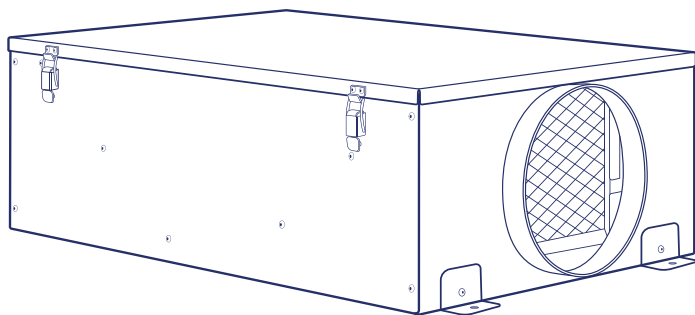




FH EC LINE

Congratulations! You have just purchased a SICFLUX product!

Installation manual



EN

Summary

1 IMPORTANT SAFETY AND INSTALLATION INSTRUCTIONS	2
2 TABLE OF MOST COMMON ISSUES	3
3 FH LINE INSTALLATION INSTRUCTIONS	4
3.1 FH EC 100 / 125 / 150 / 200 / 250	4
3.2 FH 315	4
4 PRODUCT CARE	6
5 ACOUSTIC INSULATION CARE	6
6 WARRANTY	6
7 RECYCLING	7

CUSTOMER SERVICE:

sac@sicflux.com.br – V.2 - 05/09/2023

CNPJ: 08.972.212/0001-42



MORE INFO!

47 3452-3003 / 3452-3033



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ig [sicflux.official](https://www.instagram.com/sicflux.official)

globe www.sicflux.com.br

READ THE ENTIRE MANUAL BEFORE INSTALLATION AND USE

1 IMPORTANT SAFETY AND INSTALLATION INSTRUCTIONS

- Check if there is an electrical outlet near the installation site.
- Make sure the installation is performed by a qualified professional.
- Do not use the product in environments with temperatures above 104°F (40°C).
- Do not block the air inlet or outlet, even when the device is turned off.
- Never insert any objects into the device through its holes or openings. These objects may contact electrical components, potentially causing short circuits, fires, or electric shocks.
- This product has a fan blade for air movement. Only turn it on once it is fully installed in its designated location to avoid any risk of contact with the moving blade and prevent accidents.
- Never allow children to handle electrical equipment.
- Keep children and animals away from any kind of packaging.
- For optimal performance and reduced noise, install the exhaust fan above the ceiling.

WARNING!



- This product must be installed at least 1 meter away from any accessible opening of the exhaust duct.
- This product must be installed with ducts at least 1 meter (3.28 ft) in length.

- This device is not intended for use by individuals (including children) with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge, unless they have received supervision or instruction concerning the use of the appliance from a person responsible for their safety.
- Children should be supervised to ensure they do not play with the appliance.
- Make sure the fan is disconnected from the power supply before performing any maintenance.
- Precautions must be taken to avoid reverse airflow through this device — do not install it in the wrong direction of airflow. Follow the arrow indicator on the unit.
- This device does not come with a power cord and requires permanent wiring, with a disconnection method that ensures complete power isolation on all poles (IEC 60335-1/2006).
- If the power supply wires are damaged, the device must be discarded.
- Make sure the duct used matches the air outlet diameter of the unit.
- Electrical wiring should be 2 to 3 mm thick to be used with this product.
- Use proper wall or ceiling anchors and screws according to the surface type.
- **THIS PRODUCT IS INTENDED FOR PROFESSIONAL USE ONLY AND MUST BE INSTALLED BY QUALIFIED PROFESSIONALS.**
- **FOR MODELS WITH FILTERS, REPLACE THEM REGULARLY AND ALWAYS USE ORIGINAL SICFLUX FILTERS THAT MATCH THE CORRECT SIZE FOR THE MODEL.**

2 TABLE OF MOST COMMON ISSUES

In case of problems during installation, follow the suggestions below and/or call: +55 47 3452-3003 or +55 47 3452-3033.

ISSUE	SUGGESTION
My exhaust fan does not turn on	Check for loose wires in the installation and confirm there is power in the wires connected to the fan.
The product seems to run at low speed	Make sure the device is connected to 220 V AC and that the cables are connected to the correct terminals.
Excessive vibration	Do not mount the unit directly onto concrete slabs. Always use resilient material between the metal part and the structure. Use impact dampers to secure the unit.
Noise transmission	Use a flexible coupling between the unit and the rigid duct. Do not allow the machine to touch ducts or any metal parts.
Disturbance due to noise or noise above standard limits	Install an acoustic insulation ceiling as specified by an acoustic consultant.

Table 2.1: Common issues.

3 FH LINE INSTALLATION INSTRUCTIONS

1. Remove the device from the box.
2. Mount it in the chosen location using the support bracket.
3. Connect the ducts to the air inlet and outlet of the device.
4. Wire the device as instructed on the back.

THIS DEVICE OPERATES ONLY ON 220V AC – 60 Hz

3.1 FH EC 100 / 125 / 150 / 200 / 250

Lead Wire 1		
Color	Sign	Performance
Black	L	50/60Hz – Fire Line
Blue	N	50/60Hz – Neutral
Yellow_Green	PE	Ground Protection
Lead Wire 2		
Color	Sign	Performance
Red	+10V	Output/Salida 10V ±10%, Máx. 1.1mA
Yellow	0~10VDC/PWM	Input Rated Changed Speed
Blue	GND	Public Side (Ground)
White	FG	Speed Signal Feedback / Fault Feedback

Table 3.1:

For maximum fan speed connection, connect:

Black wire (Conductor 1) + L

Blue wire (Conductor 1) + N

Red wire (+10 V / Conductor 2) + Yellow wire (0~10 VDC / PWM / Conductor 2)

3.2 FH 315

RSA	RSB	4~20mA	+20V	+10V	Ain1U	GND	FG	NO	COM	NC	N	L	PE	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

Figure 3.1:

NO.	Pin	Signal	Assignment/Function
KL1.	1	RSA	Bus connection RS485 RSA; MODBUS RTU
	2	RSB	Bus connection RS485 RSB; MODBUS RTU
	3	4~20mA	Analogue control input 4~20mA: Only usable as alternative to input 0-10V/PWM
	4	+20V	Fixed voltage output 20±10%VDC. max.20mA: power supply for ext.devices (e.g.potentiometer)
	5	+10V	Fixed voltage output 10±10%VDC. max.10mA: power supply for ext.devices (e.g.potentiometer)
	6	Ain1U	Control input 0-10VDC/PWM only usable as alternative to input 4~20mA
	7	GND	Signal ground for control interface KL1
	8	FG	Speed Signal Feedback/Fault feedback
KL2	9	NO	Status relay, floating status contact normally open: close with error
	10	COM	Status relay, common connection contact rating 250VAC/2A(AC1)
	11	NC	Status relay, break with error
KL3	12	N	1~230VAC 50/60Hz Mains supply connection, supply voltage: 1~230VAC; 50/60Hz
	13	L	
	14	/	
PE	15	/	Earth connection, PE connection

Table 3.2:

For maximum fan speed connection, connect:

Connector 12 + N

Connector 13 + L

Jumper between connectors 5 and 6

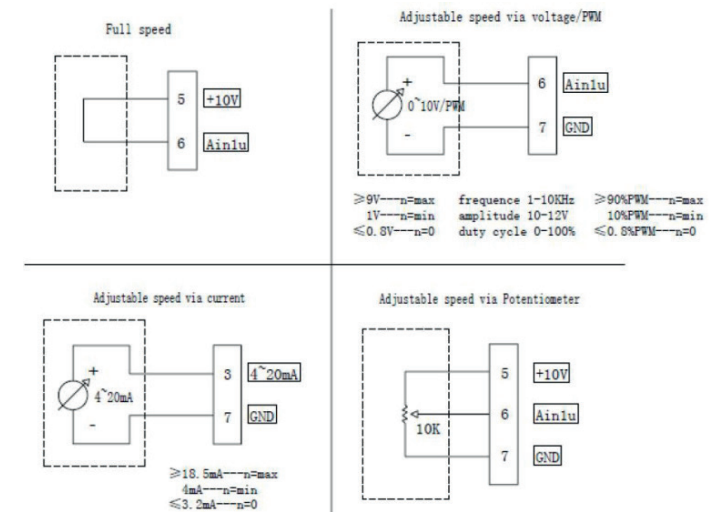


Figure 3.2:

4 PRODUCT CARE

To keep your product clean, simply wipe it with a slightly damp cloth, then dry it thoroughly. The fan blade should be cleaned regularly to avoid the following issues:

- Reduced efficiency of the unit; excessive noise; shortened lifespan of the product; loss of warranty.
- All cleaning must be done with the device unplugged from the power supply.

5 ACOUSTIC INSULATION CARE

According to NBR 10152:2017, which defines sound pressure levels for indoor environments, it is recommended that builders, developers, designers, users, and public authorities adopt these reference values to ensure proper use of internal spaces in a building.

The technical designer is responsible for complying with NBR 15575 (all parts), NBR 10152:2017, NBR 10151:2019, and any applicable local regulations in force at the time.

6 WARRANTY

WARRANTY PERIOD:

The warranty period is 9 months in addition to the 90-day legal warranty, totaling 1 year.

WHAT THE WARRANTY COVERS:

The warranty covers manufacturing and assembly defects, provided the equipment is used under normal conditions by the consumer. It also fully covers labor and parts for repair of verified manufacturing defects.

Shipping costs are the responsibility of the customer.

WHAT THE WARRANTY DOES NOT COVER:

Natural wear and tear of parts, products with capacitors left unused for more than 12 months, abuse or misuse of the product, incorrect installation, any kind of modification without written authorization, scratches, broken parts due to misuse, and lack of cleaning are not covered by the warranty.

HOW TO REQUEST WARRANTY SERVICE:

Warranty service must be requested by the customer by calling +55 47 3452-3003 or +55 47 3452-3033, or by emailing sac@sicflux.com.br. The user must provide a description of the issue, the purchased product, the product batch number (found on the box or on the label attached to the device), and the purchase invoice.

The original, dated invoice must be presented without amendments, alterations, or erasures, as warranty requests can only be processed with this document.

7 RECYCLING



Our commitment to future generations requires us to recycle materials. Don't forget to recycle the packaging and any remaining components.

Contains electrical components and must not be disposed of in regular trash.