



Donaldson Trap Filter

Bulk Tank Breather & Moisture Prevention

Donaldson DFF0078

Filter Breather TRAP 1.5" BSP Male

TRAP Breathers reduce dirt and air-borne moisture (humidity) from entering hydraulic and other fluid reservoirs. With models available for both stationary and mobile applications, they provide faster acting protection and greater capacity than silica gel breathers.

The dual protection TRAP has a self-regenerative outer media that reduces airborne moisture down to 15% relative humidity, while the high capacity inner media is 97% efficient on particles down to 3µm.

Product Description

- ▶ DFF0078 Donaldson Bulk TRAP Breather Assembly
- ▶ Efficient moisture removal
- ▶ Restricts microbial growth
- ▶ Avoids loss of lubricity
- ▶ Inhibits corrosion
- ▶ Includes breather element, mounting assembly, restriction indicator and over-fill check valve.
- ▶ Filter Efficiency @ 97% 3 micron
- ▶ Air flow up to 500LPM, 1 unit per 40,000L of storage, replace every 6 months or when restriction indicator suggests
- ▶ 1 ½" BSP thread fitting
- ▶ T.R.A.P.™ breathers prevent dirt and moisture from entering storage tanks

How a T.R.A.P. Breather works:

Intake Cycle (Inhalation)

1. The circuit "breathes in" air containing moisture vapor.
2. The T.R.A.P. breather strips moisture and particulate from the incoming air, allowing only clean, dry air to enter the circuit.

Outflow Cycle (Exhalation)

3. During the "exhalation" cycle, the T.R.A.P. breather allows unrestricted airflow outward.
4. The outflow of dry air picks up the moisture collected and dries the media.



Compare	T.R.A.P.™ Technology	Desiccant Filters
Service Life	Extended life (expels moisture and refreshes its holding capacity on each cycle).	Shorter life (due to saturation of filtering material), leading to frequent replacement.
Effectiveness	Reacts instantly to conditions in the hydraulic circuit, creating a moisture barrier without impeding airflow.	Requires extended exposure to the air stream before absorption begins. Restricts airflow.
Maintenance costs	Increased service hours.	Reduced service hours.
Technology	Thermally reactive barrier that removes moisture at relative humidity levels as low as 15%.	Absorbent filtering material that loses holding capacity with each cycle.
Filtration	Superior moisture blocking and particulate filtration, down to 3 microns at 97% with up to 7x the media area.	Less effective moisture blocking and particulate filtration with smaller filtration area.
Oil Mist	Built-in coalescing stage.	No oil mist control.
Rugged Design	Effective to -40°C. Robust housing protects media. Because it withstands high vibration, T.R.A.P.™ is suitable for both stationary and mobile applications.	Subject to freezing in winter conditions.

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