



Be prepared for a long run  
of your equipment 

**TOPLUFT**

**TOPOEL**

**TOPTTEST**

**TOPFLUID**

**TOPDRY**

**TOPCLEAN**

## With us engines last longer!

In 1992 the company Dipl. Ing. (FH) Neffgen GmbH was founded in order to market the products air filter pre-separators, but also filter systems for the extension of change intervals in commercial vehicles and construction machinery. The pre-cleaner known since 1992 have been sold under the new brand name TOP-LUFT since 2017. The well-known and proven service will continue to be guaranteed under the changed brand name. With our companies in Chile, Brazil, Colombia, we guarantee global support. Our sales partners have been working with us for more than two decades.

Therefore we are a guarantee of continuity. Decades of experience and technical understanding enable us, as the only supplier in Europe, to develop and offer special solutions for machine protection. In addition, the Dipl. Ing. (FH) Neffgen GmbH offers special filtrations like bypass flow micro filter systems to improve the oil quality in hydraulics, but also in engine oil areas. The filter systems are available for all engine sizes, but also for hydraulic systems. The filter elements required for this are developed and produced in-house.

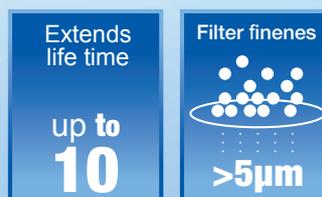
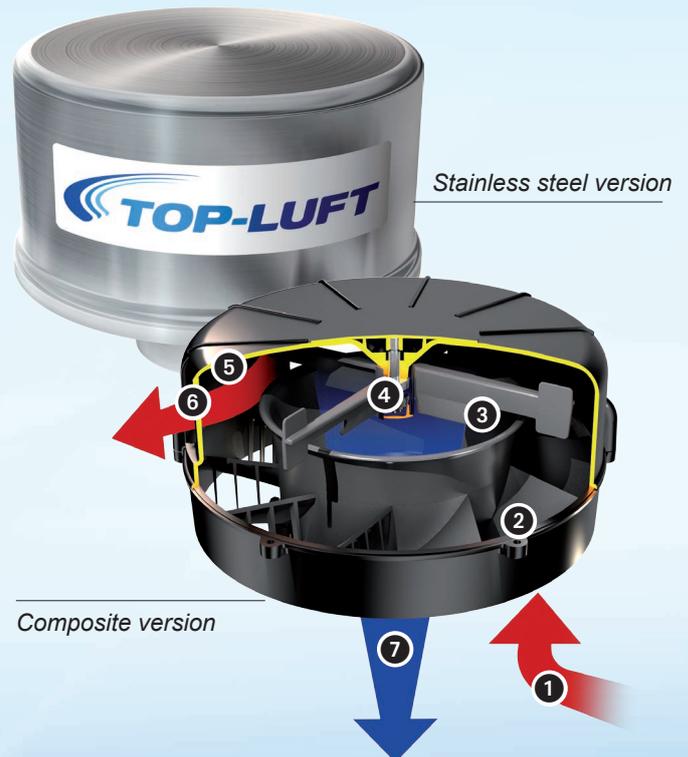


## Reduce wear – effectively.

### Extends the service time of the air filter cartridge up to ten times

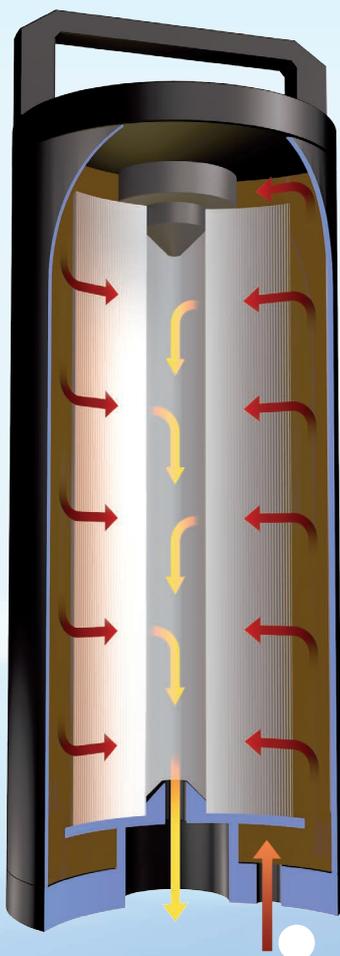
The air sucked in by the engine (1) drives the rotor of the TOP-LUFT precleaner. The louvers (2) are directing the air flow onto the dust-tight encapsulated rotor (3). This has double ball bearings (4) and reaches a speed of up to 5000 rpm. Due to the centrifugal force and the suction vacuum, the contamination is thrown outwards, migrates along the inside of the hood (5) and is ejected through the side ejection opening (6). The cleaned air is fed to the engine (7).

- Reduces wear, maintenance costs, fuel consumption, oil consumption
- Avoids costly downtime
- Low overall height
- Can be installed in any position (even upside down)
- Available in sizes up to 9 inches
- Short payback period
- Because of its robust construction, also suited for extreme loads
- Separation rate of up to 98% of all particles down to 5 µm (5/1000 mm)
- Guarantee: 4 years hood and 2 years in bearings



Version	Type	Air intake Ø	Volume
Stainless steel	TL-20 bis TL-80	2,0" - 8,0"	1,4 - 44,8 m³/min
Aluminium-Guss	TL-200 bis TL 990	2,0" - 9,0"	0,6 - 56,5 m³/min
Composite	TL-1,5/20 bis TL-6/1100	1,5" - 6,0"	0,08 - 24,1 m³/min
Composite	with integrated Screen	1,5" - 10,0"	0,9 - 56 m³/min

# Protect your engine from contaminated oil



### Function of the bypass microfiltration

- Micro-filtration is the removal of particles from motor oil that are smaller than 5 microns (5/1000 mm).
- The oil pump supplies more motor oil than the motor needs. A small amount (0.3-1 l/min) is removed continually from this excess oil and directed to the **TOPOEL®** motor oil micro-filter housing.
- More than 90% of all oil changes are done because the oil is contaminated with particles (soot, dirt, rust, contamination) .
- Particles that are smaller than 10 microns have a negative effect on the oil quality
- The standard filter only removes particles > 20 microns.
- In addition, these particles cause physical and chemical changes in the oil.



Artikel Nr.	Type	Application
10-60050	TO 03	for PKW
10-60055	TO 05	for small Trucks
10-70100	TO 08	up to 10 l Motoroil
10-80200	TO 15	up to 20 l Motoroil
10-90300	TO 26	more than 20 l motoroil





## TOPTEST

**Quicktest: Check the conditions of the motoroil.**

The QTM-701 is an electronic measuring device for checking the physical and electronic changes of lubricants (unalloyed as well as heavy duty oils) for combustion motors, as well as gearbox and hydraulic oils..

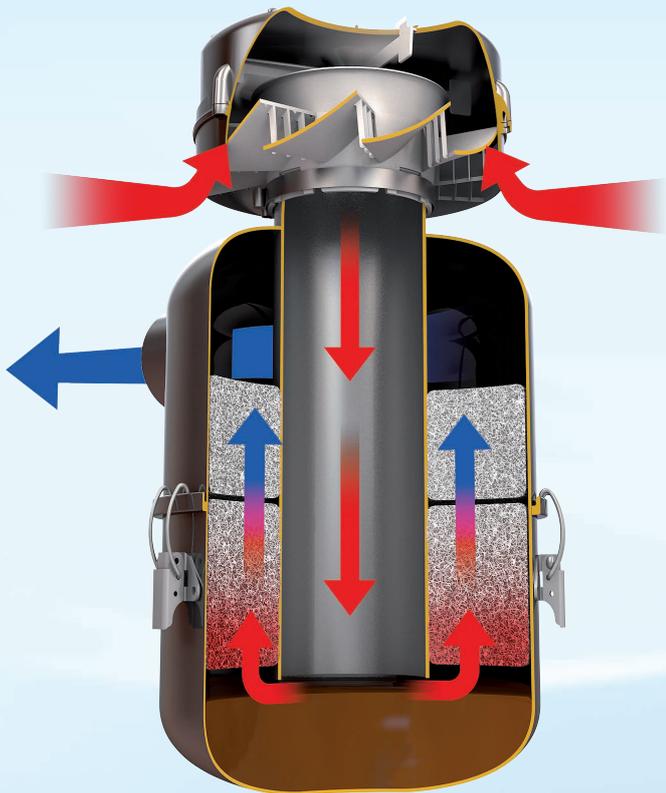


Installation kit for TOPOEL



with precleaner

### Problems with heavy dust? We have the solution



#### Oilbathfilter combined with TOP-LUFT® precleaner

- Savings on airfilter
- Reduces engine wear
- Reduces maintenance costs
- Avoids costly downtime
- Short payback time
- Stable construction for extreme conditions
- Filtrationrate ca. 99 % of all particles bigger than 1micron (1/1000 mm)
- Version: Heavy dust protection



Article No.	m <sup>3</sup> /min	Air intake Ømm
84-60006	3,0	57
84-60007	4,0	57
84-60008	5,5	65
84-60009	8,0	93
84-60010	10,0	93
84-60011	12,0	114
84-60012	bis 24,0	127
84-60013	bis 28,5	127



# TOPSERVICE

Heavy dust

## Extrem dust? Best combination



As the only supplier in Europe, our special emphasis on the support of companies that have major challenges with problems caused by dust. This includes not only delivery, but also personal, competent advice to customers on site. For this purpose, the complete protection of the machine has been standardized under the designation "Heavy dust protection". That means that not just the air intake side is

is protected individually, but the aggregate is viewed and protected as a whole. Our many years of experience from the dusty copper mines in the highlands of the Andes to the hectic logistics centers of Central Europe reduce the technology of Dipl. Ing. (FH) NEFFGEN GmbH, machine failures and increase profitability in production.



### FULL PERFORMANCE WITH LOW PRESSURE DROP



**Airfilter with integrated TOP-LUFT<sup>®</sup> precleaner. VLR<sup>®</sup>: Very low restriction**

- 1 Contaminated air enters here
- 2 Dynamic precleaner ejects most dirt particles. (up to 90%)
- 3 Spinning air follows the inner wall of the canister
- 4 The air passes through the filter element
- 5 Additional safety element available
- 6 Clean filtered air goes to the engine

Extends engine lifetime  
up to **10**

Efficiency  
**>5 μm**

Modell	Typ	Size mm	Air flow m <sup>3</sup> /min
SGU 1,75"	1	44,50	0,56 - 2,60
SGU 2"	1	50,80	0,84 - 3,64
SGU 2"	2	50,80	0,84 - 3,64
SGU 2,5"	1	63,50	3,30 - 6,50
SGU 2,5"	2	63,50	3,30 - 6,50
SGU 3"	1	73,20	1,40 - 7,00
SGU 3"	2	73,20	1,40 - 7,00
SGU 4"	1	101,60	5,60 - 12,60
SGU 5"	1	127,00	9,80 - 23,80
SGU 6"	1	152,40	9,80 - 24,00

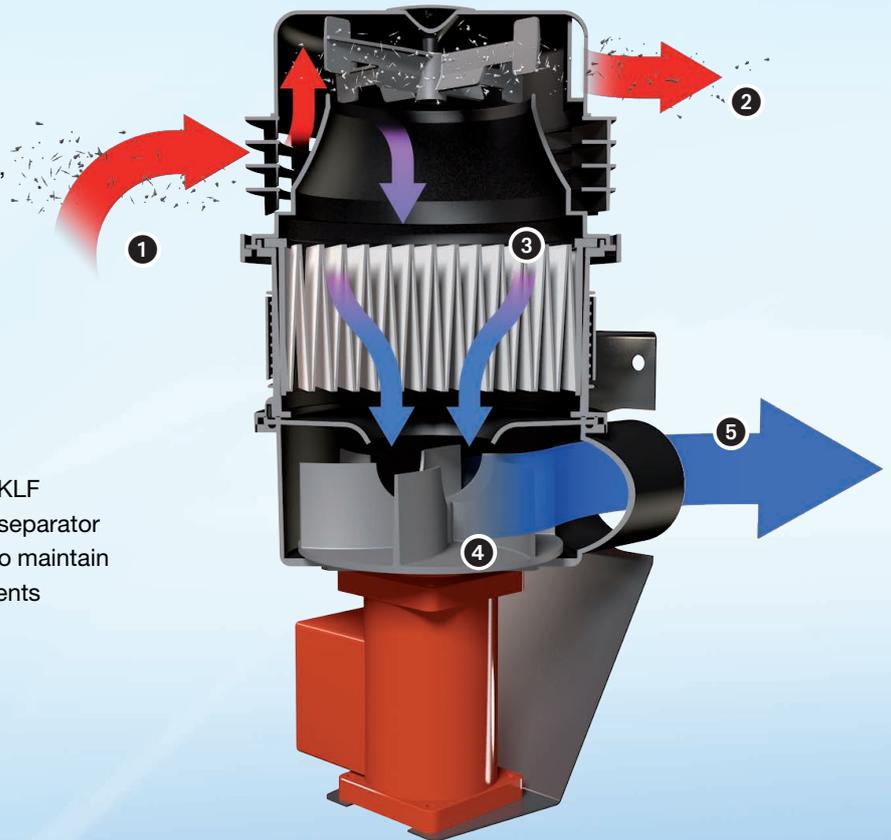
## For clean air in the cabin area

The desire to improve the breathing air in the cabin does not just follow the requirements of occupational health and safety, but also the fundamental concern for the well-being of the operating personnel. The ventilation used here, under the name CAB-AIR, works almost silently, so it does not have a disruptive effect on the operator.

### **CAB-AIR** for clean air in the cabin area. (Not a air breathing supply)

The overpressure system of the cabin air filter KLF combines our tried and tested TOP-LUFT pre-separator with an integrated blower (12V / 24V) in order to maintain a cleaned overpressure in the cabin. This prevents contaminated air from entering the cabin.

- 1 Contaminated air enters here
- 2 More than 90% ejected here
- 3 Filter element (even Hepa)
- 4 Integrated fan with 12 and 24 V motor
- 5 Clean filtered air under pressure to enclose weitergeleitet



# TOPFLUID

## HYDRAULIC OIL MICROFILTRATION

### Hydraulics prefer it



#### Advantages of the TOP-FLUID microfiltration

- Solids down to 0,5 microns ( $\mu\text{m}$ ) are removed
- large filter surface, which means high dirt collection capacity
- Purity grades of NAS 3-4 are achieved!
- Additives are not impacted or removed
- Oxidations process is stopped
- Sustains viscosity

Up to 15 bar pressure

Artikel Nr.	Type	Description	l/min
12-90365	TF 05	Hydraulic Filter	< 50
12-90370	TF 08	Hydraulic Filter	< 150
12-90375	TF 26	Hydraulic Filter	> 150

With Motor 220V

Artikel Nr.	Typ	Description	l/min
41-32500	TFM 126	Mit 1 Filtergehäuse	0,8
41-32550	TFM 226	Mit 2 Filtergehäuse	1,6

# TOPCLEAN

## FUEL FILTRATION

### Best for fuel



Suitable for removing water and solids from fuels.

#### Advantages of the TOP-Clean fuel filter

- Solids down to 5 micron ( $\mu\text{m}$ ) can be removed
- Waterabsorbing coatings are available, up to 800 ml Wasser (optional)

## Stops moisture and dirt in tanks

**TOP-DRY™** - Filters sets standard of contamination control of hydraulic systems and storage tanks. Withdrawal and return of liquids from the container generate excess or negative pressures that have to be compensated. With this air balance, dirt particles and moisture get into the tank.

**Die TOP-DRY™** -breather absorb the moisture with the silica gel and filter the dirt particles down to 2  $\mu$ m.



Artikel Nr.	Modell	Height/mm	Ø mm	H2O Absorbing	Size	Airflow
65-00005	D100	90	128	0,10	1"	1.000
65-00010	D101	128	128	0,20	1"	1.000
65-00015	D102	205	128	0,50	1"	1.000
65-00020	D108	254	128	0,60	1"	2.000
65-00205	Z131	44,5	50,8	0,01	1/2"	280
65-00210	Z132	76,2	50,8	0,02	1/2"	280
65-00215	Z133	44,5	82,5	0,04	1/2"	280
65-00220	Z134	76,2	82,5	0,07	1/2"	280



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