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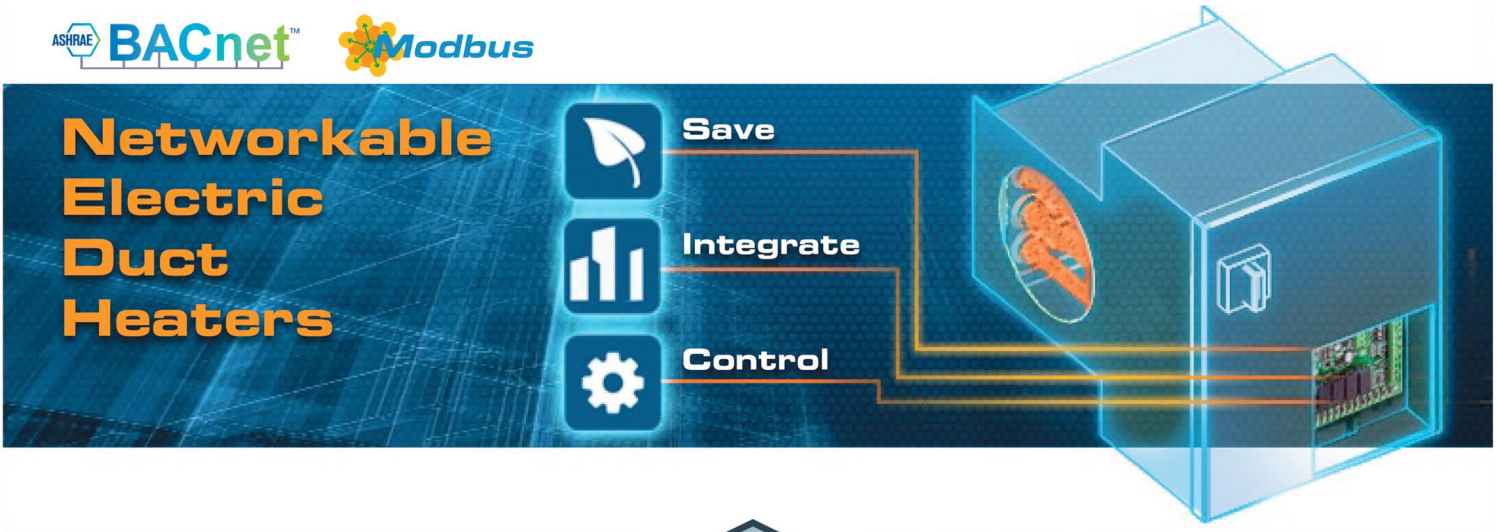
ELECTRIC DUCT HEATERS
NETWORKABLE



MCEE
MÉCANEX/CLIMATEX/EXPOELECTRIQ/ÉCLAIRAGE
New Products Competition Winner

AHR EXPO
INNOVATION AWARDS
HONORABLE MENTION
2015

bcia awards 2015

Neptronic is pleased to introduce the first BACnet/Modbus Electric Duct Heater. Designed with today's energy efficiency expectations, it enables you to view real-time power consumption, to perform automatic/dynamic load shedding, limit consumption based on multiple variables, create energy optimization strategies as well as monitor trends and alarms.

BMS Integration | BACnet & Modbus | Energy Management | Monitor Alarms | Monitor Alarms | Auto Load Shedding

Unique Benefits Features

- Integrate with BMS and intelligent buildings via BACnet MS/TP or Modbus
- Patented EAS Electronic Air Flow Sensors (US 7,012,223)
  No mechanical air flow switch required. Shuts off heater if air flow too low.
- Real-time feedback output signal of heater capacity
- Built-in Current Transducers (1 per phase)
  Provides power consumption data (KW in real-time)
- Calculate ΔT by using the provided supply and discharge temperature sensors
  This allows the possibility to read the air temperature before and after the heater elements from your BMS
- Optional wall-mount room thermostat with LCD (TRL24)
  Enables the user to remotely view the status of the heater and change the setpoint
- Built-in PID algorithm
  Maximizes the heater's efficiency when there is a sudden change of velocity or temperature within the system
- Remote monitoring (status, alarms, diagnostics, and trending)
- Multiple BACnet/Modbus points to propel you towards the Internet of Things
- Configurable BACnet scheduler

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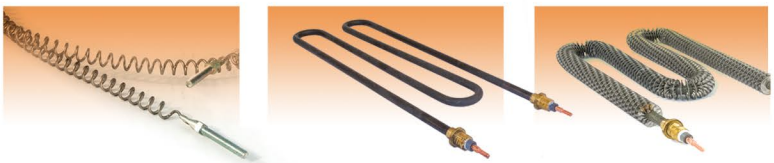
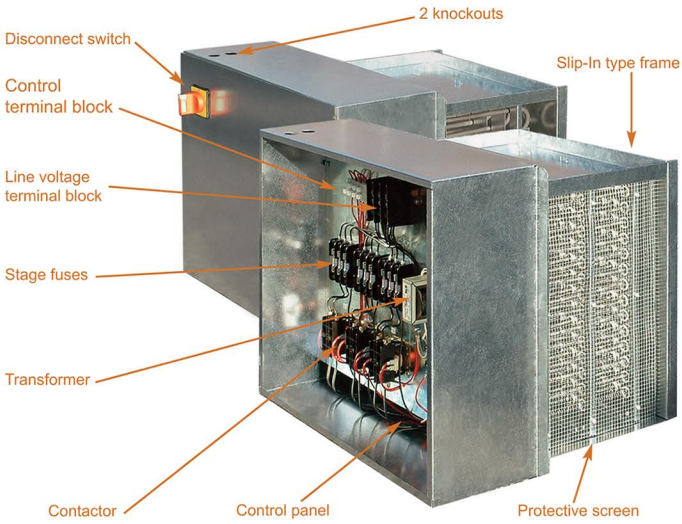
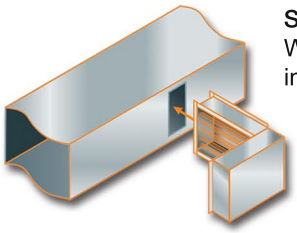
Overview

- Modulating, on/off and/or up to 10 stages
- Standard from 0.5 to 1000kW (larger loads available)
- Up to 40kW per sq.ft.
- Zero voltage crossing SSR
- Built-in intelligent controller
- Accepts any industry standard input signal
- Selectable enclosure type: NEMA Type 1 (IP10), NEMA Type 12 (IP52), NEMA Type 4 (IP56), or NEMA Type 4X (IP65)
- Selectable heating elements: open coil, tubular, finned tubular

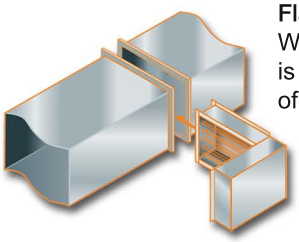




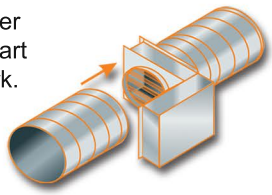
Installation Options



Slip-In
When entire frame is inserted into the duct



Flanged
When the heater is an integral part of the duct work.

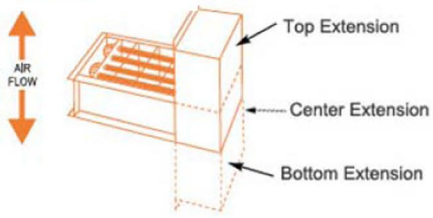


Round Collar
For round duct work of 6" to 24" (152mm to 609mm)

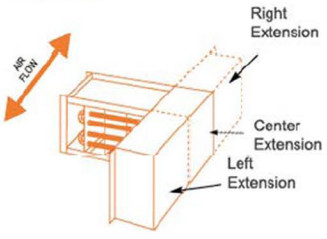
Mounting

- Designed for vertical or horizontal mounting
- No need to define air flow orientation
- Approved by UL, CSA and ETL for zero clearance for combustible material

Vertical



Horizontal



Heater Selection Software