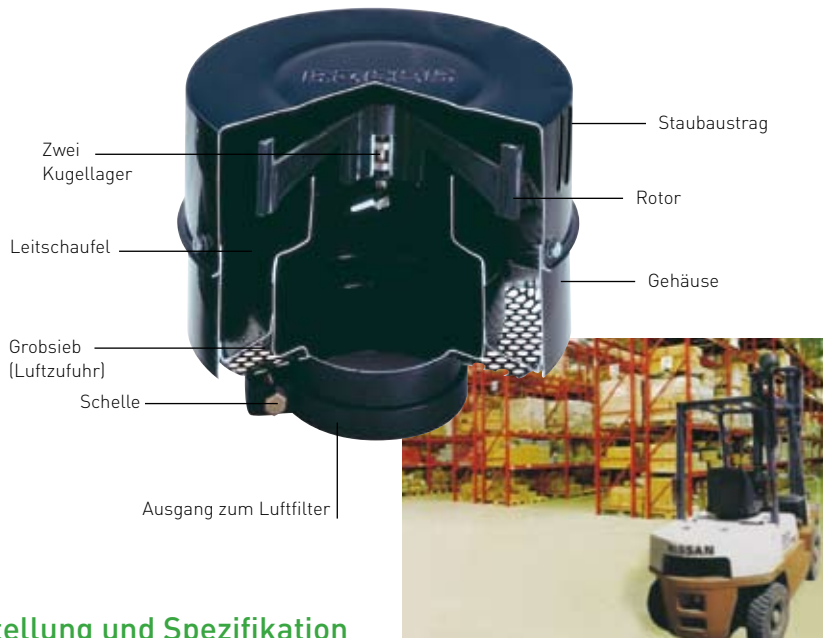


# Staubabscheider für externen Anbau

Für den Einsatz an mobilen Maschinen



## Einsatzbereiche

Der dynamische Staubabscheider mit Regenhaube kann am Luftfiltereingang eines Verbrennungsmotors angeschlossen werden.

### Anwendungsbeispiele:

- Alle beweglichen Maschinen mit Verbrennungsmotor.

## Leistungen und Vorteile

- Bis zu 80% der Verschmutzungen werden entfernt bevor diese das Filterelement erreichen
- Kompakte, schlanke Konstruktion
- Durch die Luftaufnahme von unten kann auch bei höheren Geschwindigkeiten kein Wasser eindringen.
- Einfache Installation: Jedem Staubabscheider liegen drei Reduzieradapter aus Kunststoff bei.

## Bestellung und Spezifikation

Modell	Volumenstrom	Motorleistung	Gewicht	Max. Länge	Max. Durchmesser	Auslassdurchmesser
AFHP31	1,5 bis 3,5 m <sup>3</sup> /min	22 bis 45 KW	1,10 kg	154 mm	178 mm	76-70-63 mm
AFHP41	3,5 bis 7,0 m <sup>3</sup> /min	45 bis 90 KW	1,55 kg	178 mm	216 mm	82-76-70-63 mm
AFHP42	3,5 bis 7,0 m <sup>3</sup> /min	45 bis 90 KW	1,60 kg	178 mm	216 mm	102-95-89-82mm
AFHP81	7,0 bis 11,0 m <sup>3</sup> /min	90 bis 120 KW	1,90 kg	205 mm	243 mm	82-76-70-63 mm
AFHP82	7,0 bis 11,0 m <sup>3</sup> /min	90 bis 120 KW	1,95 kg	205 mm	243 mm	102-95-89-82 mm
AFHP83	7,0 bis 11,0 m <sup>3</sup> /min	90 bis 120 KW	1,95 kg	205 mm	243 mm	102-95-89-82 mm
AFHP91	7,0 bis 11,0 m <sup>3</sup> /min	90 bis 120 KW	2,00 kg	205 mm	243 mm	114-110-102-95 mm
AFHP92	11,0 bis 15,0 m <sup>3</sup> /min	165 bis 225 KW	2,50 kg	207 mm	280 mm	133-127-121-114 mm
AFHP111	15,0 bis 22,0 m <sup>3</sup> /min	165 bis 225 KW	2,95 kg	200 mm	310 mm	133-127-121-114 mm
AFHP112	15,0 bis 22,0 m <sup>3</sup> /min	165 bis 225 KW	3,00 kg	200 mm	310 mm	152-140-133-127 mm
AFHP211	21,0 bis 30,0 m <sup>3</sup> /min	225 bis 300 KW	3,80 kg	232 mm	360 mm	152-140-133-127 mm
AFHP212	21,0 bis 30,0 m <sup>3</sup> /min	225 bis 300 KW	4,00 kg	232 mm	360 mm	178-171-165-159 mm

# AFHP Series

Heavy Duty On-Highway Precleaners  
For Mobile Equipment Applications



## Customer Value Proposition:

Equipment operated in dusty environments require more periodic maintenance and experience more down time. The filter element in the air cleaner requires more frequent replacement as the level of dust increases. A plugged filter reduces power, fuel economy, and engine component life. Racor's metal dynamic air precleaners dramatically increase the life of the air filter, reduce overall intake system restriction, increase equipment productivity, reduce downtime, and save money.



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## Product Features:

- Removes up to 80% of impurities from intake air before the air enters the filter elements.
- Compact, low-profile design.
- The bottom-intake air entry design eliminates the opportunity for water intrusion during high speed and stationary operation.
- Extends engine air filter life.
- Reduces down time.
- Prolongs engine and turbocharger life.
- Saves on fuel costs.
- Easy to install. Three plastic outlet reduction sleeves are provided with each assembly.
- Wide range of applications and flow rates.
- High air flow, low differential design.
- Steel housing, black powder coat.
- The precleaners are self-powered and self-cleaning, requiring no electrical or exhaust gas power to eliminate separated particles. It requires almost no maintenance.



ENGINEERING YOUR SUCCESS.

# Product Information and Specifications

## Applications

Racor Engine Air Precleaners are designed to be mounted on or connected to the air filter intake of a gasoline or diesel engine air cleaner.

Their applications include all fast moving mobile equipment such as trucks, buses and recreational vehicles.

## Products

AFHP Series Precleaners consist of a steel housing with static vanes and a rust-proof rotor mounted on

dual ball bearings. The perforated metal pre-screen at the inlet is standard. The outlet tube can be adapted with the supplied reducing sleeves for a variety of outlet choices. Racor Engine Air Precleaners are powder coated for a durable, corrosion-resistant finish. Air flows range from 53 to 1059 CFM (1.5 to 30.0 m<sup>3</sup>/min).

## How they work

Racor Engine Air Precleaners are usually installed in place of the rain cap, dust bowl, or aspirated precleaner (exhaust system). In some applications, they can be mounted directly to the air cleaner.

Air enters the system through a pre-screen that removes large debris. It then flows through static vanes causing the air to spin. As the air spins, centrifugal force separates dust, dirt, insects, rain and snow from the air stream. The swirling air drives a high velocity rotor that acts as a blower evacuating contaminants through special discharge ports in the side of the unit. Only purified air flows to the air filter elements.

Model	Airflow Range	Horsepower Range	Weight (With filter Elements)	Height	Diameter	Outlet Size
AFHP31	53 to 124 CFM (1.5 to 3.5 m <sup>3</sup> /min)	30 to 60 HP (22 to 45 KW)	2.40 lbs (1.10 kg)	6.06" (154 mm)	7.00" (178 mm)	3-2.5-2.75" (76-70-63 mm)
AFHP41	124 to 247 CFM (3.5 to 7.0 m <sup>3</sup> /min)	60 to 120 HP (45 to 90 KW)	3.40 lbs (1.55 kg)	7.00" (178 mm)	8.50" (216 mm)	3.25-3-2.75-2.5" (82-76-70-63 mm)
AFHP42	124 to 247 CFM (3.5 to 7.0 m <sup>3</sup> /min)	60 to 120 HP (45 to 90 KW)	3.50 lbs (1.60 kg)	7.00" (178 mm)	8.50" (216 mm)	4-3.75-3.5-3.25" (102-95-89-82 mm)
AFHP81	247 to 388 CFM (7.0 to 11.0 m <sup>3</sup> /min)	120 to 160 HP (67 to 120 KW)	4.20 lbs (1.90 kg)	8.07" (205 mm)	9.58" (243 mm)	3.25-3-2.75-2.5" (82-76-70-63 mm)
AFHP82	247 to 388 CFM (7.0 to 11.0 m <sup>3</sup> /min)	120 to 160 HP (67 to 120 KW)	4.30 lbs (1.95 kg)	8.07" (205 mm)	9.58" (243 mm)	4-3.75-3.5-3.25" (102-95-89-82 mm)
AFHP83	247 to 388 CFM (7.0 to 11.0 m <sup>3</sup> /min)	120 to 160 HP (67 to 120 KW)	4.40 lbs (2.00 kg)	8.07" (205 mm)	9.58" (243 mm)	4.5-4.33-4-3.75" (114-110-102-95 mm)
AFHP91	388 to 530 CFM (11.0 to 15.0 m <sup>3</sup> /min)	160 to 220 HP (120 to 165 KW)	5.20 lbs (2.35 kg)	8.15" (207 mm)	11.02" (280 mm)	4.5-4.33-4-3.75" (114-110-102-95 mm)
AFHP92	388 to 530 CFM (11.0 to 15.0 m <sup>3</sup> /min)	220 to 300 HP (165 to 225 KW)	5.50 lbs (2.50 kg)	8.15" (207 mm)	11.02" (280 mm)	5.25-5-4.75-4.5" (133-127-121-114 mm)
AFHP111	530 to 776 CFM (15.0 to 22.0 m <sup>3</sup> /min)	220 to 300 HP (165 to 225 KW)	6.50 lbs (2.95 kg)	7.87" (200 mm)	12.20" (310 mm)	5.25-5-4.75-4.5" (133-127-121-114 mm)
AFHP112	530 to 776 CFM (15.0 to 22.0 m <sup>3</sup> /min)	220 to 300 HP (165 to 225 KW)	6.60 lbs (3.00 kg)	7.87" (200 mm)	12.20" (310 mm)	6-5.5-5.25-5" (152-140-133-127 mm)
AFHP211	776 to 1059 CFM (22.0 to 30.0 m <sup>3</sup> /min)	300 to 400 HP (225 to 300 KW)	8.40 lbs (3.80 kg)	9.13" (232 mm)	14.17" (360 mm)	6-5.5-5.25-5" (152-140-133-127 mm)
AFHP212	776 to 1059 CFM (22.0 to 30.0 m <sup>3</sup> /min)	300 to 400 HP (225 to 300 KW)	8.80 lbs (4.00 kg)	9.13" (232 mm)	14.17" (360 mm)	7-6.75-6.5-6.25" (178-171-165-159 mm)