| Job: | Raytl | nerm®- Type WH |
|---|---|--|
| Engineer: Contractor: Prepared By: | | Water Heaters Commercial |
| Model:Indoor/Out | | Models 181-401 Low NOx |
| LOW NOx Less than 40 nanograms per joule EFFICIENT 82% thermal efficiency – highest of water heater available today THERMAL SHOCK PROOF Twenty-year warranty against their up to 150°F differential Maximum operating temperature: LIGHTWEIGHT A floor load of 70 lbs./sq. ft. or less HIGH RECOVERY Cuts fuel costs substantially becar adiation losses associated with of heaters are eliminated LOW WATER OPERATING TEMPERATION OF Without condensing | of any atmospheric rmal shock damage 210°F s use the standby and other tank-type water | Indoor Model Illustrated |
| Heat Exchanger ASME Inspected and Stamped 160 PSIG National Board Approved Headers Glass-lined Cast Iron − Option A-2 Finned Tubing Copper − Standard Cupro Nickel − Option A-3 ASME Steel Tube Sheet Silicone O-Rings 125 PSIG ASME Pressure Relief Valve Temperature and Pressure Gauge, Shipped Loose Water Connections Left Hand − Standard Right Hand − Option A-6 Two-pass Flow Configuration Pump − Optional Mounted, 1/8 HP, 120 VAC, 1∅, 60 Hz Controls 120V, 60Hz, 1 Ph Power Supply 120V/24V Transformer | Controls (cont'd) High Limit Control, Manual Reset − 200°F On/Off Switch Flow Switch Economaster II Pump Time Delay Gas Control Train Natural Gas Manual Main Gas Shut-off Cock Main Gas Pressure Regulator Redundant Safety Shut-off Valve Control Valve Firing Mode On/Off (WH1) 2-stage Firing (WH3) Design Certified ANSI Z21.10.3/ CSA 4.3 Construction Front Controls Stainless Steel, Fan-assisted Burners PolyTuf Powder Coat Finish Vent Selection Indoor Drafthood – Option D-10 Outdoor Stackless Top – | Temperature Controls B-2 Single-Stage Tankstat (100-180°F) B-3 2-Stage Tankstat (100-180°F) Y-241 Electronic Sequencer, 1-4 Stages Y-281 Electronic Sequencer, 1-8 Stages Additional Safety Controls F-9 Low Water Cut-off Probe I-3 High Limit Control, Auto Reset, 180°F S-1 Low Gas Pressure Switch, Manual S-2 High Gas Pressure Switch, Manual |

Option D-11

☐ Combustible Floor Shield –

Base - Optional

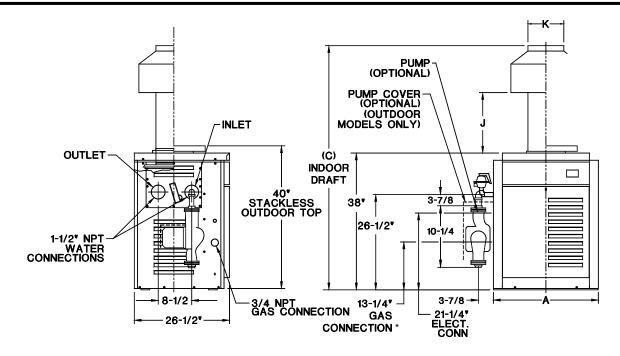
Option J-1



Catalog No.: 3500.204D Effective: 1-15-08 Replaces: 4-1-05

100% Pilot Shut-off/Lockout Electronic, Intermittent Ignition (IID)

Pilot



Low NOx

| | | | | Dimension | Shipping Weight | | | |
|---------|-------|--------|--------|-----------|-----------------|-----------|------------------|---------|
| Model | MBTUH | MBTUH | Width | Height | | Flue Dia. | (Lbs.) – Approx. | |
| No. | Input | Output | Α | С | J | K | No Pump | w/ Pump |
| WH-181* | 181 | 148 | 18-1/4 | 62-5/8 | 12-1/16 | 6 | 191 | 221 |
| WH-261 | 264 | 216 | 22-3/8 | 62-7/8 | 11-1/8 | 7 | 214 | 244 |
| WH-331 | 334 | 274 | 25-3/4 | 63-3/4 | 10-3/4 | 8 | 234 | 264 |
| WH-401* | 399 | 327 | 29-1/4 | 65-3/8 | 12-1/2 | 9 | 253 | 283 |

- * Exceptions on WH3 (2-stage-fired) models:
 - Model WH3-181 has an 18-1/4" gas connection
 - Model WH3-401 has 375 MBTUH Input and 308 MBTUH Output

HEATER RATES OF FLOW AND PRESSURE DROPS

| Model 10° ΔT | | ΔΤ | 20° ΔΤ | | 30° ΔT | | 40°ΔT | |
|--------------|-----|---------|--------|---------|--------|---------|-------|---------|
| No. | GPM | ΔP (ft) | GPM | ΔP (ft) | GPM | ΔP (ft) | GPM | ΔP (ft) |
| WH-181 | 30 | 4.2 | N/A | N/A | N/A | N/A | N/A | N/A |
| WH-261 | 43 | 8.5 | 22 | 2.2 | N/A | N/A | N/A | N/A |
| WH-331 | N/A | N/A | 27 | 3.4 | N/A | N/A | N/A | N/A |
| WH-401 | N/A | N/A | 33 | 5.2 | 22 | 2.3 | N/A | N/A |

N/A - Not Applicable

HEATER RECOVERY RATES

| Model | Temperature Rise | | | | | | | |
|--------|------------------|------|------|------|------|------|------|-------|
| No. | 10°F | 20°F | 30°F | 40°F | 50°F | 60°F | 80°F | 100°F |
| 140. | Gallons Per Hour | | | | | | | |
| WH-181 | 1794 | 897 | 598 | 448 | 359 | 299 | 224 | 179 |
| WH-261 | 2618 | 1309 | 873 | 655 | 524 | 436 | 327 | 262 |
| WH-331 | 3321 | 1661 | 1107 | 830 | 664 | 554 | 415 | 332 |
| WH-401 | 3964 | 1982 | 1321 | 991 | 793 | 661 | 495 | 396 |

NOTE: Ratings shown are for elevations up to 5,000 feet for indoor or outdoor installations. For elevations over 5,000 feet, contact manufacturer.

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