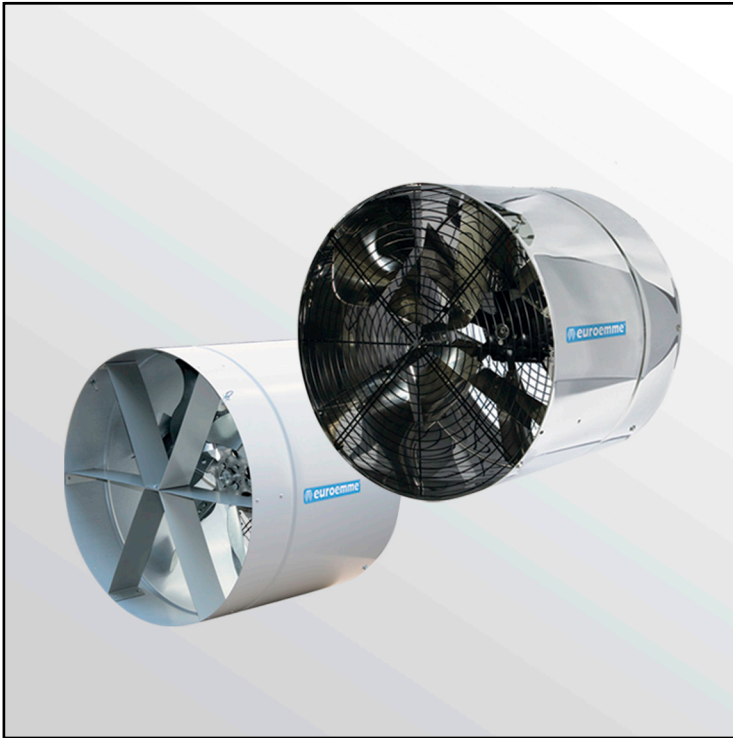


EDC - EDX

Manual for use and maintenance



+ CE Declaration of conformity

EDC - EDX

Air circulation fan

Models: EDC18 - EDX18

EDC24 - EDX26

EDC - EDX

Manual for use and maintenance

Revision: No. 3 of 22.04.2013

This manual for use and maintenance is an integral part of the apparatus together with the attached technical documentation and has been produced with reference to Directive 2006/42/EC, paragraph A, Annex II.

This document is destined for the user of the apparatus: it may not be reproduced in whole or in part, committed to computer memory as a file or delivered to third parties without the prior authorisation of the assembler of the system.

Munters Italy S.p.A. reserves the right to effect modifications to the apparatus in accordance with technical and legal developments.

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CE DECLARATION OF CONFORMITY

(complies with Subparagraph A Annex II Directive 2006/42/EC)

Munters Italy S.p.A.

with registered offices in Strada Piani 2 - 18027 Chiusavecchia (IM) - Italy

DECLARES ON ITS OWN RESPONSIBILITY THAT THE APPARATUS

Designation	Air circulator designed for forcing air circulation in greenhouses and farms
Model	EDC18 - EDX18 - EDC24 - EDX26
Year of manufacture	2012

CONFORMS WITH THE ESSENTIAL SAFETY REQUIREMENTS STATED
BY APPARATUS DIRECTIVE 2006/42/EC

WITH PARTICULAR REFERENCE TO THE FOLLOWING PROVISIONS:

UNI EN 953:2009, UNI EN ISO 12100:2010, UNI EN ISO 12499:2009,
UNI EN ISO 13857:2008, CEI EN 60204-1:2006 (CEI 44-5).

Chiusavecchia, 22th April 2013

Marco Scomparin



Legal representative

1.1 Disclaimer

Munters reserves the right to make alternations to specifications, quantities, dimensions etc. for production or other reasons, subsequent to publication. The information contained herein has been prepared by qualified experts within Munters. While we believe the information is accurate and complete, we make no warranty or representation for any particular purposes. The information is offered in good faith and with the understanding that any use of the units or accessories in breach of the directions and warnings in this document is at the sole discretion and risk of the user.

1.2 Introduction

Congratulations on your excellent choice of purchasing an EDC/EDX fan!

In order to realize the full benefit from this product it is important that it is installed, commissioned and operated correctly. Before installation or using the fan, this manual should be studied carefully. It is also recommended that it is kept safely for future reference. The manual is intended as a reference for installation, commissioning and day-to-day operation of the EDC/EDX fans.

1.3 Notes

Date of release: 2012.

Munters cannot guarantee to inform users about the changes or to distribute new manuals to them.

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The safety of fans is assured by Munters in compliance with the safety requirements indicated by the CE label. Safe functioning is assured only when the installation procedures and the instructions for use have been carefully followed. The following points must be stressed:

- proper transport procedure must be followed;
- do not remove the safety meshes;
- all the fans installed at a height lower than 2.7 m from ground level must be equipped by extra safety kits, which can be ordered and should be mounted on the fan side;
- inform the maintenance operator on maintenance procedure; create an efficient ground wiring; adopt disconnecting and safety automatic devices against overloadings and short circuits.



WARNING

Do not operate the fan without having it firmly fixed to the structure or without complying with the safety regulations for the electrical connection.

Do not install the fan in places where there might be explosion hazards as described by C.E.I.64-2 rules and do not handle any material which might produce explosive powders, as stressed in the same rules.

If used as an air extractor, the emission of polluting gases into the atmosphere must be within the limits determined by local authorities.

Fans must be installed at a safe height to leave the way free for the transit of transport and operators.



WARNING

The fan must only be used if it is in perfect operating condition, by personnel, aged more than 14 years who are perfectly aware of the safety measures and possible hazards, and in strict compliance with the instructions given in this manual.

3.1 Packaging and transport

Fans are packed individually in cardboard wrappers according to delivery requirements.



WARNING | Always wear protective clothing and gloves during fans handling.

3.2 Structure

Air Circulators consists of the following components:

- sheet body riveted, without welding spots, in galvanised or precoated or stainless steel 304;
- six blades propeller in stainless steel 304 on EDX18 and EDX26 models;
- six blades propeller in stainless steel 430 (except EDC18) or galvanised or precoated on EDC18 and EDC24;
- blades fixed with aeronautical rivets (except EDC18 blades fixed with M6 screws class 8.8 or higher);
- asynchronous three-phases electric motor (single-phase on request), 50/60Hz, IP55 protection class, fixed or adjustable speed;
- flow straightener;
- one or two safety meshes.

Air circulators are designed to create air circulation inside farms and greenhouses and meant to maintain both the environment temperature and humidity constant and uniform.

Working ambient temperature limits are -25°C to $+50^{\circ}\text{C}$. Maximum altitude is 1000 m above sea level. If a fan is required to operate at a higher altitude, the loss in mass flow (heat removing capacity) due to lower air density should be taken into consideration.

Circulators are delivered fully assembled. The fan is supplied without a control box; the installer shall provide a suitable control box in compliance with the requirements specified by the EN 60439-1 standard. Circulators are designed and built for hanging installation and have therefore eyebolts to be hung.



WARNING

Always check up if cable and chain dimensions are suitable to hold up the fan's weight and if they have the proper length to distribute the strain uniformly (fig.1).

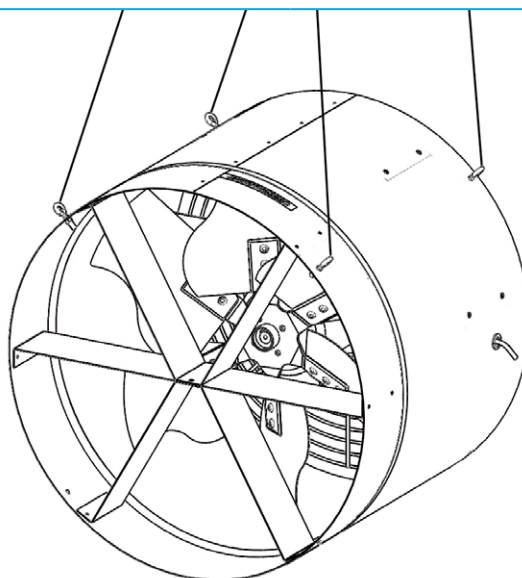


fig.1

Electrical connection

Fans are supplied with all the internal electrical connections set, with the exception of the connection to the power line through a thermo-magnetic switch adapted to the power of the motor.



WARNING

The electrical cable must be tense inside the body to avoid any interference with the propeller.

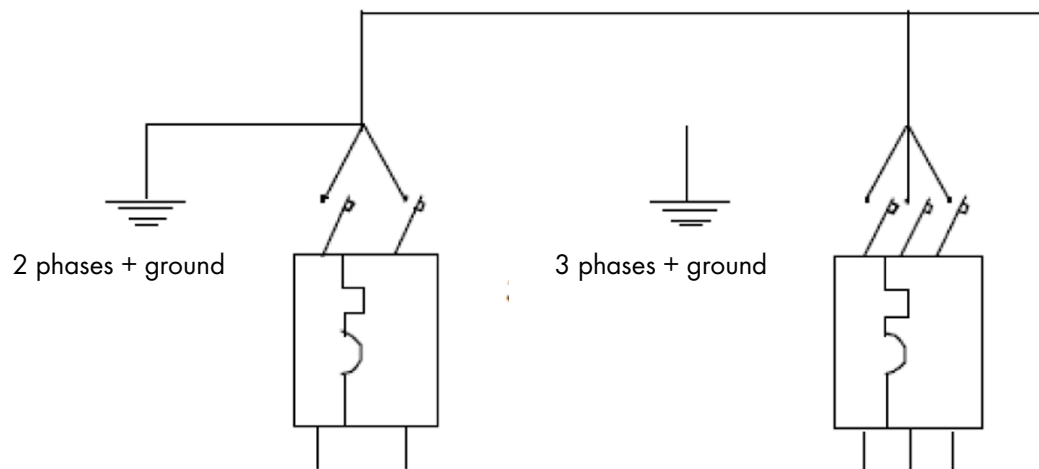


fig.2

Usually motors installed on circulators are:

- single-phase or three-phases, 230V, 50/60Hz;
- three-phases, 400V, 50/60Hz.



WARNING

Ground connection is required to be according to the EN 60204-1 regulation.

5.1 Use



WARNING

Fans should not be installed in places where children aged 14 years or less are present.

It is forbidden to remove the safety meshes until all people are clear of the fans.

Risks connected to moving parts

All the moving parts are protected by a case or placed inside the body. Even in case of breakings (fan, blades,...) there are no risks of injury for people.

Switching on and switching off

Switching on and switching off operations pass through not supplied equipments.

Operating conditions

Looking at the airflow rectifier, the propeller should turn clockwise (fig.3).

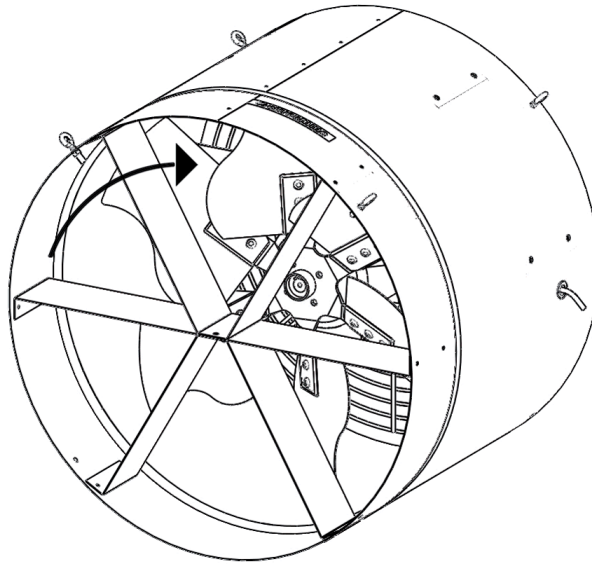


fig.3

Emissions in the atmosphere

If used as an air extractor, the user should carry out the checks and fulfilments in compliance with the regulations about the inflow of polluting substances into the atmosphere.

Cleaning

During cleaning operations the power switch must be in the off position and locked by a padlock. It is necessary to perform periodic cleaning of safety meshes, airflow rectifier and blades using brushes or compressed air.



WARNING

In order to avoid any damage, cleaning the motor directly with water jets must be avoided.

After installation, follow the steps mentioned below to verify that the fan is working properly:

1. check if all the fans are secured tightly to the suspension;
2. ensure that all the necessary safety equipment is fitted to the fans;
3. ensure that all electrical connections are done properly and comply with local regulations;
4. note in which direction the propellers are supposed to turn;
5. remove all obstacles from the front and back sides of the fan;
6. ensure that all people and animals are standing clear of the fan;
7. turn the electrical power to the fans on;
8. observe the direction in which the propeller of each of the fans is turning;
9. turn the electrical power to the fans off.



WARNING

Do not attempt to correct any problem observed during the above mentioned steps while the fan is in operation. Wait until the electrical power has been switched off and the fan has come to a complete stand still. Lock the electrical switch in the off position with a pad lock while working on the fan.

7.1 Dimensions

Dimensions

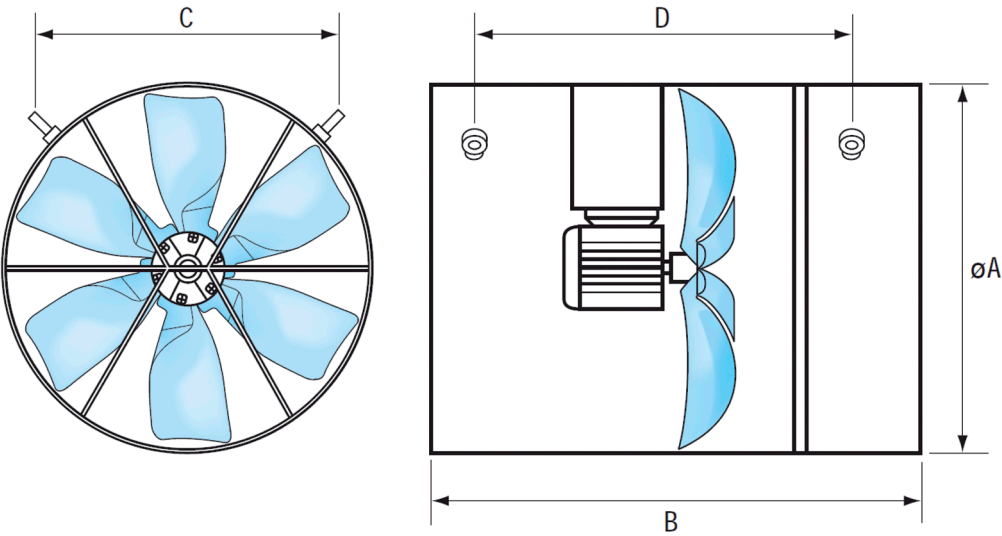


fig.4

A	B	C	D
EDC18 - EDX18			
465	500	350	420
EDC24			
620	500	580	420
EDX26			
678	605	505	525

7.2 Motor specifications

Model		Nominal Power [W] [hp]		Phases	Speed	Frequency [Hz]	Voltage [V]	Current [A]	rpm	Poles
EDX18	EDC18	240	0.33	3	single	50	230/400	1.7/1	1,400	4
		240	0.33	3	single	60	230/400	1.7/1	1,700	4
		240	0.33	1	single	50	220	2.5	1,400	4
		180	0.25	1/3	single	50	230/400	1.12/0.65	900	6
		180	0.25	3	single	60	230/400	1.12/0.65	1,100	6
EDX26	EDC24	370	0.5	3	multi*	50	230/400	2.5/1.5	900	6
		370	0.5	3	multi*	60	230/400	2.5/1.5	1,100	6
		370	0.5	1	multi*	50	220	4	900	6
		370	0.5	1	single	60	220	4	1,100	6
		370	0.5	3	single	50	230/400	2.1/1.2	925	6
		370	0.5	3	single	60	230/400	2.1/1.2	1,100	6

* Multi speed motors must be regulated with auto-transformer which is not supplied.

7.3 Technical specifications

	EDC18 6 poles	EDC18 4 poles	EDX18 4 poles	EDC24	EDX26
Weight of fully equipped air circulator* [kg]	15	16	17	22	26
Nominal propeller speed 50/60Hz [rpm]	900/1,100	1,400/1,700	1,400/1,700	900/1,100	900/1,100
Airflow at 0 Pa* [m³/h] [cfm]	2,600 [1,530]	3,950 [2,325]	4,027 [2,370]	7,400 [4,350]	10,300 [6,060]
Specific performance at 0 Pa* [m³/Wh] [cfm/W]	16.1 [9.5]	9.2 [5.4]	11 [6.5]	11.2 [6.6]	17.9 [10.5]
Propeller diameter [mm] [inch]	450 [18]	450 [18]	450 [18]	600 [24]	650 [26]
Number of blades	6	6	6	6	6
IEC protective class of electric motor	IP55	IP55	IP55	IP55	IP55

Electric motor winding insulation grade	F	F	F	F	F
Max noise level at 1.95m	71.5	75.5	75.7	76.5	76

* All values refer to 3 phases 50Hz single speed motors.

Note: airflow data are measured at standard conditions (20 °C, 1,013hPa)

Maintenance of circulators only consists in regular cleaning, as they do not contain parts needing periodic lubrication: all the moving parts are either manufactured from self lubricating materials or are sealed with lifetime lubrication.

Maintenance operations must only be carried out by qualified personnel, as:

- mechanical operator or assembler (for mechanical parts);
- electrician (for the electrical equipment).

All the maintenance operations must be carried out with:

- the power switch in the off position and locked by a padlock;
- the fan removed from work position after unhooking chains or cables;
- the propeller at a complete stand still before removal of protections;
- the use of ladders complying with the safety regulations in case of fans installed at a certain height;
- a suitable equipment for maintenance operations.

Replacement of the propeller

If damage occurs, it is necessary to replace the whole propeller.

Replacement procedures of the propeller group in the EDC18, EDX18, EDC24, EDX26 models (see Chapter 9, fig. 5,6,7,8):

- loosen the fixing screws and remove the safety mesh;
- unscrew the bolts fixing the motor bracket to the body;
- pull the motor/propeller group out of the body and replace the damaged propeller;
- reassemble the circulator following the reverse procedure.



WARNING

Do not operate the fan with the safety protections removed: safety meshes can be removed only with specific tools by qualified technicians when the fan reaches a complete standstill.

The fixing systems of the safety protections are not interchangeable with other devices. Therefore, if for maintenance reasons the user damages or loses any component, this must be definitely ordered from the constructor as spare parts and it cannot just be replaced with other components, even similar, not supplied by the constructor itself. In this particular event the constructor refuses all responsibility on consequent damages caused to things and people and considers any kind of warranty lost.

Functionality check of the thermo-magnetic switch:

- open the electrical control panel;
- check the absence of electrical continuity between the terminals upstream and downstream the thermo-magnetic switch; in case of electrical continuity replace the switch;
- close the electrical control panel;
- switch on the fan.

Spare part list

9.

EDC18

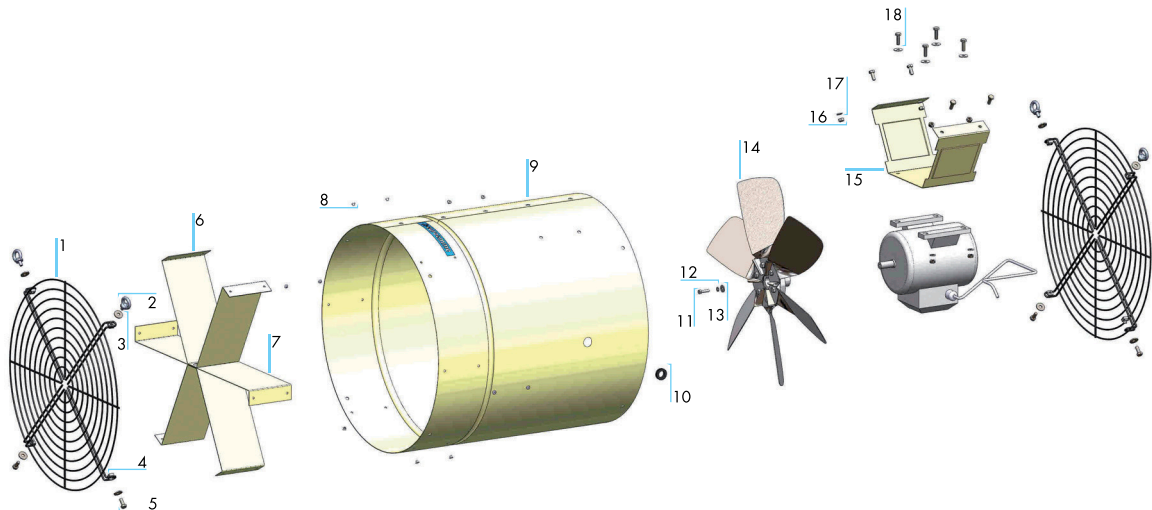


fig.5

Ref.	Description	Quantity
1	SAFETY MESH	2
2	EYEBOLT M6 DIN 580	4
3	PLAIN WASHER 6X18 ISO 7093	12
4	CAGE NUT M6	8
5	HEX BOLT M6X16 UNI 5739	8
6	AIRFLOW STRAIGHTENER, LONG	2
7	AIRFLOW STRAIGHTENER, SHORT	1
8	POP UP RIVET D3.9X7 ALUMINUM	17
9	FRAME	1
10	DOUBLE-SIDED GROMMET	1
11	HEX BOLT M5X16 UNI 5739	1
12	SPRING WASHER 5 DIN 128	1
13	PLAIN WASHER LARGE 5X20 ISO 7089	1
14	COMPLETE PROPELLER (HUB, BLADES, BOLTS&SCREWS)	1
15	MOTOR SUPPORT	1
16	HEX NUT M6 UNI 5588	8
17	SPRING WASHER 6 DIN 128	8
18	HEX BOLT M6X20 UNI 5739	4

Motor	
	ONE SPEED 3PHASES MOTOR HP0,33 400 50/60HZ ONE SPEED 3PHASES MOTOR HP 0,15 400 50/60HZ
	GALVANIZED GP PROPELLER 50HZ
	PRECOATED GP PROPELLER 50HZ
	GALVANIZED GP PROPELLER 60HZ
	PRECOATED GP PROPELLER 60HZ
	ONE SPEED 1PHASE MOTOR HP0,33 230 50HZ
	GALVANIZED GP PROPELLER 50HZ
	PRECOATED GP PROPELLER 50HZ
EDX18	

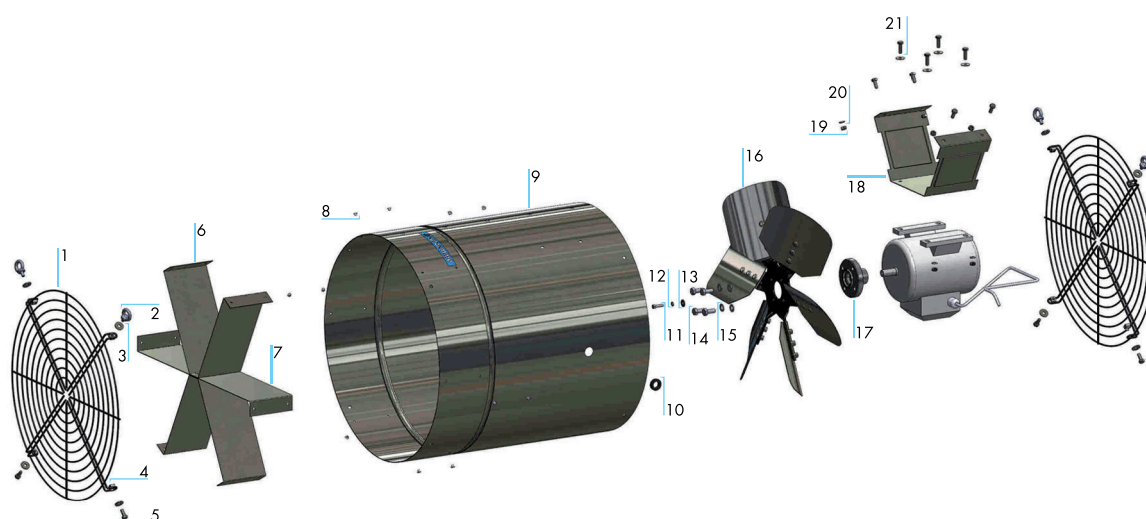


fig.6

Ref.	Description	Quantity
1	SAFETY MESH	2
2	EYEBOLT M6 S.S. DIN 580	4
3	PLAIN WASHER 6X18 S.S. ISO 7093	12
4	CAGE NUT M6	8
5	HEX BOLT M6X16 S.S. UNI 5739	8
6	AIRFLOW STRAIGHTENER, LONG	2
7	AIRFLOW STRAIGHTENER, SHORT	1
8	POP UP RIVET D3.9X7 ALUMINUM	17
9	FRAME	1
10	DOUBLE-SIDED GROMMET	1
11	HEX BOLT M5X20 S.S. UNI 5739	1
12	SPRING WASHER 5 S.S. DIN 128	1
13	PLAIN WASHER LARGE 5X20 S.S. ISO 7089	1
14	HEX BOLT M8X20 S.S. UNI 5739	4

15	EXT TOOTH WASHER 8 S.S. UNI 6798	4
16	PROPELLER (SPIDER+BLADES)	1
17	PROPELLER HUB ALUMINUM	1
18	MOTOR SUPPORT	1
19	HEX NUT M6 S.S. UNI 5588	8
20	SPRING WASHER 6 S.S. DIN 128	8
21	HEX BOLT M6X20 S.S. UNI 5739	4
Motor		
ONE SPEED 1PHASE MOTOR HP0,33 230 50HZ ONE SPEED 3PHASES MOTOR HP0,33 400 50/60HZ		
S.S. 304 GP PROPELLER 50HZ		
S.S. 304 GP PROPELLER 60HZ		
EDC24		

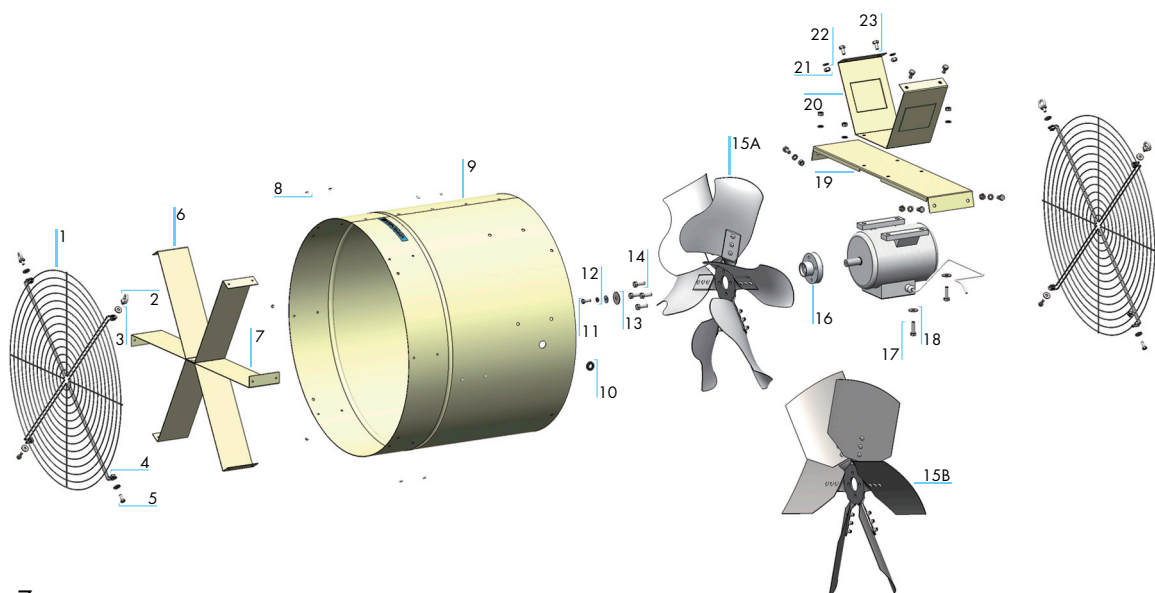


fig.7

Ref.	Description	Quantity
1	SAFETY MESH	2
2	EYEBOLT M6 DIN 580	4
3	PLAIN WASHER 6X18 ISO 7093	9
4	CAGE NUT M6	4
5	HEX BOLT M6X16 ISO 4018	4
6	AIRFLOW STRAIGHTENER, LONG	1
7	AIRFLOW STRAIGHTENER, SHORT	1
8	POP UP RIVET D3.9X7 ALUMINUM	17
9	FRAME	1
10	DOUBLE-SIDED GROMMET	1
11	HEX BOLT M6X20 ISO 4018	1
12	SPRING WASHER 6 DIN 128	1

13	PLAIN WASHER 8X32 ISO 7093	1
14	HEX BOLT M8X25 ISO 4018	4
15A	PROPELLER (AM BLADES)	1
15B	PROPELLER (GP BLADES)	1
16	ALUMINUM HUB	1
17	HEX BOLT M8X30 ISO 4018	4
18	PLAIN WASHER 8X24 ISO 7093	4
19	MOTOR PLATE	1
20	MOTOR PLATE SUPPORT	1
21	HEXAGON NUT M8 ISO 4032	12
22	SPRING WASHER 8 DIN 128	12
23	HEX BOLT M8X16 ISO 4018	8
Motor		
	MULTISPEED 3PHASES MOTOR HP0,5 400 50/60HZ	
	GALVANIZED AM PROPELLER 50HZ	
	GALVANIZED AM PROPELLER 60HZ	
	PRECOATED AM PROPELLER 50HZ	
	S.S. AM PROPELLER 50HZ	
	PRECOATED AM PROPELLER 60HZ	
	S.S. AM PROPELLER 60HZ	
	ONE SPEED 3PHASES MOTOR HP0,5 400 50/60HZ	
	GALVANIZED GP PROPELLER 50HZ	
	S.S. GP PROPELLER 50HZ	
	GALVANIZED GP PROPELLER 60HZ	
	PRECOATED AM PROPELLER 50HZ	
	MULTISPEED 1PHASE MOTOR HP0,5 230 50HZ	
	S.S. GP PROPELLER 50HZ	
	GALVANIZED GP PROPELLER 50HZ	
	GALVANIZED AM PROPELLER 50HZ	
	PRECOATED AM PROPELLER 50HZ	
	S.S. AM PROPELLER 50HZ	
	MULTISPEED 1PHASE MOTOR HP0,5 230 60HZ	
	GALVANIZED AM PROPELLER 60HZ	
	PRECOATED AM PROPELLER 60HZ	
	S.S. AM PROPELLER 60HZ	

EDX26

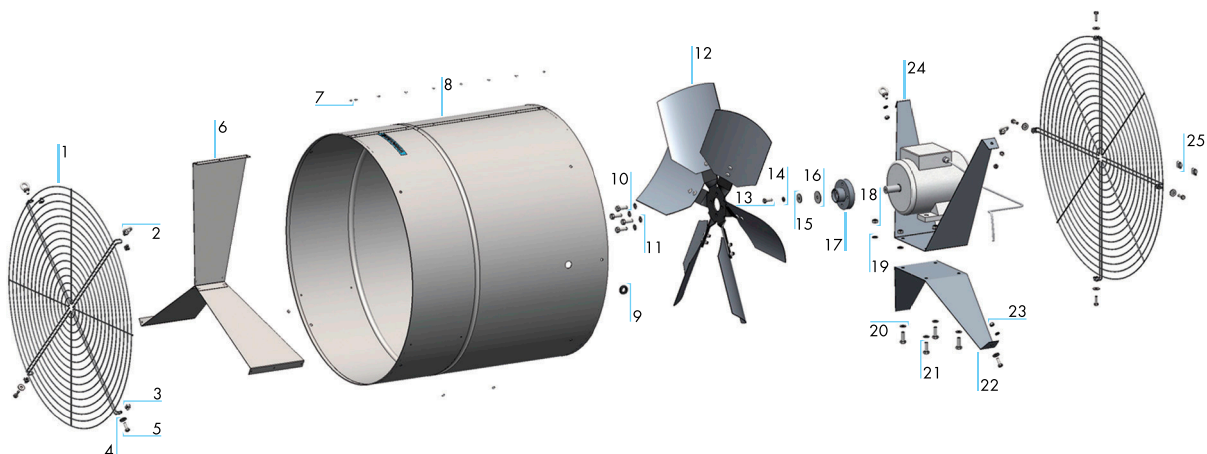


fig.8

Ref.	Description	Quantity
1	SAFETY MESH	2
2	EYEBOLT M6 S.S. DIN 580	4
3	CAGE NUT M6	8
4	PLAIN WASHER 6X18 S.S. ISO 7089	8
5	HEX BOLT M6X12 S.S. UNI 5739	8
6	AIRFLOW STRAIGHTENER	3
7	POP UP RIVET D3.9X7 ALUMINUM	19
8	FRAME	1
9	DOUBLE-SIDED GROMMET	1
10	HEX BOLT M8×25 S.S. UNI 5739	4
11	EXT TOOTH WASHER D8 UNI 6798	4
12	PROPELLER	1
13	HEX BOLT M6X20 UNI 5739	1
14	SPRING WASHER 6 S.S. DIN 128	5
15	PLAIN WASHER 6X24 ISO 7089 + SEALANT COATED	1
16	PLAIN WASHER D8×32 S.S. ISO 7089	1
17	HUB	1
18	HEX NUT M8 S.S. UNI 5588	4
19	SPRING WASHER 8 S.S. DIN 128	4
20	PLAIN WASHER 8 S.S. ISO 7089	4
21	HEX BOLT M8X30 S.S. UNI 5739	4
22	MOTOR SUPPORT, SHORT	1
23	HEX NUT M6 S.S. UNI 5588	4
24	MOTOR SUPPORT, LONG	1

25	PLASTIC CLAMP 3.6X140	2
Motor		
	ONE SPEED 3PHASES MOTOR HP0,5 400 50/60HZ	
	S.S. 304 GP PROPELLER 50HZ	
	S.S. GP PROPELLER 60HZ	
	MULTISPEED 3PHASES MOTOR HP0,5 400 50/60HZ	
	S.S. 304 GP PROPELLER 50HZ	
	S.S. GP PROPELLER 60HZ	
	MULTISPEED 1PHASE MOTOR HP0,5 230 50HZ	
	S.S. 304 GP PROPELLER 50HZ	

Warranty and technical assistance

Munters products are designed and built to provide reliable and satisfactory performance but cannot be guaranteed free of faults; although they are reliable products they can develop unforeseeable defects and the user must take this into account and arrange adequate emergency or alarm systems if failure to operate could cause damage to the articles for which the Munters plant was required: if this is not done, the user is fully responsible for the damage which they could suffer.

Munters extends this limited warranty to the first purchaser and guarantees its products to be free from defects originating in manufacture or materials for one year from the date of delivery, provided that suitable transport, storage, installation and maintenance terms are complied with. The warranty does not apply if the products have been repaired without express authorisation from Munters, or repaired in such a way that, in Munters' judgement, their performance and reliability have been impaired, or incorrectly installed, or subjected to improper use. The user accepts total responsibility for incorrect use of the products.

The warranty on products from outside suppliers fitted to EDC/EDX, (for example electric motors, etc.) is limited to the conditions stated by the supplier: all claims must be made in writing within eight days of the discovery of the defect and within 12 months of the delivery of the defective product. Munters has thirty days from the date of receipt in which to take action, and has the right to examine the product at the customer's premises or at its own plant (carriage cost to be borne by the customer).

Munters at its sole discretion has the option of replacing or repairing, free of charge, products which it considers defective, and will arrange for their despatch back to the customer carriage paid. In the case of faulty parts of small commercial value which are widely available (such as bolts, etc.) for urgent despatch, where the cost of carriage would exceed the value of the parts, Munters may authorise the customer exclusively to purchase the replacement parts locally; Munters will reimburse the value of the product at its cost price.

Munters will not be liable for costs incurred in demounting the defective part, or the time required to travel to site and the associated travel costs. No agent, employee or dealer is authorised to give any further guarantees or to accept any other liability on Munters' behalf in connection with other Munters products, except in writing with the signature of one of the Company's Managers.



WARNING

In the interests of improving the quality of its products and services, Munters reserves the right at any time and without prior notice to alter the specifications in this manual.

The liability of the manufacturer Munters ceases in the event of:

- dismantling the safety devices;
- use of unauthorised materials;
- inadequate maintenance;
- use of non-original spare parts and accessories.

Barring specific contractual terms, the following are directly at the user's expense:

- preparing installation sites;
- providing an electricity supply (including the protective equipotential bonding (PE) conductor, in accordance with CEI EN 60204-1, paragraph 8.2), for correctly connecting the equipment to the mains electricity supply;
- providing ancillary services appropriate to the requirements of the plant on the basis of the information supplied with regard to installation;
- tools and consumables required for fitting and installation;
- lubricants necessary for commissioning and maintenance.

It is mandatory to purchase and use only original spare parts or those recommended by the manufacturer.

Dismantling and assembly must be performed by qualified technicians and according to the manufacturer's instructions.

The use of non-original spare parts or incorrect assembly exonerates the manufacturer from all liability.

Requests for technical assistance and spare parts must be made directly to the manufacturer, at the following address:

[Munters Italy S.p.A](#)

Strada Piani, 2

18027 Chiusavecchia (IM), Italy

Tel: +39 0183 52 11

Fax: +39 0183 521 333

Euroemme® EDC/EDX air blower is developed and produced by Munters Italy S.p.A., Italy



www.munters.com

Australia Munters Pty Limited, Phone +61 2 8843 1594, **Brazil** Munters Brasil Industria e Comercio Ltda, Phone +55 41 3317 5050, **Canada** Munters Corporation Mason, Phone +1 517 676 7070, **China** Munters Air Treatment Equipment (Beijing) Co. Ltd, Phone +86 10 80 481 121, **Denmark** Munters A/S, Phone +45 9862 3311, **India** Munters India, Phone +91 20 3052 2520, **Indonesia** Munters, Phone +62 818 739 235, **Italy** Munters Italy S.p.A., Chiusavecchia, Phone +39 0183 52 11, **Japan** Munters K.K., Phone +81 3 5970 0021, **Korea** Munters Korea Co. Ltd., Phone +82 2 761 8701, **Mexico** Munters Mexico, Phone +52 818 262 54 00, **Russia** Munters AB, Phone +7 812 448 5740, **Singapore** Munters Pte Ltd., Phone +65 744 6828, **South Africa and Sub-Sahara Countries** Munters (Pty) Ltd., Phone +27 11 997 2000, **Spain** Munters Spain S.A., Phone +34 91 640 09 02, **Sweden** Munters AB, Phone +46 8 626 63 00, **Thailand** Munters Co. Ltd., Phone +66 2 642 2670, **Turkey** Munters Form Endüstri Sistemleri A.Ş., Phone +90 322 231 1338, **USA** Munters Corporation Mason, Phone +1 517 676 7070, **Vietnam** Munters Vietnam, Phone +84 8 3825 6838, **Export & Other countries** Munters Italy S.p.A., Chiusavecchia Phone +39 0183 52 11

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