



# Report of Materials and Equipment Acceptance Division

NYC Department of Buildings  
280 Broadway, New York, NY 10007  
Patricia Lancaster, FAIA, Commissioner  
(212) 566-5000, TTY: (212) 566-4769

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 419-07-E

**Manufacturer:** BBT North America Corporation  
Bosch Group  
50 Wentworth Avenue  
Londonderry, NH 03053

**Trade Name(s):** Buderus

**Product:** Gas-fired hot water boiler assemblies  
Index #60 - Boilers

**Pertinent Code Section(s):** 27-800, 27-824, 27-826, 27-886, RS 14-2 (ANSI Z223.1)

**Prescribed Test(s):** RS 14-6 (ANSI Z21.13)

**Laboratory:** CSA International

**Test Report(s):** CSA Report 226198-1687186, dated August 12, 2005.

**Description:** Natural gas-fired condensing aluminum, hot water boiler assemblies, GB142 series, intended for residential or commercial use with a maximum water temperature and pressure of 200°F (93 °C) and 44 psi (303 kPa) respectively. The unit is comprised of heat exchanger assembly, ceramic main burner, an electronic ignition system. The pressure vessel must carry ASME "H" stamp. Units, with model numbers and input heating ratings, are listed below:

| Model    | Input (Btu/hr) |
|----------|----------------|
| GB142-24 | 84,800         |
| GB142-30 | 106,000        |
| GB142-45 | 160,900        |
| GB142-60 | 214,800        |

Venting Specifications:

| <b>Boiler Model No.</b> | <b>Restrictions</b>                                      |
|-------------------------|--|
| GB142 – all models      | Minimum Vent Length: 6 equivalent feet + vent terminal   |
| GB142 – 24, 30, 45      | Maximum Vent Length: 100 equivalent feet + vent terminal |
| GB142 – 60              | Maximum Vent Length: 60 equivalent feet + vent terminal  |
|                         | Wall Thickness: 1 inch minimum<br>16 inches maximum      |

Material Specifications:

Vent Pipe: 3 inch diameter, PVC schedule 40, PVC – DWV, CPVC schedule 40,  
ABS – DWV schedule 40

Air-intake Pipe: 3 inch diameter, PVC schedule 40, PVC – DWV, CPVC schedule 40,  
ABS – DWV schedule 40

**Direct Vent**

Terminals: 3" pvc 2 - 90° elbows separated by 1 foot of pvc pipe for vent  
1 - 90° elbow for air-intake

|                            |                            |                 |
|----------------------------|----------------------------|-----------------|
| Concentric Vent/Air-intake | Part No. BRYKGAVTOG01CV    | 3 inch diameter |
| Vent/Air-intake            | Part No. 383-500-397       | 3 inch diameter |
| Aluminum Vent/Air-intake   | Part No. PAZ 1900017 V1000 | 3 inch diameter |

Joint Sealant: PVC – cement and primer  
CPVC – cement and primer  
ABS – cement and primer

**Terms and Conditions:** The above-described gas-fired, hot water boilers are accepted under the following conditions:

1. Units shall be fired by natural gas only.
2. Boilers are to be constructed in accordance with the ASME Code, per RS 14-4.
3. Units must be installed on wall space.
4. Minimum installed clearances from combustible construction shall be as follows:  
Top – 4 inches; front – 12 inches; left side – 6 inches; right side – 4 inches;  
rear – 0 inches (wall mounted); bottom – 4 inches.
5. Units shall not be installed in any closed space with a volume of less than 100 cubic feet.
6. Approved gas vent shall be in accordance with Subchapter 15 of the New York City Building Code and Section 27-886.

7. 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, but have been tested in conjunction with this application.
8. Approval of all electrical equipment, apparatus, materials and devices shall be obtained from the Department's Electrical Advisory Board before installation.
9. Units shall be used in compliance with the Energy Conservation Construction Code of New York State.
10. 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 the 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 February 28, 2008

Examined By Simon Derkshin