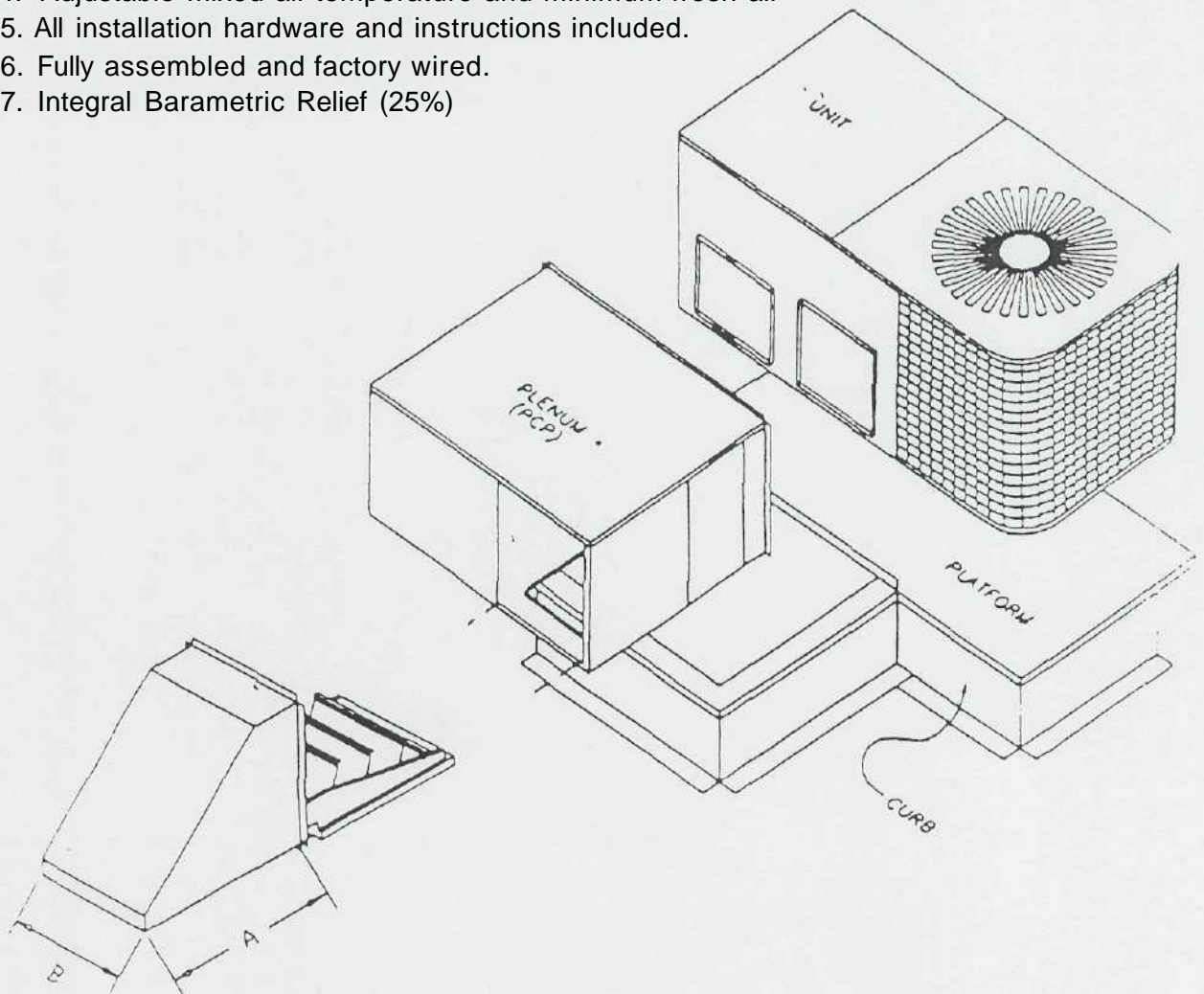


•• pCE-1, PCE2-3

# ECONOMIZER FOR GOODMAN PCK/PHK 024-060 PACKAGE UNITS

**SPECIFICATIONS:**

1. Fully modulating spring return 24 VAC motor.
2. Provides up to 100% fresh air.
3. Adjustable enthalpy type.
4. Adjustable mixed air temperature and minimum fresh air.
5. All installation hardware and instructions included.
6. Fully assembled and factory wired.
7. Integral Barometric Relief (25%)



MODEL	A	B
PCE-1	20	143/4
PCE 2-3	20	183/4



**Installation Instructions for PCF 1,2,3  
DOWNFLOW ECONOMIZERS  
FOR GOODMANPCK/PHK 24-60 PACKAGE UNITS**

Description: The PCE;1,,2,,3downflow economizers are designed for the Goodman PC/PH 2 through 5 ton package units.

These economizers are designed to provide free air conditioning when outside conditions are appropriate. When the outside air is cool and dry enough, the economizer automatically opens to circulate this cool air, thereby eliminating the need to run the air conditioning compressor. This enables the building owner to lower his electrical costs and increase the life of the equipment. If the outside air becomes too warm or humid, the enthalpy control automatically closes the fresh air damper and the compressor begins operation. The economizer is fully modulating and therefore will automatically mix the fresh air and the return air proportionally to get maximum energy savings.

A single or two stage room thermostat can be utilized to control the unit and the economizer. (Recommend GMC part #'s CHT18-60 for single stage thermostat & CHT90-120 for two stage thermostat or equivalents). When a single stage thermostat is used, during a call for cooling the enthalpy control automatically selects "free" cooling or mechanical cooling depending on outdoor air conditions. If a two stage thermostat is used, first stage "free" cooling or mechanical cooling based on outdoor conditions and the enthalpy setting. If the first stage is in the "free" cooling position and does not keep up with the load, the second stage makes (energizes) mechanical cooling. The two stage thermostat optimizes cooling cost and comfort while taking full advantage of the package unit /economizer combination.

Note: The economizer is not energized in the heating cycle of the heat pump package unit.

Installation:

1. Uncrate economizer and adapter. Inspect for damage.  
(NOTE: Report any damage immediately to the freight company.)
2. CAUTION; OPEN DISCONNECT SWITCH TO PREVENT INJURY!
3. Slide economizer into plenum and secure.
4. Remove electrical control access panel on unit.
5. Remove filter door from plenum.
- 6,, Wire economizer to unit as marked on attached wiring diagram.



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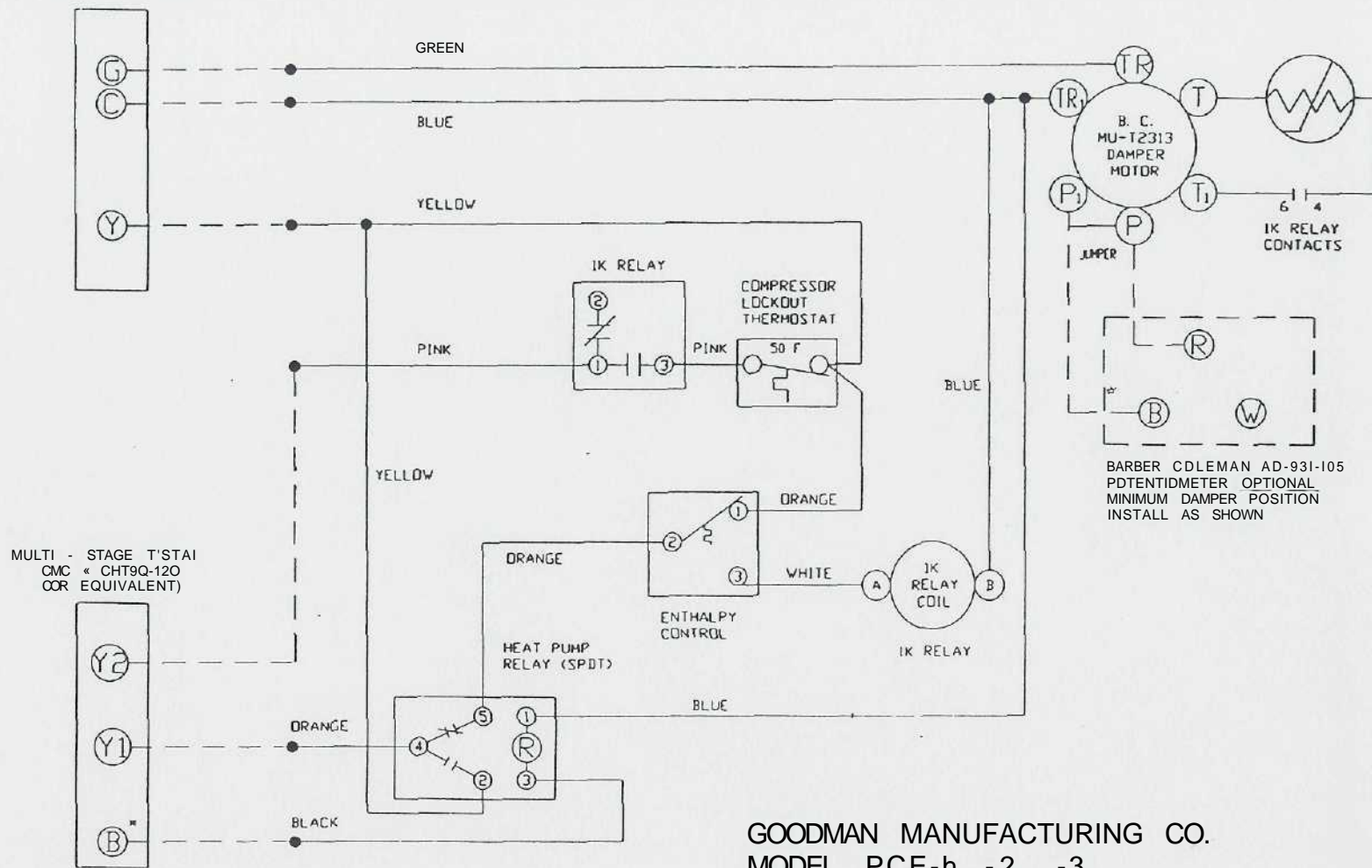
Phone (281) 987-8400

Fax (281) 987-9494

Note; insure the wire harness does not Interfere with the movement of the dampers during operation. Tie wire harness securely to the wall of the return air compartment.

7. Seal-water tight around economizer and plenum.
8. Close disconnect switch. \*
9. Reset enthalpy and / or minimum position potentiometer if setting other than factory setting is desired. (Access controls through filter door opening.)
10. Check out economizer per control manufacturer's literature.
11. Reinstall filter door on plenum from Step 5 and electrical control access panel from Step 4.

PCK/PHK SERIES  
 LOW VOLTAGE  
 TERMINAL OR LEADS



NDTE: RECDMMEND  
 MULTI - STAGE T'STAT  
 GMC tt CHT90-120  
 (DR EQUIVALENT)

GOODMAN MANUFACTURING CO.  
 MODEL PCE-h -2, -3  
 ROOFTOP UNITS  
 PCK(J)/PHK(J) SERIES WIRING DIAGRAM