

FR-F800 SERIES VFD

PRODUCT OVERVIEW



- Simple setup
- Improved energy savings
- Error detection

The FR-F800 is a pump and fan control VFD optimized for maximum energy savings. Equally at home, in an industrial environment, or as part of an integrated HVAC system, FR-F800 can be used as a cost-effective drive for controlling other types of lighter-duty constant torque loads.



KEY BENEFITS:

- **UL-1 design up to 40HP** – Convenient installation without an enclosure
- **Standard USB port** – For simple setup using a memory stick
- **Real-time clock** – Enables time stamping of trip messages for easy diagnostics
- **Load detection system** – Detects broken drive belts and other mechanical problems
- **Anti-windmill function** – Avoids costly damage to drive and motor by smoothly controlling loads which are already spinning before start-up
- **Optimum excitation control** – Optimum excitation control reduces energy consumption by removing overcurrent during steep acceleration/deceleration.
- **Extended warranty** – MEAU VFD Start-up Service extends standard warranty from 1 to 5 years at no additional cost

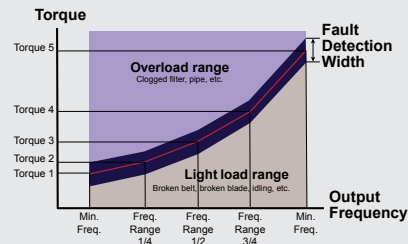
FR-F800 SERIES VFD

PRODUCT OVERVIEW

Load detection system

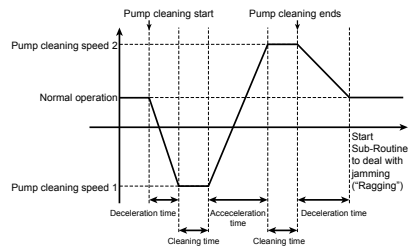
The FR-F800 learns the exact characteristics of any load and quickly detects the unexpected, such as:

- Broken fan drive belt
- Motor bearing damage
- Clogged pipes
- Blocked filter



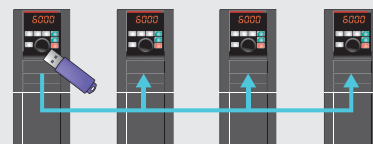
Anti-jamming feature

The anti-jamming system deals effectively with the problem of starting pumps that have become clogged with debris. A user-programmable sub-routine alternates the pump shaft direction to free the impeller.



Simple setup

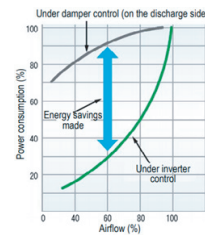
The FR-F800 parameters can be entered directly from a standard USB memory stick. Data can be retrieved, copied, or edited by means of the FR-Configurator2 programming package.



USB 2.0 supported (full speed)

Intelligent energy optimization

As a result of the enhanced optimum excitation control in Mitsubishi Electric's variable frequency drives, overcurrent is no longer generated during steep acceleration/deceleration. The amount of voltage compensation is not limited during these operations which ultimately provides improved energy savings.



Start-up services

Mitsubishi Electric offers on-site start-up services for all FR-F800 Series variable frequency drives. Our factory-trained technicians ensure your investment is commissioned properly. Customers using this service realize immediate value through a start-up that is done quickly and safely, providing a faster return on their investment. Furthermore, **all FR-F800 Series variable frequency drives commissioned by Mitsubishi Electric receive extended warranty coverage against manufacture defects for 5 years.** VFDs covered under the extended warranty are eligible for immediate replacement. You won't have to wait to be approved to get a replacement product. [Contact us today](#) to learn more about Mitsubishi Electric's VFD Start-up program today.



MITSUBISHI ELECTRIC AUTOMATION, INC.

500 Corporate Woods Parkway, Vernon Hills, IL 60061
Ph 847.478.2100 • Fx 847.478.2253

us.mitsubishielectric.com/fa/en

February 2023 • ©2023, Mitsubishi Electric Automation, Inc.
Specifications subject to change without notice. • All rights reserved

L-VH-04079