

# Technical service bulletin

## Operating Procedures for SB615/735 Boilers with Dual Fuel Burners

**Buderus**  
Bosch Group

---

### Condensing operation

#### Mandatory operating requirements:

1. Fuel oil must be ULSD (Ultra Low Sulfur Diesel) rated at less than 50 PPM of sulfur.
2. Return water temperature should be less than 120 degrees.
3. Boiler must be fully inspected and cleaned prior to switching from oil back to gas.
4. Boiler must be cleaned and serviced twice annually.
5. Condensate Ph must be checked quarterly to maintain a 6.8 - 7.2.
6. Power Flame is the only approved burner vendor as of 10/1/2009.
7. Boiler must be ordered with approved dual fuel gasket kit.

---

### Non-Condensing operation

#### Mandatory operating requirements:

1. Suitable control system is required to maintain return water temperature above 125 degrees at all times.
2. Fuel oil must contain less than 900 PPM of sulfur.
3. Fuel oil operation is limited to 50 continuous hours per year.
4. Boiler must be fully inspected and cleaned prior to switching from oil back to gas.
5. Boiler must be cleaned and serviced twice annually.
6. Maximum lifetime run time is limited to 500 hours total [50 hours x 10 years].
7. Power Flame is the only approved burner vendor as of 10/1/2009.
8. Boiler must be ordered with approved dual fuel gasket kit.

---

### Venting the SB boilers when using dual fuel burners

#### Mandatory operating requirements:

1. Vent system: Security Chimney Systems (CIX Type 316L) only. The boiler requires a category IV stack. Venting installation must comply with UL-1738 or UL-103, the National Fuel Gas Code, ANSI Z233.1. Consult vent manufacturer for suitability and instructions.
2. Power Venter and / or induced draft venting is not allowed.
3. Side wall venting is not allowed.

---

### Fuel source testing on existing tanks

1. Fuel source must be tested to confirm the sulfur content of the fuel. A file copy must be forwarded to Buderus.

**Buderus**  
Bosch Group

Bosch Thermotechnology Corp.  
50 Wentworth Ave  
Londonderry, NH 03053  
Tel: (603) 552-1100  
Fax: (603) 584-1681  
www.buderus.us