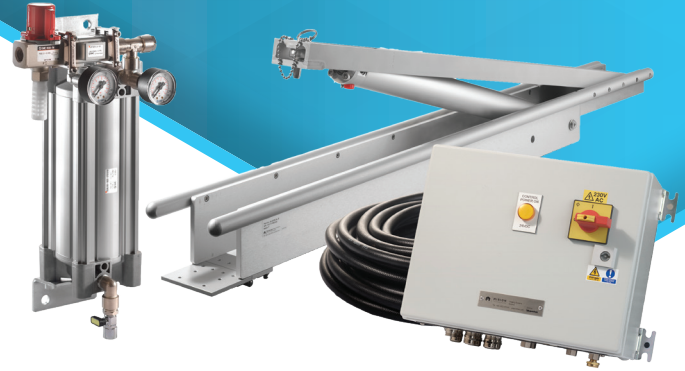




HIGH TEMPERATURE CAMERAS

M356™

Retract



FEATURES

- Retract monitors pressure and flow for camera lens cooling. Pulls camera out of high heat if levels fall below preset values
- Operator override allows manual retraction for inspection and cleaning
- Multiple retraction lengths allow complete removal from boiler, kiln or furnace
- Remote control/monitoring versions available
- Universal power supply
- Temperature controller option

DESCRIPTION

The IST-Quadtek® high temperature imaging camera systems are cooled by air or water. If the plant supply of air pressure, water or electricity is interrupted the M356 Pneumatic Automatic Retract System will retract the camera from the most severe heat, protecting it from serious damage. With the camera retracted from the intense heat the operator has time to arrive at the location and manually pull the lens clear of the viewport. Then they can track the coolant problem and re-install the camera. The M356 system works with the IST-Quadtek Bedbug®, Lynx® and Spyrometer® cameras, as well as cameras of many other manufacturers.

The M356 retraction system now includes a ruggedized safety air reservoir and additional options such as locking pistons for downward-inclined camera installations.

SPECIFICATIONS AND PERFORMANCE

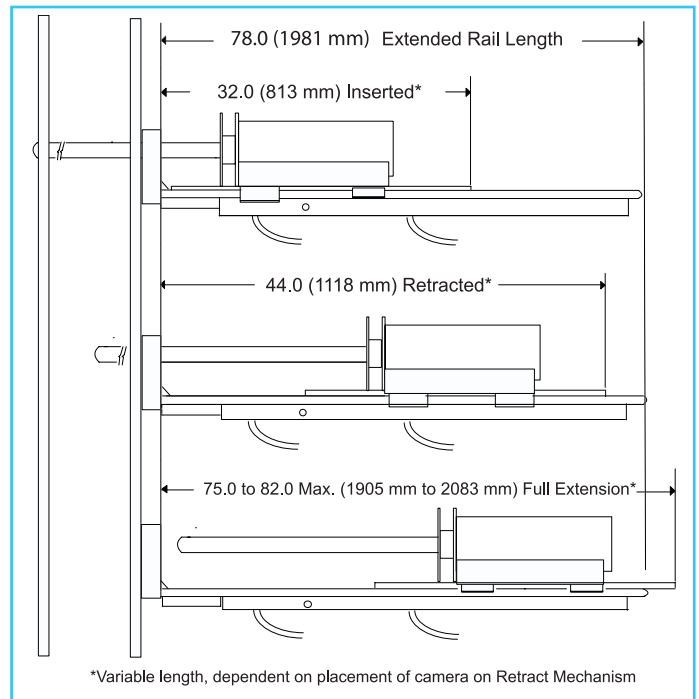
Retract	
Cylinder	50 mm (2 in.) bore with steel rod; Standard /AL12 - 305 mm (12 in.) stroke Optional: /AL18 - 457 mm (18 in.) stroke /AL24 - 610 mm (24 in.) stroke /AL30 - 767 mm (30 in.) stroke
Power Specification	100-240 V ac, 50/60 Hz
Ambient Temperature	4 °C to 71 °C (-40 °F to 160 °F)
Retract Rail	All aluminum construction; Standard: /RL42 - 1067 mm (42 in.) rail /RL30 - 762 mm (30 in.) rail /RL54 - 1372 mm (54 in.) rail /RL66 - 1676 mm (66 in.) rail /RL78 - 1981 mm (78 in.) rail

Reservoir	
Dimensions	Clearance envelope; 490 x 240 x 225 mm (H x W x D) (19.3 x 9.4 x 8.9 in.)
Mechanical	½ in. NPT female threaded inlet, five micron filter, check valve at inlet to allow one-way air flow
Air Hose	Aeroquip SH925 (5 m)
Air Requirements	Minimum 276kPa (40 psig) Maximum 690kPa (100 psig)
Air Storage	Reservoir stores enough air for one retraction of the 762 mm (30 in.) stroke cylinder

Reservoir	
Operation Modes	Automatic retract when air pressure drops below a set level or if power fails. For water cooled lens: Retracts when cooling flow drops below a set level. Camera can also be manually retracted and inserted by the operator.
Min Air Pressure Set Point	Factory preset to 2.5 psig (17 kPa) min. lens pressure

Controller	
Min Water Flow Set Point	1 gpm
Controller Ambient Temp	0 °C to 50 °C (32 °F to 122 °F)
Physical Dimensions	305 x 254 x 127 mm (H x W x D) (12 x 10 x 5 in.)
Enclosure Specifications	NEMA 4 (IP54) Sheet steel, dipcoat primed and powder coated

Sample Representation: 12 in. Retract and 72 in. Rail	
Top Figure	The pneumatic retract is fully inserted into the process
Middle Figure	The pneumatic retract has retracted the lens 305 mm (12 in.) from the heat of the process to the end of the cylinder stroke
Bottom Figure	The lens and camera have been manually pulled back to the length of the extended rail



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