

HeatStation™

CONDENSING HYDRONIC HEAT ENGINE

1,000,000 to 2,000,000 BTU

STANDARD FEATURES AND EQUIPMENT

PERFORMANCE

- > 99% efficiency at low fire with low return temp
- 96% to 97% thermal efficiency per DOE test requirements
- Low NOx emissions - SCAQMD compliant ≤ 20 ppm
- Ducts direct combustion air up to 230 equivalent feet through 6-inch diameter material
- Direct vents up to 230 equivalent feet through 6-inch diameter vent

PPRESSURE VESSEL AND HEAT EXCHANGER

- 316L stainless steel heat exchanger and pressure vessel
- ASME "H" stamped and National Board Registered for 160 psi MAWP
- 3" ANSI flanges on supply and return connections (150#)
- Boiler water pressure gauge on outlet connection
- ASME-rated safety relief valve (150 psi)
- Blowdown valve
- Insulated jacket
- Steel jacket with powder-coat finish

WARRANTY AND SERVICE POLICY

- 5-Year pressure vessel workmanship, materials, thermal shock and condensate corrosion warranty (34-2E)①
- 10-Year pressure vessel thermal shock warranty (34-2E)①
- "Service Advantage Plan" covering parts, materials, freight and labor on any repair or replacement for the first year of operation (34-27)①

CODES AND STANDARDS

- Intertek / ETL listed to US and Canadian safety standards
- Intertek / ETL listed for use with PVC, CPVC, Polypropylene or Stainless Steel vent
- CSD-1 compliant, FM compliant
- ASHRAE 90.1 compliant
- DOE Compliance Certification database (AHRI alternate)

BURNER, COMBUSTION CONTROLS AND OPERATING CONTROLS

- Pre-mix surface burner with zero-governor gas regulator and proportionate gas/air mixture
- Full modulation
- Electronic operating system with integrated ignition and operating controls
 - Programmable electronic operator with digital temperature readouts, adjustable from 70°F to 190°F
 - Plain text boiler status and fault indication with fault history
 - Alarm with remote contacts
 - Visual modulation rate
 - Manual-reset temperature limiting device
 - BACnet MSTP protocol embedded
 - RS 485 serial port for connection to BAS
 - Master/member boiler operation through daisy-chain connection with lead boiler rotation
 - Pre- and post-purge
 - Manual-reset, electronic low-water cutoff with test switch
- High and low gas pressure switches
- Louver or power venter relay and proving contacts
- Water flow proving switch
- Remote on-off terminals

MISCELLANEOUS

- Factory authorized startup
- Condensate "P" trap (provided for field installation)

OPTIONAL FEATURES AND EQUIPMENT

- Extended "Service Advantage Plan" covers freight and labor on a vessel replacement for 5 years (form 34-28)①
- L.P. gas operation (*consult factory*)
- Condensate neutralization system (field installed)
- Inlet combustion air filter (field installed)

ELECTRONIC OPERATING CONTROL OPTIONS - Select

- Protocol gateway (*consult factory*)
- LonWorks
- BACnet IP

① See complete warranty and/or service policy for details

Riverside Hydronics reserves the right to change the design and specification without notice.

