Installation and Operating Instructions

GB

Document in original language | · 006













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Contents

1	General information						
	1.1	Notice symbols					
		1.1.1 Instruction symbols					
2	Impor	tant safety information					
	2.1	Personnel					
	2.2	Personal protective equipment					
	2.3	5 rules of electrical safety					
3	_	inty					
4		Delivery, transport, storage					
•	4.1	Safety information					
	4.2	Delivery					
	4.3	Transport					
		4.3.1 Safety information					
	4.4	Storage					
5	Descr	iption					
	5.1	Fan data					
	5.2	Intended use					
	5.3	Incorrect use					
6	Name	e plate and type key	6				
7	Acces	sories	7				
8	Install	ation	8				
	8.1	Safety information	8				
	8.2	Preconditions	8				
	8.3	Installation variations	9				
9	Electr	ical connection					
	9.1	Safety information	9				
	9.2	Preconditions	9				
	9.3	Connection					
		9.3.1 Wiring diagram prioAir					
		E2	1(
	9.4	Protective grounding wire	1(
	9.5 9.6	Residual current circuit breaker	l				
10		Protecting the motor	l 1-				
10		nissioning					
	10.1 10.2	Safety information	l 1-				
	10.2	Preconditions					
11		ition					
1 1	11.1						
	11.1	Safety information Preconditions	∠ا 1				
	11.∠	1 15COHUILIOHS	I∠				

12	Troub	leshooting/maintenance/repair	12
	12.1	Safety information	12
		Troubleshooting	
		Maintenance	
	12.4	Spare parts	14
13	Clean	ing	14
	13.1	Safety information	14
	13.2	Procedure	15
14	Deins	tallation/dismantling	15
15	Dispo	sal	15
16	Comn	nissioning Report	16
17	EU De	claration of conformity	17



1 General information

1.1 Notice symbols



Danger

Direct hazard

Failure to comply with this warning will lead directly to death or to serious injury.



Caution

Hazard with a low risk

Failure to comply with this warning may lead to moderate injuries.



Warning

Potential hazard

Failure to comply with this warning may lead to death or serious injury.



Hazard with risk of damage to objects

Failure to comply with this warning will lead to damage to objects.



Note:

Useful information and instructions

1.1.1 Instruction symbols

InstructionInstruction with fixed sequence◆ Carry out this action1. Carry out this action3. (if applicable, further actions)◆ (if applicable, further actions)2. Carry out this action

2 Important safety information

Planners, plant builders and operators are responsible for the proper assembly and intended use.

- Read the operating instructions completely and carefully.
- ◆ Keep the operating instructions and other valid documents, such as the circuit diagram or motor instructions, with the fan. They must always be available at the place of use.
- ◆ Observe and respect local conditions, regulations and laws.
- ◆ Only use the fan in a flawless condition.
- Provide generally prescribed electrical and mechanical protective devices.
- During installation, electrical connection, commissioning, troubleshooting, and maintenance, secure the location and premises against unauthorised access.
- ◆ Do not circumvent any safety components or put them out of action.
- ◆ Keep all the warning signs on the fan complete and in a legible condition.
- ◆ The device is not to be used by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction.
- ◆ Do not allow children to play with the device.

2.1 Personnel

The fan may only be used by qualified, instructed and trained personnel. The persons must know the relevant safety directives in order to recognise and to avoid risks. The individual activities and qualifications can be found in Table 1 *Qualifications*, page 1.

Table 1 Qualifications

Activities	Qualifications
Storage, operation, transport, cleaning, disposal	Trained personnel (see following note)
Electrical connection, commissioning, electrical disconnection	Electrical expert or matching qualification



Qualifications cont'd

Installation, disassembly	Fitter or matching qualification		
Maintenance	Electrical expert or matching qualification	Fitter or matching qualification	
Donair	Electrical expert or matching qualification	Fitter or matching qualification	
Repair	Smoke extraction fans and EX fans only by agreement with Systemair.		



Note:

The operator is responsible for ensuring that personnel are instructed and have understood the contents of the operating instructions. If something is unclear, please contact Systemair or its representative.

2.2 Personal protective equipment

Wear protective equipment during all work in the vicinity of the fan.

- protective working clothes
- protective working gloves
- · goggles

- protective working shoes
- helmet

hearing protection

2.3 5 rules of electrical safety

- 1. Disconnect (disconnection of 2. Prevent reactivation the electrical system from live components at all terminals)

 - 3. Test absence of voltage
- 4. Ground and short-circuit
- 5. Cover or restrict adjacent live parts

3 Warranty

For the assertion of warranty claims, the products must be correctly connected and operated, and used in accordance with the data sheets. Further prerequisites are a completed maintenance plan with no gaps and a commissioning report. Systemair will require these in the case of a warranty claim. The commissioning report is a component of this document. The maintenance plan must be created by the operator, see section 12.3 Maintenance, page 14.

4 Delivery, transport, storage

4.1 Safety information

Warning: Risk from rotating fan blades

◆ Prevent access by unauthorised persons by safety personnel or access protection.

Warning: Suspended loads

- ◆ Wear protective equipment during all work in the vicinity of the fan, details see 2.2 Personal protective equipment, page 2.
- ◆ Do not walk under suspended loads.
- ◆ Make sure that there is nobody under a suspended load.

4.2 Delivery

Each fan leaves our plant in an electrically and mechanically proper condition. We recommend transporting the fan to the installation site in the original packaging.

Checking delivery

- ◆ Check the packaging and the fan for transport damage. Any findings should be noted on the cargo manifest.
- ◆ Check completeness of the delivery.

Unpacking





Warning

When opening the transport packaging, there is a risk of damage from sharp edges, nails, staples, splinters etc.

- Unpack the fan carefully.
- ◆ Check the fan for obvious transport damage.
- ◆ Only remove the packaging shortly before assembly.
- ◆ Wear protective equipment during all work in the vicinity of the fan, details see 2.2 *Personal protective equipment*, page 2.

4.3 Transport

4.3.1 Safety information

Warning: Electrical or mechanical hazards due to fire, moisture, short circuit or malfunction.

- ◆ Never transport the fan by the connecting wire, terminal box, impeller, protection grille, inlet cone or silencer.
- ◆ In open transport, please make sure that no water can penetrate into the motor or other sensitive parts.
- ◆ We recommend transporting the fan to the installation site in the original packaging.

Caution: If transported without care during loading and unloading, the fan may be damaged.

- ◆ Load and unload the fan carefully.
- ◆ Use hoisting equipment that is suitable for the weight to be hoisted.
- ◆ Observe the transportation arrows on the packaging.
- ◆ Use the fan packaging exclusively as transport protection and not as a lifting aid.

4.4 Storage

- ◆ Store the fan in the original packaging in a dry, dust-free location protected against weather.
- ◆ Avoid the effects of extreme heat or cold.

Important

Hazard due to loss of function of the motor bearing

- ◆ Avoid storing for too long (recommendation: max. 1 year).
- ◆ Check that the motor bearing functions properly before installation.

5 **Description**

prioAir equipped with an EC motor

The fans are driven by EC motors. These motors are delivered with a pre-wired potentiometer (0-10 V) that allows you to easily find the required working point of the fan. All motors are suitable for 50/60 Hz. The input voltage for singlephase units can vary between 200 and 277 V. All models have one potential-free terminal for error message.

prioAir equipped with an AC motor

For information on speed regulation options, see 6 Name plate and type key, page 6.

Table 2 Dimensions prioAir

[mm]	Α	В	C	D	Е
prioAir 150E2 prioAir 150EC	412	149	211	187	40
prioAir 160E2 prioAir 160EC	220	159	211	187	25
prioAir 200E2 prioAir 200EC	245	199	249	227	25
prioAir 250E2 prioAir 250EC	300	249	303	284	30
prioAir 250E2-L prioAir 250EC-L	300	249	303	284	30

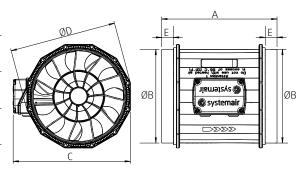
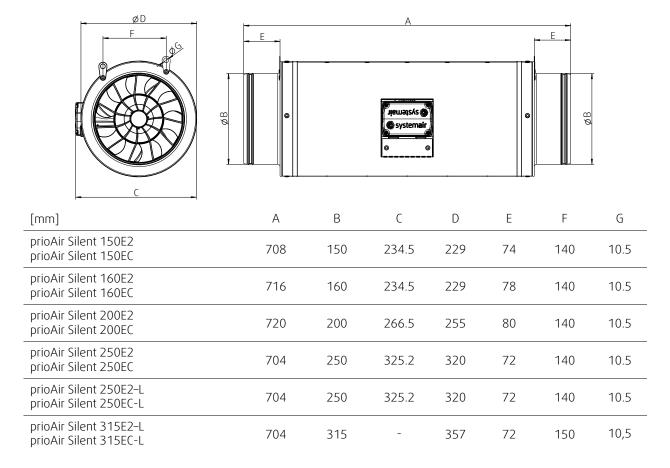


Table 3 Dimensions prioAir Silent





5.1 Fan data

- Max. temperature of transported air, max. ambient temperature, sound pressure -> see data sheet, available in our online catalogue.
- Voltage, current, enclosure class, weight -> see name plate

5.2 Intended use

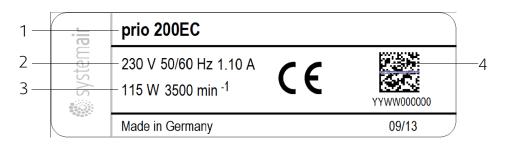
- The fans are intended for installation in ventilation systems. They can be installed both in duct systems and also with free suction via a suction-side contact protection grille. Free discharge via a contact protection grille is also possible.
- The fan is suitable for conveying clean air, with a density of 1.3 kg/m3 and a max. air humidity of 95%.
- The maximum permissible operating data on the name plate apply for an air density of 1.2 kg/m³ (sea level) and a max. air humidity of 80%.

5.3 Incorrect use

Incorrect use refers mainly to using the fan in another way to that described. The following uses are incorrect and hazardous:

- · Conveying of explosive and combustible media
- · Conveying of aggressive media
- · Operation in an explosive atmosphere
- Operation without duct system or protection grille
- · Operation with the air connections closed
- · Installation outside without weather protection

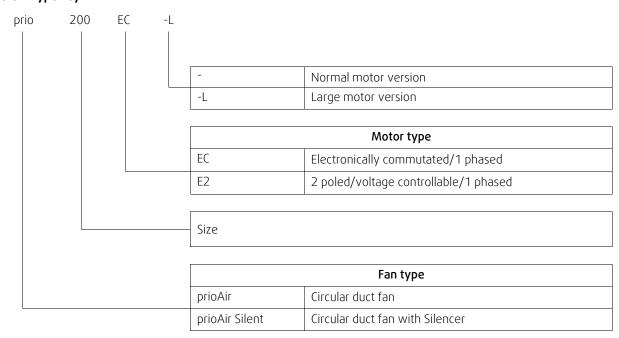
6 Name plate and type key



- 1 Type designation
- 2 Voltage/frequency/current

- 3 Input power/fan impeller speed
- 4 Certifications

Table 4 Type key

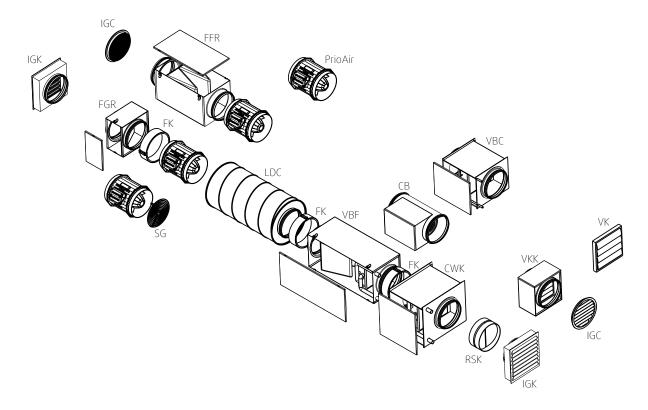


7 Accessories



Note:

For details of the accessories, please check our online catalog or contact Systemair.



prioAir	fan	LDC	Silencer	VKK	Back draft damper
IGC	Round protection grille	VBF	Water heating battery	VK	Louvre Shutter
IGK	Wall grid	CWK	Duct cooling battery	FK	Fast clamp
FGR	Filter cassette	СВ	Duct heater	RSK	Back draft damper
FFR	Filter cassette	VBC	Water heating battery	SG	Protection guard

8 Installation

8.1 Safety information

General safety information

- ◆ Installation may only be carried out by adequately qualified persons, details see Table 1 Qualifications, page 1.
- ◆ Wear protective equipment during all work in the vicinity of the fan, details see 2.2 *Personal protective equipment*, page 2.
- Abide by the system-related conditions and requirements of the system manufacturer or plant constructor.
- ◆ Do not dismantle or circumvent safety elements, or put them out of function.
- ◆ Provide contact and intake protection and ensure safety distances according to DIN EN ISO13857 and DIN 24167-1.
- ◆ Prevent the possibility of foreign bodies being drawn in.
- ◆ To reduce transmission of vibration to the duct system, we recommend fast clamps from our accessory range, see chapter Accessories.

8.2 Preconditions

- ◆ Ensure that the fan and all its components are undamaged.
- ◆ Ensure that there is enough space to install the fan.
- ◆ Protect against dust and moisture when installing.
- ◆ Ensure that the information on the name plates (fan and motor) matches up with the operating conditions.
- ◆ Fit the fans in such a way that there is sufficient access for troubleshooting, maintenance and repair.



Warning: "Unintended" start-up of the unprotected impeller!

If the unit is plugged in and the fan has been removed from the duct system or the protective grille is not mounted on the fan, the impeller may start, resulting in injury.

◆ Unplug the unit immediately.

Important

Damage to the bearings or other parts of the fan can occur.

- ◆ Do not place a duct bend directly before or after the fan!
- ◆ Ensure a smooth and constant air flow to the device. Ensure a free exhaust. See Fig. 1 *Straight ducts*, page 8.
- Rectangular duct system: **D** = Hydraulic diameter
- Round duct system: **D** = Nominal diameter

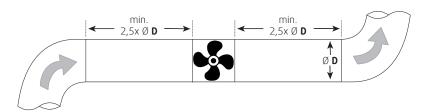


Fig. 1 Straight ducts

8.3 Installation variations

The installation is possible in any mounting position.

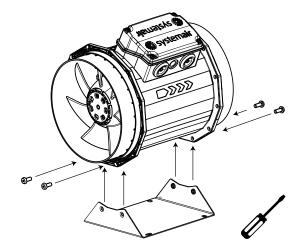
Installation with mounting bracket



Note:

The mounting bracket is available in our accessory range.

 Mount the mounting bracket on the fan, see adjacent image.



9 Electrical connection

9.1 Safety information

Warning: Danger from electrical voltage!

- ♦ Observe the 5 rules of electrical safety, see 2.3 5 rules of electrical safety, page 2.
- ◆ Prevent the ingress of water into the connection box.
- Electrical connection may only be carried out by adequately qualified persons, details see Table 1 Qualifications, page
- ◆ Observe and respect local conditions, regulations and laws.
- ◆ Wear protective equipment during all work in the vicinity of the fan, details see 2.2 *Personal protective equipment*, page 2.

Warning: Danger due to electrostatic influence on medical implants (e.g. cardiac pacemaker)!

◆ Persons with medical implants (e.g. cardiac pacemaker) should keep enough distance to the fan.

9.2 Preconditions

- ◆ Abide by the system-related conditions and requirements of the system manufacturer or plant constructor.
- ◆ Safety elements may not be dismantled, circumvented or deactivated.
- ◆ Install a circuit breaker in the permanent electrical installation, with a contact opening of at least 3 mm at each pole.

9.3 Connection

- Check if the data on the nameplate matches the connection data.
- Complete the electrical connection according to the circuit diagram.
- Lay the connection cables in the terminal box in such a way that allows the cover of the terminal box to be closed without resistance.
- ◆ Use all of the locking screws.

- Insert the screws by hand to avoid damaging the thread.
- ◆ Tighten all glands well in order to guarantee protection class IP.
- ◆ Screw the lid of the terminal box/inspection switch evenly tight.
- ◆ Connect the cable end in a dry environment.

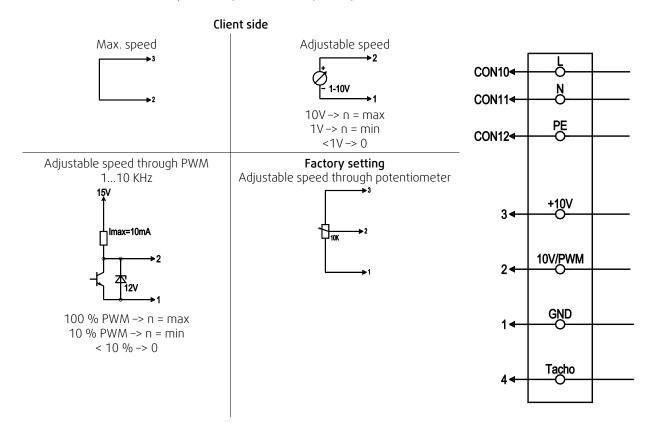


9.3.1 Wiring diagram prioAir E2

Color		Function/pin assignment	L		N PE
Black	L	Power supply 230 V AC, 5060 Hz	!	— — — — +⊢+	↓ - ├,
Blue	Ν	Neutral conductor			1
Green/Yellow	PE	Protective conductor			<u> </u>

9.3.1.1 Wiring diagram prioAir EC

The fans are delivered with a pre-wired potentiometer (0–10 V)



Wire no.	Connection	Color	Function/assignment
CON10	L	black or brown	Power supply 230 V AC, 5060 Hz, see name plate for voltage range
CON11	N	blue	Neutral conductor
CON12	PE	green/yellow	Protective conductor
1	GND	blue	GND-connection of the controller interface
2	010 V PWM	yellow	Controller input 010 V or PWM
3	10 V	red	Voltage output 10 V / Short-circuit-proof power supply for external devices (e.g. poti) prioAir 150EC, prioAir 160EC -> I max=1.1mA prioAir 200ECprioAir 250EC -> I max=10mA
4	Tacho	white	Speed output: Open Collector, 1 impulse per revolution, electrically isolated, Isink_max = 10 mA

9.4 Protective grounding wire

The protective grounding must have a cross-section equal to or greater than that of the phase conductor.



9.5 Residual current circuit breaker

All-current-sensitive residual current circuit breakers are required for use in alternating-current systems with 50/60 Hz, in combination with electronic devices such as EC motors, frequency converters or uninterruptible power supplies (UPS).

9.6 Protecting the motor



Note

In fans equipped with an EC motor, there is no additional motor protection needed. The motor protection is integrated in the electronics of the motor.

Important

Damage to motor due to overcurrent, overload or short circiut.

- ◆ Lead-out temperature monitors must be integrated in the control circuit in such a way that, if a fault occurs, the motor cannot switch on again automatically after it has cooled down.
- ◆ Motor lines and temperature monitor lines should be laid separately on principle.
- ◆ Without thermal protection: Use a motor protection switch!

10 Commissioning

Warranty claims can only be made if commissioning work is carried out correctly and written evidence thereof is provided.

It is recommended to fill out the commissioning report 16 Commissioning Report, page 16.

10.1 Safety information

- ◆ Commissioning may only be carried out by adequately qualified persons, details see Table 1 *Qualifications*, page 1.
- Wear protective equipment during all work in the vicinity of the fan, details see 2.2 Personal protective equipment, page 2.

10.2 Preconditions

- ◆ Installation and electrical connection have been correctly performed.
- Residual material from installation and foreign objects have been removed from the fan and ducts.
- ◆ Inlet and outlet are free.
- ◆ Safety devices have been fitted.

- ◆ Ground cable is connected.
- ◆ Cable glands are tight.
- Nominal current (from the name plate) is not exceeded.
- Data on the name plate corresponds with the connection data.



10.3 Tests

 Before switching the fan on, check for externally visible damage and ensure that the protective equipment functions properly.

AC motor

- 1. Switch the fan on.
- 2. Checks:
 - Direction of rotation/conveyance. The direction of rotation always applies looking at the impeller.
 - The direction of rotation is best observed just before the fan stops.
 - ◆ Smooth running (any vibrations and noise)
 - ◆ Current consumption
 - Compare the current consumption with the nominal consumption on the name plate.
 - ◆ Tightness of all connections
- 3. Switch the fan off.

EC motor

When the mains are switched on, the motor starts an initialization (a few seconds). After the initialization the control input is active.

- 1. Switch the fan on via the control input.
- 2. Checks:
 - ◆ Direction of rotation/conveyance. The direction of rotation always applies looking at the impeller.
 - The direction of rotation is best observed just before the fan stops.
 - ◆ Smooth running (any vibrations and noise)
 - ◆ Current consumption
 - ◆ Compare the current consumption with the nominal consumption on the name plate.
 - ◆ Tightness of all connections
- 3. Switch the fan off via the control input.

11 Operation

11.1 Safety information

Warning: Hazard from electrical voltage or moving components.

- ◆ The device may only be operated by adequately qualified persons, details see Table 1 Qualifications, page 1.
- ◆ Abide by the system-related conditions and requirements of the system manufacturer or plant constructor.

11.2 Preconditions

- ◆ Ensure access only to persons who can safely handle the device.
- ◆ Only use the fan in accordance with the operating instructions and the operating instructions for the motor.
- ◆ Do not dismantle or circumvent safety elements, or put them out of function.

12 Troubleshooting/maintenance/repair

12.1 Safety information

- ◆ Troubleshooting/maintenance/repair may only be carried out by adequately qualified persons, details see Table 1 Qualifications, page 1.
- ◆ Wear protective equipment during all work in the vicinity of the fan, details see 2.2 *Personal protective equipment*, page 2.
- ♦ Observe the 5 rules of electrical safety, see 2.3 5 rules of electrical safety, page 2.
- ◆ Abide by the system-related conditions and requirements of the system manufacturer or plant constructor.
- ◆ The impeller must be at a standstill.

12.2 Troubleshooting

Table 5 Troubleshooting

Problem	Possible causes	Remedy
	Soiling on the impeller	Clean carefully
	Material decomposition on the impeller due to aggressive material conveyed.	Contact Systemair
Fan does not run	Impeller rotates in wrong direction.	Contact Systemair
smoothly	Deformation of impeller due to excessive temperature.	Ensure that the temperature does not exceed the certified value/Install new fan
	Vibrations, oscillations	Check the installation of the fan/check the duct system, see 8 <i>Installation</i> , page 8
	Impeller rotates in wrong direction.	Contact Systemair
Air output of fan too	Wrong wiring configuration	Check and possibly correct the wiring configuration
low	Pressure losses too high	Optimize the line routing.
	Flow regulators not or only partly open	Check opening position on site.
	Intake or pressure ducts are blocked	Remove the blockage.
Grinding sounds when starting or operating the fan	Check if the duct connections of the fan are strained	Loosen the duct connections and realign it.
	Impeller rotates in wrong direction.	Contact Systemair
Thermal contacts/	Motor overheated	Contact Systemair
resistors have triggered	Capacitor (if used) not or not correctly connected.	Connect the capacitor correctly.
	Motor blocked	Contact Systemair
	Defective motor winding	Contact Systemair
Fan does not reach nominal speed	Control units (if used) such as frequency converter or transformer are set incorrectly.	Correct the settings of the control units.
	Mechanical blockage	Remove the blockage.
	Faulty supply voltage	Check the supply voltage, re-establish the voltage supply.
Motor does not rotate	Faulty connection	Disconnect from the power supply, correct the connection, see circuit diagram.
	Temperature monitor has responded	Allow the motor to cool down, find and resolve the cause of the fault.
	Insufficient cooling	Improve cooling.
Electronics/motor overheated	Overloaded motor	Check if the correct fan is used for your application.
2.3	Ambient temperature too high	Check if the correct fan is used for your application.



Note:

For all other damage/defects, please contact Systemair. Defective safety-relevant fans (for Ex and smoke extraction applications) must be replaced completely.

12.3 Maintenance

Warranty claims can only be made if maintenance work is carried out correctly and written evidence thereof is provided.

We recommend regular maintenance intervals to ensure continuous fan operation. These maintenance intervals are specified in the "Activities" table below. In addition, the operator must carry out follow-up activities such as cleaning, replacing defective components or other corrective measures. For traceability reasons, a maintenance plan must be created which documents the work carried out. This must be created by the operator. If the operating conditions are "extreme", the maintenance intervals must be reduced so that maintenance is carried out more frequently. Examples of extreme operating conditions:

 \cdot Ambient temperature > 40 °C or < 0 °C, or temperature fluctuations > 20 K

Table 6 Activities

	Normal c	,	Extreme c condi	
Activity	Every six months	Annually	Quarterly	Every six months
Check the fan and its components for visible damage, corrosion and contamination.		X		X
Check the impeller for damage and imbalance.		Х		Х
Clean the fan/ventilation system (see 13 <i>Cleaning</i> , page 14).	Х		Х	
Check the screwed connections for damages/defects and check that they are firmly seated.		Х	See normal condi	
Check the fan intake is free from contamination.		Х		Х
Check that the fan and its components are being used correctly.	X		See normal condi	, ,
Check the current consumption and compare this with the rated data.		X		X
Check the electrical and mechanical protective equipment is working correctly.		X	See normal condi	
Check the fan's rating plate is legible.		Х		Х
Check the connection clamps and screwed cable connections for damage/defects, and check that they are firmly seated.		Х	See normal condi	, ,



Note:

For all other damage/defects, please contact Systemair. Defective safety-relevant fans (for Ex and smoke extraction applications) must be replaced completely.

12.4 Spare parts

- ◆ Use original spare parts from Systemair only.
- ◆ When ordering spare parts, please specify the serial number of the fan. This can be found on the name plate.

13 Cleaning

13.1 Safety information

- ◆ Cleaning may only be carried out by adequately qualified persons, details see Table 1 Qualifications, page 1.
- ◆ Wear protective equipment during all work in the vicinity of the fan, details see 2.2 Personal protective equipment, page 2.
- ◆ Observe the 5 rules of electrical safety, see 2.3 *5 rules of electrical safety*, page 2.
- ◆ The impeller must be at a standstill.



13.2 Procedure

Important

Keeping the fan clean extends its service life.

- ◆ Install a filter monitor.
- ◆ Do not use steel brushes or sharp-edged objects.
- ◆ Do not use a high-pressure cleaner (steam jet cleaner) under any circumstances.
- ◆ Do not bend the fan blades when cleaning.
- ♦ When cleaning the impeller, pay attention to balance weights that have been positioned
- ◆ Keep the airways of the fan clear and clean them if necessary with a brush.

14 Deinstallation/dismantling

Deinstall and dismantle the fan in reverse order of installation and electrical connection.

15 Disposal

- ◆ Ensure material is recycled. Observe national regulations.
- ◆ The device and the transport packaging are predominantly made from recyclable raw materials.
- ◆ Disassemble the fan into its components.
- ◆ Separate the parts according to:
 - · reusable material
 - material groups to be disposed of (metal, plastics, electrical parts, etc.)

Commissioning Report 16

Warranty claims can only be made if commissioning work is carried out correctly and written evidence thereof is provided.

Fan			
Description:			
Article no.:	Manufacturing order no.:		
Installer			
Company:	Contact person:		
Company address:			
Tel. no.:	Email:		
Operator (Place of installation)			
Company:	Contact person:		
Company address:	Contact person.		
Tel. no.:	Email:		
TCI. 110	LITIOII.		
Type of connection		Yes	No
Directly to mains			
0-10 V signal (EC motor)			
via contactor control			
Transformer			
Frequency converter			
	Sinus filter		
	Shielded cables		
Motor protection		Yes	No
Motor protection switch or motor protection	relay		
PTC resistor			
	Resistance value $[\Omega]$:		
Thermal contact			
Electrical motor protection			
Others:			
Functional check		Yes	No
Impeller easily rotatable (by hand)			
Rotation direction acc. to directional arrow			
Nominal data - Fan (name plate on fan hou:	sina)		
Voltage [V]:	Current [A]:		
Frequency [Hz]:	Power [kW]:		
Fan impeller speed [rpm]:			
Measured data at commissioning			
Voltage [V]:	Temp. of transported air [°C]:		
Current L1 [A]*:	Fan impeller speed [rpm]:		



Current L2 [A]:	Air volume	[m3/s]:		
Current L3 [A]:	Differential	Differential pressure [Pa]*:		
*For single-phase fans, fill in line "Current L1 [A]"	*Δ- Pressure bet	tween suction-side and discharge of	the fan	
If an air flow measurement is not possible, this value can be calculated using the following formula:				
X		=		
Duct cross-section [m ²]	Flow speed [m/s] Grille measurement acc. to VDI 2044	Air volume [m³/s	Air volume [m³/s]:	
			Yes	No
Commissioning of the fan successful?				
Date, installer's signature				
Date, operator's signature				

17 EU Declaration of conformity

The manufacturer: Systemair GmbH

sehöfer Straße 45 97944 Boxberg Germany

Product designation: Circular duct fans

Type designation: prioAir, prioAir Silent

Since year of manufacture: 2016

The manufacturer declares that the above mentioned products in their design and construction and the version marketed by us complies with the harmonization legislation listed below:

EU directives: 2006/42/EC Machinery directive

2014/30/EU Directive electromagnetic compatibility (EMC)

2011/65/EU RoHS directive 2009/125/EC ErP guidelines

Regulations: 327/2011 only for fans above 125W, CE marked fans used as

components are CE marked by other manufacturer.



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