



MANN+HUMMEL Air Cleaners

PicoFlex® : an intelligent solution

The new PicoFlex® air cleaner developed by MANN+HUMMEL meets the current and future requirements for greater air throughput with simultaneously less installation space and offers the ideal solution for demanding applications.

Advantages at a glance:

- Oval design allows easy use in extremely tight installation positions
- Inline air flow enables a space-saving installation concept
- High filtration performance
- Easy element change without impractical hinge system
- Version as two-stage air cleaner with long service life or as single-stage air cleaner with low initial pressure drop

Further information is available in the MANN+HUMMEL brochure PicoFlex®-V and PicoFlex®-S (Order No. W9 941 21 101) and in the MANN+HUMMEL catalogue for Air Cleaners (Order No. 19 941 10 101).

PicoFlex®-S **Single-stage air cleaner**

PicoFlex®-S is a single-stage air cleaner, with the suffix S standing for "single stage". The PicoFlex®-S can be used in all applications where the pressure drop in the filtration system has to be minimised, e.g. in compressors.

PicoFlex®-S



Design	Single-stage plastic air cleaner (PicoFlex®-S) Two-stage plastic air cleaner (PicoFlex®-V)
Volumetric flow range	4 m³/min to 10 m³/min (PicoFlex®-S) 4.5 m³/min to 7 m³/min (PicoFlex®-V)
Operating temperature	Continuous: -30 °C to +100 °C, for short periods: +120 °C
Pre-separation	Multi-cyclone block (just PicoFlex®-V)
Main element	CompacPlus® element, radial seal – metal-free
Secondary element	Flat element with frame, radial seal – metal-free
Selection criteria	Very long service life for arduous conditions
Typical applications	Construction and agricultural machines with limited installation space and the highest requirements such as loaders, tractors and mobile and stationary compressors.

PicoFlex®-V **Two-stage air cleaner**

The PicoFlex®-V is a two-stage air cleaner, with the suffix V standing for a two-stage air cleaner with dust discharge via a valve.

PicoFlex®-V



NLG: flexible – robust – economical

The new NLG line from MANN+HUMMEL offers a flexible and economic solution for many varied applications in the field of intake air filtration.

Advantages at a glance:

- High flexibility through variable modular system
- Economic air cleaner system through modular design
- Easy element change without tools
- Corrosion-free and robust housing through use of plastic reinforced with fibre-glass
- The Piclon version with integrated dust pre-separation can also be used with medium to heavy dust loads.

Further information is available in the MANN+HUMMEL catalogue for Air Cleaners (Order No. 19 941 10 101).

NLG Pico Single-stage air cleaner

Design	Single-stage plastic air cleaner
Volumetric flow range	10 m ³ /min to 50 m ³ /min
Operating temperature	Continuous: -40 °C to +80 °C for short periods: +100 °C
Main element	Star-pleated element with centre tube, radial seal, metal-free
Secondary element	Synthetic fabric element with centre tube, radial seal, metal-free
Selection criteria	Low pressure drop and highly economical with low dust loads
Typical applications	Trucks, mobile cranes, buses, stationary compressors, generators



NLG Piclon Two-stage air cleaners with integrated pre-separation

Design	Two-stage plastic air cleaner
Volumetric flow range	10 m ³ /min to 40 m ³ /min
Operating temperature	Continuous: -40 °C to +80 °C for short periods: +100 °C
Pre-separation	Vane to generate air spin
Main element	Star-pleated element with centre tube, radial seal, metal-free
Secondary element	Synthetic fabric element with centre tube, radial seal, metal-free
Selection criteria	Highly economical with medium dust loads
Typical applications	Mobile compressors, mobile cranes, construction site trucks, construction and agricultural machines



Europiclon® : the flexible allrounder

The Europiclon® from MANN+HUMMEL is characterised by its high dust capacity and low pressure drop.

These characteristics have made the Europiclon® the tried and tested air cleaner for all machines and equipment used in conditions with

medium to heavy dust loads. These include construction and agricultural machines, mobile compressors and harvesting machines.

Advantages at a glance:

- Long service life through integrated pre-separation
- Highly economical through modular system
- Extensive range of accessories
- Corrosion free housing in impact resistant plastic
- Easy element change without tools
- Highest operational reliability through elements with proven radial seal
- Metal-free filter elements are easily disposed of by incineration and therefore are environmentally friendly with inexpensive disposal
- Easy adaptation to other equipment with a flexible bracket system
- Patented filter elements



Design	Two-stage plastic air cleaner
Volumetric flow range	0.8 m³/min to 28 m³/min
Operating temperature	Continuous: -40 °C to +80 °C, for short periods: +100 °C
Pre-separation	Tangential inlet
Main element	Star-pleated element, centre tube in the housing, radial
Secondary element	Synthetic fabric element with centre tube, radial seal, metal-free
Selection criteria	Flexibility and economy with longer service life
Typical applications	Construction and agricultural machines, mobile compressors

Inline Piclon: Two-stage air cleaner with plastic housing

This two-stage air cleaner from MANN+HUMMEL with integrated pre-separation is available in three sizes. The Inline Piclon is particularly suited for use in medium dust conditions and for use with engines and compressors with pulsating intake air.

Advantages at a glance:

- Linear air flow
- Compact design
- Economical air cleaner system with integrated bracket
- Easy element change without tools
- Corrosion-free and robust housing through use of recyclable plastic
- Threaded inserts integrated in housing enable quick first-fit on vehicle



Design	Two-stage plastic air cleaner
Volumetric flow range	3 m³/min to 8 m³/min
Operating temperature	Continuous: -40 °C to +80 °C, for short periods: +100°C
Pre-separation	Vane to generate air spin
Main element	Star-pleated element with centre tube, axial seal, reinforced with metal
Secondary element	Synthetic fabric element with centre tube, axial seal, reinforced with metal
Selection criteria	Linear air flow when fitting to engine and medium dust loads
Typical applications	General mechanical engineering and vehicle construction

Piclon: Two-stage air cleaner with metal housing

The Piclon line from MANN+HUMMEL, with its proven two-stage air cleaners, has long been established in our range of air cleaners.

The air cleaners are particularly robust, have very good filtration characteristics and are excellently suited for use in very dusty conditions with high mechanical loads, e.g.

in construction and agricultural machines. But you will also find these filters at work in quarries, cement plants and mines. They are also used in applications which specify a flame-resistant housing.

Advantages at a glance:

- Especially robust metal design
- Long filter service life with low pressure drop
- Particularly robust filter elements with centre tubes in metal
- Different versions available for the dust discharge
- Secondary element available as optional extra



Design	Two-stage metal air cleaner
Volumetric flow range	2 m³/min to 60 m³/min
Operating temperature	Continuous: -40 °C to +100 °C, for short periods: +120 °C
Pre-separation	Vane to generate air spin
Main element	Star-pleated element with centre tube, axial seal, reinforced with metal
Secondary element	Synthetic fabric element with centre tube, axial seal, reinforced with metal
Selection criteria	Long service life with very high mechanical stress on the housing
Typical applications	Construction and agricultural machines, engine construction

Pico-E: single-stage air cleaner with metal housing

The Pico-E line from MANN+HUMMEL, with its proven single-stage air cleaners, has long been established in our range of air cleaners.

The air cleaners are particularly robust and are characterised by excellent filtration performance. They are very suitable for use in conditions

with low to medium dust loads and for applications with high mechanical loads such as with stationary engines, locomotives, fire-fighting vehicles, marine applications and other applications where a low pressure drop, particularly high mechanical stability, or a flame-resistant housing are required.

Advantages at a glance:

- Very robust metal design
- Long filter service life with low pressure drop
- Especially robust filter elements with centre tubes in metal
- Secondary element available as optional extra



Design	Single-stage metal air cleaner
Volumetric flow range	3 m³/min to 60 m³/min
Operating temperature	Continuous: -40 °C to +100 °C, for short periods: +120 °C
Main element	Star-pleated element with centre tube, axial seal, reinforced with metal
Secondary element	Synthetic fabric element with centre tube, axial seal, reinforced with metal
Selection criteria	Low pressure drop with very high mechanical stress on the housing
Typical applications	Compressors, generators

Picolino: compact air cleaner for high requirements

The Picolino line from MANN+HUMMEL offers exceptional filtration in a compact installation space with excellent flexibility. The Picolino line is available with a number of different connections to enable it to adapt to different applications.



Advantages at a glance:

- Excellent flexibility through variable modular system
- Economical air cleaner system through combination of standard parts
- Easy element change without tools
- Corrosion-free and robust housing through use of plastic reinforced with fibre-glass
- Temperature resistant to +130 °C (for short periods)
- Material with high temperature stability available for adapters on request
- Quick response to customised filtration solutions
- Metal-free filter elements are easily disposed of by incineration and therefore are environmentally friendly with inexpensive disposal
- Patented filter elements with radial seal

Design	Single-stage plastic air cleaner
Volumetric flow range	0.15 m ³ /min to 3.2 m ³ /min
Operating temperature	Continuous: -30 °C to +100 °C, for short periods: +120 °C
Filter element	Star-pleated element, radial seal, metal-free
Typical applications	Filters for two-way ventilation, small engines, small piston compressors, general mechanical engineering

Picolight: single-stage air cleaner without housing

The metal-free air cleaners of the Picolight line from MANN+HUMMEL are characterised by an especially low-weight and compact design. We particularly recommend these air cleaners for use in stationary applications with low dust loads such as generators, compressors, marine engines, etc.

Advantages at a glance:

- Low pressure drop
- Very economical
- Compact design
- Metal-free design
- Excellent filtration performance



Design	Single-stage air cleaner without housing
Volumetric flow range	1 m ³ /min to 100 m ³ /min
Operating temperature	Continuous: -30 °C to +80 °C, for short periods: +100 °C
Filterelement	Star-pleated element, radial seal, metal-free
Typical applications	Stationary compressors, gen-erators, marine applications

Vacuum air cleaners

The airtight vacuum air cleaners from MANN+HUMMEL are designed for installation in air and gas pipes. They are airtight up to 1000 mbar negative pressure and equipped with a filter element. They are also used as intake filters in vacuum pumps.

Advantages at a glance:

- Reliable sealing
- Compact design
- Robust metal design
- Different connections are available
- Excellent filtration performance



Design

Volumetric flow range

Operating temperature

Filterelement

Typical applications

Single-stage metal air cleaner

0.7 m³/min to 12 m³/min

Continuous: -30 °C to +80 °C, for short periods: +100 °C

Star-pleated element with centre tube, axial seal, reinforced with metal

Air and gas pipes with negative pressure (vacuum pumps)

Further information is available in the MANN+HUMMEL catalogue for Air Cleaners (Order No. 19 941 10 101).



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