



Part No	Size	Overall Length	Overall Diameter	Weight of Desiccant
BL/D6586	R	158mm	108mm	0.60 kg
BL/D6942/01	R1	260mm	108mm	1.20 kg
BL/D6942/02	R2	362mm	108mm	1.90 kg

Connection: 3/4" Female Pipe Thread conforming to BS21 and ISO7-1.

Desiccant type: Envirogel – self indicating beaded silica gel.

Selection Guide

The following data should be used for the basic selection of a transformer breather.

In order to assess the size of the breather the air volume above the oil in the conservator tank is the most important factor. The quantity of oil and the transformer rating is of secondary importance.

The daily breathing rate is based on the assumption that there are two temperature drops of 8°C per 24 hours. The breathing volume change which occurs during the pump start-up is not taken into consideration.

Size	Max. Oil Contents (Litres)	Approx. Transformer Rating (MVA)	Max. Air Space Volume (Litres)	Approx. Daily Breathing Rate (Litres)	Max. Air Volume before Recharge (Litres)	Approx. Charge Life (Days)
R	1500	<1.25	230	15	6000	400
R1	3000	3	500	30	12000	400
R2	4750	6	1100	55	20000	400

Installation

The breather is supplied with a threaded sealing plug screwed into the top moulding to prevent any water vapour ingress whilst in store. This plug should be removed immediately prior to the unit being fitted to the air vent pipe of the transformer reservoir tank. Fit the breather and tighten using the spanner flats provided at the top of the unit. Maximum torque on threads is 9Nm/80lbf.in.

NOTE: DO NOT ATTEMPT TO SCREW OR UNSCREW THE BREATHER BY HOLDING THE BODY WITH YOUR HANDS, USE A SPANNER ON THE FLATS PROVIDED.

Full installation and maintenance instructions are supplied with each Transformer Breather.



Operation

Periodic inspection should be carried out to monitor the condition of the desiccant charge. The breathers are filled with beaded Envirogel desiccant. This material changes colour from orange to green as it becomes saturated with water vapour. When the colour change reaches the indicator line on the desiccant container it should be recharged with fresh desiccant or the complete assembly should be replaced.

Maintenance

If the breather is not routinely replaced when the desiccant becomes saturated, the only maintenance necessary is to replace the spent desiccant as detailed below.

1. Unscrew the breather from the vent pipe.
 2. Remove the perforated cover in the top moulding and empty the spent desiccant from the container. This material may be disposed of in a normal landfill site.
 3. Fill the container with active orange desiccant, lightly tap the container to settle the desiccant and top up if necessary. Desiccant refills are available from Brownell.
 4. Replace the perforated cover and screw the recharged breather back onto the vent pipe.
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Desiccant Refills

Envirogel refills - Part No. BL/D6331 offers capacities ranging from 0.5 to 50Kg.

This data is supplied for information purposes only and is subject to change without prior notification.

Please contact Brownell Limited for any further information or guidance required.

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Humidity Control and Moisture Protection

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