



THE SPECIALIST IN INNOVATIVE
EQUIPMENT FOR INSULATION

USER MANUAL



ISOL INTERNATIONAL®

9 - 15 rue du Renouveau - 78700 Conflans Sainte Honorine
01 39 72 72 72

www.isolinternational.com



SUMMARY

Contacts	P.3
Precautionary measures	P.3 to 6
1. General information.....	P.4
2. Security.....	P.4
2.1 Symbols and signals	P.4
2.2 Staff qualification	P.5
2.3 Danger if instructions are not followed.....	P.5
2.4 Safety instructions for the user	P.5
2.5 Modification of the machine and use of non-approved spare parts.....	P.5
3. Unauthorized modes of use.....	P.5
4. Transport and storage.....	P.5 to 6
4.1 Transport.....	P.5
4.2 Storage.....	P.6
5. Guarantees.....	P.6
Technical sheet	P.7
Machine performance table	P.8
Commissioning the machine.....	P.9 to 12
1. Operating procedure	P.9
2. Settings.....	P.10
3. Stopping the machine.....	P.10
4. Interview	P.10 to 11
5. Replacement of sealing flaps (polyurethanes).....	P.12
Pairing the remote control	P.13
Radio repeater pairing	P.14
Electrical panel	P.15
Electrical components	P.16
Troubleshooting	P.17
Technical sheet	P.18

CONTACTS

ISOL INTERNATIONAL®

9 - 15 rue du Renouveau - 78700 Conflans Sainte Honorine

www.isolinternational.com

SECRETARIAT:

+33 (0)1 39 72 72 72

secretariat@isolinternational.com

SALES SERVICE:Mr. Julien Hazera

+33 (0)1 39 11 69 46

commercial@isolinternational.com

PRECAUTIONARY



PLEASE READ THIS DOCUMENT UPON RECEIPT OF YOUR MACHINE BEFORE PUTTING IT INTO SERVICE.

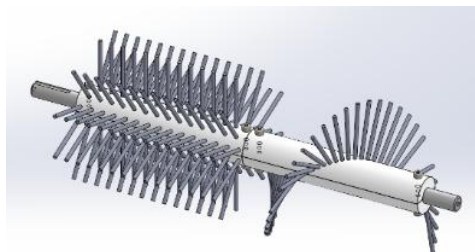
THIS IS ESSENTIAL BEFORE IT IS PUT INTO SERVICE.

YOUR MACHINE HAS UNDERGONE NUMEROUS OPERATIONAL TESTS IN OUR WORKSHOPS, AND ACCORDING TO INTENSIVE STANDARDS. IT IS EASY TO OPERATE AND ITS PERFORMANCE IS HIGH.

DEPENDING ON THE PRODUCTS USED, THE MECHANICAL VARIATOR ADJUSTMENT ALLOWS FLOW RATES OF UP TO 18 KG/MIN.

THE MATERIAL IS STANDARDIZED [CE] IN ACCORDANCE WITH EUROPEAN DIRECTIVE 2006/42/EC.

THE BRUSH FEEDING AND DEFIBRATING SYSTEM IS PROTECTED BY PATENT NO. FR1914825



NEVER TOUCH ROTATING PARTS WITH YOUR HANDS OR ANY OTHER PART OF YOUR BODY – NEVER STAND ON THE MACHINE WHILE IT IS RUNNING UNDER ANY CIRCUMSTANCES.

1. GENERAL INFORMATION

About this document – Read this entire manual carefully before installing or using the machine.

The user manual is an integral part of the machine and must always be available near your device at all times. Strict compliance with these instructions is a necessary condition for the proper installation and use of the equipment.

The wording of this document and the commissioning instructions correspond to the version of your device and the safety standards in force on the date of its printing.

NOTES: We strongly recommend that this guide be read by the relevant managers and supervisors, as well as maintenance personnel, so that they can assist your employees who use the equipment every day. Be sure to follow all instructions mentioned in this manual..

2. SECURITY

This manual contains essential instructions that must be followed during use. It is therefore essential that the installer and operator of the equipment read them before proceeding with commissioning.

The instructions to be followed are not only those of general safety in this chapter, but also those of specific safety which appear in the following chapters, accompanied by a danger symbol.

2.1 SYMBOLS AND SIGNALS



General hazard symbol



Instructions relating to electrical risks

HAZARD != the user is subjected to an extremely dangerous situation which involves (serious) bodily harm when the indication is not followed.

ATTENTION != there is a risk of damaging organs in the system (example: polyurethanes).

2.2 STAFF QUALIFICATIONS

It is important to ensure that the personnel who will be using the equipment are qualified.

2.2 DANGERS IF INSTRUCTIONS ARE NOT FOLLOWED

Failure to comply with safety instructions may pose a danger to property and people. It may also result in the suspension of any warranty claim.

More specifically, the dangers involved may be as follows:

- Danger to people from electrical and mechanical influences
- Failure of prescribed maintenance and repair process
- Material damage

2.4 USER SAFETY INSTRUCTIONS

The instructions must be followed to prevent any risk of accidents. The user must be a qualified specialist who has read the contents of the user manual. All installation operations must only be carried out when the corresponding components are switched off.

2.5 MODIFICATION OF THE MACHINE AND USE OF NON-APPROVED SPARE PARTS

Any modification to the machine may only be carried out with prior authorization from the ISOL INTERNATIONAL® brand. The use of original spare parts and accessories authorized by the manufacturer guarantees safety.

The use of other parts releases the company from all liability.

3. UNAUTHORIZED MODES OF USE

The values indicated in the user manual or technical data sheet must not be exceeded under any circumstances, either as a maximum or a minimum. The operational safety of the delivered machine is only guaranteed if the requirements specified in this document are respected.

4. TRANSPORT AND STORAGE OF THE MACHINE

4.1 TRANSPORT

According to European directive 2006/42 of May 17, 2006, you must ensure the stabilization of the machine during transport with appropriate fixings (straps, support bars, etc.).

4.2 STORAGE

We recommend storing your machine in a dry place away from the elements.

5. GUARANTEES

ISOL INTERNATIONAL® machines are guaranteed for 24 months from the invoice date. This warranty does not include wear parts (motor carbon brushes, polyurethanes, casters, feed brushes, etc.).

CAUTION! Risk of material damage! In case of removal, improper transport and incorrect storage may cause material damage to the machine.

This carding machine is designed for blowing and insufflating cellulose wadding, cotton, glass wool, rock wool as well as wood fibers, cardboard, etc.

Thanks to its welded sheet metal design, it combines lightness and robustness. Thanks to its Ø 160 mm casters, it is easy to transport. Its low power consumption allows it to be connected to the domestic network using a 230 V (16 A) socket.

It allows you to blow and inflate all flake insulation products.



TECHNICAL SHEET

<u>FEATURES</u>	<u>COMPACT MAX</u>
Dimensions (m)	L = 0.85 W = 0.75 H = 1.45
Weight	190
Engines	- Air motor (2): 1.25 kW - Variable speed motor: 0.88 kW
Pipe diameter	Ø 100 mm
Maximum pipe length	40 m
Maximum elevation gain	15 m
Food	230 V single phase 16 A
Settings	Air: by remote control or by pressure relief valve Wool: by mechanical variator
Speed	Rock wool: up to 700 kg/h Glass wool: up to 500 kg/h Cotton wool: up to 400 kg/h Cellulose wadding: up to 1100 kg/h
Remote controls	Transmitters customizable with your visual 3 functions: - On/Off (Air motor power on) - Air+/Air- (Selection of 2 or 1 air motor(s)) - Fiber (product power supply start-up) 

MACHINE PERFORMANCE TABLE

Materials	Manufacturers	Product name	Machine flow rate in kg/h	Machine output in m ² /h in R7
ROCK WOOL	ROCKWOOL	Rockprime	Up to 700	Up to 116
GLASS WOOL	ISOVER	Comblissimo	Up to 500	Up to 133
COTTON WOOL	OUATECO	Filéco	Up to 400	Up to 88
	THE RELAY	Mixed race	Up to 400	Up to 66
	RMT	Nita-Coton	Up to 400	Up to 81
	BUITEX	Cotton Wool	Up to 400	Up to 91
CELLULOSE WADDING	OUATECO	Ouateco	Up to 1100	Up to 120

COMMISSIONING THE MACHINE



VERY IMPORTANT

Connecting the machine requires special attention for safety reasons and to avoid damaging the equipment. Check that the voltage of the mains power outlet matches that of the machine, and that the permissible amperage is at least 16 amps in 230 volts single-phase. If the voltage does not match or if there is any doubt, consult the site electrician or your customer about the type of subscription they have with their energy supplier.

IF USING A GENERATOR (7.5 KVA), CONNECT THE EARTH STICK. OTHERWISE, ISOL INTERNATIONAL® CANNOT GUARANTEE CORRECT OPERATION OF THE MACHINE.

1. OPERATING PROCEDURE

- Connect the machine to the 230 volt single-phase mains supply
- Disconnect the emergency stop (red button on the front of the panel) by turning the knob (1/4 turn) to the right. The power indicator light, just below, should light up when you press the black power button on the electrical panel.

Otherwise:

1. There is no electricity coming to the machine
2. The circuit breaker needs to be reset.
3. The indicator lamp is defective

Use with radio remote control: set motor position 1 and set the control to the leftmost level (off)



- Press the “on/off” button on the radio remote control to turn on the air motor
- Press the “Air-/Air+” button to turn on or off 1 or 2 air motors
- Press the “fiber” button on the radio remote control to start the product power supply

2. SETTINGS

2.1 DIMMER

The variator can be adjusted while the machine is stopped or running. Graduated from 1 to 8, it allows the machine's flow rate to be varied up to 13 kg/min depending on the product.

The operation is done by turning the steering wheel to the left (-) or to the right (+).



A) FIBER FEED SPEED ADJUSTMENT (variator)

B) AIR PRESSURE ADJUSTMENT (remote control or pressure relief valve)

3. BETWEEN THE MACHINE STOPS

To stop the machine, you must:



1. Press the "fiber" button on the radio remote control to stop powering the product
2. Press the "Air-/Air+" button to turn on or off 1 or 2 air motors
3. Press the "on/off" button on the radio remote control to turn off the air motor
4. Unplug the machine

4. INTERVIEW



**ALWAYS STOP THE MACHINE WITH THE "EMERGENCY STOP"
BUTTON BEFORE TOUCHING ROTATING ELEMENTS!**

4.1 DAILY MAINTENANCE



CLEANING THE TURBINE SUCTION FILTER BY VACUUMING OR DUSTING THEM



CHECK THE PRESSURE GAUGE ON THE MACHINE FOR SIGNIFICANT OSCILLATION (sealing problem: defective sealing flaps, etc.).

4.2 MAINTENANCE EVERY 200 HOURS



DISASSEMBLE THE CASINGS, GREASE THE BEARINGS AND CHAINS.

CHECK THE TIGHTNESS OF THE PRESSURE FITTINGS ON ALL GEARS.



Access to the polyurethane is through the hatch.

5. REPLACEMENT OF SEALING FLAP (polyurethanes):

Steps to test your machine for leaks:

1. Empty the machine of insulation
2. Put the machine into air + fiber operation
3. Seal the product outlet

Maximum pressure: 300 mbar

Pressure in use: between 100 and 150 mbar

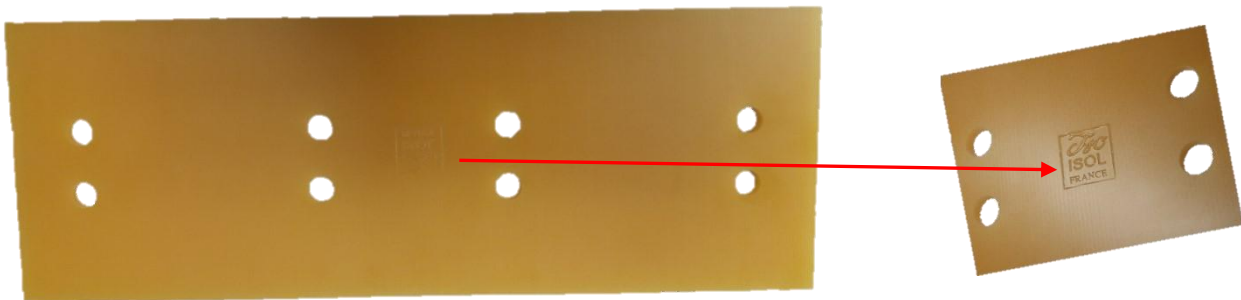
Oscillation of the pressure gauge needle = sealing problem

Disassembly:

- Remove the casing
- Remove the drive chain from the lock
- Loosen the pinion stop screws at the end of the rotor
- Remove the sprockets
- Unscrew the front plate of the lock (screw Ø 8)
- Remove the front plate and rotor from its housing
- Remove the sealing flaps

Replacement of sealing flaps (polyurethanes):

- Remove the worn sealing flaps using a 5 mm Allen key.
- Replace the sealing flaps with original polyurethanes (identifiable by the Isol International® stamp)



- Center the sealing flaps correctly by pressing them onto the sealing rings (photo below)
- Tighten with the same wrench, from the center outwards

Reassembly:

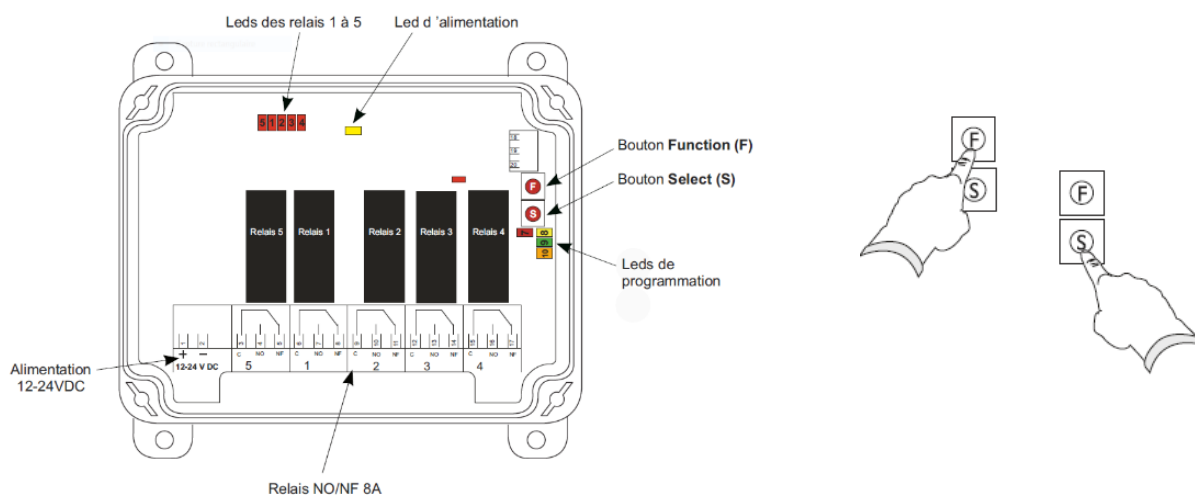
- Reverse direction of disassembly
- Retighten the chains



PAIRING THE REMOTE CONTROL

ERASE ALL TRANSMITTERS IN THE RECEIVER

1. In the receiver, press the Function button (F). The red LED 7 lights up.
2. Press and hold the Select (S) button. All relay LEDs will light up.
3. Hold down until the relay LEDs turn off.



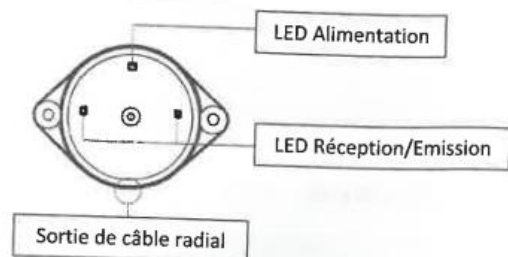
REGISTER THE TRANSMITTER IN THE RECEIVER

1. In the receiver press the Function button (F). LED 7 lights up.
2. Then press the Select (S) button. All LEDs light up.
3. On the transmitter, press and hold buttons 1 and 2 until the relay LEDs flash 3 times.



RADIO REPEATER PAIRING

DIAGNOSTIC LIGHT



The power LED is solid green when the product is powered on.

The 2 Reception/Transmission LEDs flash with each Reception/Transmission of a radio frame.

PAIRING PROCEDURE



The repeater must be powered off.



Check that the switch on the back of the product is in the [I] position.

If you have an ON/OFF function, turn on the remote control.

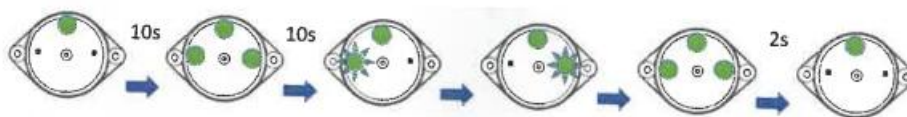
Press the pairing buttons on the product. Typically, these are buttons 1 and 2 or 1 and 3 if you have an ON/OFF function on button 2.

If you have a special program, consult the program sheet to identify the product pairing buttons.

Hold down throughout the repeater startup phase below.

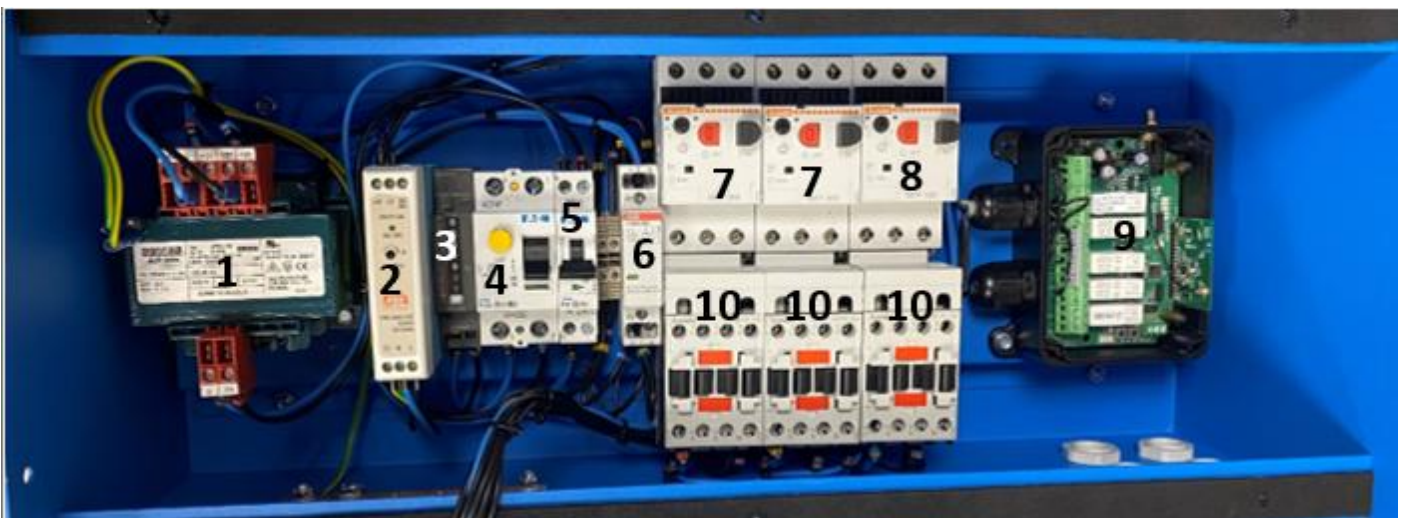


Power on the repeater.



Release the pairing buttons.

ELECTRICAL PANEL



PRESSURE SWITCH ADJUSTMENT (if your machine is equipped with one)

- 1) Press the middle button until you reach SP
- 2) Enter a value between 120 and 150
- 3) Press the middle button again until you reach the row of zeros



ELECTRICAL COMPONENTS

1. Machine transformer
2. Radio remote control transformer
3. Hour meter
4. Differential circuit breaker
5. Magneto thermal circuit breaker (transformer protection)
6. Self-maintaining
7. Air motor protection
8. Variator protection
9. Radio receiver
10. Contactors (x4)

TROUBLESHOOTING

ANOMALY	RESOLUTION
The power indicator light does not light up	- The machine is not plugged in - The machine or power supply's differential circuit breaker is tripped - The bulb is broken - The power cable is broken - Emergency stop engaged
One or more air motors are no longer working	- Checking Air Motor Circuit Breakers - Checking the carbon brushes on the air motor - Is the air motor selector switch in the correct position? - The differential circuit breaker is tripped
An engine expels air instead of sucking it in	The motor is not electrically powered or is broken
The mill and/or brushes no longer turn	- The motor-variator circuit breaker is tripped - The drive chain may be loose or damaged - The variator motor is broken
The product rises into the tank	- The mill's polyurethanes are defective - Check the pressure gauge for oscillations

Before any intervention, we advise you to take a photo before any intervention in order to facilitate the reassembly of the equipment.

In the event of a problem, our technical department is available to resolve the anomaly with you and help you use your equipment in optimal conditions.

WORKSHOP CONTACT:

+33 (0)1 39 72 72 72
atelier@isolinternational.com

Depending on the case, we can offer you troubleshooting via video assistance.

