ECLIPSE PULSEPAK

PULSE FIRING CONTROL SYSTEMS

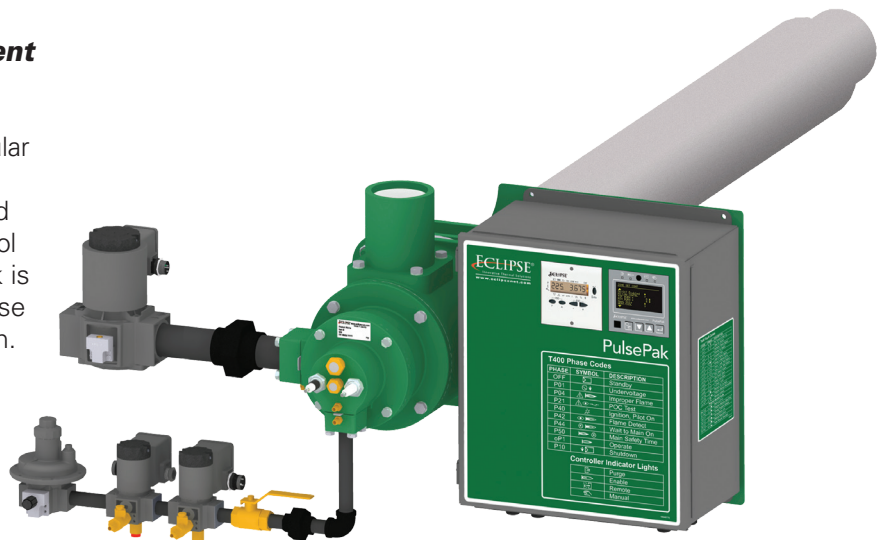### Integrated control solution offers simple, safe and efficient combustion control

The Eclipse PulsePak offers a modular and scalable approach to pulse-fire control applications. With integrated flame safeguard, temperature control and pulse sequencing, the PulsePak is the most complete and scalable pulse solution available for your application.

Comprehensive Features

Each temperature zone on your furnace or oven is controlled by its own PulsePak Zone Controller. Each zone controller provides independent, closed-loop, auto-tuned PID temperature control with integrated pulse-firing for up to eight (8) burners per zone. The unit is ready "out of the box" to interface to your furnace control.

Multiple PulsePak Zone Controllers can communicate to a furnace master PLC for an integrated solution.

The first burner in a zone is controlled by the zone controller and each additional burner in the zone is controlled by successive burner controllers. All burner controllers communicate back to their zone controller. The burner controller fires the burner per the pre-scribed pulse algorithm you select. Plus, it offers state-of-the-art flame safeguard protection with the Eclipse Trilogy T400 Flame Safeguard.
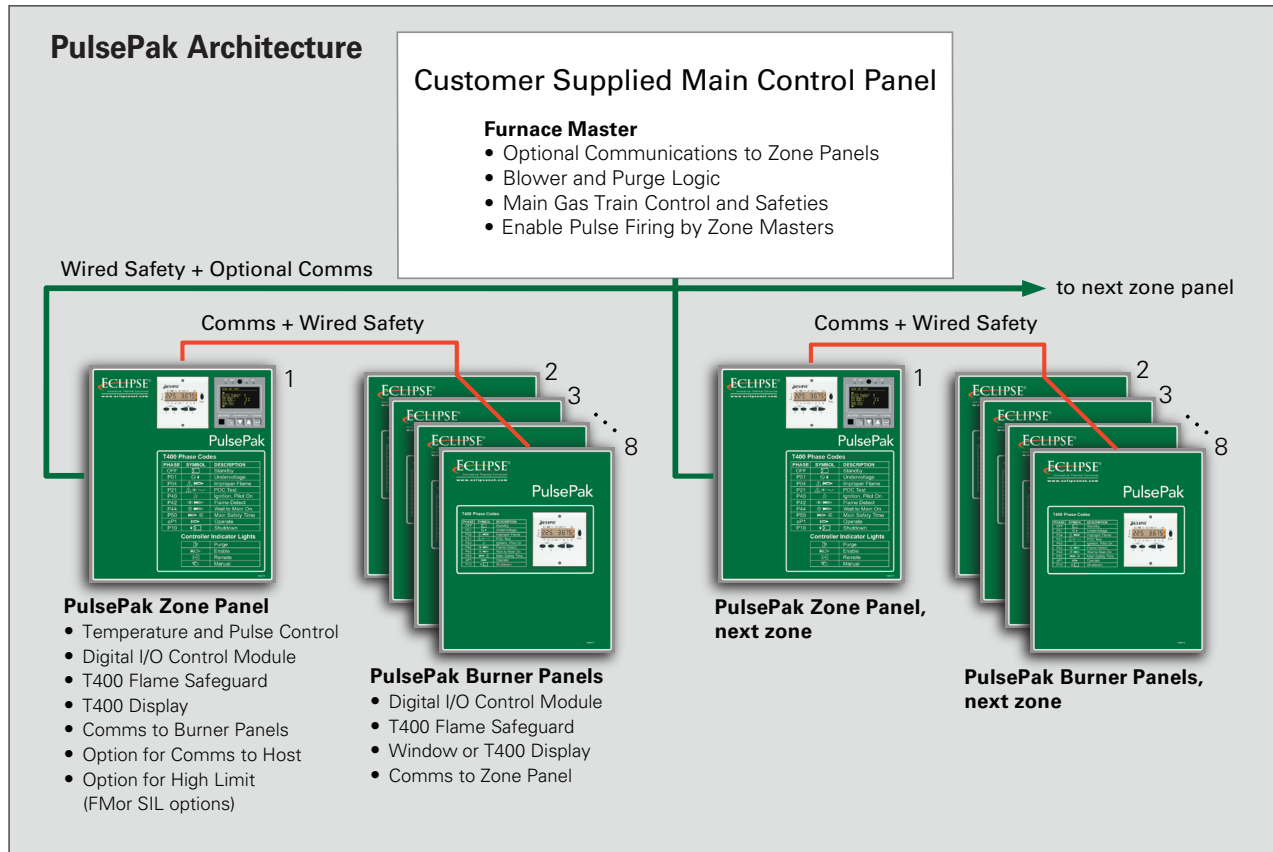
Patents Pending

Exceptional User Benefits

- Scalable system: Best fits your heating application, from a single furnace zone to a virtually unlimited number of zones.

- Economically scales from a single burner per zone to eight burners per zone.

- No additional PLC programming required to achieve pulse control.

- Integrated Flame Safety: Reduces your exposure and risk.

- Distributed Control: Dramatically reduces the wiring costs associated with your pulse-fired solution by locating pulse controls at each individual burner.

- Visualization: Separate displays for temperature control, pulse control and flame safety prevents confusion and gives quick access to vital information.

- Suitable for NFPA 86-2011 and EN 746-2.

ECLIPSE®

Innovative Thermal Solutions
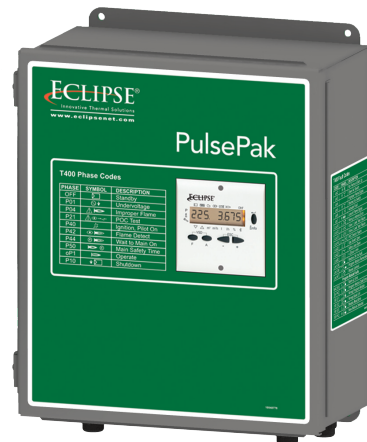
PulsePak Pulse Firing Control Systems

For precise, efficient burner control.

PulsePak Architecture

Customer Supplied Main Control Panel

Furnace Master
- Optional Communications to Zone Panels
- Blower and Purge Logic
- Main Gas Train Control and Safeties
- Enable Pulse Firing by Zone Masters

Wired Safety + Optional Comms

Comms + Wired Safety

Comms + Wired Safety

to next zone panel

1

2
3
8

1

2
3
8

PulsePak Zone Panel
- Temperature and Pulse Control
- Digital I/O Control Module
- T400 Flame Safeguard
- T400 Display
- Comms to Burner Panels
- Option for Comms to Host
- Option for High Limit
  (FMor SIL options)

PulsePak Burner Panels
- Digital I/O Control Module
- T400 Flame Safeguard
- Window or T400 Display
- Comms to Zone Panel

PulsePak Zone Panel, next zone

PulsePak Burner Panels, next zone

Controller screen shot

T400 Flame Safeguard

PulsePak Burner control panel

ECLIPSE®
Innovative Thermal Solutions

Offered By:
Power Equipment Company
2011 Williamsburg Road
Richmond, Virginia 23231
Phone (804) 236-3800
Fax   (804) 236-3882

www.peconet.com