

CITY OF NEW YORK
DEPARTMENT OF BUILDINGS

Pursuant to Administrative Code Section 27-131, the following equipment or material has been found acceptable for use in accordance with the Report of Materials and Equipment Acceptance (MEA) Division.

Patricia J. Lancaster, A.I.A., Commissioner
MEA 140-03-E

Report of Material and Equipment Acceptance Division

Manufacturer – Energy Kinetics, Inc., 51 Molasses Hill Road, Lebanon, New Jersey 08833.

Trade Name(s) – Energy Kinetics.

Product – Gas-oil fired low pressure hot water boiler assemblies.

Pertinent Code Section(s) -27-800, 27-824, 27-886, RS 14-2 (ANSI Z223.1).

Prescribed Test(s) - RS 14-6 (ANSI Z21.13, UL 726).

Laboratory – Underwriters Laboratories.

Test Reports – UL File No. MH27877 dated June 30, 2003.

Description – Gas-oil fired low pressure hot water boilers assembly, System 2000 Boiler Models EK-1 Frontier and EK-2 Frontier. These are hot water boilers intended for residential or light commercial use. They are low pressure hot water (i.e., 30 psig, 230°F) boilers designed for operation firing natural gas, ASTM D396 No. 2 or lighter fuel oil, depending on the listed burner provided. Each boiler is constructed, equipped, inspected, tested, and marked in accordance with the ASME Boiler Construction Code.

Sizes and Styles:

All boilers are equipped with a listed power gas burner or listed power oil burner and arranged for on-off operation. The boiler may be installed with the applicant's sidewall combustion air intake system which may be either installed or shipped with the boiler for field installation. The boiler may be installed with the applicant's sidewall direct vent kit consisting of an induced draft fan and a concentric combustion air intake/flue gas vent assembly.

All sizes of boilers are identical in design and location of components and only vary in physical size unless other indicated herein.

Boiler Model	Heating Surface sq. ft.	Gas Burner Model ¹	Firing Rate Btu/hr	Oil Burner Model	Firing Rate gph	Induced Draft Fan Motor Model
EK-1	15	EZ-Gas	120,000	99FRD ² AFG ³	0.68	7021-9770
EK-1	15	EZ-Gas	150,000	99FRD ²	1.00	7021-9770
EK-2	24	EZ-Gas	200,000	99FRD ²	1.20	7021-10734
EK-2	24	EZ-Gas	225,000	99FRD ²	1.60	7021-10734
EK-2	24	EZ-Gas	250,000	N/A	N/A	7021-10734

- Notes:
- ¹ Indicates listed gas burner by Carlin Combustion Technology Inc.
 - ² Indicates listed oil burner by Carlin Combustion Technology Inc.
 - ³ Indicates listed oil burner by R.W. Beckett Corp.

Installation:

The appliance is intended for indoor installation only, and may be installed in an alcove or closet. Minimum clearances to combustible materials: 15-1/2 in. top, 16 in. from top for service, 0 in. right and left sides, 4 in. back, 15-1/2 in from front, 20 in. from front for service, 9 in, from vent connector. May be installed at 3 in. clearance from vent connector for Type L vent (oil and gas) and Type B vent (gas only). May be installed on combustible flooring.

Recommendation - That the above boilers, constructed in accordance with the ASME Code and assembled with compatible MEA accepted burner with size and operating characteristics approved by the boiler manufacturer, be accepted for use when fired by No. 2 natural gas as indicated above when connected to compatible chimney or vent and Article 27-886 in accordance with Article 15 of New York City Building Code. This acceptance in no way includes the external piping, connections, and appurtenances thereto, which are required to fully conform with applicable provisions of law, but have been tested in conjunction with this application. Approval of all electrical equipment, apparatus, materials and devices shall be obtained from the of Electrical Control before installation. provisions of law, but have not been tested in conjunction with this application.

All shipments and deliveries of such equipment shall be provided with a label or tag, suitably placed, certifying that the equipment shipped or delivered is equivalent to those tested and accepted for use, as provided for in Section 27-131 of the Building Code.

Final Acceptance August 26/03
Examined By S Derkudam