Multi-Stage Boiler controls are ideal for commercial, industrial, and large scale residential applications.

The HBX CPU-1000 configured as a Staging Control addresses many commonly used boiler staging applications with the added benefits of DHW loads and 3 additional setpoint loads.

The CPU-1000 (Staging Control) will accommodate from 1-14 boiler stages (with Expansion Modules) and can be configured with Hi/Lo fire boiler installations. Automatic boiler rotation that allows for equal runtime based on actual running hours complete with fixed first and fixed last options.

### Staging Theory
Designing your hydronic heating system to function with multiple boiler stages by switching on/off multiple smaller capacity boilers will save money, energy, limit potential wear and tear and add a higher degree of comfort to your building.

Large heating loads supplied by one or two very large boilers typically don’t make sense when the heating plants full capacity may only be required for 5-15% of the entire year. A smaller boiler may keep up with the demand 50% of the time in many cases.

Staging controls allow you to take full advantage of the benefits derived from a series of smaller boilers/stages cycled on as the heating load dictates. Overshoot and undershooting of desired room temperature can be reduced, while saving money.

Multiple boilers provide an inherent backup in the event of a boiler failure. Quality staging controls also allow for automatic rotation of all boilers with various options to equalize runtime.

### Applications
- 2 Stage Boiler Control without Expansion Modules (14 with Expansion Modules)
- Onboard Pump Sequencing Option
- Flow Proof Option for Visual Warning/Status
- DHW Loads Supplied by a Pump or Valve
- Up to 3 Additional Setpoint Loads (Hi/Lo Temp)
- Outdoor Temperature System Reset
- Warm Weather Shut Down (WWSD)
- 3 Programmable Setback Periods
- HBX Computer Interface Software Compatible
- Onboard System/Boiler Graphing
- Adjustable Pump Post Purge Time

### Features

**The Staging Control:**

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