Hydro-Chem

HYDRO 292
Special Air Cooled Condenser Cleaner

DESCRIPTION
HYDRO 292 IS A RESEARCH DEVELOPED. WIDE SPECTRUM BLEND OF ORGANIC AND INORGANIC ACIDS. WETTING AGENTS, DETTERGENTS, POLAR SOLVENTS AND A SPECIAL PATENTED INHIBITOR.

PROPERTIES

Appearance	Clear red liquid with pungent odour
pH 1%	2.0 – 3.0
Specific Gravity	1.16 – 1.19 at 20° C

HYDRO 292 IS SPECIALLY MADE FOR USE IN CLEANING OF ALLUMINIUM FINNED AIR-COOLED CONDENSERS.
Hydro 292 is very effective chemical designed to clean alumunium finned air-cooled condensers. Hydro 292 instantly emulsifies, dissolves, and removes the toughest obstructions and oxides, salt deposits, grease, grime, dirt, dust and lint. Equipment efficiency is immediately improved, resulting in less power consumtion and improved system capacity.

Hydro 292 is not harmful to equipment. It does not contribute to metal fatigue or deterioration when using directed.

During normal operations, the fin and tube surfaces of air-cooled condenser can become coated with airborne contamination that will cause restricted heat transfer efficiency as well as reductions on air flow.

Published technical data of both carrier corporations and the trane company indicate that even a moderate amount of dirt allowed to remain on an air cooled condenser can result in a 30% increase in power cast to produce the same amount of cooling as system with a clean condenser.

Air-cooled condensers represent a completely different problem in cleaning than do evaporator/chilled water coils. Seldom, if ever, is a filter of any type used, and they operate.

The lack of a filters results not only on the accumulation of smoke films and lints, but often birds feathers, leaves, insects, grass and other debris that is blown about by wind, bring forced into the condenser as well. In addition, due to high temperature operations, this contaminations is, in effect, baked on.

METHOD OF APPLICATION

Hydro 292 should be applied with a low pressure acids resistant sprayer, starting from the lower part of the condensers and working up. Within minutes after the application of Hydro 292 , the chemical will create a heavy foam, as it expands outward from the center of the coil. The foam as it expands outward through both of the front and back of the coil, will loosen and remove even baked on contamination from the fin and tube surfaces. Hydro 292 “expanding” pushes contamination outward from the coil surface for a easy rinse off, eliminating the problem of pushing contamination deeper into the coil common to pressure spray cleaning.

It is recommended that certain precautions be excercised in the use of Hydro 292. Due to Hydro 292 's acidic, nature be sure to use an acid resistant sprayer, wear rubber gloves, plastic eye protection and use in well ventilated areas.

Be sure thoroughly rinse Hydro 292 from both sides of the condenser and any sheet metal parts of the system. The concentration of Hydro 292 should be used at 15% or 25% depending on the conditions.

Sprayed until it penetrates, and leave for a few minutes to let the foam expand outward.

Rinse copious quantities of water, until free of acids, and if necessary, use a 5% soda ash rinse water.

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