MECHATRONICS®

Cooling Simplified

Product Overview
LPH Series EC Fans

Product Overviews

Low Power AC Fans

Features

- ✓ Significantly reduced power consumption
- ✓ Improved cooling performance
- ✓ Low heat motor reduces load on bearings and prolongs bearing life

Sizes Available

60 x 25mm
80 x 25mm
80 x 38mm
92 x 25mm
92 x 38mm
120 x 25mm
120 x 38mm
172 x 152 x 51mm

Low Power AC Fans

Standard AC Models vs. LP Models

Model	Wattage	RPM	CFM
UF80B12-H	11	3,100	24
LPH80B99-H	4.5	3,500	39
UF92B12-H	11	3,100	31
LPH92B99-H	6.3	3,500	56
UF12B12-H	11	2,900	75
LPH12B99-H	6	3000	79
UF12A12-H	12	3,100	106
LPH12A99-M	6.2	3,000	110
UF15PC12-H	31	3,400	226
LPH15P99-H	22.5	3,200	228

AC input voltage is converted to DC voltage to drive a DC motor. This is also known as an electronically commutated, or EC, motor.

This design takes advantage of the high efficiency of a DC motor without the need for DC input power.

Low Power AC Fans

Global Input Voltage

- Wide Input Voltage Range
  - Fans can accept AC input voltage from 100VAC ~ 240VAC
- Simple Wiring
  - Input voltage is applied through the same 2 lead wires or terminals
- Performance Consistency
  - Fan speed remains constant within input range

Low Power AC Fans

Available Options

- ***DC Alarm Signal***
  - Tachometer Output or Locked Rotor Alarm
- ***PWM Input Speed Control***
  - Speed control via DC PWM Input
- ***Environmental Protection***
  - Conformal Coating (IP55)
  - Encapsulated Motor (IP68)

Low Power AC Fans Applications

- Appliance
- Refrigeration
- Food Processing Equipment
- Enclosures
  - Data Storage Cabinets
  - Servers
  - Telecom Cabinets
- Medical & Dental Equipment
- Inverters / Power Supplies
- HVAC
- Battery Charging Systems
- Electric Car/Battery Coolers
- Material Processing Equipment
- Food Service Equipment
- Lighting
- Diagnostic Equipment
- Industrial Applications
  - Heat Exchangers
  - Automation controls
  - Lighting / Signage