



Connection: 3/4" Female Pipe Thread conforming to BS21 and ISO7-1.
Desiccant type: Envirogel – self indicating beaded silica gel.

Part No	Size	Dimn 'A'	Dimn 'B'	Weight of Desiccant
BL/D1140/01	S	174mm	127mm	0.45 kg
BL/D1140/02	T	274mm	127mm	0.90 kg
BL/D1140/03	U	474mm	127mm	1.80 kg

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)
S	1130	1.5	285	17.5	7100	400
T	2250	3	570	35	14200	400
U	4500	6	1220	70	28400	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.

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.

Maintenance

The only maintenance necessary to keep the breather in a fully active condition is the replacement of the spent desiccant as detailed below.

1. Loosen the wing nuts on the tie rods until the desiccant container can be removed from between the top and bottom mouldings.
2. Remove the top perforated cover 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 refit the desiccant container between the top and bottom mouldings ensuring that it is fitted between the sealing gaskets.
5. Tighten the wing nuts but be careful not to over tighten as this can distort the mouldings.

NOTE: If it is necessary to replace the complete desiccant container instead of recharging the existing unit, ensure that the self-adhesive aluminium foil vapour barriers are removed from the top and bottom of the container before installation.

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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