



## Multi-surface detergent - grease remover:

Cooling and refrigeration, air conditioning, kitchens...

CTCY-EN – 82.1-7 / 02-2018

### → CARLYCLEAN / CARLYCLEAN-MC / CARLYCLEAN-F



Flexible extension tube for aerosol

#### Cooling and refrigeration, air conditioning :

Refrigerating and air conditioning systems' heat exchangers are environments that are subject to heat transfer. Any cleaning, grease, dust, corrosion and even bacterium and other micro-organisms act as isolation barriers and contribute to disturbing the exchangers' efficiency.

The air condenser installed outside is directly exposed to these undesirable soils.

In an air conditioning system, all particles (dust, greases, fumes) that are sufficiently small to go through the evaporator filter, accumulate on the fins which are generally wet and make up an ideal environment for bacteria and micro-organism development.

An efficient and harmless cleaning of exchangers is hence a priority in order to preserve their efficiency, increase their service life and maintain a healthy environment for the users.

#### Cold rooms, refrigerated warehouses and commercial kitchens...:

Cleaning surfaces in contact with food is permitted, in indirect contact.



### ■ Applications

- **CARLYCLEAN** is a multi-surface concentrated alkaline degreasing agent, used in particular for the external cleaning of cooling systems and air conditioning systems (heat exchangers, fans, finned batteries), as well as cleaning surfaces in contact with food.
- **CARLYCLEAN** associates the most detergent surface-active agent with the most emulsifying surface active agent. Thus its wetting and sequestering power makes it possible to easily reach, remove and eliminate the soils encountered.
- Regular use of **CARLYCLEAN** optimises the thermal transfer of heat exchangers, maximises efficiency of the system, and extends the life of the facility equipment, as well as increasing energy savings and gains with regard to maintenance costs.
- Intended for professional use, **CARLYCLEAN** eliminates fats, sticky residues, dust...
- **CARLYCLEAN-MC** is a cleaner and degreaser for aluminium micro-channel exchangers.
- Ready to use, neutral pH, preserves the natural protective layer of aluminium oxide from exchangers, non-foaming.
- Intended for professional use, **CARLYCLEAN-MC** removes dust, pollen, grease and viscous deposits.
- **CARLYCLEAN-F** is a multi-surface foam cleaner (for metal, plastic, etc.), packaged in aerosol casing.
- Intended for professional use, **CARLYCLEAN-F** eliminates fats, sticky residues, dust...

- Once the fins are perfectly cleaned-up, further antimicrobial treatment with **CARLYBIO** is recommended for the evaporators: **CARLYBIO** is efficient against bacteria (EN 1276), fungicides (EN 1650) and Legionella (NFT 72.301). Efficiency reports are available upon request.

### ■ CARLY advantages

- Strong multi-surface degreasing capacity (aluminium, steel...)
- Can be used for cleaning materials and articles intended for contact with food (Order dated 19/12/2013). Cleaned surfaces must be rinsed with drinkable water.
- Can be diluted (concentrated product): **CARLYCLEAN 500 / 5000 / 25000**.
- Ready to use, neutral pH, non-foaming, for aluminium micro-channel exchangers : **CARLYCLEAN-MC**.
- Also available as a foam: **CARLYCLEAN-F** (aerosol)
- Biodegradable >70% ; low content of VOC.
- Non-corrosive, non-dangerous for the environment.
- Deodorising product : **CARLYCLEAN/CARLYCLEAN-MC** Citrus fruits perfume, **CARLYCLEAN-F** green tea perfume.
- Available in four content forms: 500ml spray-can, 5 and 25 litre containers, 400 ml aerosol.



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### ■ Functional features

- **CARLYCLEAN-CARLYCLEAN-MC:** Compatible with all materials used in the manufacture of heat exchangers (aluminium, copper, etc.) and protective compounds of fins (varnish, tin plating, etc.)
- **Economical:** CARLYCLEAN is concentrated (packaged in sprayers and containers), and can be diluted. Rinsing is not required if the product is used in diluted form.
- **Environmentally friendly CARLYCLEAN-CARLYCLEAN-MC:** Biodegradable (>70%), low content of VOC (Volatil Organic Compounds): 4,12%, non-dangerous for the environment.
- Created in an **eco-friendly way:** Well-controlled energy levels, water consumption, and waste reprocessing.
- **CARLYCLEAN-F** is a foam cleaner, validated for fortuitous contact with food (homologation InS n°1795799):
- Compatible with all surfaces (plastics, metals...).
- **Environmentally friendly:** Biodegradable (>95%, OCDE 301E), low content of VOC: 19,70%, non-dangerous for the environment
- Non-flammable propellant: R-1234ze (HFO)

### ■ Directions for use

**CARLYCLEAN 500 / 5000 / 25000:** Its concentration may vary widely: It can be used either in pure or diluted form (dilution up to 10%: 9 volumes of water for a volume of **CARLYCLEAN**).

- For heavily soiled surfaces (condensers): for maximum efficiency, it is recommended to perform a pulverisation on the soiled parts, to let the product act for at least 5 minutes, then to rinse with water. Repeat the treatment if necessary.
- For moderately to slightly soiled surfaces (evaporators): **CARLYCLEAN** can be diluted in 5 to 9 volumes of water. Rinsing is not mandatory (Defrosting is sufficient to rinse the fins).

**CARLYCLEAN-F:** Shake the can. Spray 20 cm away from the surfaces to be cleaned. Leave the treatment to work. Wipe off and repeat if necessary.

### ■ Legislation features

- **CARLYCLEAN, CARLYCLEAN-MC and CARLYCLEAN-F** comply with EC Regulation No. 648/2004 on cleaning agents: Compliance with the biodegradability criteria (> 60%, 28 days), containing less than 5 % phosphates and anionic surfactants.
- **CARLYCLEAN** and **CARLYCLEAN-MC** are in conformity with the Ministerial Order of 19 December 2013 on cleaning materials and articles intended to come into contact with foodstuffs.
- **CARLYCLEAN-F** is validated for fortuitous contact with food (homologation InS n°1795799)
- The judicious association of **CARLYCLEAN's** chemical components allows the elimination of soils by emulsion. This process is an efficient technique that only acts on the soils, without altering the fragile surfaces, such as aluminium fins or other nearby materials. Cleaning greasy deposits by emulsion is also healthier for the user and for the environment than some acid and caustic detergents, based on strong chemical interaction formations on the exchangers to degrease them or to remove the microbic flora. Contains Orange terpenes (8008-57-9): May produce an allergic reaction.

### ■ Precautions for use

#### Precautions of use - see the Safety Data Sheet

- Do not spray onto energized electrical equipment.
- In case of contact with skin or eyes, rinse copiously with water.
- Do not swallow.
- Do not breathe vapour. Use only in well-ventilated areas.
- Aerosol: Pressure container.

#### Storage conditions

- Keep the product at temperatures between + 5°C and + 40°C.

#### Frequency of use

- In order to obtain an efficient heat exchange, it is recommended to clean-up the exchangers on a monthly basis.

#### Regulation

- For surfaces in contact with foodstuff, a rinse with drinkable water is required.

#### Waste treatment

- Used aerosols must be disposed of in accordance with the current regulations for hazardous industrial waste.
- After rinsing with water, plastic packaging can be re-used, recycled or disposed of with plastic waste.

#### Application (CARLYCLEAN 500/5000/25000)

- To make the **CARLYCLEAN** use even easier, CARLY proposes a pump with a pressure of 5 L (refer to chapter 100).



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#### ■ Technical features

CARLY references	Volume Litre	Packaging
CARLYCLEAN 500 - CARLYCLEAN-MC 500	0,50	Atomiser
CARLYCLEAN 5000 - CARLYCLEAN-MC 500	5,00	Can
CARLYCLEAN 25000 - CARLYCLEAN-MC 25000	25,00	Can
CARLYCLEAN-F	0,40	Aerosol

#### ■ Spare parts

CARLY references	Spare parts	Description
CARLYCLEAN-F	CY 10207090	Flexible extension tube for aerosol L=60cm
CARLYCLEAN-F	CY 10207095	25 flexible extension tubes for aerosol L=60cm
CARLYCLEAN 500 - CARLYCLEAN-MC 500	CY 44800200	Empty spray bottle, volume = 500 mL

#### ■ Weights and packaging

CARLY references	Unit weight kg	Packaging unit
CARLYCLEAN 500 - CARLYCLEAN-MC 500	0,58	15
CARLYCLEAN 5000 - CARLYCLEAN-MC 5000	5,18	2
CARLYCLEAN 25000 - CARLYCLEAN-MC 25000	26,00	1
CARLYCLEAN-F	0,51	12