

# Re-Actran Transformer Breathers

AGM Container Controls, Inc.  
3526 E. Fort Lowell Rd. • Tucson, AZ 85716  
Tel: 800-995-5590 • 520-881-2130  
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**Re-Actran**  
**Transformer Breathers with self-regeneration capability**  
**eliminating the need for periodic desiccant replacement**



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## What is Re-Actran?

Re-Actran is a self-regenerating transformer breather that uses the natural and environmental thermal cycle of the Transformer to trigger the reactivation of the desiccant and maintain a high adsorption capacity.

## How does it Work?

An outward flow of air results from the increasing temperature of the transformer. This can be the result of an ambient temperature change, solar heater, or Transformer duty loading. In some circumstances, all three of these stimulation effects will act collectively.

An integral pressure switch detects a change in pressure caused by the outward air flow displacement. This triggers the proportional control thermal heaters and power circuit to manage the reactivation process.



- Low Intermittent Power Consumption
- Long Desiccant Life, 5 Years or Greater
- Minimum Maintenance
- Self-Reactivating
- No Moving Parts
- Simple Installation
- For Power & Distribution Transformers,  
Up to 500 MVA

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## SPECIFICATIONS

### Part Number: BLE7010/01

**Power Consumption:** 3.5 amps (max)  
**Oil Capacity:** Up to 6,604 gal (25,000 liters)  
**Transformer Power Rating:** Up to 30 MVA  
**Pressure Switch Setting:** Adjustable from 0.15 to 0.72 psi (10 to 50 millibars)  
**Desiccant Type:** Non-Indicating Silica Gel  
**Saturation Activity Window:** Humidity Indicator  
**Desiccant Contents:** 8.82 lbs (4.0 kg)  
**Desiccant Adsorption Capacity:** 1.32 lbs (0.6 kg)  
**Air Flow Stimulation (min):** 0.53 gal/min (2 liters/min)  
**Reactivation Control Temperature:** 158-176°F (70-80°C) delta T  
**Max Operating Temperature:** 203°F (95°C)  
**IP Rating:** IP65  
**Gross Weight:** 22.05 lbs (10 kg)  
**Connection:** BS10, Table D, 1" Flange (Includes 3/4" Pipe Thread)  
**Electrical Supply:** 110v - 240v Power Supply  
**Dimensions:** Height: 13.98" (355 mm)  
Diameter: 7.87" (200 mm)

### Part Number: BLE7010/02

**Power Consumption:** 7.0 amps (max)  
**Oil Capacity:** Up to 33,021 gal (125,000 liters)  
**Transformer Power Rating:** Up to 30-500 MVA  
**Pressure Switch Setting:** Adjustable from 0.15 to 0.72 psi (10 to 50 millibars)  
**Desiccant Type:** Non-Indicating Silica Gel  
**Saturation Activity Window:** Humidity Indicator  
**Desiccant Contents:** 17.64 lbs (8.0 kg)  
**Desiccant Adsorption Capacity:** 2.64 lbs (1.2 kg)  
**Air Flow Stimulation (min):** 1.32 gal/min (5 liters/min)  
**Reactivation Control Temperature:** 158-176°F (70-80°C) delta T  
**Max Operating Temperature:** 203°F (95°C)  
**IP Rating:** IP65  
**Gross Weight:** 44.10 lbs (20 kg)  
**Connection:** BS10, Table D, 1" Flange (Includes 3/4" Pipe Thread)  
**Electrical Supply:** 110v - 240v Power Supply  
**Dimensions:** Height: 21.06" (535 mm)  
Diameter: 7.87" (200 mm)

# Re-Actran Transformer Breathers

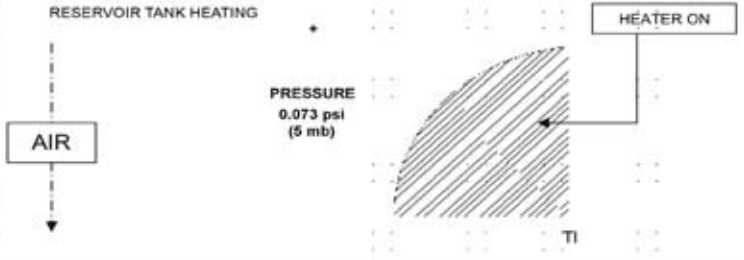
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## STAGES OF OPERATION

### Stage 1

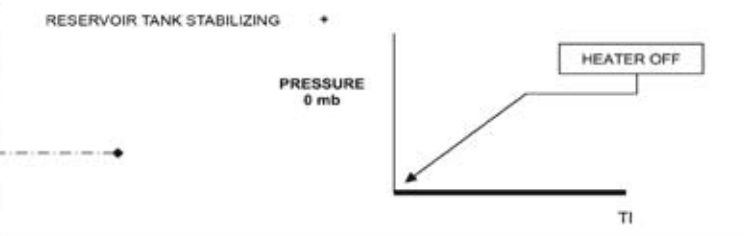
Nominal Power Consumption = 500 Watts

- Air Displaced
- 528 gal/3 hr (2,000 liters/3 hrs)  
2.94 gal/min (11 liters/min)
- Water load = 0.85 oz (24 g)



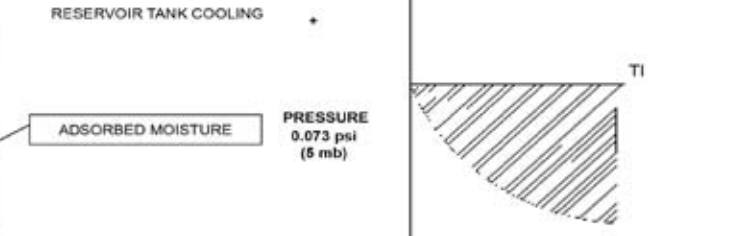
### Stage 2

NO FLOW

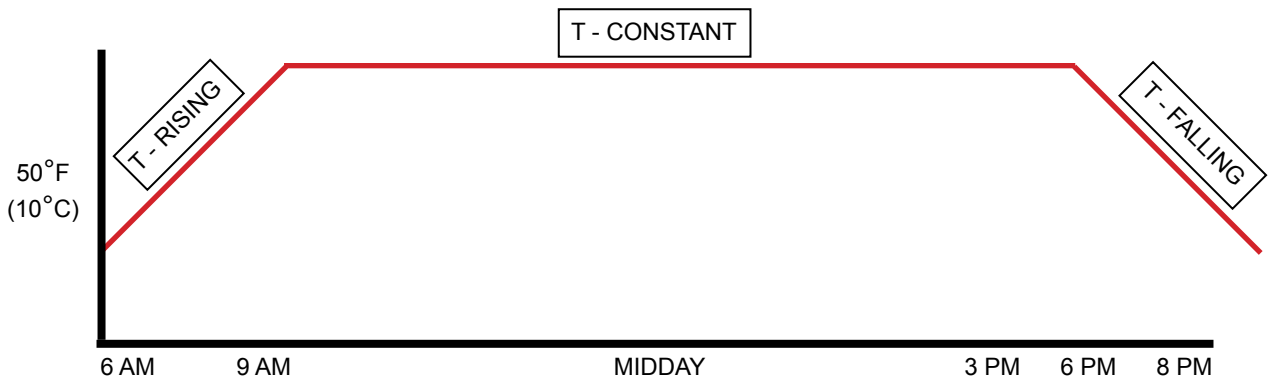


### Stage 3

- 0.004 oz (0.13 g) Water removed/min
- 0.85 oz (24 g) Typical incoming moisture load



## STAGES OF OPERATION - STAGE 3: INLET AIR DRYING



### ENVIRONMENTAL PROFILE (TYPICAL)

STAGE 1 = DESICCANT REACTIVATION  
 STAGE 2 = TEMPERATURE CONSTANT  
 STAGE 3 = AIR INTAKE MOISTURE DRYING