R SERIES TRANSFORMER BREATHERS



Product Description

The 'R' Series Transformer Breathers are manufactured from UV stabilised polycarbonate and are available in three different sizes. The clear polycarbonate body allows for clear visibility of the desiccant charge and enables users to check desiccant condition with ease.

The unit is mounted from a %* female pipe thread connection at the top of the breather. This connection point is also used for filling and emptying the desiccant within the breather. Two-way, low pressure valves are fitted in the base of the breather to ensure that the atmospheric air enters the desiccant when a negative pressure differential occurs within the equipment being protected.

These units are filled with Envirogel, Orange to Green colour changing silica gel, which visually show when the unit needs replacing or refilling. The units can also be supplied with thread adaptors and different fill materials if required.

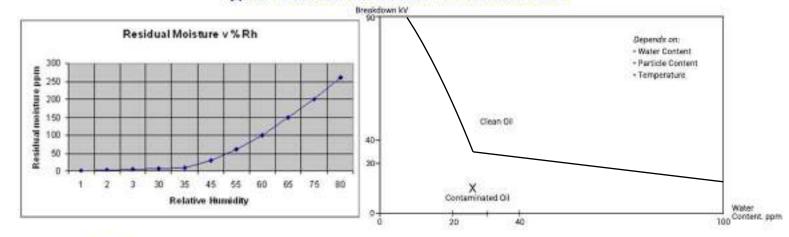
To cater to different requirements, the R series comes in different sizes - R, R1, and R2. The R3 Breather is made up of two R1 Breathers, fully saturating one breather before the other. This model gives handlers more time allowance as they will only need to replace the desiccants when both breathers are fully saturated with moisture.

Industries Served

Power & Refinery



Typical Electrical Breakdown in Transformers



Selection Guide

Туре	Max. Oil Contents (Litres)	Approximate Transformer Rating (MVA)	Max. Air Space Volume (Litres)	Approximate Daily Breathing Rate (Litres)	Max. Air Volume Before Recharge (Litres)	Estimated Effective Cycle Time (Days)
R	1,500	<1.25	230	15	6,000	400
R1	3.000	3	500	30	12,000	400
R2	4,750	6	1,100	55	20,000	400
V	11,350	9	2,400	140	45,450	320
W	22,700	30	4,800	280	90,900	320
X	34,050	60	7,250	420	136,500	320
Y	45,450	100	9,685	570	181,800	320
Z	68,150	180	14,500	840	272,700	320
YY	90,900	240	19,370	1,140	363,600	320
ZZ	136,360	500	29,000	1,680	545,400	320
YYY	136,360	500	29,055	1,700	545,400	320
ZZZ	204,550	750	38,750	2,280	818,100	360

FAQs

Q: Can I fit a Transformer Breather, which has a larger ENVIROGEL capacity than my existing Transformer Breather?

A: Yes, for example you can use a Size R1 Transformer Breather to replace an R type which will drastically increase the time between ENVIROGEL maintenance.

Q: What is the recommended method for disposing of used ENVIROGEL?

A: We suggest that dispose it at a registered landfill site in accordance with local authority regulations.

Q: Are there any specific safety considerations when handling Transformer Breathers and ENVIROGEL?

A: We recommend to take suitable precautions, such as using an approved respiratory mask, when handling ENVIROGEL

Q: How can I reactive saturated ENVIROGEL?

A: Following the safety procedures for handling ENVIROGEL. Heating the ENVIROGEL for 3-4 hours at 95°C will recover 95% of the adsorption capacity.



Key Features

- · High-performance plastic or metal construction
- Simple installation
- · ISO9001/2008 design approved
- · Suitable for 1250 kVA to 750 mVA Transformers
- · Low dusting beaded ENVIROGEL adsorbent
- · Up to 25% adsorption capacity
- · Definitive colour change saturation indication
- · IP65 rating
- Operating temperature range -50°C to +70°C
- · Vandal proof
- · Weather resistant
- · All round visual saturation indicator



Product Specifications

Size	Max. Oil Contents	Weight of Desiccant	Overall Length	Overall Diameter
R	1500 Litres	0.60 Kg	158mm	108mm
R1	3000 Litres	1.20 Kg	250mm	108mm
R2	4750 Litres	1.90 Kg	352mm	108mm

Related Products



Silica Gel



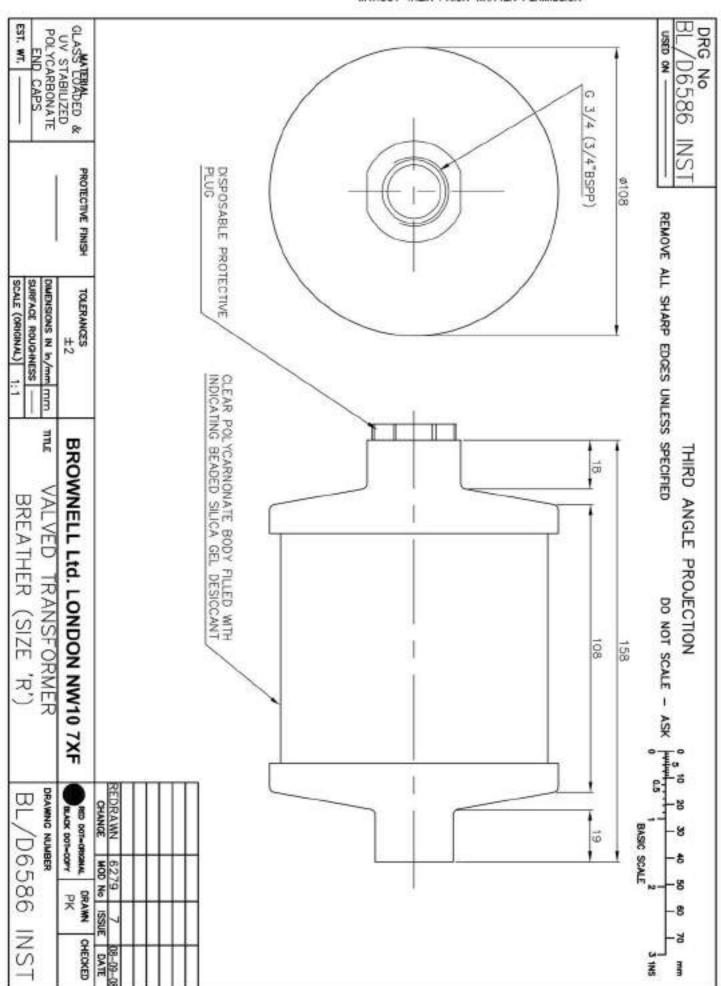
Mark 7 Transformer Breather

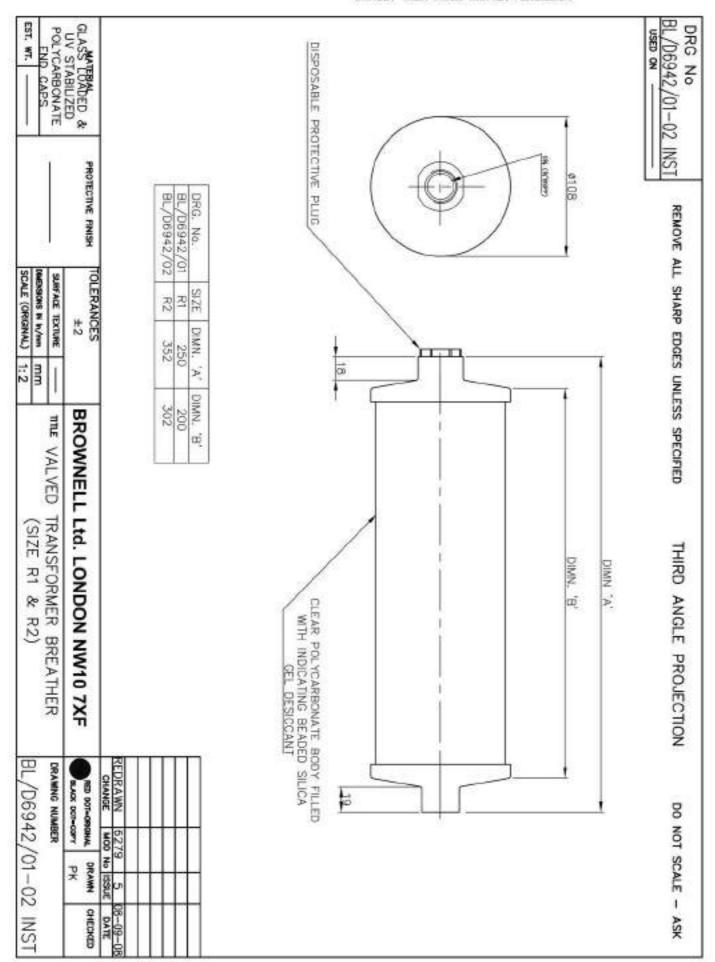


Pipeline Dryers



Adaptors





DRG No REMOVE ALL SHARP EDGES DO NOT SCALE - ASK BL/D11937 UNLESS SPECIFIED USED ON 178,4 THIS DESIGN IS THE PROPERTY OF BROWNELL LTD, AND MAY NOT BE COPIED OR REPRODUCED WITHOUT THEIR PRIOR WRITTEN PERMISSION 151,8 251,8 MATERIAL PROTECTIVE FINISH ORIGINAL 19/12/14 ISSUE CHANGE MOD No EST. WT. THIRD ANGLE PROJECTION ANGULAR DIMS SURFACE TEXTURE LINEAR DIMS DIMS IN mm TOLERANCES : UNLESS OTHERWISE STATED SCALE **BROWNELL LTD** DRAWN CHECKED RED DOT = ORIGINAL BLACK DOT = COPY RB LONDON NW10 7XF TITLE DRAWING No. DOUBLE R1 MANIFOLD BL/D11937