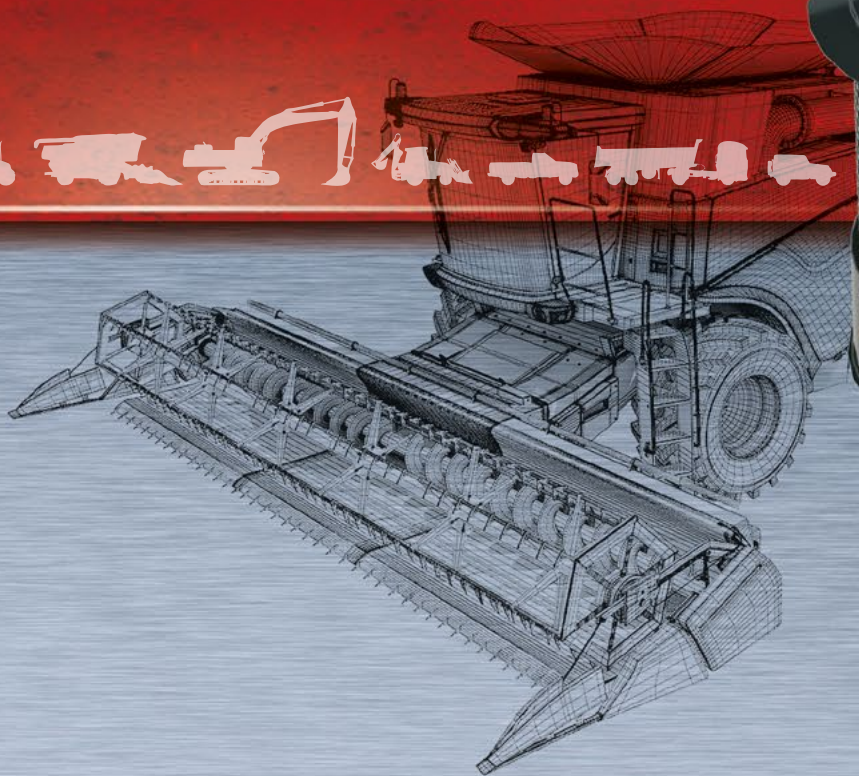
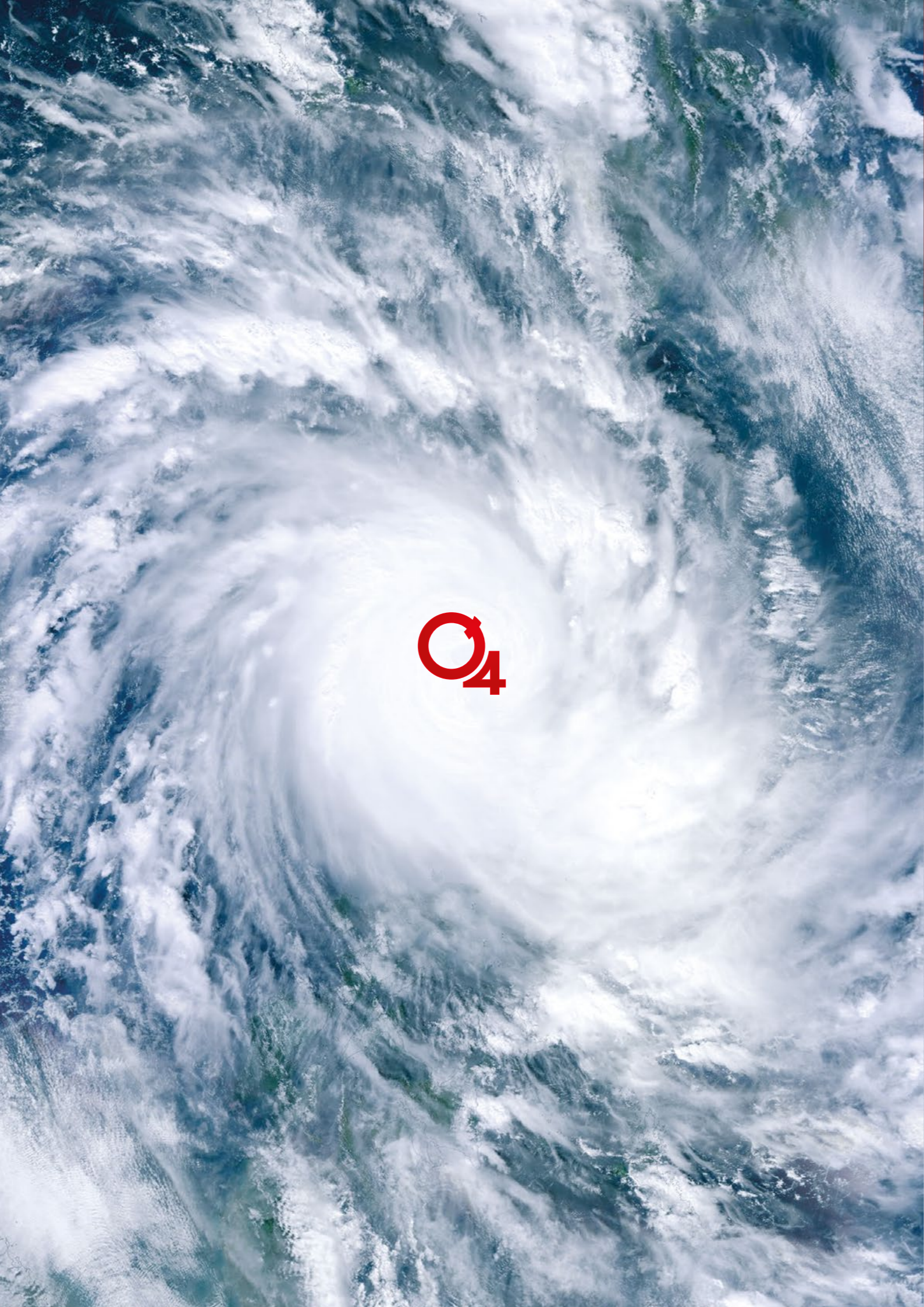




o'cuatro

advanced filtration technology





1975
1977
1979
1983
1984
1987
1989
1990
1992
1997
2000
2005
2006
Today

It all has began with the family idea to attend the market with valued- added and differential products related to agricultural and construction machines and its service .

The market was demanding air filter products on the end user sector as well small local OEM's dedicated to AG sector. By that time industry in this sector just were a few.

Industrial stage has began and all investment needed to develop the first air filtration systems – the first land to build up the plant has been acquired. The growing stage has been consolidated and already with the first small location and first old machines the first air filter housing has been born.

First precleaner model has been realized : CH 83 .

First MO 414 debut in the market : the first packaging box of this models as the demand always included 2 x MO 414.

Almost all country has been set up with domestic distributors and Ocuatro has become a popular engine air precleaner in the market, well know but its red colour. All models developed for all engine power from 20 to 400 HP mainly in the AG industry, small local OEM has been added to as Ocuatro first equipment in tractor and harvester machines.

First export with trading to New Zealand has been made as well 3 distributions in neighbored countries such as Chile, Paraguay and Bolivia.

Ocuatro opened up the first office and distribution center outside our main land. It was BRAZIL as the importance of this market deserved a personalized attendance – With the local Brazilian warehouse also the first local OEMs using Ocuatro air precleaner came up.

First combination air filter housing , unique system developed by Ocuatro technology has been released to the market . The combis 'C" products that combines the air filter housings with the benefits of Air precleaner all integrated in just one body meet customer's demand, saving space and reducing restriction as well large pipe connection. #3 stages of filtrations in a single body. Another successful history in the ocuatro company.

In the need to expand the markets knowing Ocuatro products won't fail due to its quality , service , well priced and a huge range of different options the second export stage has began : Spain , England in the UK and Germany has been the first market in Europe.

Huge breakthrough has been achieved by the company making one of the best agreement and joint venture with one of the best and leaders in the global market industry and related products trends, making our products internationally recognized carrying the global filtration leader brand name.

Many of the standard norms are achieved and approved such as ISO 9001:2000 which has been certified each year until today.

First Asian market has been reach making our products one of the first to arrive to Chinese market . Korea – Indonesia – Singapore first export are done.

Ocuatro exports to the 5 continent and been consolidated as one of the important market player in the air filtration industry – More than 80 OEMS around the world and from small ones, medium and big sizes corporations appreciates Ocuatro great products , good quality and best services and a company to continue working with.

About us

Since 1975, Ocuatro has been manufacturing the best and most complete quality pre-cleaners in the industry and market. With great imagination, common sense, understanding of global markets, excellent managerial and technical skills, we managed to develop a successful industrial manufacturing operation. Our ability in utilizing quality production systems that not only improved production output but also meant to be appreciated by our customers, has allowed us to sell successfully our products line thru a strong distribution network and to OEMs all over the world

We still work with the same principles we started that have made us the leader in the industry: family, trust and quality. We are open to new ideas and projects that lead to mutual benefits.

LET US BE YOUR PARTNER IN YOUR SUCCESS



Our Products



DYNAMIC ENGINE AIR PRE-CLEANERS

O'cuatro engine air precleaner is a complete dynamic device that by centrifugal forces separate dirt particles, is designed to remove contaminants such as dust, insects, plant debris, snow, etc... from the air intake of any engine of internal combustion before the contaminate air reach the main filter.

Ocuatro dynamic air precleaner are the first stage of filtration and are usually installed where the rain cap, dust bowl or aspirated precleaner (exhaust system) are located, in some application, they can be mounted directly to the engine's conventional air filter housing - Air enters the system through a pre-screen that removes large debris, it then flows through the static vanes causing the air to spin. As the air spins it produce a centrifugal force that separates all debris from the air stream. The swirling air drives a high speed rotor with fins that act as a blower evacuating contaminants through special discharge port at the bottom of the device body. Only clean air will enter the main filter. More commons applications are Agricultural machines, construction, Gen-sets, mining machines, mobile trucks as well stationary equipment where dust is an issue many times.

DUAL FILTER ELEMENTS HOUSINGS

They are the filters container or canister where the filters, primary or/and safety set. We do produce different versions with and without internal static veins - These filters canisters allow the use of standard air filter cartridges, for all types of applications that uses diesel engines.

COMBINED SYSTEMS

O'cuatro also combines the benefits of the dynamic engine air precleaners with internal turbine or rotor with the filter housings (dry filtering elements) in one single and compact device and it is only one connection to the engine air intake. This unique system developed by O'cuatro technology more than 25 year ago saves a lot of connections outside the machine given a compact unit that also reduces a lot the restriction - 3 stages of filtering are included in the package with 99.9% of efficiency and long life filter elements (at least 4 times more) as a result of the pre-cleaning system included.

ACCESSORIES

Also we do supply all stuff needed to make all products installations and connections such as: Rubber elbows, applications kits, metal pipe extension, adapters, hoses, etc for the full range of our products.

COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV
= ISO 9001:2008 =



MO GR

EXTERNALLY MOUNTED DYNAMIC ENGINE AIR PRECLEANERS

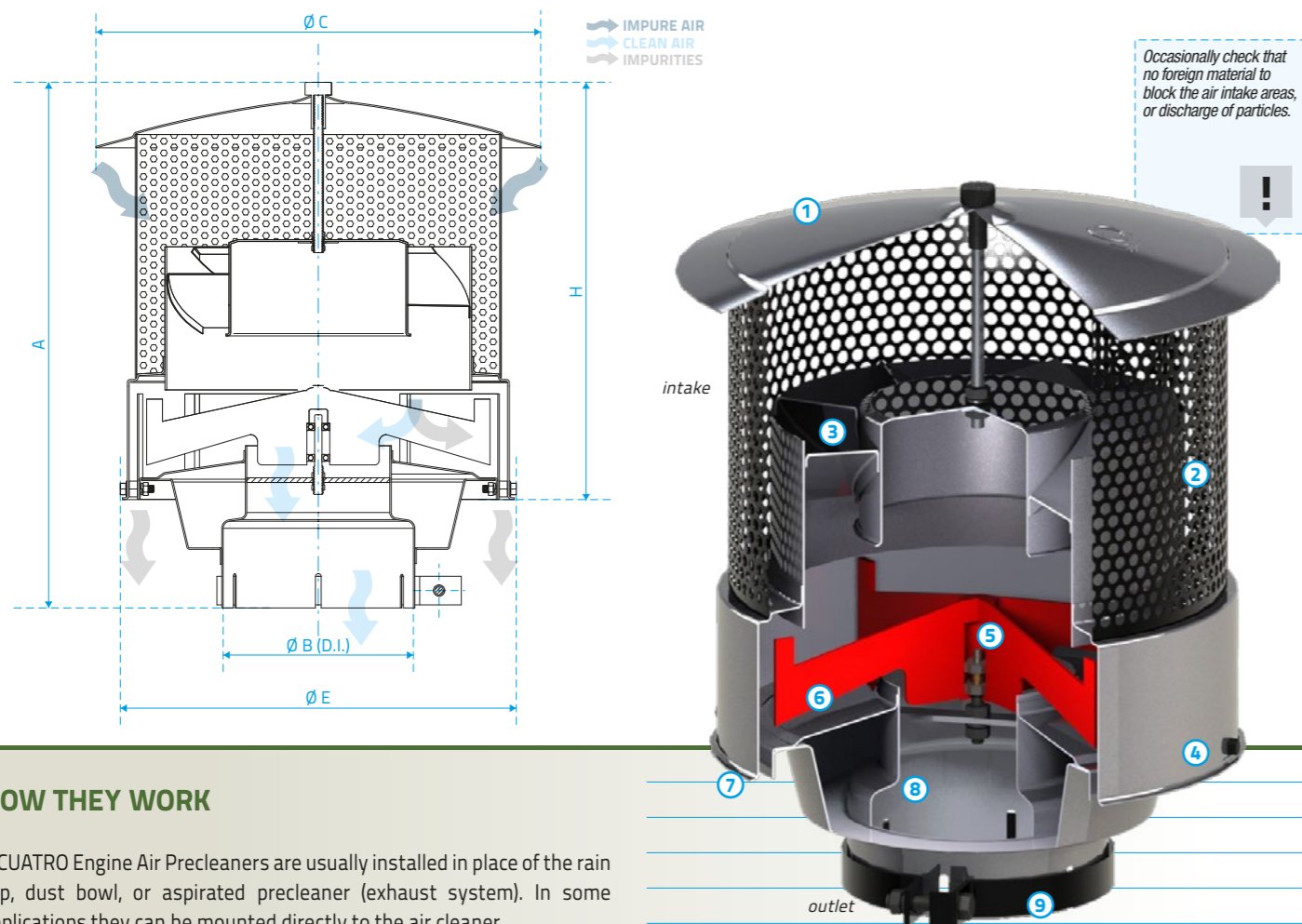
For Agriculture, Earth Moving Machinery
and Stationary Applications

3,5 to 40,0
m³/min.

These Air Precleaners consist of a steel housing with static vanes and a rust-proof rotor mounted on dual ball bearings over double-welded plate steel. 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. OCUATRO Engine Air Precleaners are powder coated for a durable, corrosion resistant finish. Air flows range from 53 to 1411 CFM (1.5 to 40.0 m³/min.).

MODEL	AIRFLOW RANGE m ³ /min (CFM)	HORSEPOWER RANGE HP (Kw)	WEIGHT Kg. (Lbs.)	Dimensions				
				A mm (") ⁽³⁾	H mm (")	ØC mm (")	ØE mm (")	ØB Outlet Size mm (") ⁽⁴⁾
MO 414	3.5 - 7.0 (124 - 247)	60 - 120 (45 - 90)	2.85 (6.30)	330 (13)	262 (10.31)	221 (8.70)	199 (7.83)	102; 82; 76; 70 (4; 3.25; 3; 2.75)
MO 818	7.0 - 11.0 (247 - 388)	120 - 160 (90 - 120)	3.55 (7.80)	359 (14.13)	280 (11.02)	272 (10.70)	245 (9.64)	133; 114; 110; 102; 82 (5.25; 4.5; 4.33; 4; 3.25)
MO 919	11.0 - 15.0 (388 - 530)	160 - 220 (120 - 165)	4.60 (10.10)	371 (14.61)	293 (11.54)	311 (12.24)	276 (10.87)	152; 133; 127; 114; 102 (6; 5.25; 5; 4.5; 4)
GR 183	15.0 - 22.0 (530 - 776)	220 - 300 (165 - 225)	5.80 (12.75)	410 (16.14)	335 (13.18)	357 (14.05)	310 (12.20)	280; 178; 152; 133; 114 (11; 7; 6; 5.25; 4.5)
GR 400	22.0 - 30.0 (776 - 1059)	300 - 400 (225 - 300)	7.50 (16.50)	500 (18.50)	380 (14.96)	415 (16.33)	354 (13.93)	280; 203; 178; 152 (11; 8; 7; 6)
GR 500	30.0 - 40.0 (1059 - 1411)	400 - 550 (298 - 410)	9.50 (20.90)	505 (19.88)	402 (15.82)	475 (18.70)	440 (17.32)	330; 254; 210; 203; 178 (13; 10; 8.26; 8; 7)

(1) In turbocharged or turbo-aftercooled engines the correct model selection is based on the maximum air flow.(2) In normally aspirated engines the model selection by horsepower range is just a recommendation. .
(3) The height "A" varies by diameter ØB. The value given is the tallest team in each family.
(4) The diameters ØB (Outlet Size) are the standard inside diameters. From these the outlet tube can be adapted with reducing sleeves for a variety of smaller outlet choices. These sleeves are provided from Ø 7" to Ø 2.5" generally in 1/4" or 1/2" steps
Obian s.a. has the right to modify the information contained in this brochure without its previous advice.



HOW THEY WORK

O'CUATRO 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 at the bottom or in the side of the unit. Only purified air flows to the air filter elements.

- | | |
|----------------------|---------------------------------|
| 1. Cap | 6. Rotor (spinner) |
| 2. Screen (air int) | 7. Discharge Ports |
| 3. Static Vanes | 8. Outlet Pipe (to air cleaner) |
| 4. Housing | 9. Clamp |
| 5. Two Ball Bearings | |

APPLICATIONS

O'CUATRO Engine Air Precleaners are designed to be mounted on or connected to the air filter intake of a gasoline, diesel or compressed natural gas engine air cleaner. Their applications include all slow-moving and industrial equipment such as agricultural machinery; earth moving, construction and mining equipment; pumping plants; generator sets; material handling equipment; snow removal equipment and street sweepers.



<p>90%</p> <p>EFFICIENCY Removes up to 90% of impurities (dust, snow, rain, etc.) Before they reach the air filter.</p>	<p>10x</p> <p>AIR FILTER Extend engine air filter life up to 10 times.</p>	<p>50%</p> <p>LESS MAINTENANCE Reduce down time by up to 50%.</p>	<p>MORE SHELF LIFE Prolong engine and turbocharger life.</p>	<p>-10%</p> <p>SAVING Save up to 10 % on fuel costs.</p>	<p>EASY TO INSTALL Three plastic outlet reduction sleeves are provided with each assembly.</p>	<p>VERSATILITY Wide range of applications and flow rates.</p>
<p>DURABILITY Steel housing, powder coat.</p>	<p>SELF-PROPELLED No required electricity or connection to the exhaust gas power to perform the filtering.</p>	<p>SELF-CLEANING They require virtually no maintenance.</p>	<p>AIR FLOW Large airflow, low values of additional restriction.</p>			

KC



DYNAMIC ENGINE AIR PRECLEANERS KC SERIES

For Agriculture, Earth Moving Machinery,
Trucks and Stationary Applications.

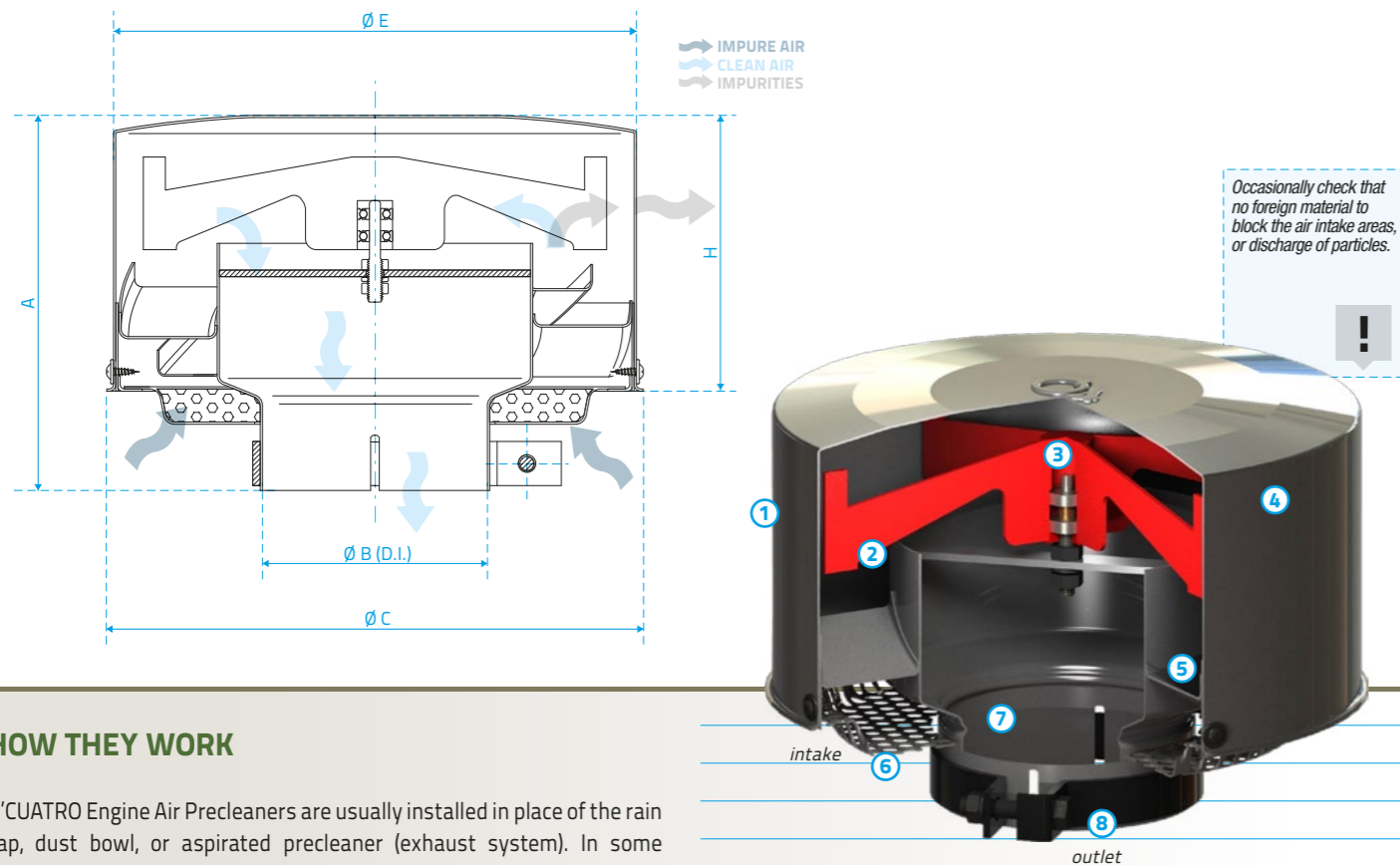
0,6 to 40,0
m³/min.

These Air 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.

O'CUATRO Engine Air Precleaners are powder coated for a durable, corrosion-resistant finish. Air flows range from 21 to 1411 CFM (0.6 to 40.0 m³/min).

MODEL	AIRFLOW RANGE m ³ /min (CFM)	HORSEPOWER RANGE HP (Kw)	WEIGHT Kg. (Lbs.)	Dimensions				
				A mm (") ⁽³⁾	H mm (")	ØC mm (")	ØE mm (")	ØB Outlet Size. mm (") ⁽⁴⁾
KC 11	0.6 - 1.4 (21 - 50)	10 - 25 (7 - 19)	0.40 (0.90)	94 (3.70)	62 (2.44)	113 (4.45)	108 (4.25)	38 (1.5)
KC 21	1.0 - 1.5 (35 - 53)	15 - 30 (11 - 22)	0.50 (1.10)	102 (4.00)	70 (2.76)	133 (5.25)	124 (4.88)	51 (2)
KC 31	1.5 - 3.5 (53 - 124)	30 - 60 (22 - 45)	1.20 (2.65)	164 (6.46)	106 (4.17)	178 (7)	167 (6.57)	76 (3)
KC 41	3.5 - 7.0 (124 - 247)	60 - 120 (45 - 90)	1.30 (2.87)	162 (6.38)	108 (4.25)	199 (7.83)	187 (7.36)	102; 82 (4; 3.25)
KC 81	7.0 - 11.0 (247 - 388)	120 - 160 (90 - 120)	1.80 (4.00)	174 (6.85)	125 (4.92)	243 (9.56)	233 (9.17)	127; 114; 102; 82 (5; 4.5; 4; 3.25)
KC 91	11.0 - 15.0 (388 - 530)	160 - 220 (120 - 165)	2.40 (5.30)	208 (8.18)	152 (5.98)	273 (10.74)	267 (10.51)	133; 114 (5.25; 4.5)
KC 111	15.0 - 22.0 (530 - 776)	220 - 300 (165 - 225)	2.90 (6.40)	233 (9.17)	154 (6.06)	309 (12.16)	298 (11.73)	178; 152; 133 (7; 6; 5.25)
KC 211	22.0 - 30.0 (776 - 1059)	300 - 400 (225 - 300)	3.40 (7.50)	200 (7.87)	160 (6.30)	359 (14.13)	348 (13.70)	203; 178; 152 (8; 7; 6)
KC 411	30.0 - 40.0 (1059 - 1411)	400 - 550 (300 - 410)	5.20 (11.50)	243 (9.56)	183 (7.20)	440 (17.32)	427 (16.81)	203; 178 (8; 7)

(1) In turbocharged or turbo-aftercooled engines the correct model selection is based on the maximum air flow. (2) In normally aspirated engines the model selection by horsepower range is just a recommendation. (3) The height "A" varies by diameter ØB. The value given is the tallest team in each family. (4) The diameters ØB (Outlet Size) are the standard inside diameters. From these the outlet tube can be adapted with reducing sleeves for a variety of smaller outlet choices. These sleeves are provided from Ø 7" to Ø 2.5" generally in 1/4" or 1/2" steps. O'CUATRO s.a. has the right to modify the information contained in this brochure without its previous advise.



HOW THEY WORK

O'CUATRO Engine Air Precleaners are usually installed in place of the rain cap, dust bowl, or aspirated pre-cleaner (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.

- | | |
|----------------------|---------------------------------|
| 1. Discharge Ports | 6. Screen (air intake) |
| 2. Rotor (Spinner) | 7. Outlet Pipe (to air cleaner) |
| 3. Two Ball Bearings | 8. Clamp |
| 4. Housing | |
| 5. Static Vanes | |

APPLICATIONS

O'CUATRO Engine Air Precleaners are designed to be mounted on or connected to the air filter intake of a gasoline, diesel or compressed gas engine air cleaner. Their applications include all fast-moving mobile equipment such as trucks, buses and recreational vehicles.



<p>90%</p> <p>EFFICIENCY Removes up to 90% of impurities (dust, snow, rain, etc.) Before they reach the air filter.</p>	<p>10x</p> <p>AIR FILTER Extend engine air filter life up to 10 times.</p>	<p>50%</p> <p>LESS MAINTENANCE Reduce down time by up to 50%.</p>	<p>MORE SHELF LIFE Prolong engine and turbocharger life.</p>	<p>-10%</p> <p>SAVING Save up to 10% on fuel costs.</p>	<p>EASY TO INSTALL Three plastic outlet reduction sleeves are provided with each assembly.</p>	<p>VERSATILITY Wide range of applications and flow rates.</p>
<p>DURABILITY Steel housing, powder coat.</p>	<p>SELF-PROPELLED No required electricity or connection to the exhaust gas power to perform the filtering.</p>	<p>SELF-CLEANING They require virtually no maintenance.</p>	<p>AIR FLOW Large airflow, low values of additional restriction.</p>			

PP



DYNAMIC ENGINE AIR PRECLEANERS

For Under Hood Applications

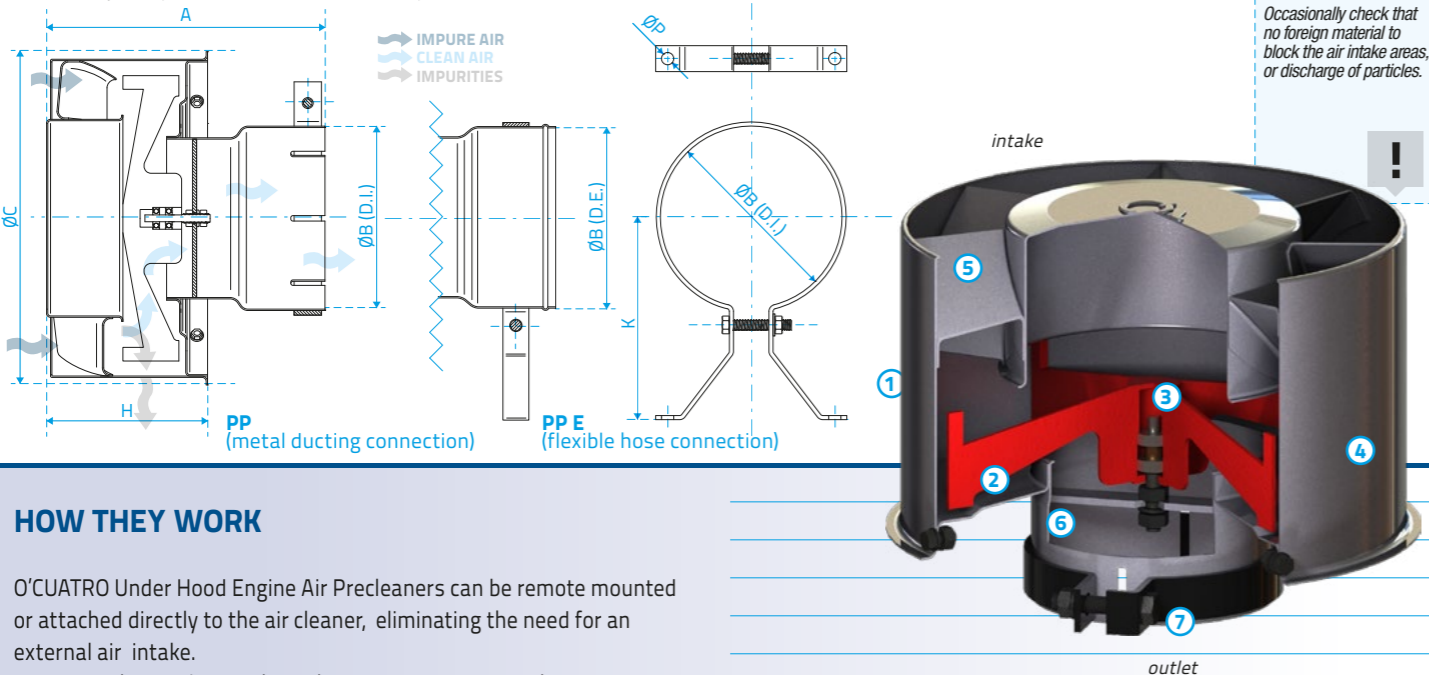
1,5 to 30,0
m³/min.

These Air Precleaners consist of a steel housing with static vanes and a rust-proof rotor mounted on dual ball bearings over double-welded plate steel. The outlet tube can be connected to metal ducting using the supplied reduction sleeves or to a flexible hose connection ("E" models).

O'CUATRO Engine Air Precleaners are powder coated for a durable, corrosion-resistant finish. Air flows range from 53 to 988 CFM (1.5 to 28.0 m³/min).

MODEL	AIRFLOW RANGE m ³ /min (CFM)	HORSEPOWER RANGE HP (Kw)	WEIGHT Kg. (Lbs.)	Dimensions					
				A mm (") ⁽³⁾	H mm (")	ØB mm (") ⁽⁴⁾	ØC mm (")	K mm (")	ØP mm (")
PB 005	1.5 - 2.5 (53 - 88)	30 - 45 (22 - 33)	0.60 (1.30)	116 (4.57)	82 (3.22)	51; 57; 63 (2.0; 2.25; 2.5)	133 (5.25)	-	-
PB 005E	1.5 - 2.5 (53 - 88)	30 - 45 (22 - 33)	0.90 (2.00)	139 (5.47)	82 (3.22)	51; 57; 63 (2; 2.25; 2.5)	133 (5.25)	145 (5.71)	9 (0.35)
PB 006	1.5 - 4.0 (53 - 141)	30 - 60 (22 - 45)	0.80 (1.75)	116 (4.57)	85 (3.35)	63 (2.5)	143 (5.63)	-	-
PB 006E	1.5 - 4.0 (53 - 141)	30 - 60 (22 - 45)	1.10 (2.40)	142 (5.60)	85 (3.35)	63 (2.5)	143 (5.63)	145 (5.71)	9 (0.35)
PB 007	4.0 - 5.0 (141 - 176)	60 - 70 (45 - 52)	1.30 (2.86)	167 (6.57)	105 (4.13)	70; 76 (2.75; 3)	180 (7.08)	-	-
PB 007E	4.0 - 5.0 (141 - 176)	60 - 70 (45 - 52)	1.40 (3.08)	172 (6.77)	105 (4.13)	76 (3)	180 (7.08)	116 (4.57)	9 (0.35)
PP 021	5.0 - 8.0 (176 - 282)	70 - 100 (52 - 75)	1.60 (3.52)	154 (6.06)	109 (4.30)	102; 82 (4; 3.25)	200 (7.87)	-	-
PP 021E	5.0 - 8.0 (176 - 282)	70 - 100 (52 - 75)	1.85 (4.07)	164 (6.45)	109 (4.30)	82 (3.25)	200 (7.87)	130 (5.12)	9 (0.35)
PP 041	8.0 - 12.0 (282 - 423)	100 - 140 (75 - 104)	1.95 (4.30)	197 (7.75)	138 (5.43)	114; 102 (4.50; 4)	228 (8.97)	-	-
PP 041E	8.0 - 12.0 (282 - 423)	100 - 140 (75 - 104)	2.20 (4.85)	192 (7.55)	138 (5.43)	102 (4)	228 (8.97)	140 (5.51)	9 (0.35)
PP 061	12.0 - 18.0 (423 - 635)	140 - 200 (104 - 150)	2.25 (4.95)	200 (7.56)	122 (4.80)	152; 133; 102 (6; 5.25; 4)	245 (9.64)	-	-
PP 061E	12.0 - 18.0 (423 - 635)	140 - 200 (104 - 150)	2.60 (5.70)	200 (7.56)	122 (4.80)	133; 102 (5.25; 4)	245 (9.64)	160 (6.30)	9 (0.35)
PP 091	18.0 - 21.0 (635 - 741)	200 - 300 (149 - 224)	3.00 (6.60)	214 (8.42)	140 (5.51)	133; 114 (5.25; 4.5)	280 (11.02)	-	-
PP 091E	18.0 - 21.0 (635 - 741)	200 - 300 (149 - 224)	3.50 (7.71)	228 (8.98)	140 (5.51)	133 (5.25)	280 (11.02)	140 (5.51)	9 (0.35)
PP 131	21.0 - 28.0 (741 - 988)	300 - 350 (224 - 261)	3.30 (7.25)	225 (8.86)	156 (6.14)	178; 152; 133 (7; 6; 5.25)	331 (13.03)	-	-
PP 141	28.0 - 30.0 (988 - 1053)	350 - 400 (261 - 300)	3.80 (8.40)	270 (10.62)	180 (7.09)	210; 178 (8.27; 7)	362 (14.25)	-	-

(1) In turbocharged or turbo-aftercooled engines the correct model selection is based on the maximum air flow. (2) In normally aspirated engines the model selection by horsepower range is just a recommendation. (3) The height "A" varies by diameter ØB. The value given is the tallest team in each family. (4) The diameters ØB (Outlet Size) are the standard inside diameters. From these the outlet tube can be adapted with reducing sleeves for a variety of smaller outlet choices. These sleeves are provided from Ø 7" to Ø 2.5" generally in 1/4" or 1/2" steps O'CUATRO s.a. has the right to modify the information contained in this brochure without its previous advise.



Occasionally check that no foreign material to block the air intake areas, or discharge of particles.

HOW THEY WORK

O'CUATRO Under Hood Engine Air Precleaners can be remote mounted or attached directly to the air cleaner, eliminating the need for an external air intake. Air enters the pre-cleaner 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 cleaner.

- 1. Discharge Ports
- 2. Rotor (spinner)
- 3. Two Ball Bearings
- 4. Housing
- 5. Static Vanes
- 6. Outlet Pipe (to air cleaner)
- 7. Clamp

APPLICATIONS

O'CUATRO Under Hood Engine Air Precleaners are designed to be mounted on or connected to the air filter intake of the gasoline, diesel or compressed natural gas engine air cleaner. Their compact size and shape makes mounting easy in under hood applications where space is limited. Their applications include trucks; pick ups; tractors; earth moving, construction and mining equipment; stationary engines; generator sets; snow removal equipment and street sweepers.



<p>90%</p> <p>EFFICIENCY Remove up to 90% of impurities from intake air before the air enters the filter elements.</p>	<p>10x</p> <p>AIR FILTER Extend engine air filter life up to 10 times.</p>	<p>50%</p> <p>LESS MAINTENANCE Reduce down time by up to 50%.</p>	<p>HIGHER SHELF LIFE Prolong engine and turbocharger life.</p>	<p>-10%</p> <p>SAVING Save up to 10% on fuel costs.</p>	<p>EASY TO INSTALL Each unit can provide up to three plastic adapters for air intake</p>	<p>VERSATILITY Wide range of applications and flow rates.</p>
<p>DURABILITY Steel housing, powder coat.</p>	<p>SELF-POWERED Requiring no electrical or exhaust gas power to dispose of separated particles.</p>	<p>SELF-CLEANING They require virtually no maintenance.</p>	<p>INSIDE No exterior vehicle modification for intake air.</p>	<p>AIR FLOW High air flow, low differential design.</p>		

App Gallery



www.youtube.com/ocuatrofiltros

Bullnose

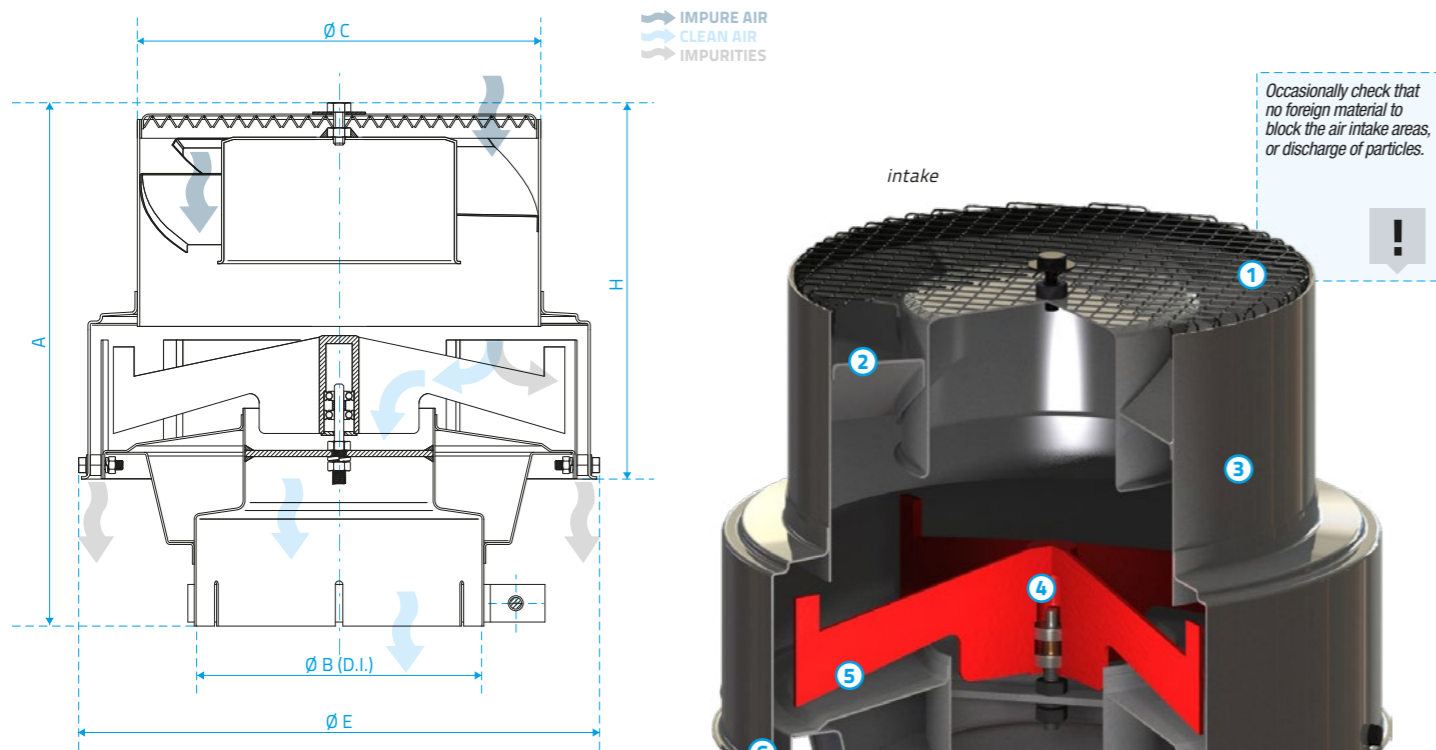
DYNAMIC ENGINE AIR PRECLEANERS COMPACT SERIES. INTERIOR / EXTERIOR

3,5 to 40,0
m³/min.

These Air Precleaners consist of a steel housing with static vanes and a rust-proof rotor mounted on dual ball bearings over-double-welded plate steel. The electro-welded 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. OCUATRO Engine Air Precleaners are powder coated for a durable, corrosion resistant finish. Air flows range from 124 to 1411 CFM (3.5 to 40.0 m³/min.).

MODEL	AIRFLOW RANGE m ³ /min (CFM)	HORSEPOWER RANGE HP (Kw)	WEIGHT Kg. (Lbs.)	Dimensions				
				A mm (")	H mm (")	ØC mm (")	ØE mm (")	ØB Outlet Size. mm (")
MO 404	3.5 - 7.0 (124 - 247)	60 - 120 (45 - 90)	1.70 (3.75)	235 (9.25)	153 (6.02)	153 (6.02)	199 (7.83)	102; 82; 76; 70 (4; 3.25; 3; 2.75)
MO 808	7.0 - 11.0 (247 - 388)	120 - 160 (90 - 120)	2.25 (5.00)	240 (9.45)	167 (6.57)	181 (7.13)	243 (9.57)	133; 114; 110; 102; 82 (5.25; 4.5; 4.33; 4; 3.25)
MO 909	11.0 - 15.0 (388 - 530)	160 - 220 (120 - 165)	3.30 (7.30)	272 (10.71)	194 (7.64)	214 (8.43)	276 (10.87)	152; 133; 127; 114; 102 (6; 5.25; 5; 4.5; 4)
GR 103	15.0 - 22.0 (530 - 776)	220 - 300 (165 - 225)	4.15 (9.15)	315 (12.40)	237 (9.33)	255 (10.04)	311 (12.24)	280; 178; 152; 133; 114; 102 (11; 7; 6; 5.25; 4.5; 4)
GR 403	22.0 - 30.0 (776 - 1059)	300 - 400 (225 - 300)	5.35 (11.80)	345 (13.58)	259 (10.20)	310 (12.20)	370 (14.57)	280; 203; 178; 152 (11; 8; 7; 6)
GR 505	30.0 - 40.0 (1059 - 1411)	400 - 550 (298 - 410)	7.50 (16.50)	358 (14.09)	275 (10.83)	375 (14.76)	437 (17.20)	330; 254; 210; 203; 178 (13; 10; 8.26; 8; 7)

(1) In turbocharged or turbo-aftercooled engines the correct model selection is based on the maximum air flow. (2) In normally aspirated engines the model selection by horsepower range is just a recommendation. . .
(3) The height "A" varies by diameter ØB. The value given is the tallest team in each family.
(4) The diameters ØB (Outlet Size) are the standard inside diameters. From these the outlet tube can be adapted with reducing sleeves for a variety of smaller outlet choices. These sleeves are provided from Ø 7" to Ø 2.5" generally in 1/4" or 1/2" steps
Oblan s.a. has the right to modify the information contained in this brochure without its previous advise.



HOW THEY WORK

O'CUATRO Engine Air Precleaners can be installed in interior or exterior applications. If the application is exterior there must be horizontal mounting to avoid rain intrusion. 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

1. Screen (air intake)
2. Static Vanes
3. Hosing
4. Two Ball Bearings
5. Rotor (spinner)
6. Discharge Ports
7. Outlet Pipe (to air cleaner)
8. Clamp

APPLICATIONS

O'CUATRO Engine Air Precleaners are designed to be mounted on or connected to the air filter intake of a gasoline, diesel or compressed natural gas engine air cleaner. Their applications include trucks, buses, industrial equipment, agricultural machinery; earth moving, construction and mining equipment; pumping plants; generator sets; material handling equipment; snow removal equipment and street sweepers, etc.



<p>90%</p> <p>EFFICIENCY Removes up to 90% of impurities (dust, snow, rain, etc.) Before they reach the air filter.</p>	<p>10x</p> <p>AIR FILTER Extend engine air filter life up to 10 times.</p>	<p>50%</p> <p>LESS MAINTENANCE Reduce down time by up to 50%.</p>	<p>MORE SHELF LIFE Prolong engine and turbocharger life.</p>	<p>-10%</p> <p>SAVING Save up to 10 % on fuel costs.</p>	<p>EASY TO INSTALL Three plastic outlet reduction sleeves are provided with each assembly.</p>	<p>VERSATILITY Wide range of applications and flow rates.</p>
<p>DURABILITY Steel housing, powder coat.</p>	<p>SELF-PROPELLED No required electricity or connection to the exhaust gas power to perform the filtering.</p>	<p>SELF-CLEANING They require virtually no maintenance.</p>	<p>AIR FLOW Large airflow, low values of additional restriction.</p>			

HOUSINGS FOR DRY FILTER ELEMENTS COMBINED SYSTEM WITH DYNAMIC PRECLEANER

For Agricultural and Earth Moving Machinery
Industrial Applications and On-Highway Under Hood Applications

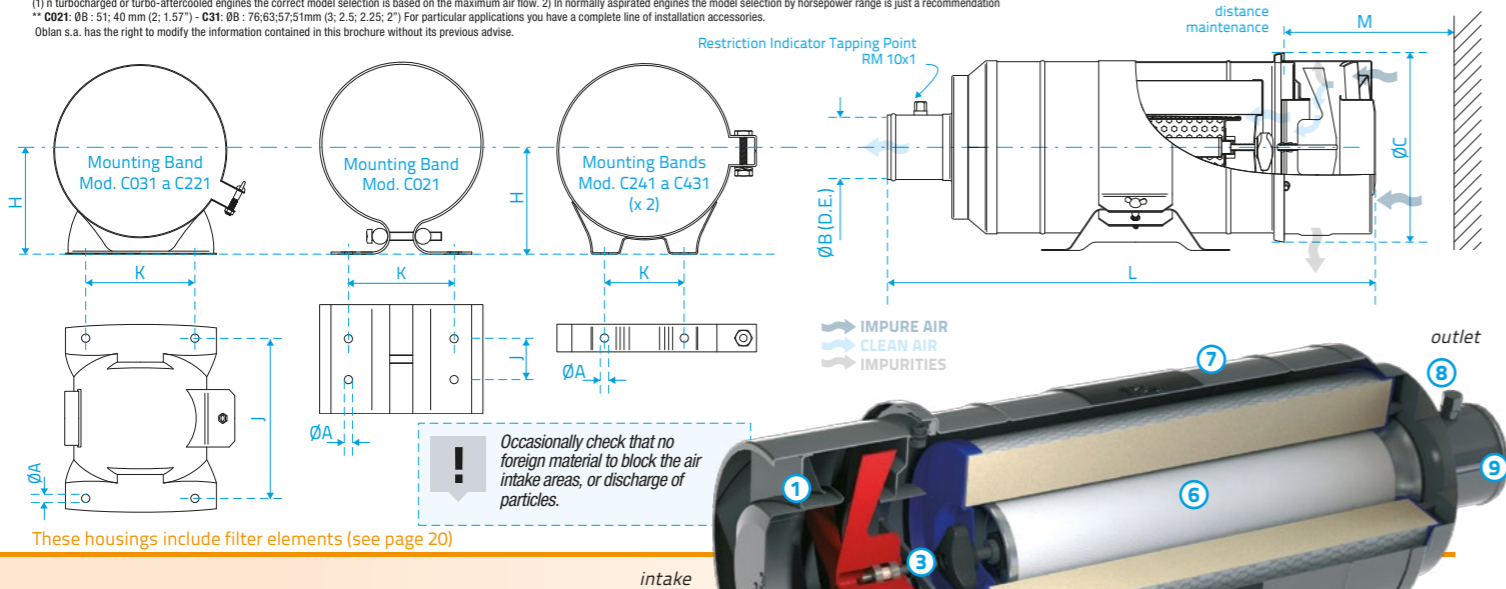
0,5 to 43,0
m³/min.

This range combines the security of a primary and safety- element with an efficient, dynamic precleaner available in one compact, single-connection package. O'CUATRO Combination Precleaner / Air Filters have a steel housing with static vanes and a corrosion-proof rotor mounted on dual ball bearings over double-welded plate steel. The adjustable mounting band makes installation flexible. O'CUATRO Combination Precleaner / Air Filters are powder coated for a durable, corrosion-resistant finish. Airflows range from 18 to 1517 CFM (0.5 to 43.0 m³/min).



MOD.	AIRFLOW RANGE m³/min (CFM) (1)	HORSEPOWER RANGE HP (Kw) (2)	WEIGHT Kg. (Lbs.)	Dimensions							
				L mm (")	H mm (")	J mm (")	K mm (")	ØA mm (")	ØB mm (")	ØC mm (")	M mm (")
C 021	0,5 - 2,0 (18 - 71)	10 - 50 (8 - 38)	1,90 (4,19)	335 (13.19)	90 (3.54)	45 (1.77)	100 (3.94)	9 (0.35)	40 (1.57)**	156 (6.14)	152 (6)
C 031	1,0 - 3,5 (35 - 124)	20 - 70 (15 - 52)	3,50 (7,70)	406 (15.98)	85 (3.34)	175 (6.89)	120 (4.72)	9 (0.35)	63 (2.5)**	168 (6.61)	200 (7.87)
C 051	1,5 - 3,5 (53 - 124)	30 - 70 (22 - 52)	3,90 (8,60)	413 (16.25)	95 (3.74)	175 (6.89)	120 (4.72)	9 (0.35)	63 (2.5)	188 (7.40)	200 (7.87)
C 071	3,5 - 4,5 (124 - 159)	50 - 70 (37 - 52)	4,70 (10,35)	487 (19.17)	95 (3.74)	175 (6.89)	120 (4.72)	9 (0.35)	63 (2.5)	188 (7.40)	280 (11.02)
C 081	4,5 - 6,0 (159 - 212)	70 - 80 (52 - 60)	5,75 (12,70)	520 (20,47)	108 (4.25)	175 (6.89)	120 (4.72)	9 (0.35)	70 (2.75)	204 (8.03)	315 (12.40)
C 101	5,0 - 7,0 (176 - 247)	75 - 100 (56 - 75)	6,50 (14,30)	430 (16,93)	140 (5.51)	255 (10.04)	161 (6.34)	9 (0.35)	76 (3)	254 (10)	230 (9.06)
C 121	6,0 - 8,0 (212 - 282)	80 - 110 (60 - 82)	7,50 (16,50)	597 (23.50)	125 (4.92)	255 (10.04)	161 (6.34)	9 (0.35)	76 (3)	232 (9.13)	325 (12.80)
C 181	8,0 - 12,0 (282 - 423)	110 - 150 (82 - 112)	9,20 (20,30)	616 (24,25)	140 (5.51)	255 (10.04)	161 (6.34)	9 (0.35)	102 (4)	252 (9.92)	360 (14.17)
C 221	12,0 - 15,0 (423 - 529)	150 - 180 (112 - 135)	11,00 (24,20)	647 (25,47)	152 (6)	255 (10.04)	161 (6.34)	9 (0.35)	102 (4)	288 (11.34)	385 (15.16)
C 241	15,0 - 18,0 (529 - 635)	180 - 215 (135 - 160)	13,50 (29,70)	710 (27,95)	152 (6)	-	140 (5.51)	10 (0.39)	102 (4)	310 (12.20)	440 (17.32)
C 251	18,0 - 20,0 (635 - 706)	215 - 240 (160 - 179)	13,60 (30,00)	714 (28,11)	206 (8.11)	-	140 (5.51)	10 (0.39)	133 (5.25)	337 (13.27)	420 (16.54)
C 261	20,0 - 21,0 (706 - 741)	200 - 260 (149 - 194)	14,50 (31,90)	780 (30,71)	206 (8.11)	-	140 (5.51)	10 (0.39)	130 (5.12)	337 (13.27)	500 (19.68)
C 311	21,0 - 28,0 (741 - 988)	260 - 320 (194 - 239)	16,70 (36,80)	785 (30,90)	205 (8.07)	-	205 (8.07)	10 (0.39)	152 (6)	365 (14.37)	490 (19.29)
C 351	28,0 - 35,0 (988 - 1235)	320 - 380 (239 - 283)	21,00 (46,25)	800 (31,50)	233 (9.17)	-	200 (7.87)	10 (0.39)	152 (6)	420 (16.53)	485 (19.09)
C 431	35,0 - 43,0 (1235 - 1517)	380 - 450 (283 - 335)	29,00 (63,90)	971 (38,23)	251 (9.88)	-	200 (7.87)	10 (0.39)	152 (6)	478 (18.82)	625 (24.61)

(1) In turbocharged or turbo-aftercooled engines the correct model selection is based on the maximum air flow. 2) In normally aspirated engines the model selection by horsepower range is just a recommendation.
** C021: ØB : 51; 40 mm (2; 1.57") - C31: ØB : 76; 63; 57.5 mm (3; 2.5; 2.25; 2") For particular applications you have a complete line of installation accessories.
Obtan s.a. has the right to modify the information contained in this brochure without its previous advise.



These housings include filter elements (see page 20)

HOW THEY WORK

At first stage, air enters the pre-cleaner portion 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 assembly. Only purified air flows to the air filter elements (primary and safety stage of filtration). These elements retain the 99,9% of the contaminants which were not eliminated in the first stage. Then clean air flows to the engine through the outlet pipe.

- | | |
|----------------------------------|--|
| 1. Static Vanes | 6. Safety Element |
| 2. Discharge Ports (at the back) | 7. Housing |
| 3. Two Ball Bearings | 8. Restriction Indicator Tapping Point |
| 4. Rotor (spinner) | 9. Outlet Pipe (to the engine) |
| 5. Primary Element | 10. Retractable mounting band |

APPLICATIONS

O'CUATRO Combination Dynamic Precleaner / Air Filters are specifically designed to be connected to the air intake of the gasoline, diesel or compressed natural gas engines. The advantages of the systems include their compact size and ease of installation. The three-stage air filtration systems are designed with only one connection to the engine. Their applications include agricultural machinery; earth moving, construction and mining equipment; stationary engines; generator sets; trucks; pick-ups; off-road vehicles; material handling equipment; snow removal equipment and street sweepers.



<p>90% EFFICIENCY Removes up to 90% of impurities (dust, snow, rain, etc.) Before they reach the air filter.</p>	<p>10x AIR FILTER Extend engine air filter life up to 10 times.</p>	<p>50% LESS MAINTENANCE Reduce down time by up to 50%.</p>	<p>MORE SHELF LIFE Prolong engine and turbocharger life.</p>	<p>-10% SAVING Save up to 10 % on fuel costs.</p>	<p>EASY TO INSTALL and compact size</p>	<p>VERSATILITY Wide range of applications and flow rates.</p>
<p>DURABILITY Steel housing, powder coat.</p>	<p>SELF-PROPELLED SELF-CLEANING No required electricity or connection to the exhaust gas power to perform the filtering.</p>	<p>FILTER ELEMENTS Primary filter elements and filter elements compatible with most standard security models.</p>	<p>RESTRICTION INDICATOR Have a standard connection port restriction sensor.</p>	<p>DIRECT TO ENGINE These air filtration systems in three stages are designed with a single motor connection.</p>	<p>AIR FLOW Large airflow, low values of additional restriction.</p>	<p>ANCHORING SYSTEM They have a retractable anchor system that simplifies maintenance.</p>

KL



HOUSINGS FOR DRY FILTER ELEMENTS STATIC VANES SYSTEM

For On-Highway, Off-Highway
and Stationary Applications.

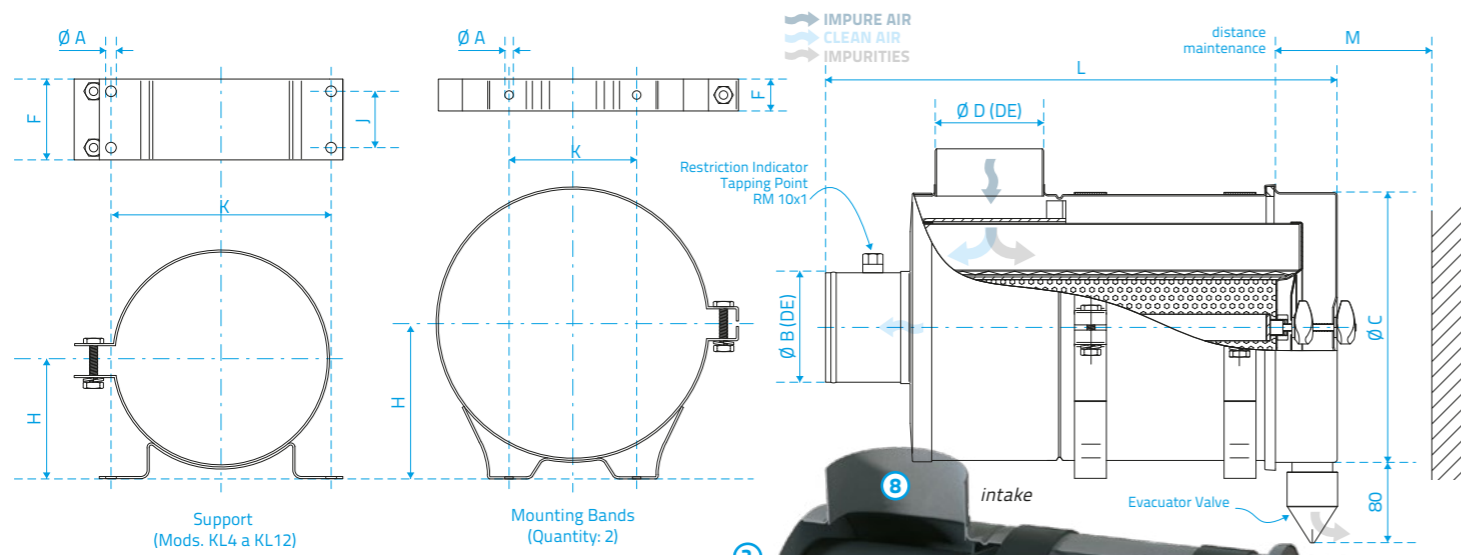
1,5 to 43,0
m³/min.

These Air Filters have a steel housing with a static vane first stage. Primary and safety filter elements are standard. This range is a three-stage air cleaner system with universal mounting bands. The standard tube style inlet is suitable for use with an OCUATRO Air Precleaner.

OCUATRO Air Filters are powder coated for a durable, corrosion-resistant finish. Air flows range from 53 to 1517 CFM (1.5 to 43.0 m³/min).

MOD.	AIRFLOW RANGE m ³ /min (CFM) ⁽¹⁾	HORSEPOWER RANGE HP (Kw) ⁽²⁾	WEIGHT Kg. (Lbs.)	Dimensions										
				L mm (")	K mm (")	J mm (")	F mm (")	H mm (")	ØA mm (")	ØC mm (")	ØB mm (")	ØD mm (")	M mm (")	
KL 4	1.5 - 4.5 (53 - 159)	30 - 80 (22 - 60)	3.80 (8.40)	390 (15.35)	200 (7.87)	53 (2.08)	76 (3)	100 (3.93)	10 (0.39)	167 (6.57)	63 (2.50)	63 (2.50)	305 (12)	
KL 6	4.5 - 6.0 (159 - 212)	80 - 90 (60 - 67)	4.90 (10.79)	430 (16.92)	200 (7.87)	53 (2.08)	76 (3)	120 (4.72)	10 (0.39)	198 (7.80)	70 (2.75)	76 (3)	315 (12.40)	
KL 8	6.0 - 8.0 (212 - 282)	90 - 120 (67 - 90)	5.30 (11.70)	440 (17.32)	200 (7.87)	53 (2.08)	76 (3)	130 (5.11)	10 (0.39)	216 (8.50)	76 (3)	76 (3)	335 (13.19)	
KL 12	8.0 - 12.0 (282 - 423)	120 - 160 (90 - 120)	7.50 (16.50)	478 (18.82)	200 (7.87)	53 (2.08)	76 (3)	150 (5.90)	10 (0.39)	253 (9.96)	102 (4)	102 (4)	380 (14.96)	
KL 15	12.0 - 15.0 (423 - 529)	160 - 180 (120 - 134)	9.95 (21.92)	485 (19.09)	140 (5.51)	-	35 (1.38)	146 (5.75)	10 (0.39)	267 (10.51)	102 (4)	102 (4)	390 (15.35)	
KL 18	15.0 - 18.0 (529 - 635)	180 - 210 (134 - 157)	12.50 (27.55)	550 (21.65)	140 (5.51)	-	35 (1.38)	161 (6.34)	10 (0.39)	290 (11.42)	102 (4)	114 (4.5)	440 (17.32)	
KL 20	18.0 - 20.0 (635 - 706)	210 - 250 (157 - 187)	14.10 (31.06)	528 (20.79)	140 (5.51)	-	35 (1.38)	175 (6.89)	10 (0.39)	319 (12.56)	133 (5.25)	133 (5.25)	390 (15.35)	
KL 21	20.0 - 21.0 (706 - 741)	240 - 280 (179 - 209)	15.40 (33.90)	605 (23.81)	140 (5.51)	-	35 (1.38)	175 (6.89)	10 (0.39)	319 (12.56)	130 (5.12)	133 (5.25)	465 (18.31)	
KL 28	21.0 - 28.0 (741 - 988)	280 - 320 (209 - 239)	18.15 (40.00)	595 (23.42)	200 (7.87)	-	35 (1.38)	230 (9.05)	10 (0.39)	408 (16.06)	152 (6)	152 (6)	450 (17.72)	
KL 35	28.0 - 35.0 (988 - 1235)	320 - 380 (239 - 283)	21.00 (46.25)	631 (24.84)	200 (7.87)	-	35 (1.38)	258 (10.16)	10 (0.39)	442 (17.40)	152 (6)	152 (6)	465 (18.31)	
KL 43	35.0 - 43.0 (1235 - 1517)	380 - 450 (283 - 335)	35.70 (78.65)	728 (28.66)	180 (7.09)	-	76 (3)	270 (10.62)	10 (0.39)	460 (18.11)	152 (6)	152 (6)	640 (25.20)	

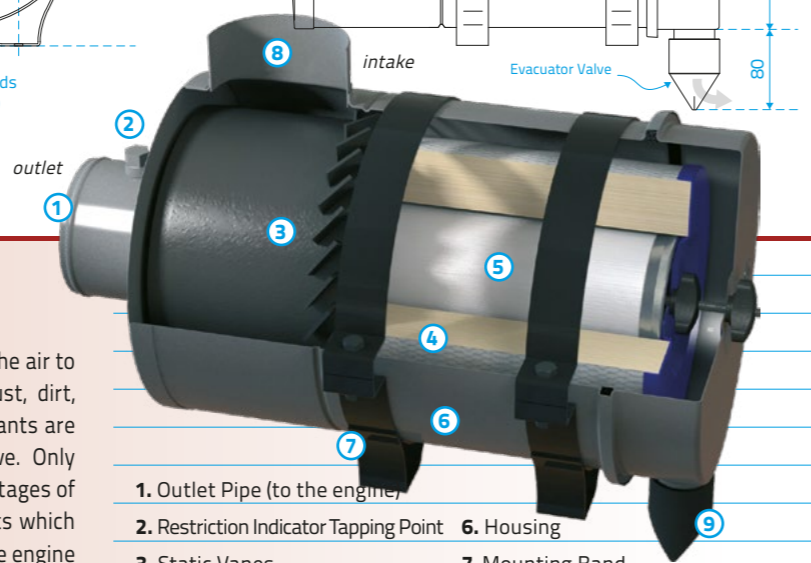
(1) In turbocharged or turbo-aftercooled engines the correct model selection is based on the maximum air flow. (2) In normally aspirated engines the model selection by horsepower range is just a recommendation. For particular applications you have a complete line of installation accessories. / Olan s.a. has the right to modify the information contained in this brochure without its previous advise.



These housings include filter elements (see page 20)

HOW THEY WORK

Air flows through static vanes (plastic or metal) which causes the air to spin. Centrifugal force separates the heaviest impurities (dust, dirt, insects and other debris) from the air stream. These contaminants are discharged automatically through an integral evacuator valve. Only purified air flows to the air filter elements (primary and safety stages of filtration). These elements retain the 99.9% of the contaminants which were not eliminated in the first stage. Then clean air flows to the engine through the outlet pipe.



1. Outlet Pipe (to the engine)
2. Restriction Indicator Tapping Point
3. Static Vanes
4. Primary Element
5. Safety Element
6. Housing
7. Mounting Band
8. Air Intake
9. Evacuator Valve

APPLICATIONS

These Air Filters are designed to be connected to the air intake of the gasoline, diesel or compressed natural gas engine. Their applications include agricultural machinery; earth-moving equipment; stationary engines; generator sets; trucks; busses and recreational vehicles; material handling equipment; snow removal equipment and street sweepers.



<p>STATIC VANES Removes larger contaminants from the air before entering the air filter elements.</p>	<p>LESS MAINTENANCE than a housing with no internal standard cyclone.</p>	<p>MORE SHELF LIFE Prolong engine and turbocharger life.</p>	<p>EASY TO INSTALL and compact size</p>	<p>VERSATILITY Wide range of applications and flow rates.</p>
<p>DURABILITY Steel housing, powder coat.</p>	<p>FILTER ELEMENTS Primary filter elements and filter elements compatible with most standard security models.</p>	<p>RESTRICTION INDICATOR Have a standard connection port restriction sensor.</p>	<p>DIRECT TO ENGINE These air filtration systems in three stages are designed with a single motor connection.</p>	<p>AIR FLOW Large airflow, low values of additional restriction.</p>

Truck



DYNAMIC ENGINE AIR PRE-CLEANERS

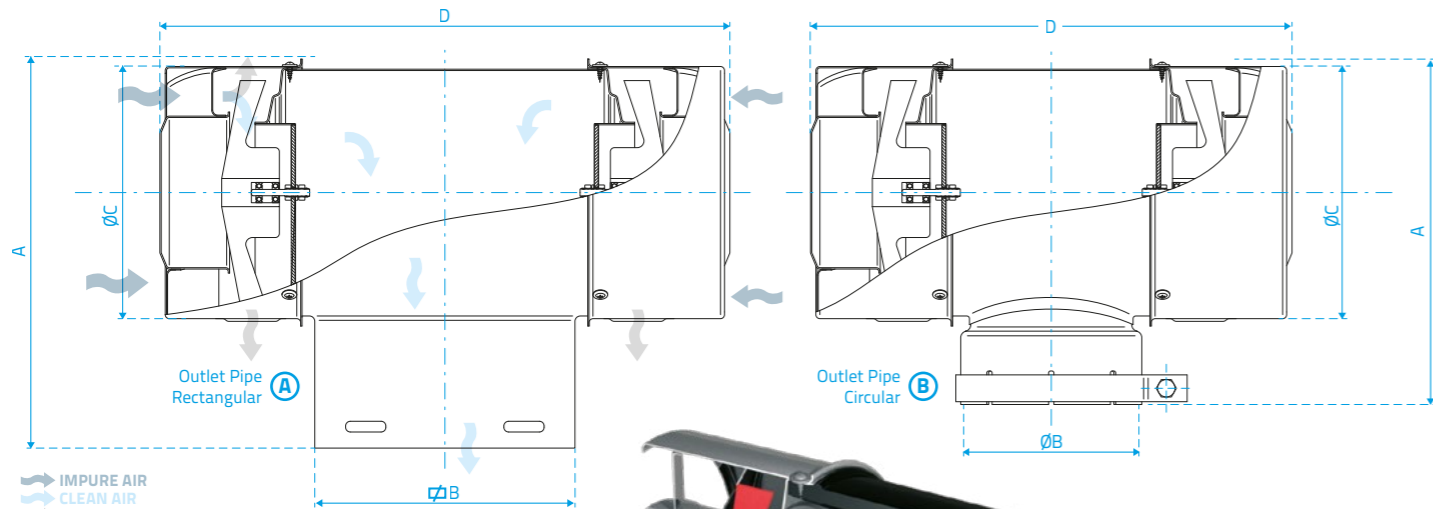
TRUCK SERIES

8,0 to 27,0 $m^3/min.$

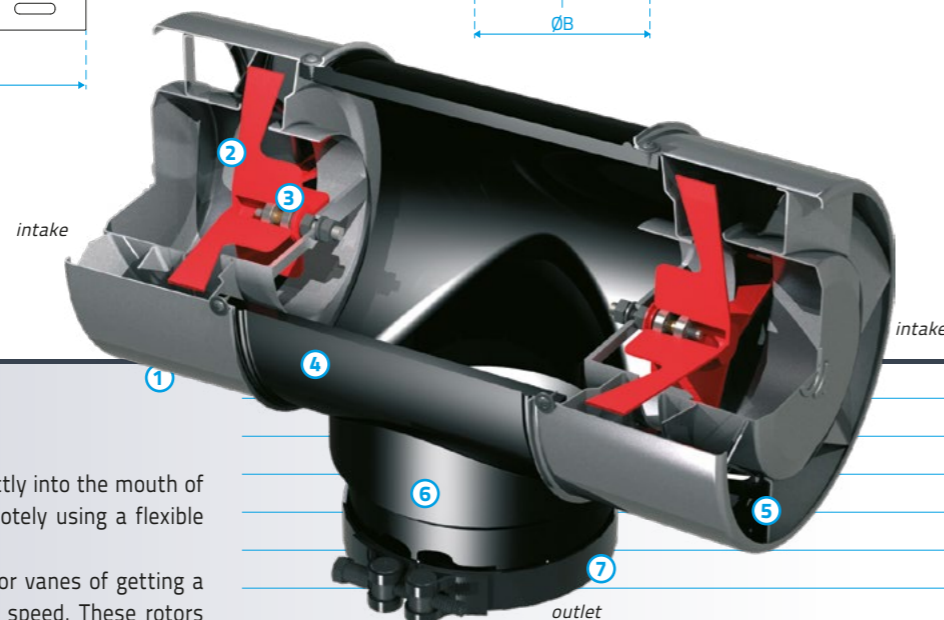
These Air Precleaners consist of a steel housing or hybrid (metal + plastic), with static vanes and a rust-proof rotor mounted on dual ball bearings over double-welded plate steel. The outlet tube can be connected to metal ducting using the supplied reduction sleeves or to a flexible hose connection. O'CUATRO Engine Air Precleaners are powder coated for a durable, corrosion-resistant finish.

MODEL	AIRFLOW RANGE m^3/min (CFM) ⁽¹⁾	HORSEPOWER RANGE HP (Kw) ⁽²⁾	WEIGHT Kg. (Lbs.)	Dimensions				
				A mm (") ⁽³⁾	ØB mm (") ⁽⁴⁾	ØB mm (")	ØC mm (")	D mm (")
FU 150 T	< 15 (529)	< 200 (150)	3,40 (7.50)	260 (10.2)	102 (4.0)	-	196 (7.8)	340 (13.4)
FU 200	< 17 (600)	< 250 (185)	3,50 (7.70)	290; 422 (11.4; 16.6)	-	100 x 194 (3.9 x 7.6)	198 (7.8)	425 (16.7)
FU 200VW	< 17 (600)	< 250 (185)	3,50 (7.70)	230 (9.1)	-	80 x 220 (3.2 x 8.7)	196 (7.8)	430 (16.9)
FU 270	< 17 (600)	< 250 (185)	4,25 (9.40)	256 (10.1)	152 (6.0)	-	198 (7.8)	400 (15.7)
FU 270M	< 17 (600)	< 250 (185)	4,25 (9.40)	258 (10.1)	133 (5.25)	-	198 (7.8)	360 (14.1)
SC 112C	< 27 (953)	< 350 (261)	5,80 (12.80)	345 (13.6)	-	110 x 294 (4.33 x 11.5)	235 (9.3)	550 (21.7)
PN 350	< 27 (953)	< 350 (261)	5,20 (11.50)	360; 290 (14.2; 11.4)	152; 203 (6.0; 8.0)	-	235 (9.3)	465 (18.3)

(1) In turbocharged or turbo-aftercooled engines the correct model selection is based on the maximum air flow. (2) In normally aspirated engines the model selection by horsepower range is just a recommendation. (3) The height "A" varies ØB. The value given is the tallest team in each family. (4) The diameters ØB (Outlet Size) are the standard inside diameters. From these the outlet tube can be adapted with reducing sleeves for a variety of smaller outlet choices. These sleeves are provided from Ø 7" to Ø 2.5" generally in 1/4" or 1/2" steps. O'CUATRO s.a. has the right to modify the information contained in this brochure without its previous advise.



Occasionally check that no foreign material to block the air intake areas, or discharge of particles.



HOW THEY WORK

This type of Air Precleaners can be installed directly into the mouth of the housing revenue porta filter element or remotely using a flexible rubber hose and accessories.

Air enters the prefilter o'cuatro through the stator vanes of getting a sense of rotation that drives the rotors at high speed. These rotors separated by centrifugal force contaminants (dust, dirt, insects, rainwater, snow, etc.), since being heavier than air are expelled through discharge slots on one side of the team. This Only purified air flows to the filter elements.

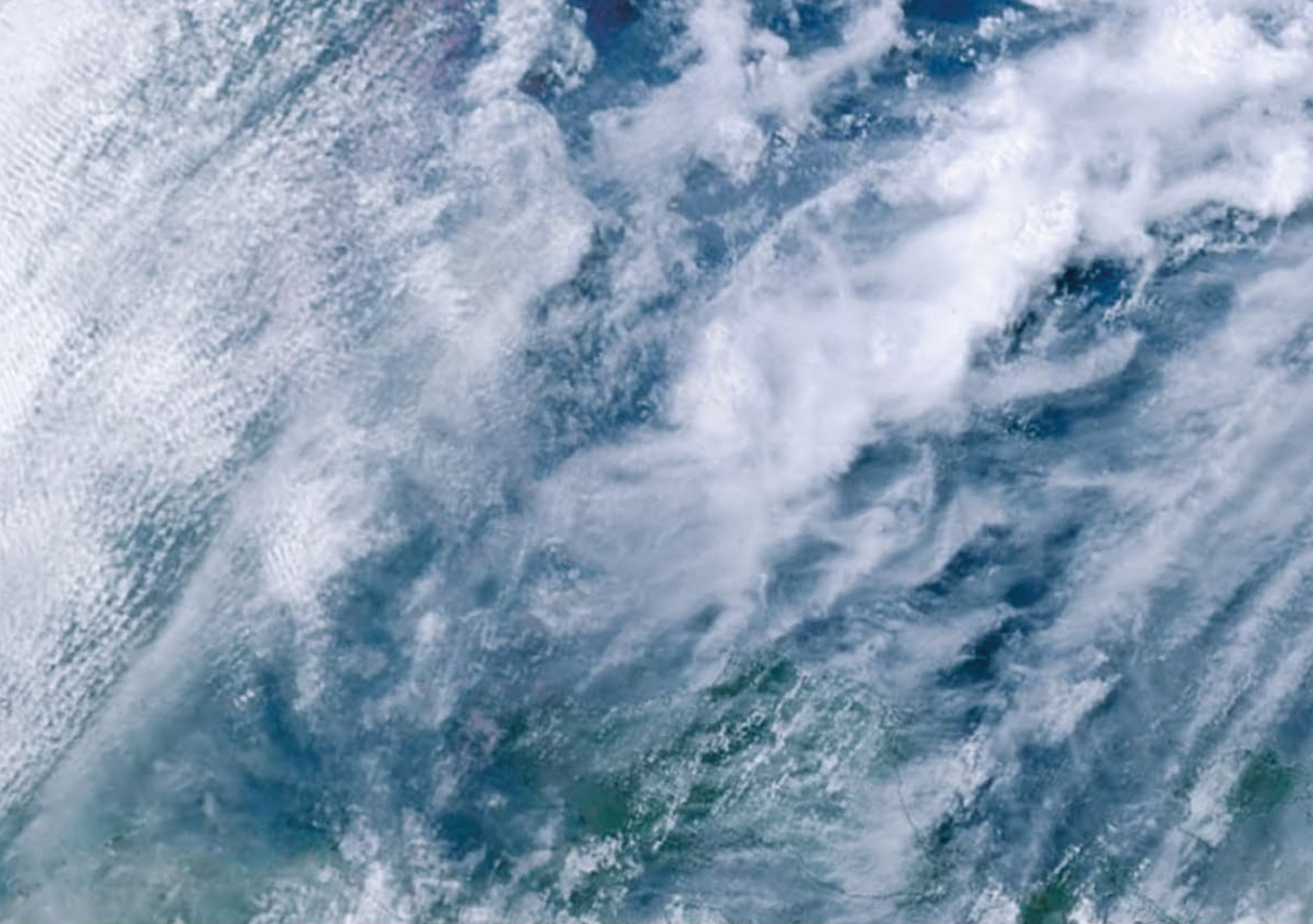
- 1. Discharge Ports
- 2. Rotor (spinner) (2)
- 3. Two Ball Bearings
- 4. Housing
- 5. Static Vanes
- 6. Outlet Pipe (to air cleaner)
- 7. Clamp

APPLICATIONS

The Air Dynamic Precleaners o'cuatro are specially designed to be directly or remotely connected to the mouth of the housing revenue porta filter elements diesel engines, gasoline or compressed natural gas (CNG) trucks..



<p>90%</p> <p>EFFICIENCY Removes up to 90% of impurities (dust, snow, rain, etc.) Before they reach the air filter.</p>	<p>10x</p> <p>AIR FILTER Extend engine air filter life up to 10 times.</p>	<p>50%</p> <p>LESS MAINTENANCE Reduce down time by up to 50%.</p>	<p>MORE SHELF LIFE Prolong engine and turbocharger life.</p>	<p>-10%</p> <p>SAVING Save up to 10 % on fuel costs.</p>	<p>EASY TO INSTALL Three plastic outlet reduction sleeves are provided with each assembly.</p>	<p>VERSATILITY Wide range of applications and flow rates.</p>
<p>DURABILITY Steel housing, powder coat.</p>	<p>SELF-PROPELLED No required electricity or connection to the exhaust gas power to perform the filtering.</p>	<p>SELF-CLEANING They require virtually no maintenance.</p>	<p>AIR FLOW Large airflow, low values of additional restriction.</p>			



advanced filtration technology

v10.14

OBLANSA



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