Fuji Electric

Pre-Engineered Solution for Pump Drives

# FRENIC-EcoPUMP

The FRENIC-EcoPUMP Type 3R packaged AC drive offering provides a solution designed for outdoor pumping applications. With specific pump application features like; PID control with sleep mode & boost, broken pipe detection, pipe fill mode, submersible pump start control, transducer feedback signal loss detection and more, the FRENIC-EcoPUMP allows for easy installation and commissioning. Additional benefits include; less peripheral equipment required, easy maintenance, energy savings, improved process control and reduced mechanical stress on the pumping system.

## Product Features

- UL Type 3R Listed
- Broad range of power ratings:
  - 230V: 5 – 125Hp
  - 460V: 5 – 600Hp
- White powder coat reflective paint to reduce solar heat gain within the enclosure
- Thermostat controlled cooling fans
- Input circuit breaker including a pad lockable through the door operator handle that is interlocked with the enclosure door
- Service entrance rated and labeled
- Dual rated and labeled for 1 phase or 3 phase input power
- Door mounted drive keypad with protective hinged cover
- Modbus RTU communications
- Easy access to washable ventilation filters
- Optional door mounted operator controls package consisting of a Hand-Off-Auto selector switch, a speed potentiometer and the drive keypad all protected by a solid hinged cover.
- Optional thermostat controlled enclosure space heater
- Optional high ambient additional cooling
- Optional floor-stand kits for wall-mount style enclosures
- Additional engineered to order ratings (460V: 700 – 900Hp) or features are available by contacting your local Fuji Electric sales representative


Fuji Electric Corp. of America
47520 Westinghouse Drive, Fremont, CA 94539
Phone: 510-440-1060

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www.americas.fujielectric.com

# FRENIC-EcoPUMP

## Specifications

### Environmental

| | |
|---|---|
| Enclosure | UL/NEMA Type 3R (Suitable for Outdoor Use) |
| Ambient Temperature (Standard) | +14 to +104 ºF (-20 to +40 ºC) |
| Ambient Temperature (Optional) | +5 to +113 ºF (-15 to +45 ºC) |
| Storage Temperature | +5 to +140 ºF (-15 to +60 ºC) |
| Humidity | 5% to 95% with no condensation |
| Altitude | 0 to 3,300 ft. (1,000 m) without derating, derate output current by 1% for each additional 330 ft. (100 m) |

## Dimensions

| Hp | Figure | Height | Width | Depth | Est. Weight (lbs) |
|---|---|---|---|---|---|
| **230V** | | | | | |
| 5 | A | 35.00 | 24.15 | 18.08 | 214 |
| 7.5 | A | 41.00 | 24.15 | 18.08 | 366 |
| 10 | A | 41.00 | 24.15 | 18.08 | 446 |
| 15 | A | 47.00 | 24.15 | 20.08 | 610 |
| 20 | A | 47.00 | 27.39 | 20.08 | 872 |
| 25 | A | 55.00 | 36.19 | 22.01 | 920 |
| 30 | A | 55.00 | 36.19 | 22.01 | 1169 |
| 40 | A | 67.00 | 36.19 | 22.01 | 1549 |
| 50 | A | 67.00 | 36.19 | 22.01 | 1466 |
| 60 | A | 67.00 | 36.19 | 22.01 | 1793 |
| 75 | B | 91.06 | 40.39 | 39.54 | 2100 |
| 100 | B | 91.06 | 40.39 | 39.54 | 2701 |
| 125 | B | 91.06 | 60.06 | 45.54 | 3898 |
| **460V** | | | | | |
| 5 | A | 35.00 | 24.15 | 18.08 | 187 |
| 7.5 | A | 35.00 | 24.15 | 18.08 | 191 |
| 10 | A | 41.00 | 24.15 | 18.08 | 364 |
| 15 | A | 41.00 | 24.15 | 18.08 | 398 |
| 20 | A | 41.00 | 24.15 | 18.08 | 521 |
| 25 | A | 47.00 | 24.15 | 20.08 | 609 |
| 30 | A | 47.00 | 24.15 | 20.08 | 652 |
| 40 | A | 47.00 | 27.39 | 20.08 | 1077 |
| 50 | A | 55.00 | 36.19 | 22.01 | 1303 |
| 60 | A | 55.00 | 36.19 | 22.01 | 1472 |
| 75 | A | 67.00 | 36.19 | 22.01 | 1538 |
| 100 | A | 67.00 | 36.19 | 22.01 | 1757 |
| 125 | B | 91.06 | 40.39 | 39.54 | 2195 |
| 150 | B | 91.06 | 40.39 | 39.54 | 2521 |
| 200 | B | 91.06 | 52.39 | 41.54 | 3132 |
| 250 | B | 91.06 | 52.39 | 41.54 | 3952 |
| 300 | B | 91.06 | 52.39 | 41.54 | 4624 |
| 350 | B | 91.06 | 52.39 | 41.54 | 5417 |
| 400 | B | 91.06 | 60.06 | 45.54 | 6025 |
| 450 | B | 91.06 | 60.06 | 45.54 | 6581 |
| 500 | B | 91.06 | 60.06 | 45.54 | 7986 |
| 600 | B | 91.06 | 60.06 | 45.54 | 9096 |

Note: Dimensions listed above are based on standard ambient temperature design.

Figure A

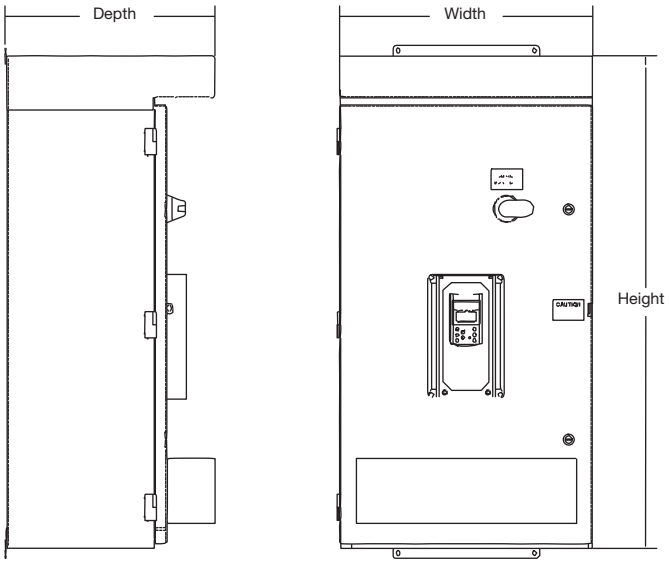
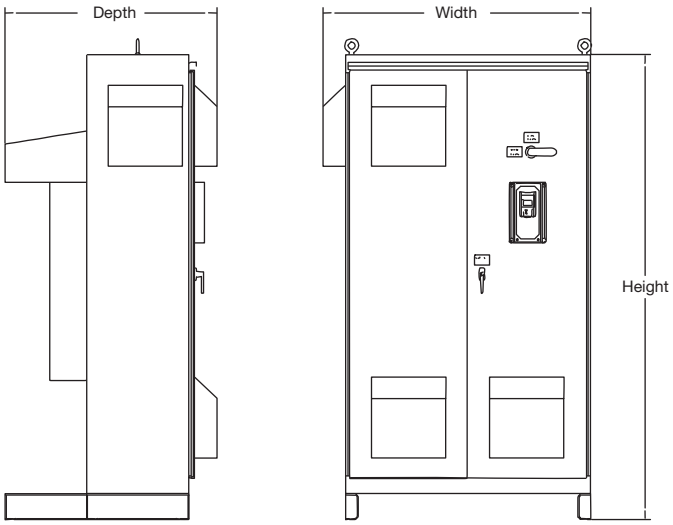



Figure B

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