Technical Data Sheet

ReCon 1000 Water Heater

The AERCO ReCon Water Heater has been specifically developed as a KC1000 water heater replacement. Its footprint and size/layout for gas/water piping and ductwork will significantly reduce KC1000 replacement installation time. The ReCon utilizes state-of-the-art technology to easily meet highly diverse, demanding commercial and industrial hot water requirements in a compact and reliable condensing design. The durable high efficiency helical firetube heat exchanger is time tested to be impervious to thermal stress for an extended life. The all stainless steel construction maximizes longevity in the condensing application and the corrugated tubes increase effective heat transfer surface area for optimal thermal efficiencies up to 99%. Enhanced waterside flow distribution maintains constant minimum velocities across the heat exchanger; this keeps solids in suspension and greatly reduces scale dropout to maintain high efficiency performance and long life.

The advanced control system of the ReCon incorporates dynamic feed-forward sensing for precise modulation of its turndown air/fuel delivery system. These controls fire the unit to accurately match load requirements and produce tight hot water outlet temperature control. Wasteful overshooting and cycling are virtually eliminated as is the need for storage tanks, mixing valves and other temperature averaging components in most applications. The set point is adjustable from 50ºF to 190ºF and control to +/- 4ºF is easily achieved. Sidewall, through–the–roof, and sealed combustion capabilities provide broad installation flexibility.

The small footprint, doorway size, and quiet operation make it ideal for retrofit. In addition to the above-added features over KC1000 system, the ReCon unit also incorporates the feedback received from service technicians and end users to provide a desired replacement unit. With its tight temperature control, high efficiency, reliability and longevity the AERCO ReCon is truly unique and advanced design.

HLW

GAS-FIRED
LISTED

CLASSIFIED
LOW LEAD
COMPLIANT
ANSI/NSF 372

Features

- Drop-in KC-1000 Replacement
- Precise Temperature Control +/- 4ºF
- Fully Modulating
- Condensing Design
- Stainless Steel Heat Exchanger
- Compact, Space Efficient Design
- Natural Gas
- Outlet Water Temperature of 50º to 190ºF
- UL, CUL Listed for Closet Installation on Combustible Flooring

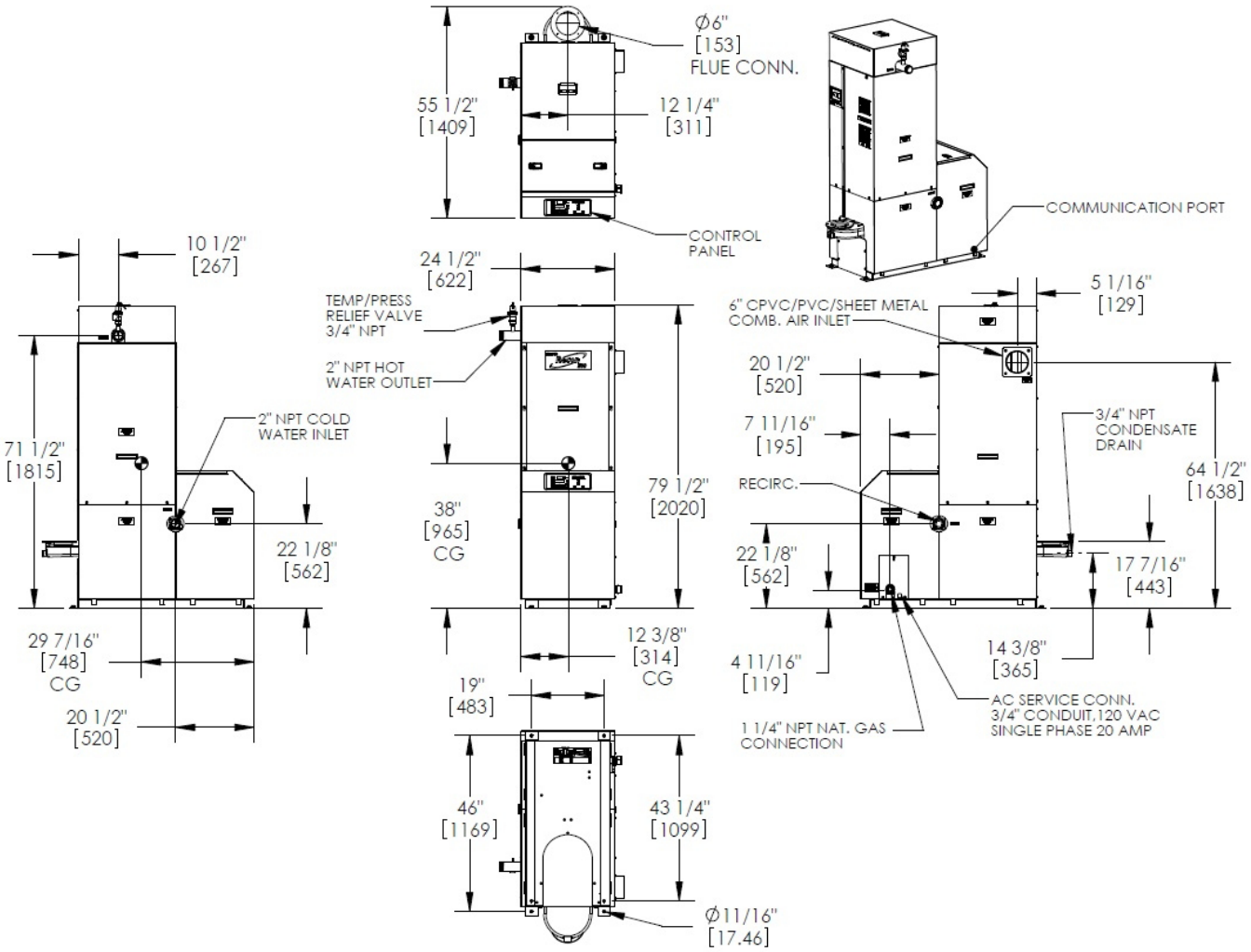
Recovery Capacity*

Temperature Rise (°F)	60°	70°	80°	90°	100°	110°	120°	130°	140°
Gallons Per Minute	32.1	27.5	24.1	21.4	19.3	17.5	16.1	14.8	13.8
Gallons Per Hour	1926	1651	1445	1284	1156	1051	963	889	825

*In condensing mode <2000 ft. above sea level

Dimensions

(Inches)



Specifications

Adjustable Temperature Control	50°F to 190°F
Ambient Temperature	0°F to 130°F
Accuracy	+/-4°F
Input	1,000,000 BTUH
Net Output	965,000 BTUH
Turndown Ratio	10:1
Flue and Air Intake	6" Diameter
Flue Material (per local code)	PP or AL29-4C
Water Inlet & Outlet	2" NPT Male
Gas Connection- Natural Gas	1.25" NPT Male
Gas Pressure Requirements- Nat. Gas	4" WC minimum @ full load to 14" WC @ static load
Maximum Continuous Water Flow	50 GPM
Condensate Connection	3/4" NPT Female
Maximum Condensate Flow	8 GPH
Pressure Rating	160 PSIG @ 210°F
NOx Emissions Certifications	SCAQMD
Standard Listing & Approvals	UL, CUL, ASME (HLW)
Gas Train Options	FM Compliant or Factory Installed, Future - Double Block and Bleed
Electrical Requirements	120/1/60 20 AMP (9 Amp FLA)
Water Pressure Drop @ 15 gpm	~0 psi
Water Pressure Drop @ 30 gpm	0.25 psi
Water Volume	27 gal
Weight, Dry (estimate)	922 lbs.
Weight Shipping (estimate)	1150lbs.

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