



**NAFFCO**

PASSION TO PROTECT

# JOCKEY CONTROLLER





## AN INTRODUCTION TO NAFFCO

NAFFCO was founded in Dubai, UAE to become the world's leading producer and supplier of life safety solutions. By recognizing the importance and convenience of having easy access to multiple safety services, we became specialized by offering complete solutions under one roof for all types of high quality firefighting equipment, fire protection systems, fire alarms, addressable emergency systems, security systems, custom-made vehicles such as fire trucks, ambulances, mobile hospitals and airport rescue firefighting vehicles (ARFF).

With the most talented and dedicated employees from around the world, NAFFCO has over 2,000 passionate engineers and over 6.5 million square feet of manufacturing facilities. We are currently exporting to over 100 countries worldwide.

NAFFCO manufactures UL, FM, BSI & Global Mark approved products in our facility in consistent with International Standards UL-DQS, BSI certifies for the Quality Management System against ISO 9001. Our Environmental (ISO 14001) & Occupational Health & Safety (ISO 45001) Management Systems have been certified by UL-DQS. Our Trucks & Vehicles division has been assessed & certified for Quality Management System requirement for Aviation, Space & Defense organization (AS 9100) by UL-DQS.

Our success is driven by our passion to protect; our vision is to become the world's number one provider of innovative solutions in protecting life, environment and property.





## MANUFACTURING

NAFFCO manufacturing department has the latest technology, state-of-the-art machines (CNC machines, hydraulic shearing and bending machines, all types of welding machines - MIG, TIG, ARC etc.), and a complete machine shop that enable us to meet the needs of any production requirement. NAFFCO has the ability to introduce the latest technological systems & equipment in the field. Our engineers and technicians are well qualified & experienced in producing quality products.

The department is equipped with full-fledged testing facilities to test the equipment as per NFPA, EN, ICAO, KKK and Civil Defense standards & requirements, and to meet the customers specifications. Considering the above facilities and excellence in engineering capabilities, NAFFCO can meet any challenges to produce bulk quantities of fire safety materials.



# UL LISTED JOCKEY PUMP CONTROLLER

NAFFCO Electric Motor Controllers for Jockey Pump are listed by Underwriters Laboratories (UL file number E309408) in accordance with UL508a (Standard for Industrial Control Panel), NFPA70 (National Electric Code) and relevant NEMA standard.

Power ratings vary from 1.5 to 40 horsepower, 380 to 415 volts, 50 or 60 Hz. Only high quality UL listed or UL recognized components are used in these panels to guarantee the best possible reliability. Also high quality UL listed enclosures are used.

The controller is completely wired, assembled and tested at the factory before shipment, and ready for immediate installation.

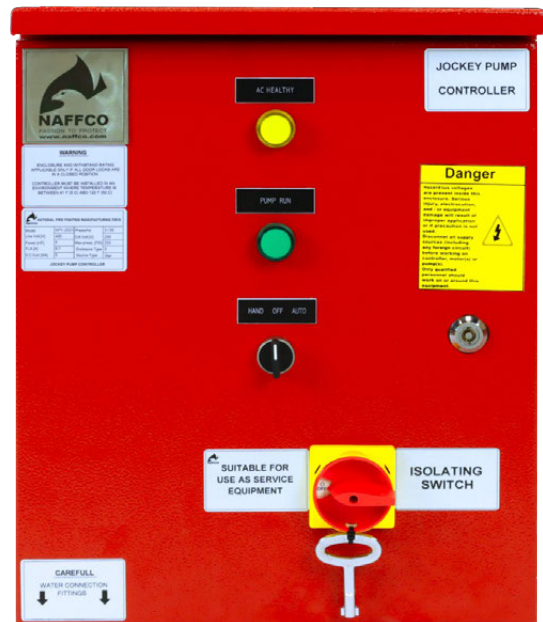
## STANDARD FEATURES

### NFY-JDO1 Direct On-Line & NFY-JSD1 Star-Delta.

- Main disconnect switch with rotary handle, sized for disconnecting motor horsepower and voltage.
- Motor Starter (DOL) or Over Load Relay (Star-Delta) rated to motor's horsepower, with thermal and short circuit protection.
- Rated motor connectors.
- Circuit breaker for protection of control circuit and motor.
- Star—Delta starting timer. ( in Model NFY-JSD1 & NFY-JSD1-M1 )
- Power ON/Healthy indicator/free contact.
- Pump Run indicator/free contact.
- Pump Trip indicator/free contact.
- Adjustable pressure switch.
- Run Period Timer
- Selector switch for Hand-Off-Automatic Operation.

## ENCLOSURE OPTIONS:

NEMA 2, NEMA3, NEMA 4, NEMA 4x & NEMA 12



## SUMMARY OF RATINGS

<b>Power Rating</b>	1.5 - 7.5 HP DOL Starter & 10 - 40 HP Star Delta Starter
<b>Voltage</b>	230/380/415/480 V
<b>Frequency</b>	50 / 60 Hz

\* Dual Jockey Pump Controller (Models JD02 - Direct On Line - 1.5 - 7.5 hp & JSD2 - Star - Delta - 10 - 40 hp) are also available. For Higher Rating contact Factory.

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The controller is completely wired, assembled and tested at the factory before shipment, and ready for immediate installation.

## STANDARD FEATURES

### NFY-JD01-M1 Direct On-Line & NFY-JSD1-M1 Star-Delta

- Main disconnect switch with rotary handle, sized for disconnecting motor horsepower and voltage.
- Motor Starter (DOL) or Over Load Relay (Star-Delta) rated to motor's horsepower, with thermal and short circuit protection.
- Rated motor connectors.
- Circuit breaker for protection of control circuit and motor.
- Power ON/Healthy indicator/free contact.
- Pump Run indicator/free contact.
- Pump Trip indicator/free contact.
- Adjustable pressure switch.
- Run Period Timer
- Touch control panel to operate, monitor, and set up the controller.
- Automatic and manual selection on the touch panel screen.
- Real-time voltage and pressure reading on screen.
- Real-time pump running status, alarm details, and time delay on screen.
- Password protection.
- Up to 4 auxiliary inputs and 3 output ports.
- Up to 5 predefined options to select on input auxiliary.
- Up to 24 predefined options to select on output auxiliary.

## ENCLOSURE OPTIONS:

NEMA 2, NEMA 3, NEMA 4, NEMA 4x & NEMA 12



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# NAFFCO WEATHER PROOF ENCLOSURE

## NEMA 4x & NEMA 12

NAFFCO Weather Proof Enclosures are UL Listed. The construction of the metallic enclosures are based on UL50E standard, with requirements meeting for NEMA 4X & 12

Environmental Considerations. These enclosures acts as solution to protect the electric control panels against different environmental factors.

### Equivalent Ingress Protection Ratings as per ANSI/IEC 60529

NEMA 4X - IP66

NEMA 12 - IP54

NEMA 4x & NEMA 12 ENCLOSURES		
Enclosure Series	NF-ENC-1000	NF-ENC-2000
Enclosure Material	E.G. Sheet	
Hinge Material	Stainless Steel	
Lock Material	Stainless Steel	Zinc Alloy Casting
Lock Type	Quarter Turn Lock	Multi Point Lock
Min. Overall enclosure dimensions (H X W X D) in mm	270x270x150	600x850x200
Max. Overall enclosure dimensions (H X W X D) in mm	800x600x300	1700x1200x500
Designed as per NEMA 250		
Tested and Approved as per UL 50 and UL 50E		

**NEMA 4X:** These enclosures are constructed for indoor and outdoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt, rain, sleet, snow, windblown dust, splashing water, hose-directed water, and corrosion; and that will be undamaged by the external formation of ice on the enclosure.

**NEMA 12:** These enclosures are constructed for indoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt, against circulating dust, lint, fibers, and flyings; against dripping and light splashing of non-corrosive liquids; and against light splashing and consequent seepage of oil and non-corrosive coolants.



Design of these enclosures have passed the following tests as part of design approval from UL:

- NEMA 4X:**
- External icing test
  - Hose down test
  - Outdoor corrosion protection test
  - Additional corrosion protection test
  - Gasket test
  - Misalignment test

- NEMA 12:**
- Indoor (circulating) dust test
  - Indoor corrosion protection test
  - Gasket test
  - Misalignment test



## BASIC CONSTRUCTION FEATURES

<b>ENCLOSURE SERIES : NF-ENC-1000</b>	
Door or Cover Construction	One Door
Sheet Metal Thickness of Enclosure Body	2 mm
Sheet Metal Thickness of Door(s)	2 mm
Number of Locking(s) up to a max width of 600 mm and height of 800 mm	1 Quarter turn lock (Lock with spring inside)

<b>ENCLOSURE SERIES : NF-ENC-2000</b>	
Door or Cover Construction	One Door
Sheet Metal Thickness of Enclosure Body	2 mm
Sheet Metal Thickness of Door(s)	2 mm
Number of Locking(s) up to a max width of 1200 mm and height of 1700 mm	Multi-point-latch-system with min. 3 interlocking points

## BASIC ENCLOSURE FEATURES

### NEMA 12

#### Application : Indoor

- Protection against Hazardous Parts
- Protection against Oil and Coolant seepage
- Protection against Ingress of solid foreign objects such as:
  - » Circulating Dust
  - » Lint
  - » Fibers
  - » Flyings
  - » Falling Dirt
  - » Settling Airborne Dust
- Protection against Ingress of water such as:
  - » Dripping
  - » Light Splashing

### NEMA 4x

#### Application : Indoor & Outdoor

- Protection against Hazardous Parts
- Protection against Oil and Coolant seepage
- Protection against Ingress of solid foreign objects such as:
  - » Circulating Dust
  - » Lint
  - » Fibers
  - » Flyings
  - » Falling Dirt
  - » Settling Airborne Dust
  - » Windblown Dust
- Protection against Ingress of water such as:
  - » Dripping
  - » Light Splashing
  - » Rain
  - » Snow
  - » And Sleet
  - » Hosedown
  - » Splashing Water



SERVING OVER 100 COUNTRIES WORLDWIDE

**NAFFCO**

Email: [info@naffco.com](mailto:info@naffco.com)  
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In line with NAFFCO policy for continuous product development,  
NAFFCO has the right to change specifications without prior notice.

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