

# COEX™ FEWS Hazardous-Area Wash System

## FEWS3-A

The COEX™ FEWS3-A wash system is developed specifically for hazardous-area applications. The wash system allows remote pressure jet washing of the camera station window, maintaining optimum viewing conditions in the harshest of environments.



Manufactured from the highest-grade electro-polished 316L stainless steel for maximum corrosion resistance, the COEX™ FEWS3-A wash system is designed for optimal performance and long service life in the harshest of environmental conditions.

For operation in potentially explosive atmospheres, the FEWS3-A is the perfect choice to maintain optimum image clarity and performance for C3000 hazardous-area camera stations.

Comprised of a 10 liter pressurised reservoir and electronically operated solenoid valve, the unit can be installed up to 20 meters below the camera head, allowing servicing and remote operation of the reservoir at ground / deck level.

When installed alongside C3000 hazardous-area camera stations, the water jet is ejected from a spray nozzle mounted on the window wiper arm to ensure uniform window cleaning.

Various ATEX/IECEX solenoid valve options are available to match the desired power requirements, extending the flexibility for the wash unit to be used with third-party camera stations.

### Features

- Electro-polished 316L stainless steel enclosure for optimum corrosion resistance
- 10 liter removable stainless steel reservoir can provide up to 500 wash cycles between refills

- Enclosed system ensures high performance in all climates
- Suitable for antifreeze and detergent additives\*1

### Options

- Wide range of operating voltages
- 10 meter wash hose extension kit

# Specifications

| CERTIFICATIONS / RATINGS |  |
|--------------------------|--|
| ATEX/IECEX               | II 2 GD, Ex db IIB / IIC T4 Gb; Ex tb IIIC T135 Db |
| EMC                      | EN61000-6-4, EN61000-6-2                           |
| DNV                      | TAA00001M2   |

  

| ENVIRONMENTAL                       | [OPTIONS]  |
|-------------------------------------|--|
| Operating Temperature <sup>*2</sup> | [Refer to valve options table]                     |
| Ingress Protection                  | IP66, IP67 (solenoid valve), IP56 (main enclosure) |
| Salt Mist                           | IEC60068-2-52, IEC60945 section 8.12               |
| Vibration                           | 0.7g to IEC60068-2-6, IEC60945                     |
| Wind Loading                        | Operational to 130 km/h, survival to 200 km/h      |

  

| MECHANICAL                   | [OPTIONS]  |
|------------------------------|--|
| Enclosure Material           | Electro-polished 316L stainless steel                            |
| Enclosure Paint              | Available on request   |
| Mounting                     | 3 or 4 x Ø 8 mm (Ø 0.31") holes                                  |
| Reservoir Type               | Stainless steel, manually pressurized                            |
| Reservoir Capacity           | 10 liters (2.2 gallons)  |
| Working Pressure             | 6 bar maximum  |
| Valve Material <sup>*2</sup> | [Epoxy coated aluminum or 316 stainless steel]                   |
| Valve Seal Material          | NBR  |
| Fluid Outlet                 | 1/4" bore, 10 m hose   |
| Flow Rate                    | > 0.5 liters per minute  |
| Dimensions (W x D x H)       | 346 x 251 x 650 mm (13.62" x 9.88" x 25.59")                     |
| Weight Empty                 | 17.2 kg / 38 lbs [20.2 kg / 44.6 lbs with stainless steel valve] |
| Weight Full                  | 27.2 kg / 60 lbs [30.2 kg / 66.6 lbs with stainless steel valve] |

  

| ELECTRICAL                       | [OPTIONS]  |
|----------------------------------|--|
| Power Requirements <sup>*2</sup> | [Refer to valve options table]   |
| Power Consumption                | 10.1 W (AC), 11.5 W (DC) maximum   |
| Electrical Connections           | 3 x screw terminals for 0.75 -1.5 mm <sup>2</sup> recommended.<br>2.5 mm <sup>2</sup> maximum. |
| Cable Gland Entry                | 1 x M20  |

NOTE: \*1 Ensure compatibility with valve sealing material. \*2 Refer to valve options table for exact specification.

Model Code Ordering Information: FEWS3-A-[Valve Code]

| VALVE OPTIONS |                |                       |                       |            |
|---------------|----------------|-----------------------|-----------------------|------------|
| Voltage (V)   | Frequency (Hz) | Operating Temperature | Valve Material        | Valve Code |
| 24            | DC             | -20°C to +75°C        | Epoxy coated aluminum | 024D2      |
| 24            | DC             | -25°C to +75°C        | Epoxy coated aluminum | 024D4      |
| 24            | 50             | -20°C to +60°C        | Epoxy coated aluminum | 02451      |
| 24            | 50             | -25°C to +75°C        | Epoxy coated aluminum | 02453      |
| 24            | 60             | -25°C to +75°C        | Epoxy coated aluminum | 02463      |
| 115           | 50             | -20°C to +60°C        | Epoxy coated aluminum | 11551      |
| 115           | 50             | -25°C to +75°C        | Epoxy coated aluminum | 11553      |
| 115           | 60             | -20°C to +60°C        | Epoxy coated aluminum | 11561      |
| 230           | 50             | -25°C to +75°C        | Epoxy coated aluminum | 23053      |
| 230           | 60             | -25°C to +75°C        | Epoxy coated aluminum | 23063      |
| 24            | DC             | -25°C to +75°C        | 316 stainless steel   | 024D4-S    |
| 24            | 50             | -25°C to +75°C        | 316 stainless steel   | 02453-S    |
| 24            | 60             | -25°C to +75°C        | 316 stainless steel   | 02463-S    |