



for a greener tomorrow

FR-F800 SERIES VFD

Product Overview



The FR-F800 is a pump and fan control VFD optimized for maximum energy saving. Equally at home in an industrial environment or as part of an integrated HVAC system, FR-F800 can also 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 set-up 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 over current during steep acceleration/deceleration.

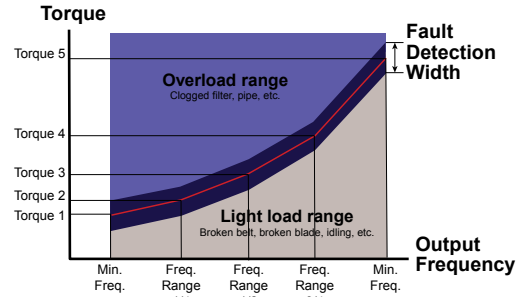


FR-F800 Series VFD – Product Overview

LOAD DETECTION SYSTEM

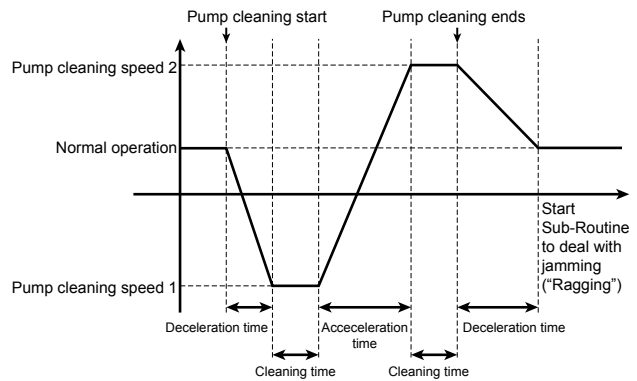
The FR-F800 learns the exact characteristics of any load and speedily detects the unexpected, such as:

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



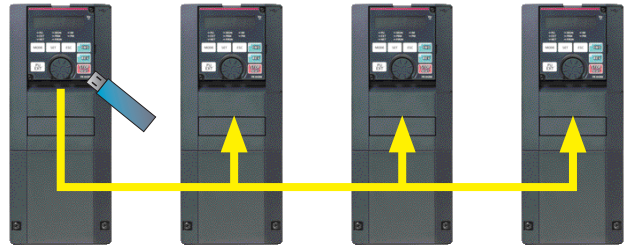
ANTI-JAMMING FEATURE

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



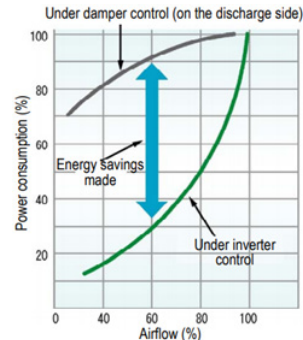
SIMPLE SET-UP

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-Configurator 2 programming package.



INTELLIGENT ENERGY OPTIMIZATION

As a result of the enhanced optimum excitation control in Mitsubishi Electric variable frequency drives, over current is no longer generated during steep acceleration/deceleration even without limiting the amount of voltage compensation during these operations, which ultimately provides improved energy savings.



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