Marine Air Filter/Silencers For CCV Systems

The Racor Marine Air Filter/Silencer removes contaminants introduced into the air from both outside and inside the vessel. Sand, salt, carpet fibers, and other contaminants are trapped in the oil-impregnated Vaporbloc™ filter media. Turbo noise is reduced by the unique design of the housing. An integral hose connection on the housing routes the clean blowby from the CCV back into the engine.

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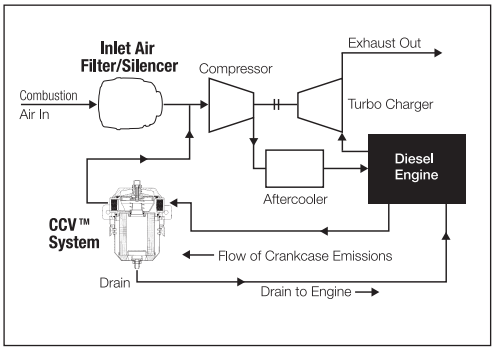
Features and Benefits

- Air Filter/Silencer is standard with an integral vent port for CCV connection.
- Air filter media is washable.
- Prevents turbo and intercooler fouling.



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Marine Engine Application Worksheet

In order to determine the correct Racor CCV system for a particular application, certain engine information is required. A complete kit is composed of the following:

1. Racor CCV assembly
2. Fitting/Hose Kit
3. Air Intake Connector (Tap Sleeve or Marine Air Filter/Silencer Assembly)

1 Select the Racor CCV Assembly:

Racor CCV application is determined by crankcase flow in cubic feet per minute or CFM. Flow on new engines is low but as the engine wears on, the CFM increases. Select the correct Racor CCV model by dividing the engine horsepower output by 40.

Example: CAT 3116/260HP ÷ 40 = 6.5 CFM, select CCV4500
CAT 3406/525HP ÷ 40 = 13.13 CFM, select CCV6000

CCV units are designed to handle crankcase flow rates of up to 50 CFM (1416 l/m).

Maximum Flow Rate	
CCV Model	Flow
CCV4500	10 CFM (283 l/m)
CCV6000	20 CFM (566 l/m)
CCV8000	40 CFM (1133 l/m)
CCV12000	50 CFM (1416 l/m)

Traditionally, the crankcase flow rate can be calculated as follows:
Rated horsepower ÷ 40 = cubic feet per minute (CFM). This formula can only be used as a guide. The blowby flow rate of a worn engine, at time of overhaul, is generally double the flow rate when the engine is new. The flow rate of a worn engine is factored into the formula. **Note**: Specify left or right-hand inlet when ordering.

2 Select a Fitting/Hose Kit:

Fitting/Hose Kits come with both fittings and enough hose for the inlet and outlet sides of the Racor CCV assembly. Racor CCV filter units require straight thread o-ring hose barb fittings available only from Racor distributors. In order to determine the correct application, you will need to know the quantity and the outside diameter of engine breather(s)/hose connection. Fitting/Hose Kits are available in various sizes and hose configurations.

3 Air Intake Connector:

Marine Air Filter Silencer Assembly.
In order to determine the correct marine air filter application, you will need to know the engine's marine air filter rating (AFR) and provide the hose connection to turbo. Choose the correct marine air filter application per the following guideline. Verify that the marine air filter dimensions will fit into your engine room.

4-cycle engines: AFR = HP x 2.0
2-cycle engines: AFR = HP x 2.5

Note: If AFR is close to maximum capacity of the marine air filter as listed above, use the next size larger.

Maximum Flow Rate	
Marine Air Filter	Air Flow Rate
AF M408512	800 CFM (377 l/s)
AF M501012	1200 CFM (566 l/s)
AF M601212	1600 CFM (755 l/s)
AF M701212	2000 CFM (944 l/s)

Example: DDC 12V92TA DDEC (2-cycle – twin turbo):
826 hp x 2.5 = 2065 Combined AFR or 1032.5 AFR per turbo = (2) AF M501012
1110 hp x 2.5 = 2775 Combined AFR or 1387.5 AFR per turbo = (2) AF M601212

CAT 3196 (4-cycle - twin turbo):
660 hp x 2.0 = 1320 Combined AFR = (1) AF M601212; or 660 AFR per turbo = (2) AF M408512

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