



AIR COOLER CLEANER™

DESCRIPTION

AIR COOLER CLEANER is a concentrated liquid solution of aromatic hydrocarbons, powerful surfactants, corrosion inhibitors and strong emulsifying agents designed to attack, penetrate and completely remove mineral oils, grease, soot and other carbonaceous deposits from air coolers and turbochargers in two & four stroke marine diesel engines.

ADVANTAGES AND CHARACTERISTICS

- ◆ Efficiently removes oil, grease and carbon deposits from marine engines, air coolers, scavenging systems and turbochargers.
- ◆ Can be safely used on all metals and metal alloys, as well as on components of an engine without causing any damage.
- ◆ Acts quickly and thoroughly.
- ◆ Prevents the ignition of oil, sludge and soot accumulation.
- ◆ Non corrosive, non-toxic and non-volatile.
- ◆ Water-soluble and when dissolved forms a white-milky emulsion.
- ◆ No known effect on rubber and plastic compounds.
- ◆ May be combined with a specific range of other products.
- ◆ Cost effective, corrosion proof, easy to apply and use.

PHYSICAL PROPERTIES

AIR COOLER CLEANER is an organic solvent-based liquid solution consisting of surface-active agents, a blend of aromatic hydrocarbons and powerful emulsifying agents.

Appearance/Color	: Clear, colorless liquid
Specific gravity	: 0.80 - 0.90 gr/cm ³ at 20°C
Solubility	: Appreciable
Flash point	: >40°C
Odor	: Aromatic Solvent Odor

PACKAGING

Order Number	: 832501 (25 ltrs), 832101 (210 ltrs)
Container	: Steel drum

APPLICATION AND USE

A. Dosing Procedure

The quantity of **AIR COOLER CLEANER** to be used is proportional to the degree of accumulation, the available downtime and the surface area to be cleaned. In any case, when decided, **A.C.C.** may be used undiluted and in quantities feasible to accomplish complete removal of the deposits, when the accumulation is heavy. Whereas, in cases of light deposition, **A.C.C.** may be used with diesel oil, the diluted solution should be appropriate enough to accomplish the desired cleaning.

Using **A.C.C.** diluted with diesel oil or undiluted is beneficiary as the solution may be reused for future oil removal on other engine parts. Note that the above-mentioned is not feasible when the **A.C.C.** is diluted with water.

B. Cleaning Procedure

The application of **A.C.C.** can be done by the circulation, soaking and the injection method.

Circulation is the method used when dismantling of the air cooler is not possible. In this cleaning procedure the air cooler is connected to a buffer tank with inflow and outflow piping, the **A.C.C.** is circulated through, during a period of 4–6 hours by use of a pump. The solution may be heated at a temperature up to 30°C so that we ease the cleaning procedure and accomplish better results. This will significantly reduce the cleaning time, whilst improving the cleaning effect.

Soaking is the method to be used on dismantled air coolers; they should be immersed in a bath filled with undiluted **A.C.C.** In the meantime, the cleaning process can be started by agitating the solution, while heating should be applied at approximately 30°C. Leave to soak for approximately 2 hours, afterwards, remove from bath, rinse with large amounts of warm water under pressure, then blow-dry with air. Note that the immersion period and heating temperature are dependent on the severity of contamination.

Injection is the method, which should be used for the following cases, those dealing with static, those when



dismantling is not possible, and those when the air cooler uses a high-pressure machine. In this procedure, the **A.C.C.** is directly injected into the air cooler unit, which is then left to soak for as long as is needed, in order to keep the deposits soft. Afterwards, rinse thoroughly with plenty of fresh warm water using a high pressure supply and blow it dry with air.

► **Note** that if necessary, the cleaning procedure may be repeated depending on the degree of deposit accumulation.

► **This** cleaning method is only recommended if approved by engine manufacturers.

! SAFETY AND HANDLING

HANDLING	Handle with care. Store in a dry, cool and well ventilated environment.
SAFETY	IMMEDIATE ACTIONS
Eye Contact	Avoid Eye contact. Otherwise, flush with plenty of water for a few minutes. Seek medical attention.
Skin Contact	Avoid Skin contact. Otherwise, wash contaminated area thoroughly with water. Seek medical attention.
Inhalation	Do not breathe gas/vapors. Otherwise, seek fresh air source at once. Seek medical attention. In case of insufficient ventilation, wear suitable respiratory equipment.
If Swallowed	Avoid ingestion. Otherwise, consume a considerable quantity of water. Do not induce vomiting. Seek medical attention.
GENERAL INSTRUCTIONS	Avoid spillage, splashing and mishandling. Precautionary measures for body protection are strongly recommended before use.

 **Read the Material Safety Data Sheet before using this product.**

For detailed information on safety and health, please refer to Material Safety Data Sheet and/or Product Label.

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