

# COEX™ FEWS Hazardous-Area Wash System

## FEWS3-ULA

The COEX™ FEWS3-ULA wash system is developed specifically for hazardous-area applications where US or Canadian standards are required.

The wash system allows remote pressure jet washing of the camera station window and low fluid level monitoring, 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-ULA wash system is designed for optimal performance and long service life in the harshest of environmental conditions.

Certified for operation in hazardous (classified) locations, the FEWS3-ULA 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.

For convenience, the unit also contains a certified pressure sensor providing a low pressure/fluid level warning output that can be used to signal to a controlling video management system when the wash unit requires recharging/refilling.

Various certified 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\*<sup>1</sup>
- Designed for maintenance access at ground / deck level
- Low pressure/fluid level warning output

### Options

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

# Specifications

CERTIFICATIONS / RATINGS	
CSAus Class / Division*2	Class I, Division 1, Groups A, B, C, D Class II, Division 1, Groups E, F*3, G*3 [T3A, T3B]
EMC (US and Can.)	FCC 21 CFR 47, part 15 ICES-003
DNV	TAA00001M2
ENVIRONMENTAL <span style="float: right;">[OPTIONS]</span>	
Operating Temperature*2	[Refer to valve options table]
Ingress Protection	Enclosure Type 4X (Solenoid IP protection), IP56 (main enclosure), IP67/NEMA 4x (switch)
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 <span style="float: right;">[OPTIONS]</span>	
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	PA covered epoxy
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	16.5 kg / 36.4 lbs
Weight Full	26.5 kg / 58.5 lbs
LOW LEVEL SWITCH <span style="float: right;">[OPTIONS]</span>	
Material	316L stainless steel
Rating	SPDT 3A @ 125 Vac, 2A @ 30 Vdc (normally open / closed)
Diaphragm	316 stainless steel < 200psi
Set Point	Factory set to 1.5 bar ± 10%, adjustable set point (decreasing)
ELECTRICAL <span style="float: right;">[OPTIONS]</span>	
Power Requirements*2	[Refer to valve options table]
Power Consumption	10.5 W (AC), 11.2 W (DC) maximum
Electrical Connections	3 cores x 18AWG Wires x 450mm long (solenoid valve) 4 cores x 18AWG Wires x 450mm long (low level switch)
Conduit Connection	1 x ½"NPT female (solenoid valve) 1 x ½"NPT male (low level switch)

NOTE: \*1 Ensure compatibility with valve sealing material. \*2 Refer to valve options table for exact specification. \*3 Groups F, G not marked when -20°C to +55°C (T3A) 24 VDC rated valve is fitted.

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

VALVE OPTIONS				
Voltage (V)	Frequency (Hz)	Operating Temperature	T Rating	Valve Code
24	DC	-20°C to +55°C	T3A	024DB
24	60	-20°C to +60°C	T3B	0246C