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BOSCH THERMOTECHNOLOGY INTRODUCES A MULTI-ZONE CONTROL SYSTEM FOR TWO-WAY COMMUNICATION WITH BOSCH & BUDERUS RESIDENTIAL-LIGHT COMMERCIAL BOILERS

The Bosch New Systems Control (NSC) Package of Comfort Modules Enhances Home Comfort While Saving Energy

- ▶ NSC modules work with Bosch Greenstar and Buderus GB142 & 162 condensing boilers
- ▶ 3 zone control module can be expanded to 8 zones
- ▶ Uses indoor feedback/load compensation to increase efficiency & comfort
- ▶ Easy install with plug and play wiring terminals

Londonderry, NH – Bosch Thermotechnology has introduced a New Systems Control (NSC) package of intelligent modules designed to control single or multiple zone systems for increased indoor comfort and greater energy savings. The NSC tightly controls energy use through two-way communications with a range of high efficiency (95% AFUE) Bosch and Buderus condensing boiler offerings: Greenstar wall-mounted and floor-standing boilers, Buderus GB142 and GB162 boilers for larger homes and light commercial applications.

The Bosch NSC is similar to other multi-zone control systems for installation, wiring and set-up purposes using plug and play wiring terminals. However, it also comes with these unique features and functionality assets:

- Ability to have two-way communication from the Bosch or Buderus boiler to the NSC's Comfort Room Controller (CRC100) and Comfort Zone Manager (CZM100) modules.
- Indoor feedback/load compensation operations to increase efficiency and comfort

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- Load compensation that targets supply water temperature similar to outdoor reset functions. This allows the boiler to fire to a lower supply water temperature to satisfy demand, increasing energy savings while reducing complexity and OA Reset curve set up
- Need for only one zone module (CZM100) for either system zone valves and circulators

The Bosch NSC residential-light commercial zone control package consists of three modules:

Comfort Zone Manager (CZM100)

The CZM100 is a three-zone control that is expandable up to eight zones and can activate either circulators or zone valves. The CZM100 monitors changes in room temperature and adjusts the boiler's water temperature and firing rate to reduce energy use. It operates the heating system at the lowest possible input in order to reduce room temperature swings. No programming of the CZM100 is required.

Comfort Room Controller (CRC100)

The CRC100 is a simple, easy to operate thermostat with an integrated temperature sensor that can be used as a boiler control or in conjunction with the CZM100 for multi-zone room control. Providing the boiler with more than a simple on/off signal, the CRC100 provides an exact supply water temperature command. It comes preprogrammed with default settings for the most common application and is installed using a simple boiler integrated plug and play control.

Comfort Room Controller (CRC200)

An advanced version of the CRC100, the CRC200 adds a programmable time schedule, back lighting as well as push buttons for Menu, Auto Run, Hold Run and Back functions. It also offers additional capabilities and communication with the boiler such as display of the boiler temperature, target temperature and an optional outdoor temperature sensor. Its integrated temperature sensor can be used as a boiler control or, in conjunction with the CZM100, as a room controller. The CRC200 can also operate an indirect water heater in parallel with the clock program or continuously.

For more information on the Bosch NSC boiler zone control modules package, visit www.boschheatingandcooling.com.

Press image (*attached*)

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About Bosch:

About Bosch Thermotechnology

Bosch Thermotechnology is a leading source of high quality heating, cooling and hot water systems. The Company offers Bosch tankless, point-of-use and heat pump electric water heaters, Bosch and Buderus floor-standing and wall-hung boilers, Bosch and FHP geothermal systems as well as controls and accessories for every product line.

Bosch Thermotechnology is committed to reinventing energy efficiency by offering smart products that work together as integrated systems that enhance quality of life in an ultra-efficient and environmentally friendly manner. For more information, visit www.boschheatingandcooling.com

About the Bosch Group:

Having established a regional presence in 1906 in North America, the Bosch Group employs some 25,000 associates in more than 100 locations. In 2014, Bosch generated consolidated sales of \$11.3 billion in the U.S., Canada and Mexico, according to preliminary figures. For more information, visit www.boschusa.com, www.bosch.com.mx and www.bosch.ca.

The Bosch Group is a leading global supplier of technology and services. According to preliminary figures, its roughly 290,000 associates generated sales of 48.9 billion euros (\$65 billion) in 2014. Its operations are divided into four business sectors: Mobility Solutions, Industrial Technology, Consumer Goods, and Energy and Building Technology. The Bosch Group comprises Robert Bosch GmbH and its more than 360 subsidiaries and regional companies in some 50 countries. If its sales and service partners are included, then Bosch is represented in roughly 150 countries. This worldwide development, manufacturing, and sales network is the foundation for further growth. In 2014, Bosch applied for some 4,600 patents worldwide. The Bosch Group's strategic goal is to deliver innovations for connected life. Bosch improves quality of life worldwide with products and services that are innovative and spark enthusiasm. In short, Bosch creates technology that is "Invented for life."

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