



Xclude™ Contamination Exclusion

Xclude™ High Humidity Expansion Chamber Breather

*Protection from moisture and particulate
contamination in low-flow, steady-state operations*



Applications

- Totes
- Transformers
- Storage tanks
- Hydraulics

Highlights

- Expansion chamber and internal check-valve system create a nearly sealed system.
- Eliminates rust-forming condensation
- Prevents sludge deposits and water-contaminated oil
- Provides longer oil and filter life
- Reduces wear and tear on equipment, prolongs life



By the Numbers

1—Recessed Check-Valves

High-quality umbrella check-valves that won't clog or stick are recessed underneath the unit for added protection from washdown environments. Check-valves isolate equipment from ambient conditions, prolonging breather life.

2—Expansion Chamber

The diaphragm allows for expansion/contraction of the air within the casing as a result of temperature variations during steady-state operations.

3—Integrated Nylon Standpipe

The integrated standpipe provides excellent vibration resistance and dissipates impact throughout the unit, eliminating weak points. It also allows even airflow distribution throughout the unit, eliminating inaccurate readings of desiccant saturation.

4—Resilient Polycarbonate Body

Shock-absorbing, clear casing provides reliable service and easy maintenance.

5—Filter Element

Polyester filter element removes airborne contamination to 3-micron absolute. Unique loops allow particles to release during system exhalation, helping to increase breather life.

6—Water Adsorbent

Silica gel adsorbs water from incoming air and can hold up to 40% of its weight. Condition is indicated by change of color from blue to light pink.

7—Foam Pad

Foam filter captures any oil mist and disperses incoming air evenly over filtration and drying areas.

8—Threaded Mounting

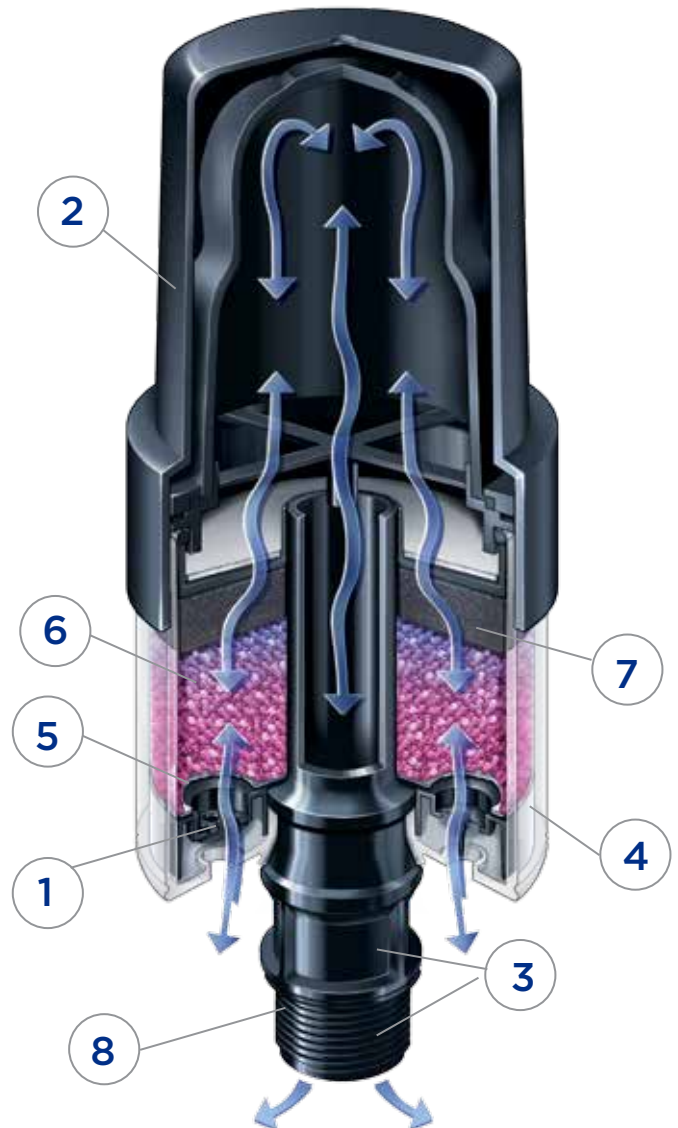
Easily replaces standard filler/breather cap with multi-fit connection or one of several adapters.

How It Works

As wet, contaminated air is drawn through the unit, multiple 3-micron polyester filter elements remove solid particulates while the color-indicating silica gel extracts moisture.

The diaphragm allows for expansion/contraction of the air within the casing as a result of temperature variations during steady-state operations.

When air is expelled from the container, the top foam pad prevents oil mist from contacting silica gel or entering the atmosphere.





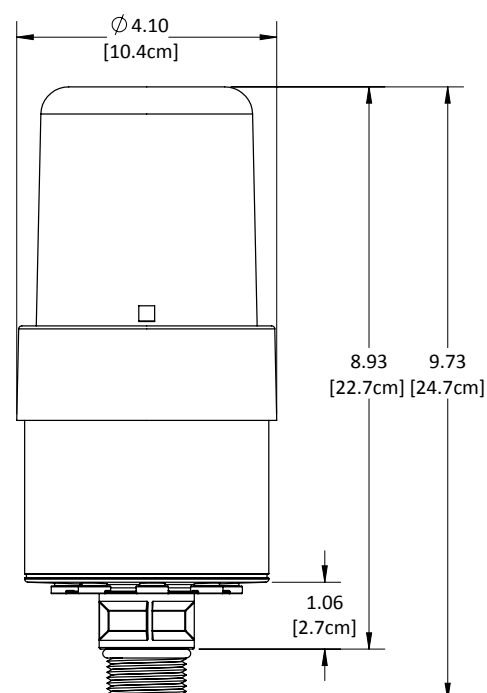
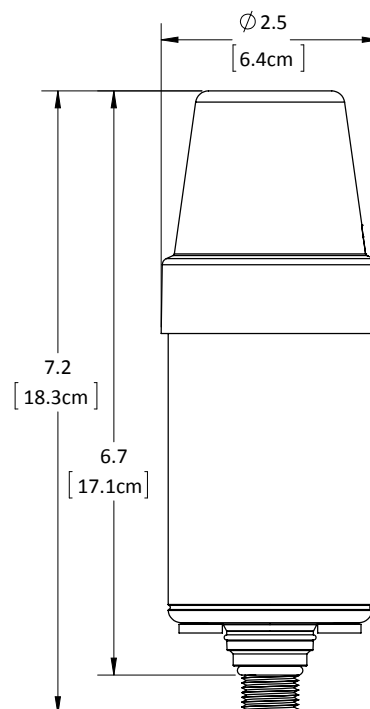
Materials & Components

| | LEXHHEC375-28 | LEXHHEC1-65 |
|--|---|--------------------------------|
| Unit Height | 7.2"/18.3cm | 9.8"/24.8cm |
| Unit Diameter | 2.5"/6.4cm | 4.1"/10.4cm |
| Shipping Weight (unit/case) | 0.58lb/3.75lb 0.26kg/1.7kg | 1.81lb/11lb 0.82kg/4.92kg |
| Amount of Desiccant | 0.28lb/125.1g | 0.65lb/0.24g |
| Max. Adsorption Capacity (fluid oz/ml) | 1.68 fluid oz/49.6ml | 4.05 fluid oz/120ml |
| Max. Air Flow Rate (cfm) | 1.41 @ 1psid | 2.5 @ 1psid |
| Max. Fluid Flow Rate (lpm/gpm) | 39.93/10.575 | 70.5/18.75 |
| Filtration | 3μ absolute | 3μ absolute |
| Operating Temp. Range | -20°F-200°F/ -29°C-93°C | |
| Hydrophilic Agent | Silica gel | |
| Filter Media | Polyester | |
| Connection Size | 3/8" Multi-fit (NPT, BSPP, BSPT) | 1" Multi-fit (NPT, NPSM, BSPT) |
| Expansion Chamber Volume | 1.935in ² | 15.66in ² |
| Body Material | Polycarbonate, Nylon, Polypropylene, Polyester, Polyurethane, Buna-N, PVC | |

Did You Know?

High Humidity Expansion Chamber breathers were specifically designed for steady-state operations with minimal temperature fluctuations. These breathers provide excellent protection in continuous duty applications. For check-valve protection in a variety of operating conditions, try a High Humidity Check Valve Breather instead.

Measurements





Xclude™ is a trademark of Lubrication Engineers, Inc.

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LE operates under an ISO 9001 Certified Quality System.

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