

# HOUSINGS FOR DRY FILTER ELEMENTS COMBINED SYSTEM WITH DYNAMIC PRECLEANER

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

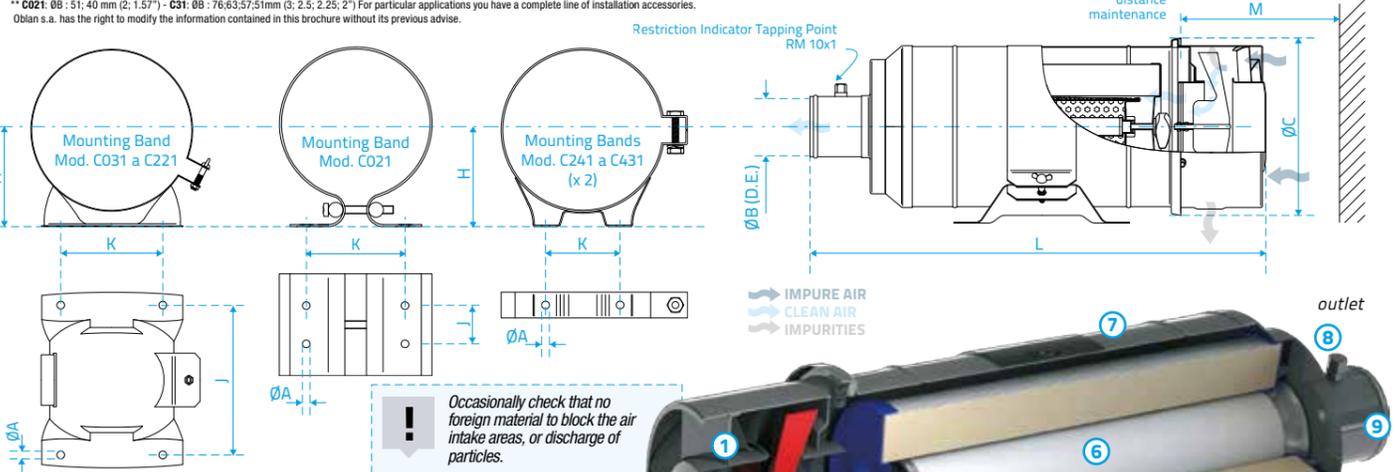
0,5 to 43,0  
m<sup>3</sup>/min.

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 m<sup>3</sup>/min).



MOD.	AIRFLOW RANGE m <sup>3</sup> /min (CFM) (1)	HORSEPOWER RANGE HP (Kw)	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; 57.51 mm (3; 2.5; 2.25; 2") For particular applications you have a complete line of installation accessories.  
Oblan 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 precleaner 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
- 2. Discharge Ports (at the back)
- 3. Two Ball Bearings
- 4. Rotor (spinner)
- 5. Primary Element
- 6. Safety Element
- 7. Housing
- 8. Restriction Indicator Tapping Point
- 9. Outlet Pipe (to the engine)
- 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><b>90%</b> <b>EFFICIENCY</b> Removes up to 90% of impurities (dust, snow, rain, etc.) Before they reach the air filter.</p>	<p><b>10x</b> <b>AIR FILTER</b> Extend engine air filter life up to 10 times.</p>	<p><b>50%</b> <b>LESS MAINTENANCE</b> Reduce down time by up to 50%.</p>	<p><b>MORE SHELF LIFE</b> Prolong engine and turbocharger life.</p>	<p><b>-10%</b> <b>SAVING</b> Save up to 10 % on fuel costs.</p>	<p><b>EASY TO INSTALL</b> and compact size</p>	<p><b>VERSATILITY</b> Wide range of applications and flow rates.</p>
<p><b>DURABILITY</b> Steel housing, powder coat.</p>	<p><b>SELF-PROPELLED SELF-CLEANING</b> No required electricity or connection to the exhaust gas power to perform the filtering.</p>	<p><b>FILTER ELEMENTS</b> Primary filter elements and filter elements compatible with most standard security models.</p>	<p><b>RESTRICTION INDICATOR</b> Have a standard connection port restriction sensor.</p>	<p><b>DIRECT TO ENGINE</b> These air filtration systems in three stages are designed with a single motor connection.</p>	<p><b>AIR FLOW</b> Large airflow, low values of additional restriction.</p>	<p><b>ANCLAJE</b> Cuentan con un sistema de anclaje rebatible que simplifica el mantenimiento.</p>