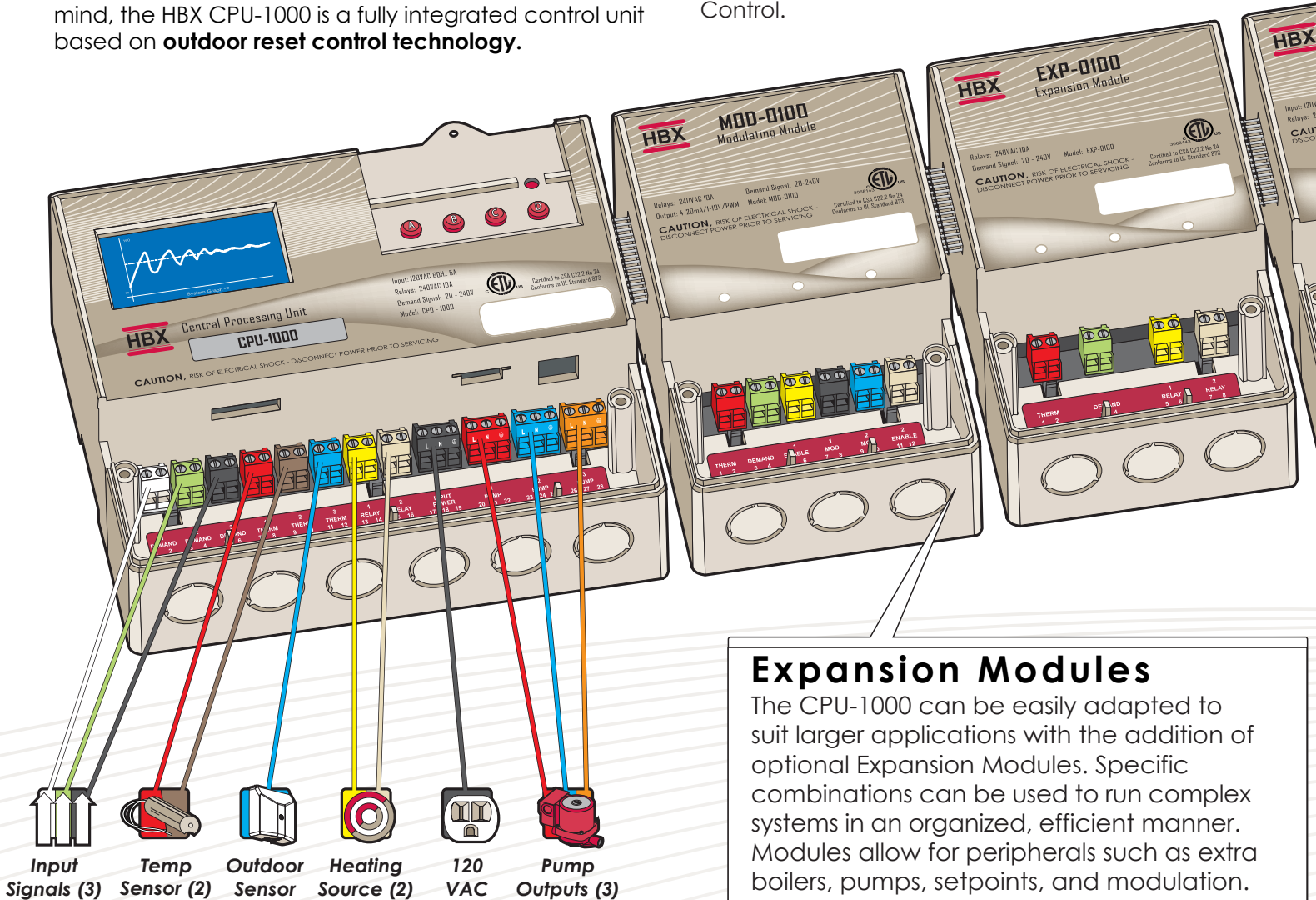# HBX

Control Systems Inc.

CPU-1000

CPU-1000 Control

With the use of HBX Controls, traditionally complex systems are simplified by the addition of modular components, uncomplicated wiring and plain text programming.

Intentionally built with both the installer and end-user in mind, the HBX CPU-1000 is a fully integrated control unit based on **outdoor reset control technology.**

HBX Controls use a PID algorithm that adapts to compensate for internal and external temperature fluctuations.

Technical know-how and real-world experience have been applied to the logical design, construction, and installation process of the Control.

Input Signals (3) **Temp Sensor (2)** **Outdoor Sensor** **Heating Source (2)** **120 VAC** **Pump Outputs (3)**

Expansion Modules

The CPU-1000 can be easily adapted to suit larger applications with the addition of optional Expansion Modules. Specific combinations can be used to run complex systems in an organized, efficient manner. Modules allow for peripherals such as extra boilers, pumps, setpoints, and modulation.

Contact Information

4516-112th Avenue SE
Calgary, Alberta T2C 2K2
CANADA

Phone: +1(403) 720 0029
Fax: +1 (403) 720 0054
Email: info@hbxcontrols.com

Comfort Control Innovation

HBX
Control Systems Inc.

CPU-1000

CPU-1000

The CPU-1000 can be programmed for any of the following applications:

- Boiler Staging Control
- Mixing Control
- Domestic Hot Water Control
- Dual System/ Dual Mixing

Features

- Supports up to 14 boiler stages (with the addition of Expansion Modules)
- Supports up to 5 Mod boilers (with the addition of Expansion Modules)
- Built in pump sequencer
- No cross wiring/colour coded & keyed terminals
- Warm weather shutdown (WWSD)
- Onboard setpoints
- Built in DHW capabilities
- Arc suppression for PMIv and PMIp injection
- Onboard graphing, real-time clock and min/max temperature capture
- Flow proofing and boiler post-purge

Staging Drawing

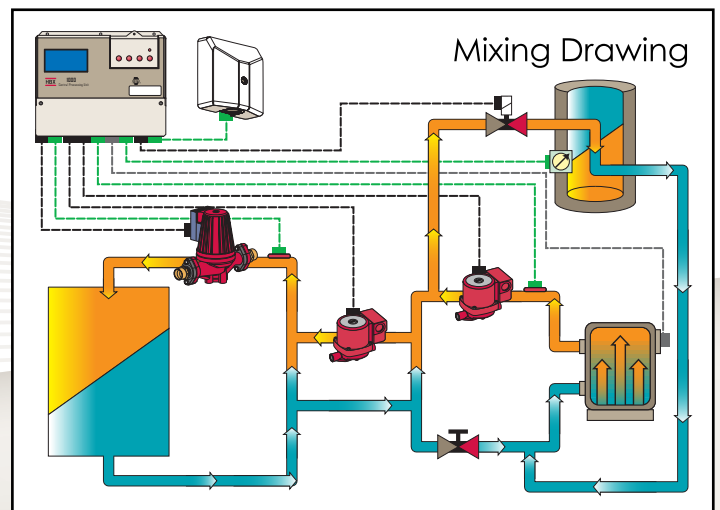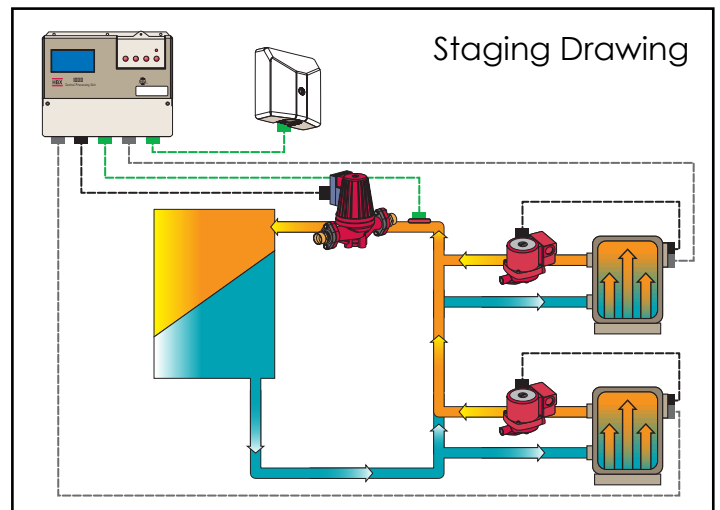## Specifications

Input power: 120VAC

Outdoor/boiler/system temp sensors

3x pump output relays: 120VAC 10A

2x auxiliary dry contacts: 240VAC 10A

Microprocessor: 16 Bit, 20MHz

Standard communications: RS-232

Mixing Drawing

Contact Information

4516-112th Avenue SE
Calgary, Alberta T2C 2K2
CANADA

Phone: +1(403) 720 0029
Fax: +1 (403) 720 0054
Email: info@hbxcontrols.com

Comfort
Control
Innovation