



NYC Department of Buildings
280 Broadway, New York, NY 10007
Patricia Lancaster, FAIA, Commissioner
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Report of Materials and Equipment Acceptance Division

Pursuant to Administrative Code Section 27-131, the following equipment or material has been found acceptable for use subject to the terms and conditions contained herein.

MEA 93-04-E Vol.2

Manufacturer: Camus Hydronics Limited
6226 Netherhart Road
Mississauga, Ontario L5T 1B7
CANADA

Trade Name(s): DynaFlame

Product: Gas-fired 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), (ANSI Z21.10)

Laboratory: CSA International

Test Report(s): CSA Report: 132868 dated January 17, 2003
CSA Report: 1532492 dated November 29, 2004
CSA Report: 1693821 dated July 18, 2006
CSA Report: 1760284 dated July 26, 2006
CSA Report: 1841099 dated June 13, 2007

Description: Fan assist, gas fired, copper fin tube, low-pressure hot water boiler, designed for hydronic heating or domestic hot water applications, indoor or outdoor installation. When installed indoors the boiler is suitable for direct vent application and alternately may be vented as a category I appliance with suitable vent size. Appliances are comprised of an integrally finned circular copper tube heat exchanger assembly which completely surrounds the burner and thus forming the combustion chamber, a single main burner assembly consisting of a cylindrical burner tube bolted to a fan which premixes air and gas before it enters the burner, proved hot surface electronic ignition means comprising igniter, flame sensor, ignition module and one to one air/gas ratio controller with proof of closure switch. Appliances are provided with a manual reset outlet temperature limiting device and a pressure relief valve. Appliances for outdoor

installation are fitted with an outdoor kit, which includes vent cap and stack. All models are offered in three variations; non-condensing (85% efficiency, Near-condensing (88% efficiency) and condensing (95%). Units with model numbers and input heating rating are listed below:

Model # (non-condensing)	Model # (near-condensing)	Model # (Condensing)	Input Heating Rating (BTUH)
DFN(H,W)0500	DFN(H,W)0501	DFN(H,W)0502	500,000
DFN(H,W)0750	DFN(H,W)0751	DFN(H,W)0752	750,000
DFN(H,W)1100	DFN(H,W)1101	DFN(H,W)1102	1,100,000
DFN(H,W)1200	DFN(H,W)1201	DFN(H,W)1202	1,200,000
DFN(H,W)1500	DFN(H,W)1501	DFN(H,W)1502	1,500,000
DFN(H,W)1750	DFN(H,W)1751	DFN(H,W)1752	1,750,000
DFN(H,W)2000	DFN(H,W)2001	DFN(H,W)2002	2,000,000
DFN(H,W)2500	DFN(H,W)2501	DFN(H,W)2502	2,500,000
DFN(H,W)3000	DFN(H,W)3001	DFN(H,W)3002	3,000,000
DFN(H,W)3500	DFN(H,W)3501	DFN(H,W)3502	3,500,000
DFN(H,W)4000	DFN(H,W)4001	DFN(H,W)4002	4,000,000
DFN(H,W)4500	DFN(H,W)4501	DFN(H,W)4502	4,500,000
DFN(H,W)5000	DFN(H,W)5001	DFN(H,W)5002	5,000,000
DFN(H,W)4504	DFN(H,W)4514	DFN(H,W)4524	4,500,000
DFN(H,W)5004	DFN(H,W)5014	DFN(H,W)5024	5,000,000
DFN(H,W)6004	DFN(H,W)6014	DFN(H,W)6024	6,000,000

Note:

Venting Specifications:

- **Outdoor Installation:** With Venting: Kit # 14-0094 the DynaFlame is self venting.
- **Indoor Installation:** Standard Venting - The Non-Condensing DynaFlame is a category I appliances and can be vented into a common standard chimney. The Condensing DynaFlame is a Category II appliance and requires a special vent system and special condensate collection neutralizing and disposal. The Near-Condensing DynaFlame is a Category II appliance.
- **Sidewall Venting:** With Terminals 14-0043, 14-0044, 14-0090 or 14-0091, the DynaFlame can vent up to 100 equivalent feet. With Outdoor Air Kits # 14-0364/365 or 93-0298 the DynaFlame can draw outdoor air over an equivalent length of 100 feet. The Non-Condensing/ Condensing DynaFlame are Category I appliances and requires a special vent system and special condensate collection neutralizing and disposal. The Near-Condensing DynaFlame is a Category II or Category IV appliance.

DynaFlame Non-Condensing

Model	Vent Diameter Inches			
	Outdoor	Cat III Up to 50 ft	Cat III Up to 100 ft	Cat I
0500	4	4	6	8
0750	6	6	8	10
1100	6	6	8	10
1200	6	6	8	10
1500	7	7	10	12
1750	7	7	10	12
2000	8	8	12	14
2500	8	8	12	14
3000	8	8	12	14
3500	9	9	14	16
4000	9	9	14	16
*4500	10	10	14	16
4504	10	10	14	16
*5000	10	10	14	16
5004	10	10	14	16
6004	12	12	14	16

DynaFlame Near-Condensing (DFX)

Model	Vent Diameter Inches			
	Outdoor	Cat IV Up to 50 ft	Cat IV Up to 100 ft	Cat II
0501	4	4	6	5
0751	6	6	8	6
1101	6	6	8	7
1201	6	6	8	7
1501	7	7	10	8
1751	7	7	10	8
2001	8	8	12	9
2501	8	8	12	9
3001	8	8	12	10
3501	9	9	14	12
4001	9	9	14	12
*4501	10	10	14	12
4514	10	10	14	12
*5001	10	10	14	12
5014	10	10	14	12
6014	12	12	14	12

DynaFlame Condensing

Model	Vent Diameter Inches			
	Outdoor	Cat IV Up to 50 ft	Cat IV Up to 100 ft	Cat II
0502	4	4	6	5
0752	6	6	8	6
1102	6	6	8	7
1202	6	6	8	7
1502	7	7	10	8
1752	7	7	10	8
2002	8	8	12	9
2502	8	8	12	9
3002	8	8	12	10
3502	9	9	14	12
4002	9	9	14	12
*4502	10	10	14	12
4524	10	10	14	12
*5002	10	10	14	12
5024	10	10	14	12
6024	12	12	14	12

Terms and Conditions: The above-described gas fired, hot water boiler assemblies are accepted on condition that:

- 1) Boilers are to be constructed in accordance with the ASME Code, RS 14-4.
- 2) Units shall be installed on non-combustible flooring. Minimum clearance to combustible construction shall be as follows:

Top:	24 inches
Front:	48 inches
Sides:	12 inches
Rear:	12 inches

- 3) Units shall be fired with natural gas only.
- 4) Approved gas vent shall be in accordance with Subchapter 15 of the New York City Building Code, and Section 27-886.
- 5) This acceptance in no way includes the external piping, connection and appurtenances thereto, which are required to fully conform to applicable provisions of the law and have been tested in conjunction with this application.
- 6) Approval of all electrical equipment, apparatus, materials and devices shall be obtained from the Department's Electrical Advisory Board.
- 7) Units shall be used in compliance with the Energy Conservation Construction Code of New York State.
- 8) All shipments and deliveries of such equipment shall be provided with a metal tag, suitably placed, certifying that the equipment shipped or delivered is equivalent to that tested and accepted for use, as provided in Section 27-131 of New York City Building Code.

NOTE: In accordance with Section 27-131(d), all materials tested and accepted for use shall be subject to periodic retesting as determined by the Commissioner; and any material which upon retesting is found not to comply with Code requirements or the requirements set forth in the approval of the Commissioner shall cease to be acceptable for the use intended. During the period for such retesting, the Commissioner may require the use of such material to be restricted or discontinued if necessary to secure safety.

Final Acceptance December 28, 2007

Examined By S. M. Derbhedan