



## Airmax II NH<sub>3</sub>

Unit cooler industrial line for ammonia refrigerant



### Application

This new Industrial Line of cubic coolers is designed to keep refrigerated fresh and frozen goods in medium to very large size of cold storages. This is possible thanks to a wide range of capacity (from 18 to 160 kW), through the availability of different fan diameters (up to 800 mm), several fin spacings and a long list of options.

With the new frame design and the improved features in the coil manufacturing, the industrial line allows the clients to select the best model to fit all the needs in the heavy application of the ammonia installations.

### Standard design

#### Coil

The heat exchanger is designed to offer the best performance in cooling for the considered application in order to minimise the refrigerant charge. The coil pitch is 60 x 60, with the tubes in line of 16 mm stainless steel material and aluminium fins. This new pattern is characterised by a large heat exchanger

surface which ensures longer intervals between defrost cycles. The only one inlet and outlet connection, with combination of the different large fin spacing (6, 8, 10 and 12 mm) and the several coil block modules make the new line an innovative product range in the market.

### Frame and casing

All units use galvanized steel painted RAL 9002, while the drip tray is in aluminium painted.

The frame has been designed in order to ensure an easy installation and maintenance. A large and deep drip tray permits a fast discharge of the water defrosting, with regard to the bottom storage goods. The supports have two different positions (flush mounted or space) to consent to install the water defrost cassette.

Structural parts are fastened with stainless steel bolts and screws. Structures made of galvanised steel, with optimised length to permit uniform air suction in the coil.

## Fans

Four different fan diameters available: 500, 560, 630 and 800 with three-phase motors (4/6 poles) 400V-50/60 Hz. The motors are with external rotor, constructed in accordance with VDE 0530/12.84. Protection class IP 54 according to DIN40050. Integrated thermal protection by thermo contacts, provide reliable protection against thermal overload.

Sickle bladed die cast aluminium impeller and fan guard of steel cataphoresis black coated.

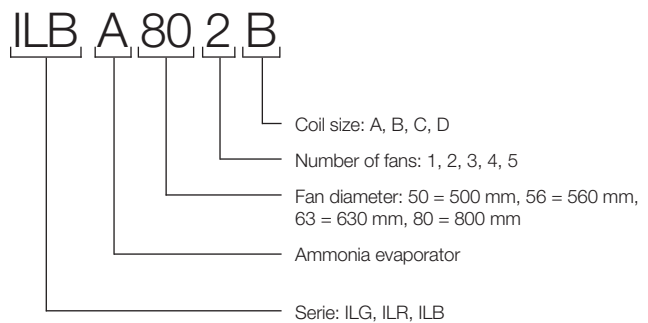
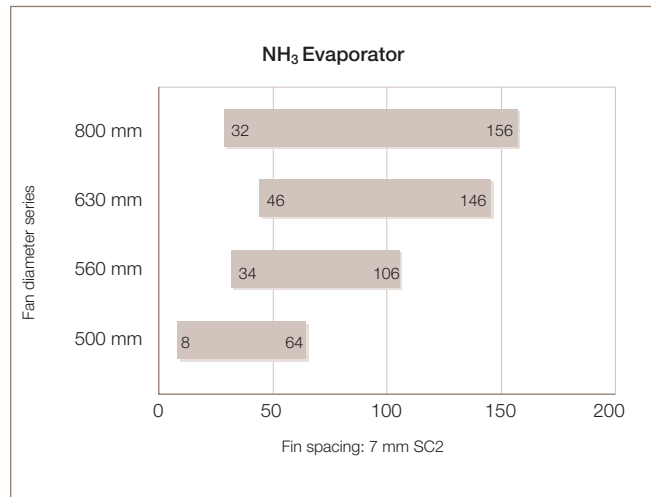
All the standard fan motors can work down to -40°C; special lubrication is suitable upon request.

## Benefits

- High energy efficiency class
- Plug-in installation
- Easy maintenance
- Correct design for any working conditions
- Silence installation
- Performance reliable
- Safety equipment
- Several options available

## Options

- Fan prewired to common terminal box
- Stainless steel drip tray
- Insulated drip tray
- Stainless steel casing
- Special powerful fan motors
- Air throw fan cowl
- AlfaStreamer
- Air sock adapter ring
- Fan ring heater
- Epoxy pre-coated fins
- Cataphoresis treatment
- Floor mounting supports
- Motor cabling
- Hot gas defrost (coil + drip tray) fully connected
- Hot gas defrost loose
- Electric defrost
- Light electric defrost
- Water defrost
- Combined defrost systems



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Alfa Laval reserves the right to change specifications without prior notification.

## How to contact Alfa Laval

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