

The FRENIC-EcoPAK is a packaged AC drive solution designed for variable torque fan and pump applications in commercial buildings, educational facilities, hospitals, and industrial facilities. Offering the most common specified features and options required by facility and consulting engineers, FRENIC-EcoPAK provides a compliant and competitive packaged drive solution. By applying Fuji Electric's FRENIC-EcoPAK to fans and pumps instead of mechanical flow control devices: lower energy bills, reduction in required maintenance, reduction in ambient noise, and improved process control can be achieved.

## ■ Product Features

- Multiple configurations offer flexibility
  - Basic bypass (3 contractor bypass for pump applications)
  - Bypass (3 contractor bypass for fan applications)
  - Non-bypass
- Integrated motor branch circuit protection, up to 100kA short circuit current rated packages
- Reactor options for reducing harmonics
- Soft-switching PWM drive output
- Catch-a-spinning motor functionality
- Enhanced automatic energy savings, reduces power consumption of both the motor and drive
- Simple construction leads to ease of maintenance
- LCD and LED keypad, also functions as a copy unit
- Quick-start programming menu for ease of start-up
- Power monitoring from the drive's keypad
- Run permissives
- Damper control and fireman's override for fan applications
- Built-in PID control with sleep function
- Communication protocols: Modbus RTU, Metasys N2, and APOGEE FLN are built-in the drive
- PC software for drive set-up and monitoring
- Additional communication protocols available: BACnet, LONWORKS, and Ethernet



## Specifications

Ratings	Basic Bypass (For Pumps)	Basic Bypass (For Fans)	Non-Bypass
Horsepower & Voltage	2 - 60Hp, 208/230V, 2 - 200Hp, 460V	2 - 60Hp, 208/230V, 2 - 200Hp, 460V	2 - 60Hp, 208/230V, 2 - 200Hp, 460V
NEMA/UL Type 1 Enclosure	S	S	S
NEMA/UL Type 3R Enclosure	O	O	O
NEMA 12 Enclosure	O	O	O
Ambient Temperature	-10 to 40°C	-10 to 40°C	-10 to 40°C
<b>Features</b>			
Input Circuit Breaker	S	S	S
Input Fusible Disconnect	O	O	O
Electrically & Mechanically Interlocked Drive Output & Bypass Contactors	S	S	N/A
Drive Input Isolation	S	S	N/A
Motor Overload Relay	Class 20	Class 20	N/A
DC Link Reactor	S	S	S
3% AC Line Reactor	O	O	O
5% AC Line Reactor	O	O	O
Control Power Transformer with Fusing	S	S	S
Power On Indication	S	S	via keypad
Drive Run Indication	via keypad	via keypad	via keypad
Drive Fault Indication	via keypad	via keypad	via keypad
Bypass Run Indication	S	S	N/A
Motor Overload Indication	S	S	via keypad
Drive-Off-Bypass Selector Switch	S	S	N/A
Isolate-Normal Selector Switch	S	O	N/A
Safety Interlock Input	S	S	programmable
Run Command Input	S	S	S
Enable Input	common with safety interlock	S	programmable
Fireman's Override Input	N/A	S	N/A
Analog Speed Reference Input	0-10VDC or 4-20mA	0-10VDC or 4-20mA	0-10VDC or 4-20mA
Damper Control Output	N/A	S	programmable
Drive Run Status Output	S	S	S
Drive Fault Status Output	S	S	S
Bypass Run Status Output	S	S	S
Programmable Relay Outputs (Qty 2)	O	O	O
Analog Signal Output (Programmable Functionality)	0-10VDC or 4-20mA	0-10VDC or 4-20mA	0-10VDC or 4-20mA
Automatic Bypass	N/A	O	N/A
Customer Control I/O Terminal Strip	S	S	S
<b>Communication Protocols</b>			
Modbus RTU	S	S	S
Metasys® N2	S	S	S
APOGEE® FLN (P1)	S	S	S
LonWorks®	O	O	O
BACnet	O	O	O
Profibus DP	O	O	O
DeviceNet	O	O	O
<b>Codes &amp; Standards</b>			
UL & cUL	S	S	S
Applicable NEMA & NFPA Standards	S	S	S

S = Provided As Standard

O = Optional

APOGEE is a registered trademark of Siemens Building Technologies, Inc.

LonWorks is a registered trademark of Echelon Corporation.

Metasys is a registered trademark of Johnson Controls, Inc.



**Safety  
Precautions**

Before using this inverter, carefully read the instruction manual, specifications, etc. or consult us or the shop of purchase to fully understand the correct usage of the inverter.