



IF 15

Interface



Gebruikershandleiding

User manual



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TAKE YOUR TIME TO CAREFULLY READ AND UNDERSTAND THE MANUAL BEFORE USING THE PRODUCT.
ALWAYS KEEP THE MANUAL WITH THE PRODUCT



PREFACE

Using this manual

This manual is intended to be used as a work of reference for professional, well trained and authorised users to be able to safely install the interface IF 15. Take your time to carefully read and understand the manual before mounting the IF 15. Always keep the manual with the product.

Pictograms and symbols

The following pictograms and symbols are used in this **manual**:



Suggestions and recommendations to simplify carrying out tasks and actions.



CAUTION!

Procedures which, if not carried out with the necessary caution, caution, could damage the product, the workshop or the environment.

Related documentation

The following related documents are available:

- 0507230010/WL
- 0507350010/AST
- 0507380010/NCW 11

Manual number

The manual number consists of four fields:

- field 1: article number manual
- field 2: product name
- field 3: version
- field 4: year of issue

IDENTIFICATION OF THE PRODUCT

The identification plate (fig. 1) contains the following data:

- A serial number
- B product name
- C supply voltage and frequency (50/60 Hz)

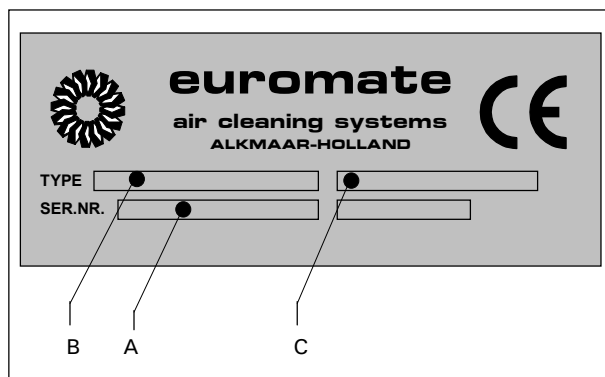


fig. 1

SAFETY INSTRUCTIONS



The manufacturer does not accept any liability for damage to the product or personal injury caused by non-observance of the safety instructions in this manual, or by negligence during installation, use, maintenance and repair of the product mentioned on the cover of this document.

If the product is used in combination with the earlier mentioned product or machines (see "Related documentation"), the safety instructions in the documentation of these products also apply.

- The user of the product is always fully responsible for observing the local safety instructions and regulations.
- Everyone working on or with the product, must be familiar with the contents of this manual.
- Never change the order of the steps to perform.
- The product has been designed especially as interface between the control box CB and the frequency control. Using the product for other purposes is considered contrary to its intended use. The manufacturer accepts no liability for any damages or injury resulting from such use. The product has been built in accordance with state-of-the-art standards and recognised safety regulations.
- Only use the product in technically perfect condition.
- Inspect the product and check it for damage.
- Protect the product against water and humidity.
- Never use the product in an explosive environment.
- Make sure that the workshop contains sufficient approved fire extinguishers.



TECHNICAL SPECIFICATIONS

Dimensions

- See fig. 2.



fig. 2

Electric system

- See the identification plate and the separately supplied electric diagram.

Ambient conditions

Min. operating temperature	5°C
Max. operating temperature	45°C
Max. relative humidity	80%

GENERAL DESCRIPTION

The interface IF 15 should always be used in combination with a control box CB and a frequency control. The frequency control should be suitable to handle a power of at least 7,5 kW and to convert input signals of 4-20 mA. The IF 15 is used in a fixed installation and gets its voltage supply of 24 VAC/DC from the nearest control box CB.

The product has been designed especially as interface between the control box CB and the frequency control/fan and converts the input signals of the AST to an output signal of 4-20 mA, in order to control the extraction volume of the fan by means of the frequency control.

The product consists of the following main components (see fig. 3):

- A cover
- B housing
- C PC board IF 15



fig. 3

INSTALLATION

Unpacking

- Check that the packing is complete. The packing should contain:
 - control box IF 15
 - user manual
 - electric diagram

If parts seem to be missing or damaged, contact your supplier.

Installation



CAUTION!

Do not position the product in places where it is exposed to vibrations or heat radiation from heat sources.

Observe the earlier given ambient conditions. When drilling the holes note any gas, water and electricity lines.

- Loosen the mounting screws and remove the cover (see fig. 4).
- Attach the housing using four screws against the wall. For this purpose mounting holes (B) have been provided in the housing (see fig. 4).
- Connect the IF 15 electrically to:
 - mains 24V, BN/WH
 - frequency control out 4-20 mA
 - CB 1/15, BK1/15

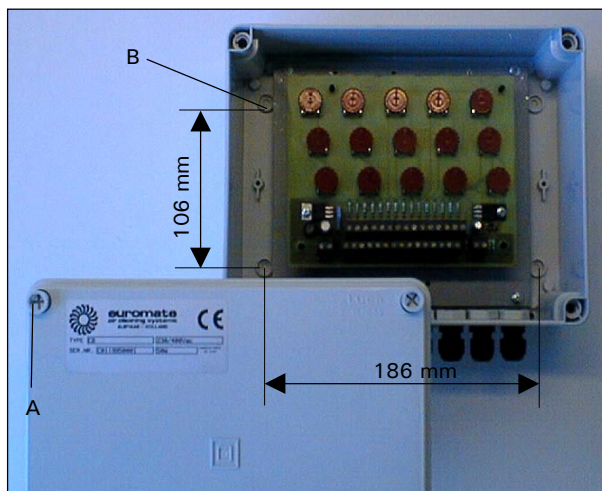


fig. 4

Electric connection



CAUTION!

Make certain that the product can be connected to the local mains. Specifications with respect to supply voltage and frequency can be found on the identification plate. Connect the wiring in conformance with the regulations. Connecting the product is reserved to well-trained and authorised service engineers.

Mains (24V AC/DC)

- Feed the supply cable of the 24V of the control box CB through the grommet and connect it in accordance with the supplied electric diagram.
- Tighten the cap nut.

Frequency control (4-20 mA)

- Feed the supply cable to the frequency control through the grommet and connect it in accordance with the supplied electric diagram. Pay attention to the plus and minus connections.
- Tighten the cap nut.

CB 1 to 15

- Feed the supply cable of the control box CB through the grommet and connect it in accordance with the also supplied electric diagram.
- Tighten the cap nut.

The IF 15 is suitable to connect a maximum of 15 control boxes CB. Each of these control boxes CB can be adjusted separately by means of the potentiometers 1-15 (see fig. 5).

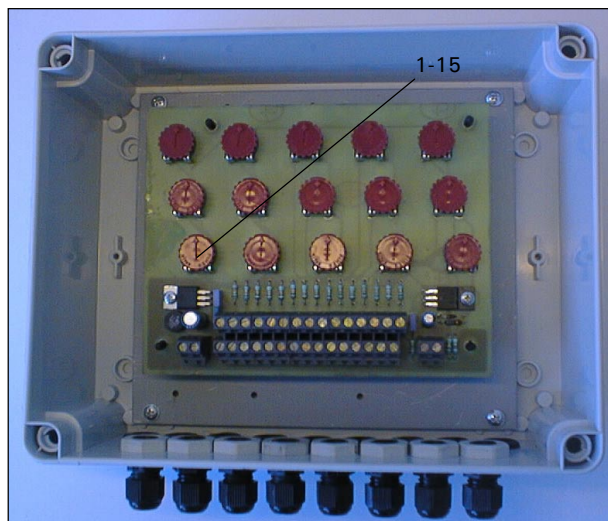


fig. 5



CAUTION!

Prevent damage. Note the colour codes when connecting.

- Tighten the cap nut.
- After connecting the electrical components the adjustment can be finished.

FUNCTIONING AND SETTING OF THE INSTALLATION

The IF 15 - in combination with one AST + CB for each extraction point and a central fan with frequency control - can control the extraction volume in steps. The more extraction points are switched on by means of the AST, the quicker the fan runs and the higher the extraction volume will be.

Connect one connector, numbered from 1 to 15, per extraction point. The maximum number of connections is 15. By means of the potentiometers on the p.c. board of the IF 15, the step size of the extraction volume can be adjusted per control box CB. In case of six operating extraction points, the total value should be 100%. This means that each connected potentiometer should be set at a minimum value of 17,5%.

If at a certain extraction point a higher extraction volume is desired, the belonging potentiometer can be adjusted proportionally higher. If more than six extraction points are switched on in that case, the maximum will not exceed 100%.



TROUBLESHOOTING



For remedying errors which apply to not (correctly) functioning of the WL, the AST and/or the CB, see the corresponding manuals. If you cannot remedy any other problems, contact your supplier.

ORDERING SPARE PARTS

The spare parts available for the product are given in fig. 6.



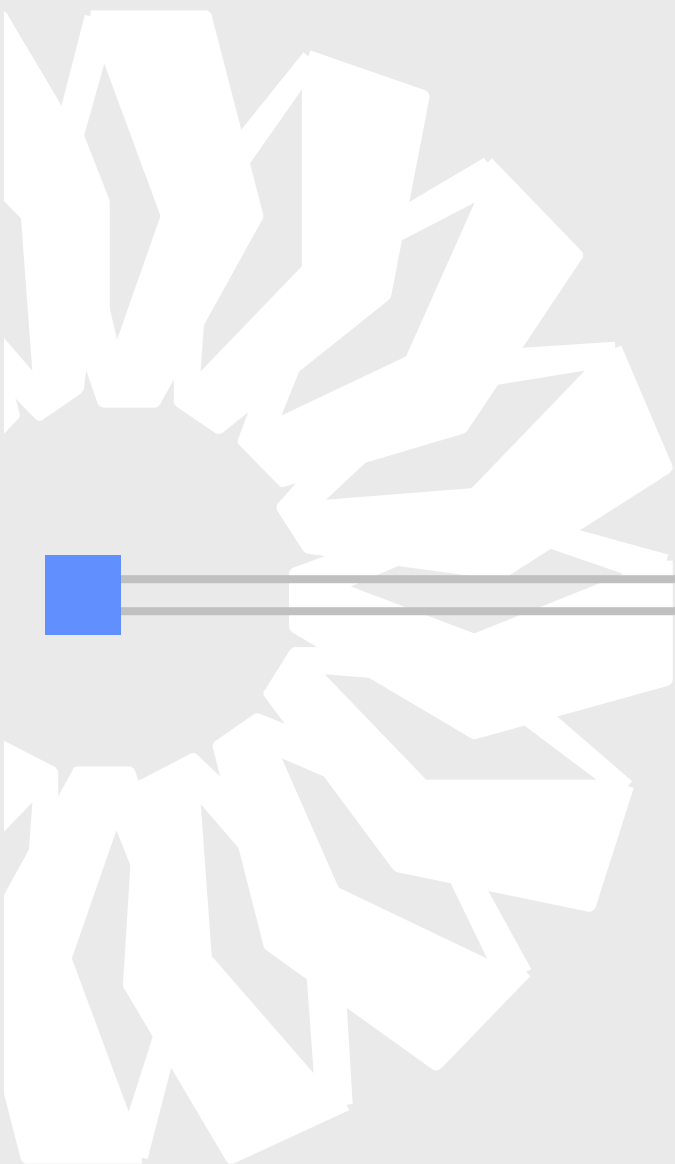
fig. 6

- Address your order to your supplier and always state the data below:
 - product name, supply voltage and serial number (see the identification plate)
 - article number of the particular part (see the electric diagram)
 - or
 - position number of the particular part (see fig. 6)
 - description
 - quantity

fig. 6:

Pos. no.	Description	Remarks
1	PC board IF 15	-





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