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THE EQUIPMENT SPECIALIST
FOR INNOVATIVE INSULATION

INSTRUCTION MANUAL



BV Cert. 20013733
Machines d'isolation

BV Cert. 21959263
Service après-vente

ISOL INTERNATIONAL®
9 - 15 rue du Renouveau - 78700 Conflans Sainte Honorine - France
01 39 72 72 72
www.isolinternational.com

CONTENTS

Contact P.3

Precautionary measures..... P.3 to 6

1. General P.4
2. Security P.4
   - 2.1 Symbols and signals..... P.4
   - 2.2 Personnel qualifications P.5
   - 2.3 Danger if instructions are ignored P.5
   - 2.4 Safety instructions for user..... P.5
   - 2.5 Modifying the machine and using non-approved spare parts P.5
3. Unauthorized use P.5
4. Transport and storage..... P.5 to 6
   - 4.1 Transport..... P.5
   - 4.2 Storage P.6
5. Warranties P.6

Data sheet P.7

Machine **performance chart**..... P.8

Machine commissioning ..... P.9 to 12

1. Start-up procedure P.9
2. Settings P.10
3. Machine shutdown P.10
4. Maintenance..... P.10 to 11
5. Replacement of sealing bibs (polyurethane) P.12

Remote control pairing P.13

Radio repeater pairing P.14

Electrical panel..... P.15

Electrical components..... P.16

Troubleshooting..... P.17

Technical data..... P.18

CONTACTS

ISOL INTERNATIONAL®
9 - 15 rue du Renouveau - 78700 Conflans Sainte Honorine - France
www.isolinternational.com

SECRETARIAT :
+33 (0)1 39 72 72 72
secretariat@isolinternational.com

SALES DEPARTMENT: Mr Julien Hazera
+33 (0)1 39 11 69 46
commercial@isolinternational.com

PRECAUTIONARY MEASURES

PLEASE READ THIS DOCUMENT AS SOON AS YOU RECEIVE YOUR MACHINE, BEFORE PUTTING IT INTO SERVICE.

THIS IS ESSENTIAL BEFORE .

YOUR MACHINE HAS BEEN EXTENSIVELY TESTED IN OUR WORKSHOPS TO EXACTING STANDARDS. IT'S EASY TO HANDLE AND HIGHLY EFFICIENT.

DEPENDING ON THE PRODUCTS USED, THE MECHANICAL VARIATOR SETTING ENABLES

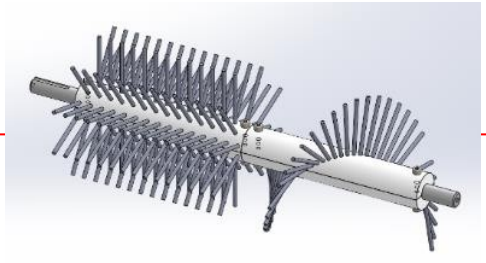
FLOW RATES UP TO 18 KG/MIN.

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

BRUSH FEEDING AND DEFIBRATION SYSTEM IS PROTECTED BY THE PATENT *N°FR1914825*







NEVER TOUCH ROTATING PARTS WITH YOUR HANDS OR ANY OTHER PART OF YOUR BODY - NEVER CLIMB ON THE MACHINE DURING OPERATION UNDER ANY CIRCUMSTANCES.

1. GENERAL

About this document - Read this entire manual carefully before using it.
install or use the machine.

The instruction manual is an integral part of the machine and must always be available in the vicinity of your machine. Strict compliance with these instructions is a prerequisite for proper installation and use of the equipment.

The wording of this document and the operating instructions correspond to the version of your device and the safety standards in force at the time of printing.

REMARKS: We strongly recommend that this manual is read by the relevant managers, supervisors and maintenance personnel, so that they can help your staff who use the equipment every day. Be sure to follow all instructions in this manual.

2. SAFETY

This manual contains essential instructions which must be observed during use. It is therefore essential that the installer and operator of the equipment familiarize themselves with these instructions before proceeding with .
In addition to the general safety instructions in this chapter, you must also follow the special safety instructions in the following chapters, which are marked with a hazard symbol.

2.1 SYMBOLS AND SIGNALS

 General hazard symbol

 Electrical safety instructions

DANGER!= the user is subjecting himself to an extremely dangerous situation which may result in (serious) personal injury if the instructions are not followed.

CAUTION = there is a risk of damaging system components (e.g. polyurethanes).

2.2 PERSONNEL QUALIFICATION

It is important to ensure that all personnel using the are suitably qualified.

2.2 DANGERS IF INSTRUCTIONS ARE NOT FOLLOWED

Failure to observe the safety **may constitute a danger to property and persons**. It **may also lead to the suspension of all warranty claims**.

More specifically, the hazards involved can be as follows:

- Danger to persons from electrical and mechanical influences
- Failure of prescribed maintenance and repair process
- Property damage

2.4 SAFETY INSTRUCTIONS FOR THE USER

These instructions must be followed avoid any risk of accident. The user must be a qualified specialist **who is familiar with the contents of the operating manual**. Installation work must only be carried out with the corresponding equipment switched off.

2.5 MACHINE MODIFICATIONS AND USE OF NON-APPROVED SPARE PARTS

Modifications to the machine may only be carried out with the prior authorization of **ISOL INTERNATIONAL®**. The use of original spare parts and accessories authorized by the manufacturer guarantees safety.
The use other parts releases the company from all liability.

3. UNAUTHORIZED USE

The maximum and minimum values specified in the operating or data sheet must not be exceeded under any circumstances. Safe operation of the machine supplied is only guaranteed if the regulations specified in this document are complied with.

4. TRANSPORT AND STORAGE OF THE MACHINE

4.1 TRANSPORT

In accordance with European Directive 2006/42 of May 17, 2006, you must ensure that the machine is stabilized during transport, using appropriate fastenings (straps, retaining bars, etc.).

4.2 STORAGE

We recommend that you store your machine in a dry place away from direct sunlight.
bad weather.

5. GUARANTEES

ISOL INTERNATIONAL® machines are guaranteed for 24 months from date of invoice. This warranty does not include wear parts (motor brushes, polyurethanes, castors, feeder brushes, etc.).

WARNING! Risk of material damage! In the event of removal, improper transport and storage result in material damage to the machine.

This carding machine is designed for blowing in and blowing out cellulose wadding,

cotton, glass wool, rock wool as well as wood fibers, cardboard, etc.

Its welded sheet-metal construction combines lightness and sturdiness. Its 160 mm Ø castors make it easy to transport.

It can used to blow in and blow out all flock insulation products.



DATA SHEET

FEATURES	COMPACT 3
Dimensions (m)	L= 0.85 l= 0,75 H= 1.45
Weight	190 kg
Motors	- Air (2): 1.25 kw - Inverter motor: 0.88 kw
Pipe diameter	Ø 80 mm
Max. pipe length	40 m
Maximum vertical drop	15 m
Power supply	230 Single-phase 16 A
Settings	Air: remote control or decompression valve Wool: via product feed drawer
Flow	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	 Customizable transmitters with your visual 3 functions : - On/Off (Air motor on) - Air+/Air- (Select 2 or 1 air motor(s)) - Fiber (product feed startup)

PERFORMANCE CHART

Materials	Manufacturers	Product name	Machine output in kg/h	Machine output in m²/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
	LE RELAIS	Métisse	Up to 400	Up to 66
	RMT	Nita-Cotton	Up to 400	Up to 81
	BUITEX	Cotton Wool	Up to 400	Up to 91
CELLULOSE WADDING	OUATECO	Ouatéco	Up to 1100	Up to 120

MACHINE COMMISSIONING

VERY IMPORTANT

Particular care must be taken when connecting the machine, reasons of safety and to prevent damage to the equipment. **Check** that the mains supply voltage **matches** that of the machine, and that the amperage allowed is at least **equal** to **16 amps** at **230 volts single-phase**. If the voltage does **not match**, or if in **doubt**, consult the site electrician or your customer about the type subscription he has with his supplier.
energy.

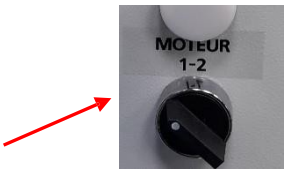
IF USING A GENERATOR (7.5 KVA), CONNECT THE EARTH ROD. OTHERWISE ISOL INTERNATIONAL® CANNOT CORRECT OPERATION OF THE MACHINE.

1. START-UP 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 indicator light, just below, should light up when you press the black power-on button on the electrical panel.

Otherwise :

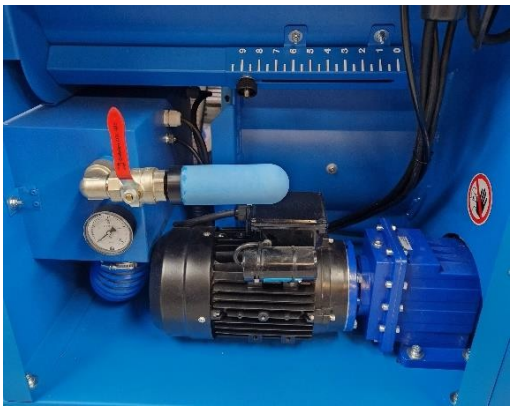
1. No electricity to the machine
2. Reset circuit breaker
3. Indicator lamp defective



Use with radio remote control: set motor 1 to position

- Press the "**on**" button on radio remote control to switch on the radio.
  turn on the air
- Press the "**Air-/Air+**" button to switch 1 or 2 air motor(s) on or off.
- Press the "**fibre**" button on the radio remote control to
  switch product feed
- Press the "**off**" button to stop the machine

2. SETTINGS



A) AIR PRESSURE ADJUSTMENT (remote control or decompression valve)

3. STOPPING THE MACHINE

To stop the machine, you must :

1. Press the "**fibre**" button on the radio remote control to stop the operation. product feed
2. Press "**Air-/Air+**" button to switch 1 or 2 air motors on or off
3. Press the "**on/off**" button on the radio remote control to switch off the radio. tension the air
4. Unplug the machine

4. MAINTENANCE

ALWAYS STOP THE MACHINE WITH THE "STOP" BUTTON

BEFORE TOUCHING THE TURNING ELEMENTS!

4.1 DAILY MAINTENANCE



CLEANING OF TURBINE SUCTION BY VACUUMING OR DUST REMOVAL



CHECK THE PRESSURE GAUGE ON THE
MACHINE IF SIGNIFICANT OSCILLATION PRESENT
(sealing : sealing flaps
etc.).

4.2 MAINTENANCE EVERY 200 HOURS



DISASSEMBLE HOUSINGS, GREASE BEARINGS AND CHAINS.

CHECK ALL SPROCKETS FOR TIGHTNESS.



Access to the polyurethane is via the hatch.

5. REPLACING WATERPROOFING DAMPERS (polyurethane) :

Steps for leak-testing your machine :

1. Empty machine of insulation
2. Switch the machine to air operation+ fibre
3. Close the product outlet

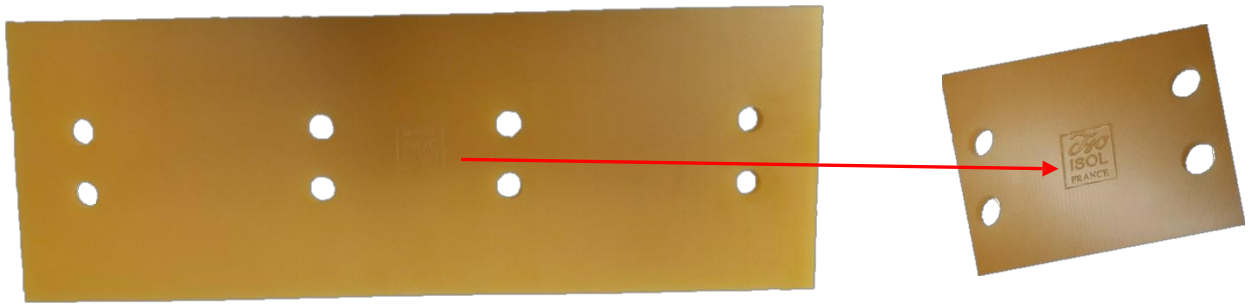
Maximum pressure: 250 mbar
Operating pressure: between 100 and 150 mbar
Oscillation pressure gauge needle= sealing problem

Dismantling :

- Remove housing
- Remove lock drive chain
- Release the pinion set screws at the rotor end
- Remove pinions
- Unscrew lock front plate (Ø 8 screw)
- Remove the front plate and rotor from their housings
- Remove sealing strips

Replacement of sealing bibs (polyurethane) :

- Remove worn sealing strips with a 5" BTR wrench.
- Replace sealing bibs with original polyurethanes (identified by the **Isol International®** stamp).



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

Reassembly :

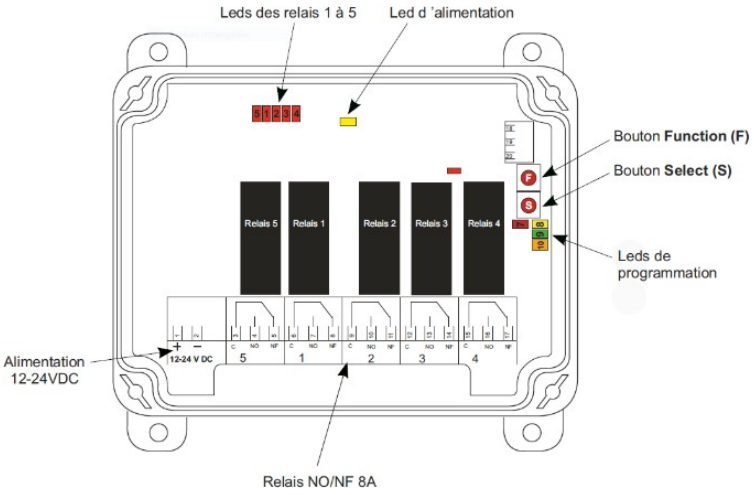
- Reverse disassembly direction
- Retensioning chains

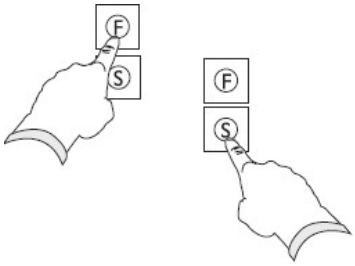


REMOTE CONTROL PAIRING

DELETE ALL TRANSMITTERS IN THE RECEIVER

1. On the receiver, press the Function button (F). LED 7 lights up red.
2. Press and hold Select button (S). All relay LEDs light up.
3. Keep pressed until the relay LEDs go out.





SAVE THE TRANSMITTER IN THE RECEIVER

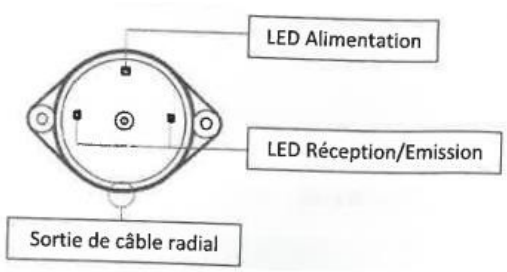
1. On the receiver, press the Function button (F). LED 7 lights up.
2. Then press the Select (S) button. All LEDs light up.
3. On the transmitter, press and hold buttons 1 and 2 until the relay leds flash 3 times.





RADIO REPEATER PAIRING

DIAGNOSTIC LIGHT



The power LED is steady green when the product is switched on.

The 2 Receive/Transmit LEDs flash at
Each time a radio frame received/transmitted.

PAIRING PROCEDURE



The repeater must be off.



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

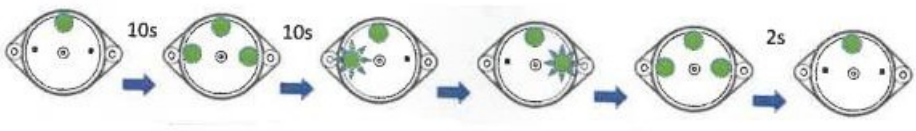
If you have an ON/OFF function, switch on the remote control.

Press the pairing on the product. These are usually the 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's pairing .

Keep pressed throughout the repeater start-up phase below.



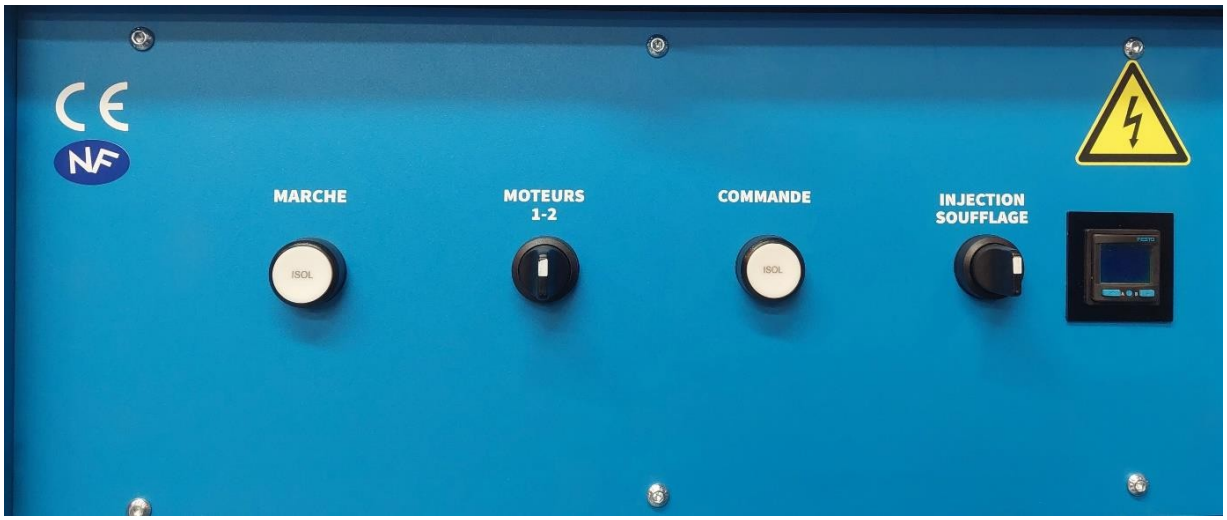
Switch the repeater.

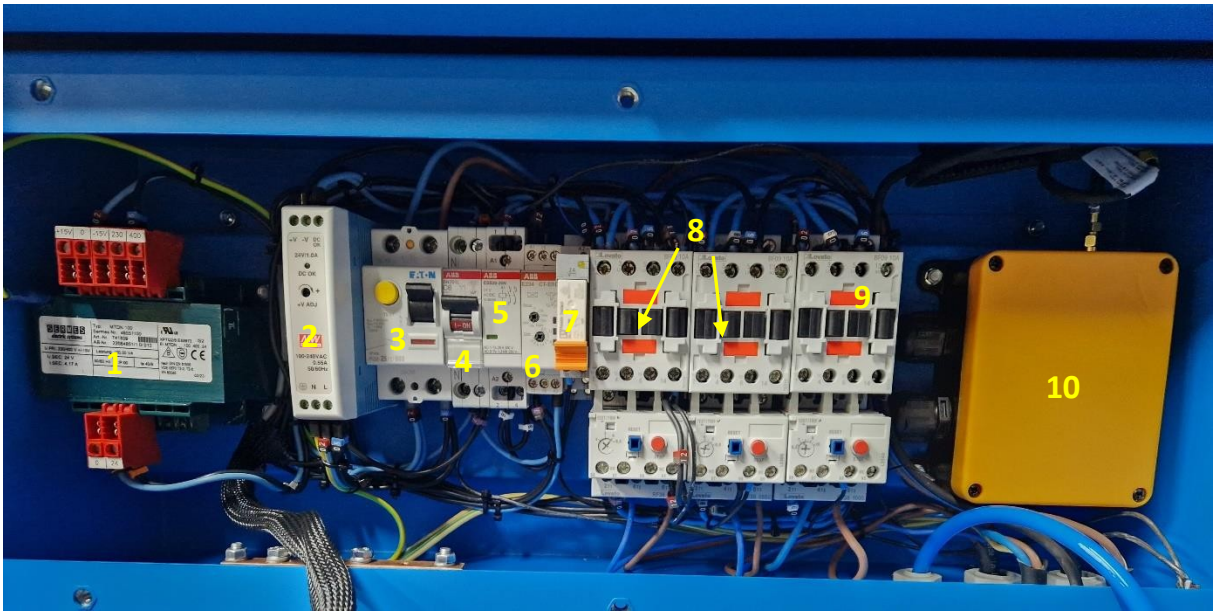




Release the pairing .

PANEL





PRESSURE SWITCH ADJUSTMENT (if fitted)

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 zero row





COMPONENTS

1. Machine transformer (value) 230V
2. Radio remote control transformer (value) 24V/10A
3. Earth leakage circuit breaker (value) 25A 30mA
4. Circuit breaker C 6A
5. Modular contactor
6. Time delay
7. Pressure switch relay
8. Contactor and thermal relay for air (value) 0650
9. Contactor and thermal relay for geared motor (value) 1000
10. Radio remote control receiver

TROUBLESHOOTING

ANOMALY	RESOLUTION
The power indicator does not does not light up	- Machine not plugged in - The differential circuit breaker on the machine or power supply is disengaged - The bulb is out of order - Power cable out of order - Emergency stop engaged
One or more air work more	- Checking air motor circuit breakers - Is air motor selector switch in the right position? - Residual current circuit breaker disengaged
A motor expels air instead of sucking it in	Motor is not powered or is out of order
Mill and/or brushes no longer turn	- The gearmotor circuit breaker is disengaged - Drive chain may be slack or damaged - The gear motor is out of order
Product rises in the tank	- The mill's polyurethanes are faulty - Check pressure gauge for oscillations

We advise you to take a photo before intervention to facilitate reassembly of the equipment.

In the event of a problem, our technical department is at your disposal to help you solve the problem and get back to using your equipment in optimum conditions.

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

Depending on the case, we may be able to offer you *Visio-assistance*.

