



MANN+HUMMEL ProVent

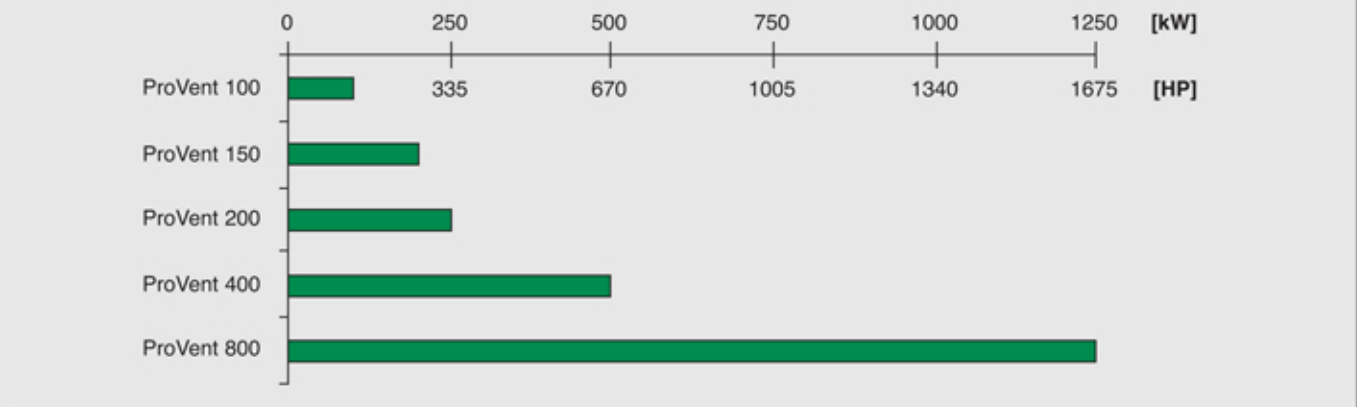
Oil separator for closed and open crankcase ventilation



ProVent – high performance with distinct advantages

- The development of the whole MANN+HUMMEL ProVent product family was directed towards the newest generation of industrial diesel engines. ProVent sets the standard for crankcase ventilation and offers important advantages:

 - Highly efficient oil separation through high performance media
 - Excellent protection for the turbocharger and components fitted downstream
 - Integrated safety feature against irregularly high crankcase pressure
 - Low installation height to oil level possible through low pressure drop
- Lower engine oil consumption in comparison to less efficient separators or to conventional open systems without an oil separator
 - Easy to service through quick access and protection against incorrect insertion of replacement element
 - Suitable for universal use with different flow rates
 - Excellent flexibility for choice of installation position and ports
- Compact and light design, but robust
 - No auxiliary power required
 - Extremely reliable, also at low temperatures
 - Very low running costs
 - All ProVent products are suitable for use with open or closed crankcase ventilation



ProVent 200

The ProVent 200 is a compact crankcase ventilation system for engines up to 250 kW and is characterised by the following advantages:

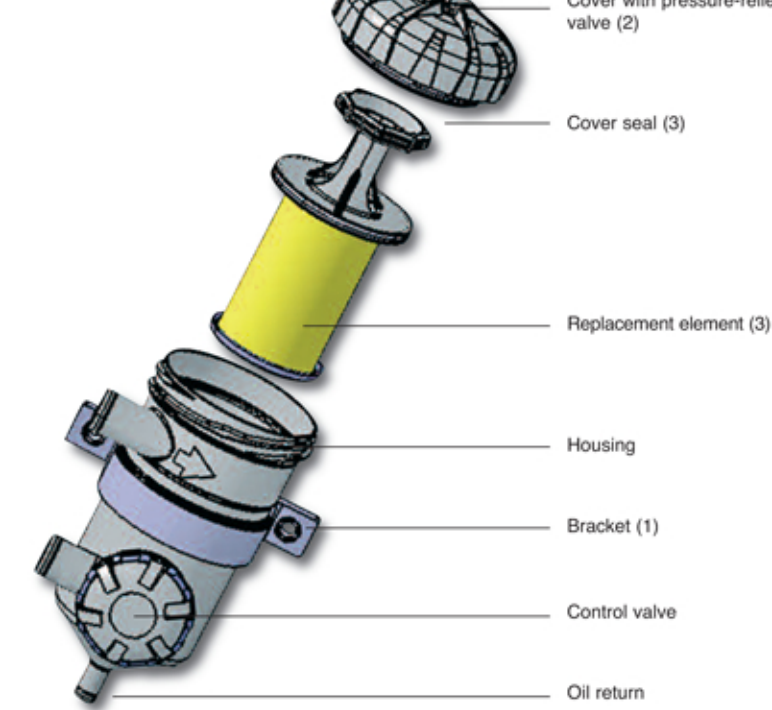
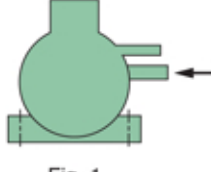
- Up to 200 l/min blow-by gas
- Very compact design
- Available with high-efficiency or ultra-efficiency medium
- Integrated pressure regulation for crankcase
- Also available with by-pass valve (integrated in separation element)



- Tool-free element replacement with protection against incorrect insertion through turn-lock mechanism and element with integrated handle
- Suitable for use with open or closed CCV system
- Use of two ProVent 200 in parallel possible
- Check valve for oil return available (recommended)

Part No. ProVent with pressure-relief valve	Fig.	Blow-by inlet housing	MANN-FILTER replacement element		
			HE*	UE**	HE/UE each with by-pass valve
39 310 70 550	1	Fixed position for inlet and outlet adjustable bracket	LC 5001 X	LC 5002 X	on request

* HE = High-efficiency medium
** UE = Ultra-efficiency medium

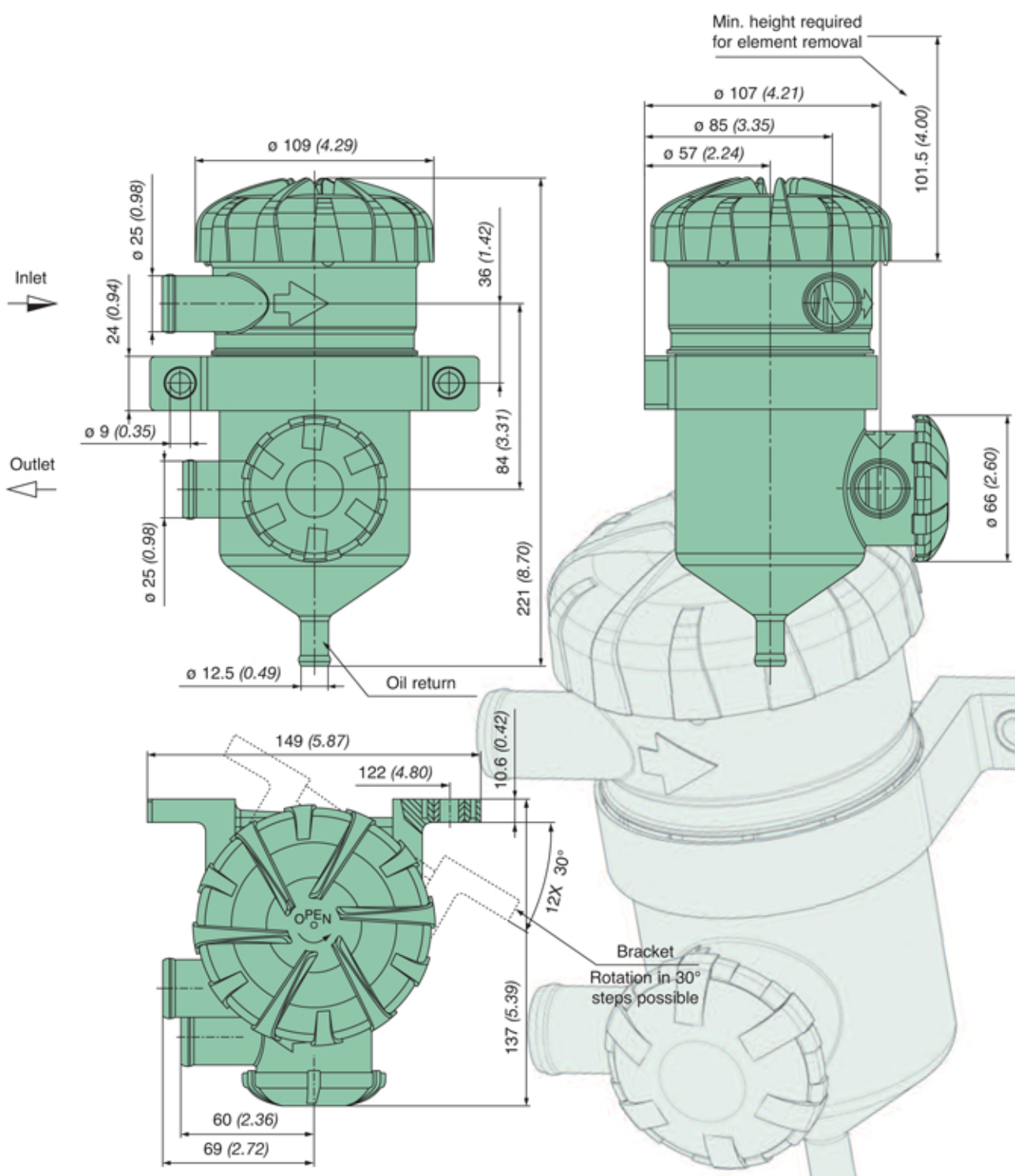


ProVent 200 spare parts list

	Part No.	Art.	Quantity
Bracket	39 310 30 955	1	1
Cover	39 310 17 950	2	1
Replacement element HE	LC 5001 X ***	3	1
Replacement element UE	LC 5002 X ***	3	1

*** Sealing element for cover supplied

ProVent 200 – Specifications



Standard value for use of ProVent	single unit *	up to 250 kW
Blow-by flow rate		max. 200 l/min
Installation position		vertical
Allowed tilt position of vertical axis		45° in all directions
Positioning	Inlet Outlet	12 positions, further positions on request
Ambient temperature		-35 °C to 120 °C, for a short time to 140 °C
Screw mounting to engine block		2 x M8
Material	Housing Cover Bracket	PA GF
Resistant against		diesel fuel, engine oil, lube oil, cleaning agents

* Use of two ProVent of the same type in parallel possible