

2ND GENERATION

Auto-Recharging Dehydrating Breathers

INTELLIGENT TECHNOLOGY HELPS KEEP OIL DRY AND TRANSFORMERS FREE FROM CONTAMINANTS

The second generation ARDB uses breather intelligence technology and a bypass valve to automatically schedule regeneration and isolate the transformer from the silica gel. Modular design and high temperature, UV-resistant, anti-corrosive plastic housing allow for use in confined areas.

AUTOMATIC RECHARGE USING INTELLIGENT REGENERATION CONTROL TECHNOLOGY

Keeping the silica gel dry eliminates the need for periodic replacement of the desiccant. Logic controls include a humidity switch, timer and vacuum protection circuit that automatically “learn” to regenerate during transformer exhale only, driving moisture out of the desiccant while keeping the transformer isolated from steam-generated contaminants.

USER-CONTROLLED TIME-BASED SETTINGS

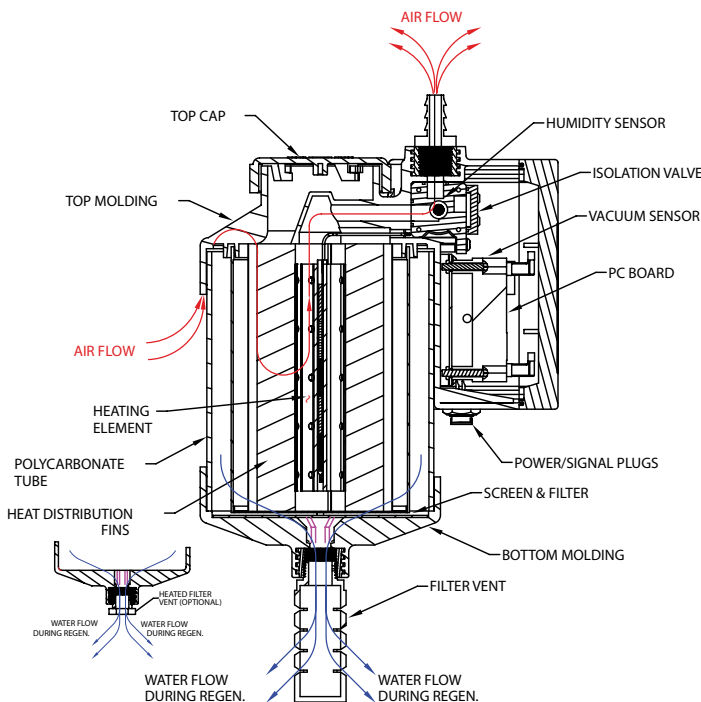
Included timer allows variable time-based settings for user-controlled regeneration of silica gel. Time settings for 5, 10, 20 or 40 day intervals can be set by the customer. Intelligent humidity sensor serves as a back-up to ensure user-based settings are adequate for proper breather operation.

Customer Configurable

SEE BACK SIDE FOR PART NUMBER CONFIGURATION TOOL.



Available in SMALL/8,000 gallon size and LARGE/18,000 gallon size. For increased capacity, multiple ARDB2s may be applied to the same tank. See back side of this brochure for LED indicator colors.



INTEGRATED ALARMS

LED indicators on front cover of control box visually alert user of breather operational status. Relay contacts are also included for remote (SCADA) breather monitoring.

QUICK AND EASY INSTALLATION

Lightweight unit with integrated controls installs easily on as little as a 7"x5" flat mounting surface. Quick-connect power and alarm harnesses included.



OPERATION (DIAGRAM AT LEFT)

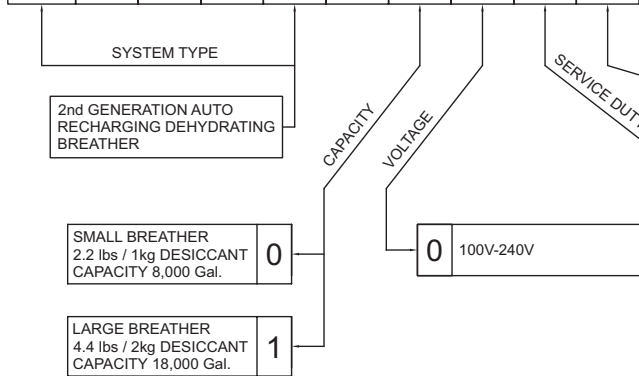
During regeneration, a heating element located inside the ARDB2 assembly heats the partially saturated silica gel, driving moisture out. This moisture condenses on the polycarbonate tube, forming free water, which then flows down the tube and out the bottom vent.

SILICA GEL INFORMATION

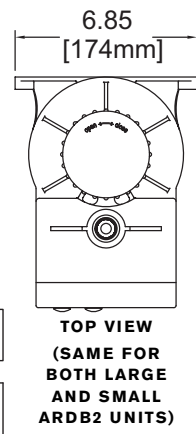
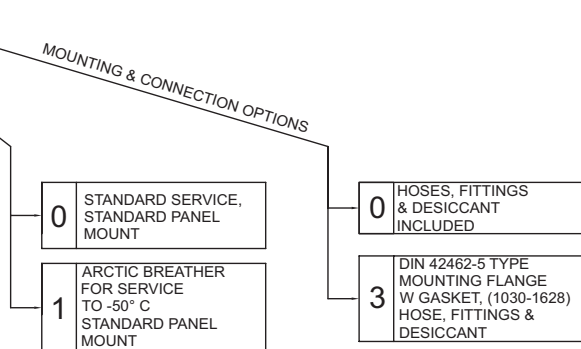
All ARDB2s ship with an environmentally-friendly and enhanced performance silica gel. This desiccant remains orange in color as long as it stays dry and turns clear when saturated.

Build Your Own Part Number Using Configuration Below

ARDB2 - XXXX

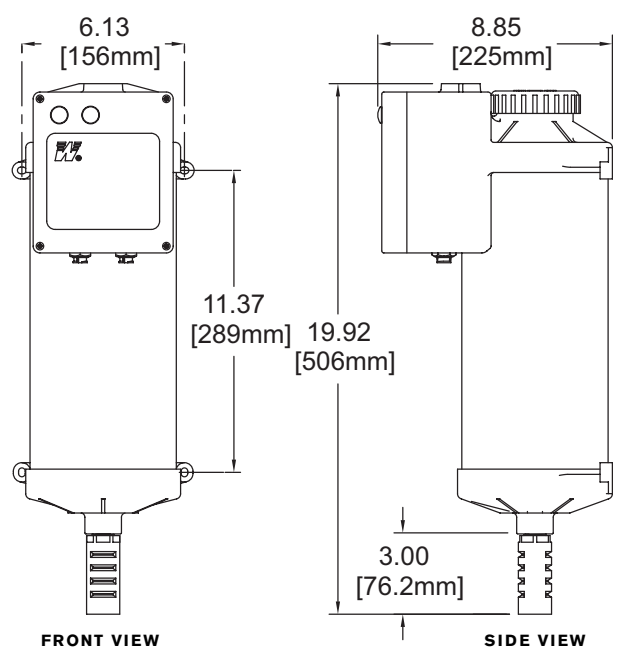


For increased capacity, multiple ARDB2s can be applied to the same tank.



LARGE ARDB2

Oil Volume: 18,000 gallons or less
Amperage: 5.5 amps start-up / 2 amps during operation



NEW! ARCTIC BREATHER

- Fully functional between -50°C and 80°C.
- From 0°C to -50°C, the heated filter vent prevents freezing of the water generated from the regeneration process, allowing complete drainage.
- See models ARDB2-0010 and ARDB2-1010 on the configurator above.

FEATURES — ALL ARDB2 MODELS:

- Corrosion/UV-resistant high temperature plastic housing
- Integrated programmable timer inside housing
- Humidity sensor/switch
- Two position valve allows exhale only during regeneration

ALL FULL KITS INCLUDE THE FOLLOWING:

- Two 3/4 NPT hose barbs (for breather and end use location)
- 16.5 ft of breather hose
- Silica gel/desiccant: 2.2 lbs/1 kg with small breather, 4.4 lbs/2 kg with large breather
- 32.8 ft / 10 m power and signal/alarm connection cables
- 1/4" mounting hardware NOT supplied with kit

POWER REQUIREMENTS: 100-240 VAC, 50/60 Hz

MOUNTING: Panel mounting standard (options available)

LED INDICATORS:

- Solid Green — Normal Operation
- Solid Amber — Regeneration Mode
- Blinking Amber — Humidity Sensor Failure
- Blinking Red — Vacuum Sensor Failure
- Solid Red — Heater Failure

REMOTE MONITORING:

- Power Failure Solenoid
- Valve Relay Failure
- Heater Relay Failure
- Vacuum Switch Failure

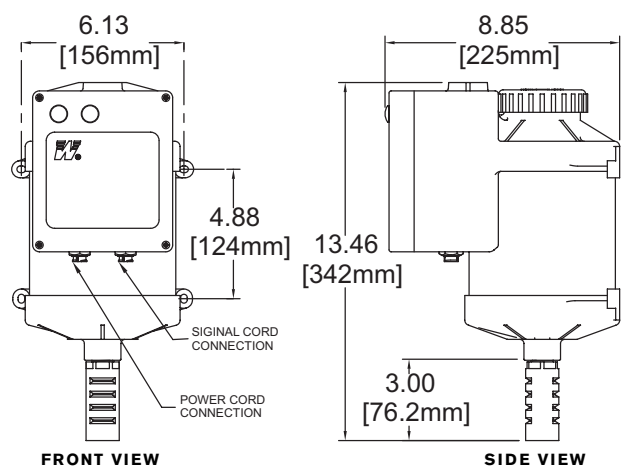
REGENERATION:

- Primary — User adjustable time-based
- Secondary — Humidity sensor with Logic controls

NOTE: Vacuum sensor overrides all regeneration controls.

SMALL ARDB2

Oil Volume: 8,000 gallons or less
Amperage: 5.5 amps start-up / 1 amp during operation



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To continually improve its products and services, SPX Transformer Solutions, Inc. reserves the right to change specifications and features without notice. Please contact us for certified dimensions and drawings.
U.S. Patent Nos. 5,902,381; 6,797,037; 7,285,150 and 7,332,015.