
| Main Ball Valve | 1-1/2" | Blocked Flue Switch | HUBA |
| Manual Pilot Valve | 1/4" Honeywell B528 | Air Switch | HUBA |
| Solenoid Valve w/Reg | CV100 | Blower Motor | American Fan 3 HP - FLA 8 |
| Ignition Control | Honeywell RM7800 | Relief Valve - MB | 1" x 1-1/4" set @ 50 psi |
| Operating Control | HeatNet™ | Relief Valve - MW | 3/4" x 3/4" set @ 125 psi |
| | | Flow Switch | ITT FS251 |

RECOVERY CAPACITY

| | | | | | | | | | | | |
|-------|--------|-------|--------|-------|--------|-------|-------|-------|-------|-------|-------|
| 40°F | 22° C | 60°F | 33° C | 80°F | 44° C | 100°F | 56° C | 120°F | 67° C | 140°F | 78° C |
| 6,528 | 24,711 | 4,352 | 16,473 | 3,264 | 12,355 | 2,611 | 9,884 | 2,176 | 8,237 | 1,865 | 7,060 |

A.S.M.E.

| | | | |
|---------------------------------|------------------------------|--------------------|------------------------|
| ASME Sect IV Htg Surface | 267.5 Sq. Ft. / 24.85 Sq. M. | Design Data | Max. 160 psig & 250° F |
| Water Volume | 12.1 gal / 45.8 l (liters) | | |

| | | |
|---------------------|-------|---|
| REP FIRM | _____ | <h1 style="margin: 0;">FUTERA III 2500</h1> <p style="margin: 0;">Category II or Category IV Appliance (see Installation and Operation Manual for venting information)</p> |
| SUBMITTED BY | _____ | |
| JOB NAME | _____ | |
| ARCHITECT | _____ | |
| ENGINEER | _____ | |
| CONTRACTOR | _____ | <p style="margin: 0;">® A Division of Mestek, Inc. Westfield, MA 01085 (413) 568-9571</p> |
| DATE | _____ | |