M356 Retract

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 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 ruggedised safety air reservoir and additional options such as locking pistons for downward-inclined camera installations.

OVERVIEW

• 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

KEY FEATURES

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SPECIFICATIONS AND PERFORMANCE

Retract

<table>
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<tr>
<th>Cylinder</th>
<th>50mm (2&quot;) bore with steel rod; Standard /AL12 - 305mm (12&quot;) stroke Optional: /AL18 - 457mm (18&quot;) stroke /AL24 - 610mm (24&quot;) stroke /AL30 - 767mm (30&quot;) stroke</th>
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Power Specification
100-240 VAC, 50/60 Hz

Ambient Temperature
4°C to 71°C (-40°F to 160°F)

Retract Rail

| Standard: /RL42 - 42" (1067mm) rail /RL30 - 30" (762mm) rail /RL54 - 54" (1372mm) rail /RL66 - 66" (1676mm) rail /RL78 - 78" (1981mm) rail |
|---|---|
| Optional: /AL12 - 305mm H x127mm D (10" x 12" x 5") |

Reservoir

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<tr>
<th>Dimensions</th>
<th>Clearance envelope; 240mm W x 490mm H x 225mm D (9.4&quot; W x 19.3&quot; H x 8.9&quot; D)</th>
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Mechanical

1/2" NPT female threaded inlet, five micron filter, check valve at inlet to allow one-way air flow

Air Hose

Aeroquip SH925 (5 metres)

Air Requirements

Minimum 276kPa (40 psig) Maximum 690kPa (100psig)

Air Storage

Reservoir stores enough air for 1 retraction of the 762mm (30") stroke cylinder

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 | 254 W x 305mm H x127mm D (10" x 12" x 5") |
| Enclosure Specifications | NEMA 4 (IP54) Sheet steel, dipcoat primed and powder coated in textured RAL 7032 |

Sample Representation: 12" Retract and 72" Rail

Top Figure
The pneumatic retract is fully inserted into the process.

Middle Figure
The pneumatic retract has retracted the lens 12 inches (305mm) 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.

For additional information, please contact your Mirion Technologies representative; for any country not listed, email rees.sales@mirion.com.

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