

ProVent

Series 39 310 70 550

## Operating Instructions



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## 1. Preface

We reserve the right to make technical modifications to the ProVent and/or modify the content of these operating instructions.

These operating instructions should make it easier for personnel to familiarize themselves with the ProVent and to use it in the various application areas for which it was designed.

The operating instructions contain important information on operating the components safely, correctly and economically. Observing these instructions helps to eliminate danger, reduce repair costs and downtimes and increase the reliability and service life of the MANN products.

The instructions must be made accessible to all personnel working with the ProVent.

Instructions based on existing national regulations for accident prevention and environmental protection should be added to these operating instructions, if necessary (especially instructions on the disposal of removed parts).

In addition to the operating instructions and binding regulations for accident prevention applicable in the country and location of application, approved technical regulations for performing work safely and professionally must also be observed.

Enclosure: Project drawing of system

## 2. Safety

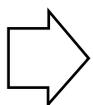
### 2.1 Warning instructions and symbols



All instructions in the operating manual that affect safety are marked with this symbol. Ignoring the symbol may endanger personnel.



All instructions marked with this symbol must be observed closely in order to avoid damage to or the destruction of unit components.



This symbol indicates that special attention must be paid to these instructions in order to ensure trouble-free, economical operation.

### 2.2 Intended use

The ProVent was constructed using state-of-the-art technology in accordance with recognised safety specifications. However, the functional safety of downstream assemblies may be affected if:

- the ProVent is used incorrectly or for a purpose for which it was not intended,
- the operating conditions change,
- conversions are carried out without consultation with the manufacturer,
- necessary maintenance and repair work is not performed.

Use the ProVent only if in perfect condition and in accordance with the respective technical specifications, observing correct procedures regarding safety and danger, and in compliance with the operating instructions. Rectify immediately (or have rectified) all faults, especially if they affect safety.

Intended use also includes observing operating instructions and complying with inspection and maintenance requirements.

The filter manufacturer is **not** liable for dangers caused by the product being filtered. This applies in particular for the processing of hazardous materials. The operator of the ProVent is responsible for providing the necessary, specified safety equipment.

### 2.3 Operational safety

All modes of operation that may affect operational safety of the ProVent must be avoided.

Independent conversions or modifications to the ProVent are not permitted under any circumstances. **Furthermore, the manufacturer's warranty would immediately become invalid.**

All labelling and identification marks on the ProVent must be legible at all times.

## 3. Description

The ProVent is a closed crankcase ventilation system and essentially consists of a housing with an integral pressure control valve, a cover with a bypass valve, an oil separator and a support.

## 4. Installation

The ProVent can be positioned in the support at twelve increments of 30° and at four height settings.

- Open fixing.
- Move ProVent to required position.
- Close fixing.
- Mount bracket fitted to the ProVent vertically.  
Tightening torque:  $9 \pm 2$  Nm.
- Attach hose lines at inlet, outlet and oil return connectors and secure using hose clamps.

## 5. Maintenance



Only carry out maintenance work when the motor is switched off. Never start without an oil separator and/or cover.

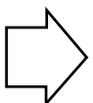


Danger of burns from hot air that may escape. Housing, cover and hoses can become very hot.

The maintenance of the ProVent essentially involves replacing the oil separator.

To guarantee safe operation, the ProVent should be protected from dirt (by fitting splash guards).

Check the ProVent regularly for damage and external soiling.



High-pressure cleaners may not be used, as the valves may be damaged and water may enter the oil circuit.

### 5.1. Maintenance intervals

The oil separator must be replaced in accordance with specifications from the device manufacturer or after 1000 operating hours at the latest.



Maintenance intervals may need to be shortened depending on the operating conditions. In normal mode, if the O-ring is intact and oil leaks through the bypass valve (item 2, project drawing), this indicates that the oil separator is worn and must be replaced immediately.

### 5.2. Removing the oil separator

- Rotate the cover approx. half a turn anticlockwise and remove. Should the cover be difficult to move, a tool (e.g. screwdriver) can be used to help turn the cover (see project drawing).
- Pull the oil separator upwards to remove and dispose of as per local waste regulations.

### 5.3. Assembly

- Clean housing, cover, O-ring (item 2, project drawing) and sealing surfaces.



Check O-ring for damage and rub in a small amount of engine oil. Replace damaged or permanently deformed O-rings.

- Slide the new oil separator into the housing with a new, slightly oiled O-ring.
- Put on the cover and turn clockwise until it latches into place.

## 6. Technical data / Spare parts list

See project drawing

