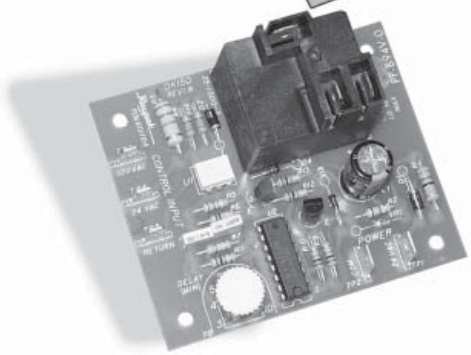
ECONOMASTER II

Energy saving pump control for Raypak heating and hot water boilers

For use in commercial hydronic heating and domestic hot water applications, with Raypak boilers and water heaters.

- **Raytherm**
- **Hi Delta**

Raytherm Heater Series



Economaster Circuit Board

The Raypak Economaster II is a solid-state time-delay relay which regulates pump operation to optimize system efficiency and reduce operating costs. It activates the pump as needed to support hot water demand, and shuts the pump down only after evacuating the boiler's residual heat to the heating system or hot water storage tank.

The Economaster II saves money in several ways. Electrical costs are reduced, since the pump is not running constantly. In addition, gas costs are cut, because residual heat that would otherwise escape through the flue is captured, and water is not subject to cooling during unnecessary circulation through the system. Finally, without constant water circulation, wear and tear on the boiler waterways is also reduced, prolonging the life of the boiler. And the Economaster II delivers these savings regardless of variable load conditions experienced by the boiler!

Gas Savings with Economaster II

Model Number	181	624	1223	1826	3001
BTUH Input	181,000	627,000	1,222,500	1,825,000	3,000,000
Cost per Therm		**Annual Savings** (dollars)			
0.30	56	196	381	570	936
0.60	113	391	763	1139	1872
0.90	169	587	1144	1709	2808
1.20	226	782	1526	2278	3744

Savings based on typical heater operation. Your results may vary.

Raypak®
A Rheem® Company

Catalog No.: 5100.20-I Effective: 12-28-07 Replaces: 03-15-03

ELECTRICAL DATA

Adjustable Timing:	3 to 10 minutes (Factory set at 7 minutes)
Input Power (Primary):	24 VAC 50/60 Hz
Input Signal (Controller):	24 VAC or 120 VAC
Output (SPST Relay):	Load - Up to 10 Amp-120 VAC Single Phase*
Ambient Temperature:	-67°F to +158°F

* Motors larger than 3/4 HP and three-phase current require a contactor or motor starter equipped with a 120 VAC coil.

SUGGESTED SPECIFICATION

The Economaster II pump delay controller shall maintain pump operation until all usable heat from the combustion chamber is absorbed into the system or storage tank. It shall be adjustable from 3 to 10 minutes to facilitate fine tuning to the specific system.

Raypak, Inc. reserves the right to make product changes or improvements at any time without notice.

©RAYPAK, INC., 2151 Eastman Ave, Oxnard, CA 93030 (805) 278-5300 Fax (800) 872-9725
www.raypak.com
Litho in U.S.A.