

## Presents

# MANN+HUMMEL Centrifuges

*The Oil-cleaning Power of Mann + Hummel  
Centrifuges – Now with Higher Efficiency*

Introducing the Mann + Hummel 050P centrifuge: the compact, high-efficiency centrifuge unit with a maintenance-free replaceable rotor. The 050P brings the most effective bypass oil conditioning to today's transport & industrial engines.

### High Efficiency

As with all Mann + Hummel centrifuges, the 050P is powered by normal engine oil pressure. However, the 050P centrifuge features a lightweight thermoplastic rotor and innovative high-speed bearing system. This allows it to generate centrifugal force over 2,000 times greater than gravity and capable of over 9000 RPM.

The efficiency of the 050P makes it highly effective at not only removing large particles, but also soot and other fine contaminants as small as one-tenth of one micron. By maintaining ultra-clean oil, the 050P protects against critical engine component wear, extends engine and oil life and maximizes your return on investment, even in the most demanding applications.

### Convenient Disposable Rotors

Manufactured from engineered thermoplastic, the 050P rotor is designed for ease of service. The single-use, disposable rotor is simply removed and replaced at each service interval. A used 050P rotor may be disposed of as you would ordinary full-flow oil filters, or it may be drained and thrown in the standard rubbish bin.

### Advantages of the Mann + Hummel 050P

- Efficient removal of abrasive soot and fine particulates
- Substantially reduces long-term engine wear
- Can safely extend oil change intervals
- Reduces centrifuge service time, takes less than 2 minutes and no dirty hands.

### Proven Technology

New Mann + Hummel 050P centrifuges incorporate the proven centrifugal filtration technology being used on more than a million engines, endorsed by over 65 OEM and trusted by equipment fleets worldwide.

*New Mann + Hummel 050P centrifuges – oil-cleaning power and advanced protection for virtually any diesel or gas engine - or machinery oil sumps.*



Accumulated debris removed from the oil stream that has not been collected by the full flow filters



Cross-section of a 050P rotor after a routine service interval



**ENGINE  
CARE  
SYSTEMS**  
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#### AUSTRALIA

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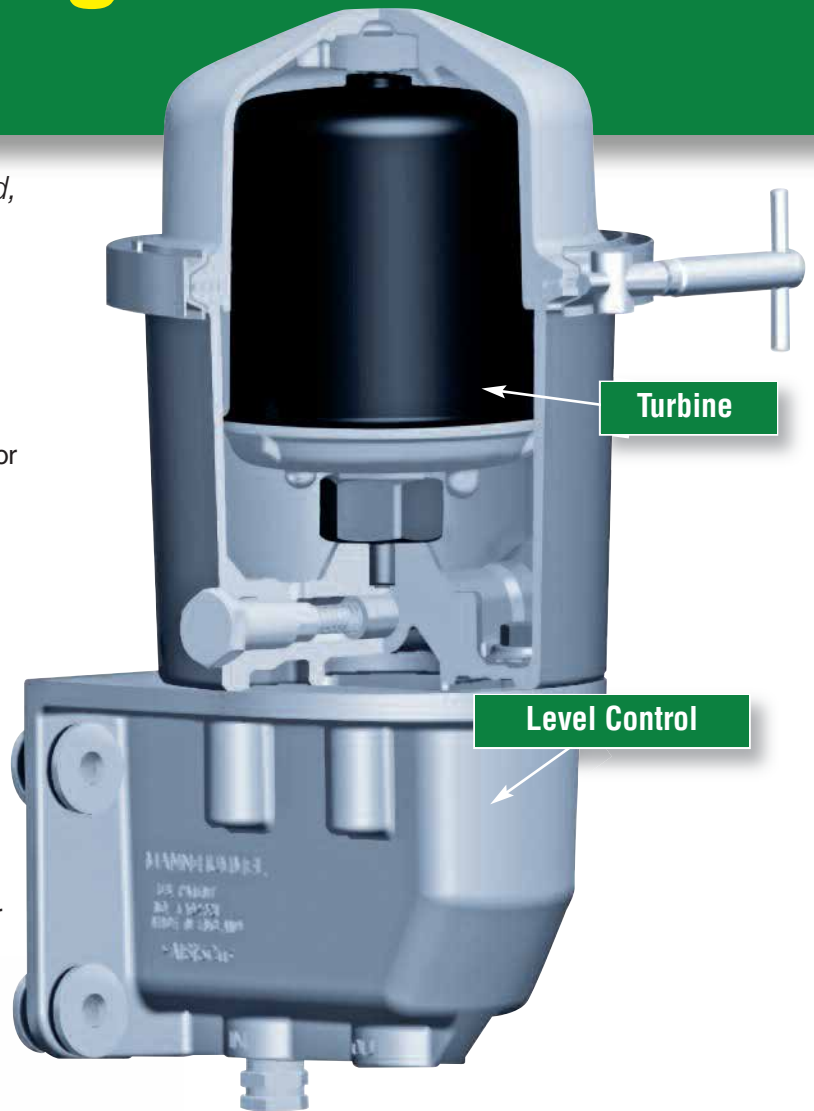
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# MANN+HUMMEL 050P Centrifuges: Designed for High Performance

A Mann + Hummel centrifuge is self-powered, using engine oil pressure that can generate speeds over 9,000 rpm. A portion of high pressure oil is diverted to the 050P from the engines own oil full-flow system.

- 1 Oil enters the rotor under engine pressure, opens a low pressure cut off valve before pressurising the rotor
- 2 Centrifugal force over 2,000 times greater than gravity separates contaminant particles from the oil.
- 3 Abrasive contaminants accumulate on the inside of the disposable rotor surface.
- 4 Cleaned oil exits from tangentially opposed, twin propulsion nozzles.
- 5 Oil returns to the crankcase from the air assisted Level Control Base, which maintains proper oil flow for speed and efficiency. Turbo air pressure can be used to return oil if no compressor available on your engine.



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