

GB

PIKUS 105/105DL - PIKUS 75/75DL



RAIMONDI S.p.A.

CE DECLARATION OF CONFORMITY

Raimondi S.p.A. declares that its machines “**PIKUS 105**”, “**PIKUS 105DL**”, “**PIKUS 75**” and “**PIKUS 75DL**” meet the essential requirements laid out in the following Directives:
 EC Directive 98/37 (Machine Directive)
 EEC Directive 73/23/ (Low Voltage Directive).

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Before leaving the production site, our machines undergo a series of tests to ensure quality, safety and efficiency.

If you follow the instructions in this manual carefully, under normal operating conditions, your machine will last a long time.




Before using the machine, read this manual carefully as thorough knowledge of the instructions prevents accidents and malfunctions.

Use

PIKUS 105/105DL – 75/75DL saws are suitable for cutting and rounding off (Jolly 45°) single or double-fired ceramic tiles, porcelain stoneware, marble, natural stone and Tuscan brick.

The maximum cutting thickness is inversely proportional to the hardness of the material to be cut. When cutting, the forward speed is proportional to the hardness of the material to be cut.

Type of tool suggested

	DIAMOND DISK Ø EXT. 230/250 mm Ø DISK HOLE 25,4 mm	GRAIN	SUGGESTED FOR
	SMOOTH CROWN	D181	CERAMICS, SINGLE-FIRING, PORCELAIN STONE-WARE
	SMOOTH TURBO CROWN	D252	CERAMICS, SINGLE-FIRING, PORCELAIN STONE-WARE
	SECTORED	D301	MARBLE, BRICK, NATURAL STONE

Limitations

The PIKUS 105/105DL – 75/75DL saws are designed to be used only with the disks described above and must be water-cooled.

Never use the machine with disks for wood-working machines.

Modifications that alter the original characteristics of the machine, the type of disk used, disk r.p.m. or the safety devices can only be performed by the manufacturer, checking that the machine complies with the safety standards. Therefore any modification or maintenance operation not included in this manual is expressly forbidden.

If the necessary maintenance operations are not included in this manual, contact the manufacturer or the dealer.

Technical data

		PIKUS 105/105DL	PIKUS 75/75DL
WEIGHT	kg	66	56
TANK CAPACITY	l	33	23
MAXIMUM DISK DIAMETER	mm	250	250
DISK HOLE	Ø mm	25,4	25,4
SPEED	min ⁻¹	2000	2000
MAX. CUTTING THICKNESS OF DISK Ø 230	mm	70	70
MAX. CUTTING THICKNESS OF DISK Ø 250	mm	80	80
USEFUL CUT	cm	105xUNLIMITED	75xUNLIMITED
JOLLY 45°	cm	105xUNLIMITED	75xUNLIMITED

TECHNICAL DATA FOR MOTORS

SINGLE-PHASE 230V 50Hz 1,1kW 8,5A 2800 min ⁻¹ MOTOR CLASS F	SINGLE-PHASE 230V 60Hz 1,1kW 8,5A 3360 min ⁻¹ MOTOR CLASS F	SINGLE-PHASE 115V 50Hz 1kW 17A 2800 min ⁻¹ MOTOR CLASS F	SINGLE-PHASE 115V 60Hz 1kW 17A 3360 min ⁻¹ MOTOR CLASS F
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The machine units

Main units:

- A) Motor assembly
- B) Half-plates for support;
- C) Slide bar
- D) Cooling unit
- E) Frame
- F) Square assembly
- G) Handles for transport
- H) Wheels for transport
- I) Legs

Optional units for the DeLux version:

- J) Tile holder device
- K) Left-hand square
- L) Shelves (table extensions)



FIG. 1

Workstation



The machine is designed for use by one operator only. Other persons should keep at a safe distance from the machine's operating area.

The machine must not be started unless the operator is standing in the correct working position.

While the machine is running, never reach into the cutting zone (C), which is the gap between the two half-plates.

During operation, the operator must be standing on the front side of the machine. One hand should be holding the handgrip (A) and the other the tile resting on the half-plate (B) opposite to the hand holding the motor drive unit. If you are using a DeLux version, one hand should be grasping the knob of the tile holder device (D).

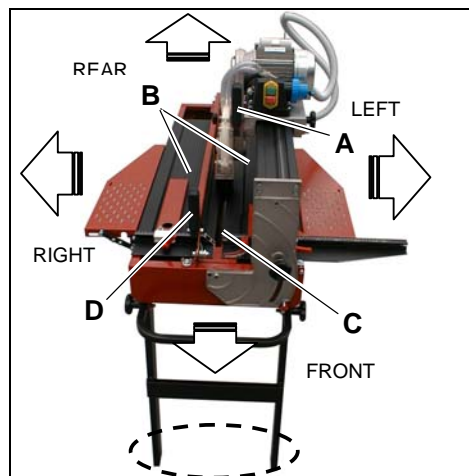


FIG. 2

Safety devices



Never run the machine if its guards and safety devices have been tampered with, removed or are not in working order.

The protection systems:

- A) Power switch;
- B) Spray guard;
- C) Disk guard.

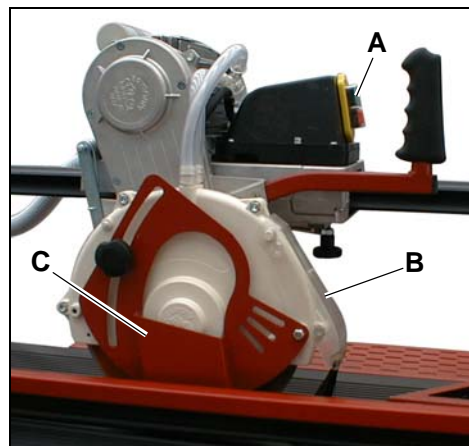


FIG. 3

Noise

The machine noise output is measured on production samples in compliance with ISO 3754-77 and ISO CD 11201-91.

	PIKUS 105/105DL		PIKUS 75/75DL	
Lw	103,5 [dBw(A)]	10,2[mW(A)]	103,5 [dBw(A)]	10,2[mW(A)]
Lop	101,0 [dB(A)]	111,5 [mW(A)]	101,0 [dB(A)]	111,5 [mW(A)]

Safety Precautions

Before starting any type of cutting operation, always check:



the level of cooling water (the pump must be entirely submersed);



ATTENTION:

- that the disk guard has been positioned correctly;
- that the disk is sharp; if necessary run it with the sharpening stone;
- that the disk shows no signs of cracking; if necessary, replace;
- that nobody is in the work area except those directly involved in the operations.



The paragraph on NOISE indicates the level of noise emitted by the machine during operation. If the machine is operated by a single operator for an entire eight-hour shift, the person may be exposed to a daily noise level of more than 85 dB(A).

To reduce the risk stemming from exposure, use appropriate ear protection. Also see Italian Law 277/91 for more specific indications.



Always wear goggles and protective gloves.



If the machine cuts out unexpectedly, it means that the motor overload cutout has kicked in. In this case, unplug the machine from the power supply and wait until the motor and overload cutout have cooled down.

Transport of the package

Handle by means of a forklift truck, inserting the forks in the appropriate openings at the bottom of the pallet. Use a forklift truck of a suitable load-carrying capacity (>200 kg).

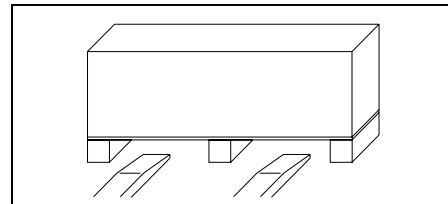


FIG. 4

Manual handling

- Drain any water in the tank.
- Loosen the knob under the motor assembly, move the latter to the centre of the slide bar and tighten the knob again, to balance weight.
- Fold the machine's legs (the front leg first) and secure the latter in place with the knobs provided.
- Before transporting the machine, lift the front and rear sides of the machine.



TWO PEOPLE ARE REQUIRED TO MOVE AND INSTALL THE MACHINE. TO TRANSPORT THE MACHINE OVER SMALL SPACES, LIFT IT USING THE FRONT HANDLE AND PULL IT FORWARDS WITH THE AID OF THE REAR WHEELS.

Electrical Power Supply

- The "PIKUS" saws must be powered at the voltage indicated on the "TECHNICAL DATA" label.
- Always use an effectively grounded cable to hook up the machine. When in doubt, do not plug the machine in.
- Hook up the machine to a 12A socket.



ATTENTION: THE FOLLOWING PROBLEMS CAN ARISE WHEN USING EXTENSION CORDS THAT ARE TOO LONG, OR WHEN POWERING THE MACHINE WITH A VOLTAGE GENERATOR:

- SLOW MOTOR START-UP CAUSING THE SAFETY DEVICES TO CUT IN;
- OVERHEATING OF THE MOTOR WITH A DROP IN POWER;
- ON/OFF DEVICE DOES NOT WORK.

The "PIKUS" saws must be hooked up to a power supply source equipped with a differential switch or a class II insulation transformer with the characteristics indicated in the table:

TRANSFORMER	230V~ 50Hz 1,1kW	230V~ 60Hz 1,1kW	115V~ 50Hz 1 kW	115V~ 60Hz 1 kW
DIFFERENTIAL	8,5A Id 20mA	8,5A Id 20mA	17A Id 20mA	17A Id 20mA



ATTENTION: ALWAYS REMEMBER TO PERIODICALLY CHECK THAT THE DIFFERENTIAL SWITCHES ARE OPERATING CORRECTLY. THIS CAN BE DONE BY PRESSING THE TEST BUTTON ON THE FRONT OF THE UNIT.

Checks before use

Before using the machine, check for any broken, worn or damaged parts and replace them immediately.
 For spare parts and accessories, always follow the instructions in this manual.
 Use only original spare parts.
 For the best performance and utmost safety, always keep the machine clean and lubricated.
 Always unwind the power supply cord completely and check it for damage.

Carefully check the "TECHNICAL DATA LABEL" before plugging in the machine.
 If an extension cord is used, make certain that the section is 3x2.5 mm² or greater.

Work on a flat and clean surface, which is clear of hindrances.

Assembling/Disassembling the machine



**BEFORE PERFORMING ANY OPERATION, MAKE SURE THAT THE MACHINE IS UNPLUGGED.
TWO PERSONS ARE NEEDED TO ASSEMBLE THE MACHINE**

Assembly:

- Take the machine off the pallet and check for broken or damaged parts.
- Unscrew the two knobs (A) from the rear feet, namely the feet featuring wheels;
- Whilst one operator raises the rear side of the machine, the other should pull down the feet and fasten them with the knobs provided for this purpose (A);
- Repeat the above steps for the front side of the machine.

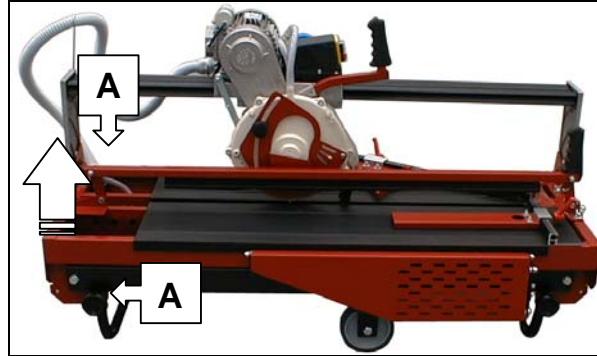


FIG. 5

Disassembly:

- Repeat the above operations in reverse order (first the front section, then the rear).

Water supply

Pour clean water into the machine's tank until the pump is entirely immersed in the cooling circuit.

Regulating cut depth



BEFORE PERFORMING ANY OPERATION, MAKE SURE THAT THE MACHINE IS UNPLUGGED.

The **PIKUS** machine can be used as follows:

- With the motor assembly locked in place at the desired cutting depth, tightening the handle (D).
- Manually lowering the motor assembly using grip (E) (knob (D) loosened).

When performing cuts on material longer than 90 cm for the **105/105DL** version and 60 cm for the **75/75DL** version, proceed as follows:

- Release the motor assembly by slackening the knob (D), so that the disk is in its top-most position, then move it to its rear stroke end.
- Position the piece to be cut on the table.
- Press the start button and wait until the cooling water reaches the disk.
- Using the grip, slowly lower the motor assembly so that the disk enters the material. Lock the motor assembly in place by tightening the knob (D)
- The machine is now ready to cut (see **Cutting**).

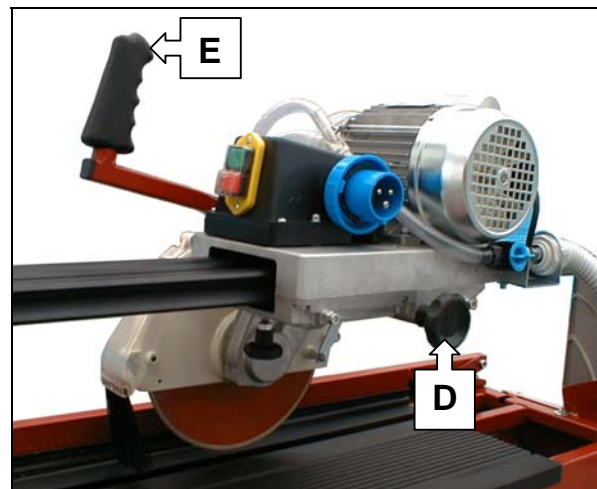


FIG. 6



ATTENTION: WHEN MAKING PARTICULARLY THICK CUTS, IT IS BEST TO PASS OVER THE MATERIAL AS MANY TIMES AS REQUESTED BY ITS HARDNESS.

Positioning the square



BEFORE PERFORMING ANY OPERATION, MAKE SURE THAT THE MACHINE IS UNPLUGGED.



ATTENTION: CHECK THAT THE SQUARE (A) IS RESTING ON THE BLOCK (H) AND THAT THE LEVER (C) IS LOCKED.

NORMAL CUTS



- Set the tile on the square (A) and on the rest (B).



NOTE: TO ENSURE A PERFECTLY SQUARE CUT, REST THE TILE PRECISELY AGAINST THE SQUARE (A).

- Position the indicator on triangle (G) at the requested measure and lock it with the lever (D).



NOTE: IF THE CUT IS NOT PARALLEL:
 - Make sure the square (A) and the rest (B) are aligned;
 - Adjust the position of the square (A) by turning the adjustment screw (F).

DIAGONAL CUTS



- Loosen the knob (C) and position the square at 45°.
- Loosen the lever (D) and position the indicator (G) on the triangle (E), namely on the DIAGONAL tile measurement. Tighten levers (C) and (D).
 Keeping the diamond disk above the surface of the tile, run the motor assembly and adjust its position so that, at the beginning and end of the cut, the diamond disk lines up with the corners of the tile.
- Reposition the triangle in the correct position and tighten the lever (D).

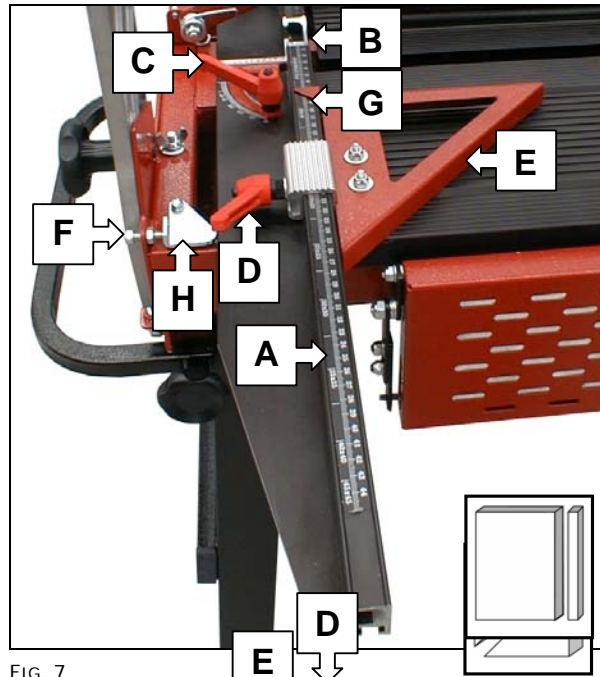


FIG. 7

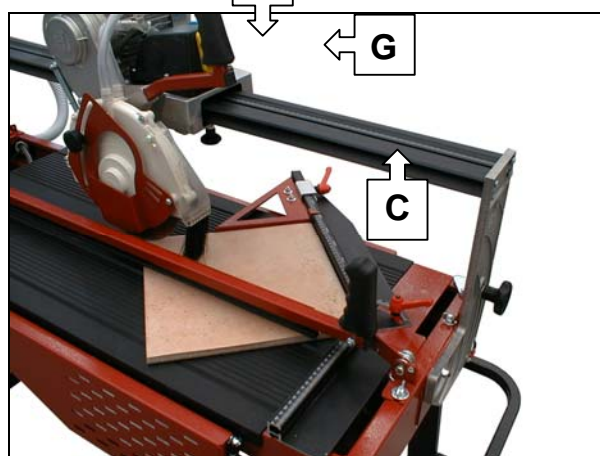


FIG. 8



NOTE: WHEN CUTTING AT ANGLES OTHER THAN 90° AND 45°, TRACE THE CUTTING LINE ON THE TILE.

WITH THE MOTOR OFF, PLACE THE TILE ON THE MACHINE TABLE.

LET THE DISK RUN OVER THE TILE AND MAKE SURE THE CUTTING LINE CORRESPONDS TO THE LINE PREVIOUSLY TRACED ON THE TILE. MOVE THE SQUARE AGAINST THE TILE EDGE AND LOCK IT IN PLACE WITH THE LEVER (C).

Cutting



BEFORE TURNING ON THE MACHINE, ADJUST THE DISK GUARD SO THAT IT IS TOUCHING THE TILE TO CUT AND TIGHTEN THE ADJUSTMENT KNOB



IMPORTANT: BEFORE CUTTING, MAKE CERTAIN THAT THE COLUMN LOCK (A) AND THE MOTOR HOIST KNOBS (B) ARE FIRMLY TIGHTENED.

To prevent bending or warping the disk and overloading the motor, the motor assembly forward speed during the cut must be proportional to the hardness of the material to be cut.



ATTENTION: WHEN MAKING PARTICULARLY THICK CUTS (MAX 80/70mm), IT IS BEST TO PASS OVER THE MATERIAL SEVERAL TIMES AS REQUESTED BY ITS HARDNESS.

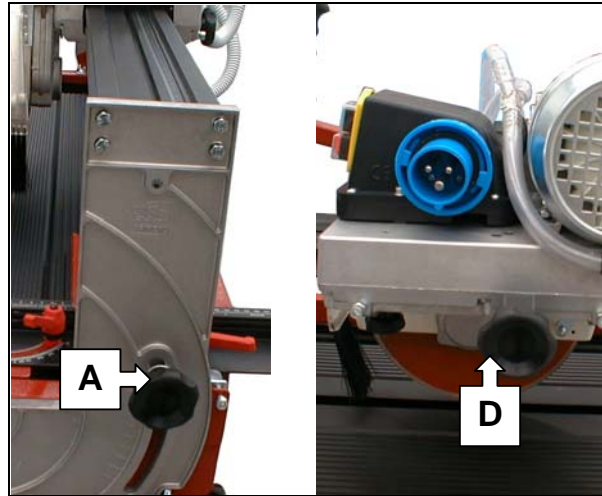


FIG. 9

- Press the start button.
- Wait until the cooling water reaches the diamond disk.
- **Proceed with cutting, slowly bringing the diamond disk up against the material to be cut.**
- Continue cutting keeping the forward speed steady.
- Towards the end of the cut, reduce speed.

If the end of the tile (the last centimeter) breaks, sharpen the diamond disk.

If this does not eliminate the problem, it can be resolved as follows:

- make a 2 cm cut at one end of the tile.
- then turn the tile and make a cut running all the way to the previous 2 cm cut.



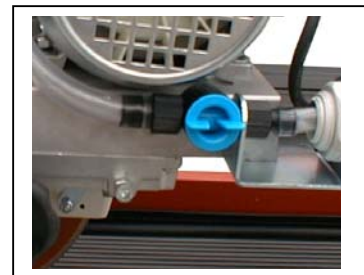
IMPORTANT: WHEN CUTTING, BEAR IN MIND THE INSTRUCTIONS GIVEN IN THE “WORKSTATION” PARAGRAPH (PAGE 4)



MAKE SURE THERE IS ENOUGH CLEAN WATER IN THE TANK TO ENTIRELY COVER THE PUMP. DIRTY WATER CAN LEAD TO IMPROPER OPERATION OR EVEN THE BREAKAGE OF THE PUMP.



USE THE TAP PROVIDED TO ADJUST THE FLOW OF WATER DELIVERED TO THE DISK.



Jolly 45° Operation



BEFORE PERFORMING ANY OPERATION, MAKE SURE THAT THE MACHINE IS UNPLUGGED.



As far as the DeLux version is concerned, remove the tile-holder device from the left-hand side of the machine, by means of the wing nuts, and fix it to the right-hand side; tighten the wing nuts after adjusting.

- Loosen the column lock knobs (A) (front and back), tip the guide bar all the way and lock it by firmly tightening the column lock knobs.
- Position the motor head so that the diamond strip is flush with the work surface.



IMPORTANT: BEFORE CUTTING, MAKE CERTAIN THAT THE COLUMN LOCK (A) AND THE MOTOR HOIST (B) KNOBS ARE FIRMLY TIGHTENED.

ATTENTION: BEFORE TIPPING THE SLIDE BAR, MAKE CERTAIN THAT THE DIAMOND DISK DOES NOT TOUCH ANY PARTS OF THE MACHINE OR THE MATERIAL TO BE ROUNDED OFF.

- Position the tile to be rounded off with the glazed side facing upwards on the work surface and make certain that it rests perfectly on Square (C).
- Check that the diamond disk is flush with the glazed surface.
- Bring the triangle (D) up against the tile and lock in place with the knob (E).
- Run a Jolly test. Make any fine adjustments by loosening the lever (E), adjusting and tightening it again.

To perform the Jolly 45° cut properly, **the diamond disk must be well sharpened**; if not properly sharpened it would bend and the cutting line would not remain flush with the glazed surface.

If the end of the tile (the last centimeter) breaks, sharpen the diamond disk.

If this does not eliminate the problem, it can be resolved as follows:

- if you need to round off on side (F), bevel 2-3 cm on side (G) of the tile.
- then turn it and round off side (F).

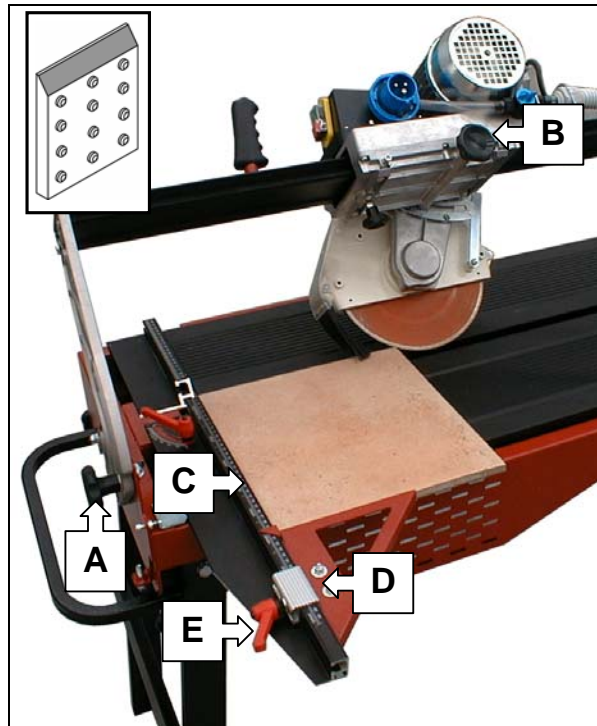


FIG. 10

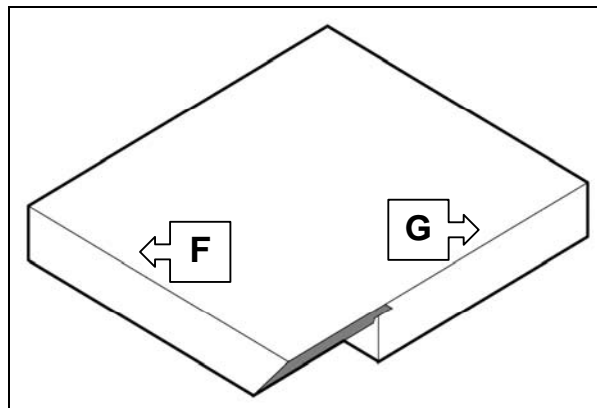


FIG. 11

Maintenance



BEFORE PERFORMING ANY OPERATION, MAKE SURE THAT THE MACHINE IS UNPLUGGED.

CLEANING



ALWAYS CLEAN WITH A DAMP SPONGE. NEVER SPRAY WATER. KEEP THE SLIDE BAR CLEAN (DO NOT GREASE).

LUBRICATION



REGULARLY GREASE THE CHUCK BEARINGS IN THE POINT OF CONTACT WITH THE DISK HOLDER FLANGE.

CLEANING THE TANK

- Remove the two half-plates.
- Empty the water from the tank by removing the plug (A) at the bottom of the former.
- Remove all cutting residues and offcuts from the tank.
- Carefully clean the pump filter tank.
- Do not use tools when cleaning as this could chip the paint.

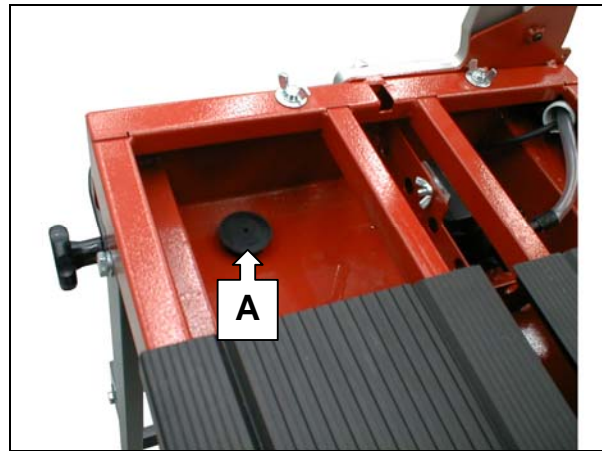


FIG. 12

FILLING THE TANK



POUR IN ENOUGH CLEAN WATER TO COVER THE PUMP.

Replacing the diamond disk

- Remove the plastic spray guard.
- Loosen the screws and remove the disk guard.
- Insert an Allen wrench into the hollow on the flange-holder shaft.
- Loosen the disk securing nut with the supplied 22 mm Allen wrench, turning it clockwise.
- Install the diamond disk, following the direction of rotation indicated on the disk and on the disk guard.
- To ensure that the disk is firmly secured in place, tap on the shaft of the 22 mm Allen wrench with a hammer.
- Refit the disk guard.
- Manually rotate the disk to check that it has been installed correctly.



FIG. 13



ATTENTION: DO NOT FORGET TO REFIT THE SPRAY GUARD.

SHARPENING THE DIAMOND DISK



SHARPEN THE DIAMOND DISK BY RUNNING A FEW CUTS AGAINST THE DISK SHARPENER.

Regulating the slide device

Set the motor head to its low position.
If the motor head shows excessive play, proceed as follows:

- Loosen the nut (A).
- Adjust by means of the screw (B).
- Tighten the nut (A).

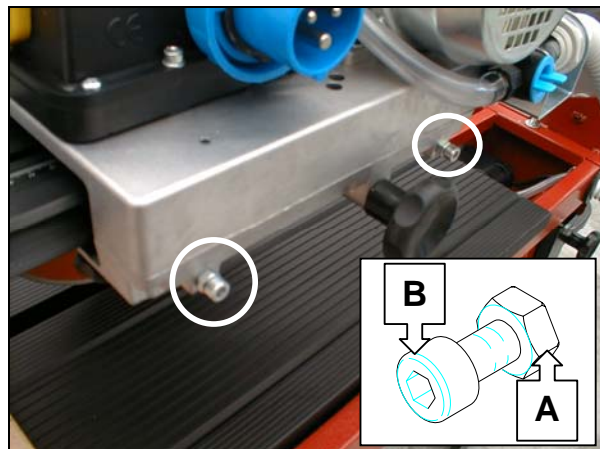


FIG. 14

Repairs



BEFORE PERFORMING ANY OPERATION, MAKE SURE THAT THE MACHINE IS UNPLUGGED AND EMPTY THE TANK.

REPLACING THE PUMP

- Remove the table (A).
- Empty the tank.
- Loosen the wing nut (B) and remove the pump.
- Open the terminal block cover of the main electric motor.
- Unplug the pump power supply cable.
- Pull the cable out of its sheath.
- Disconnect the water drainage hose.
- Replace the damaged pump with a new one, fit the cable into its sheath and restore connections.
- Close the terminal box cover being careful not to pinch the cables and **correctly position the rubber gasket.**
- Reconnect the pump water drainage hose to the pump.
- Fasten the pump (A) in place by tightening the wing nut (B).

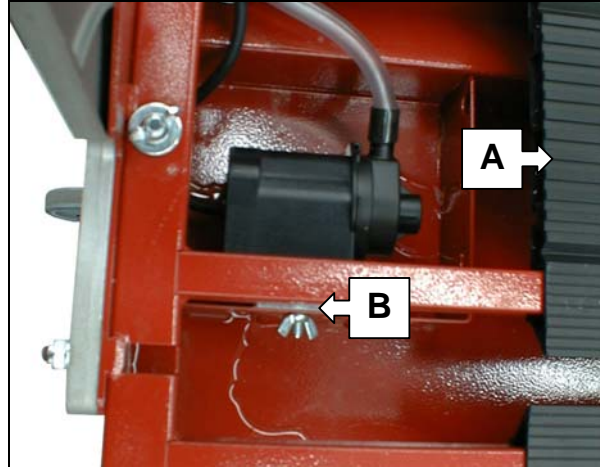


FIG. 15

Replacing the starter



BEFORE PERFORMING ANY OPERATION, MAKE SURE THAT THE MACHINE IS UNPLUGGED.

- Open the terminal block cover of the main electric motor.
- Disconnect the wire coming from the starter.
- Loosen the screws that secure the starter (A) to the machine and replace the starter.
- Tighten the screws which were previously loosened.
- Resume the connections to the motor.
- Close the terminal block cover, being careful not to pinch the cables and correctly position the rubber gasket.

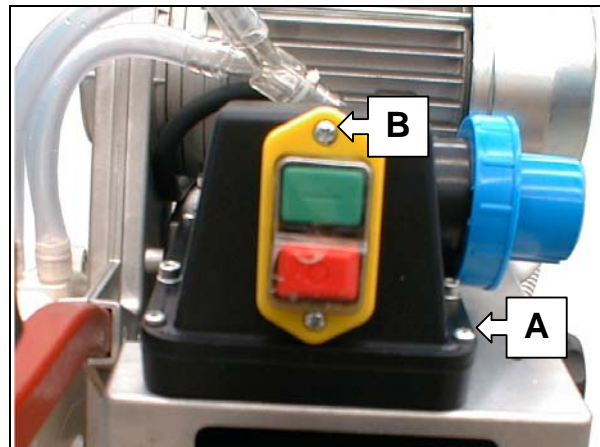


FIG. 16

Replacing the switch and/or thermal switch



BEFORE PERFORMING ANY OPERATION, MAKE SURE THAT THE MACHINE IS UNPLUGGED.

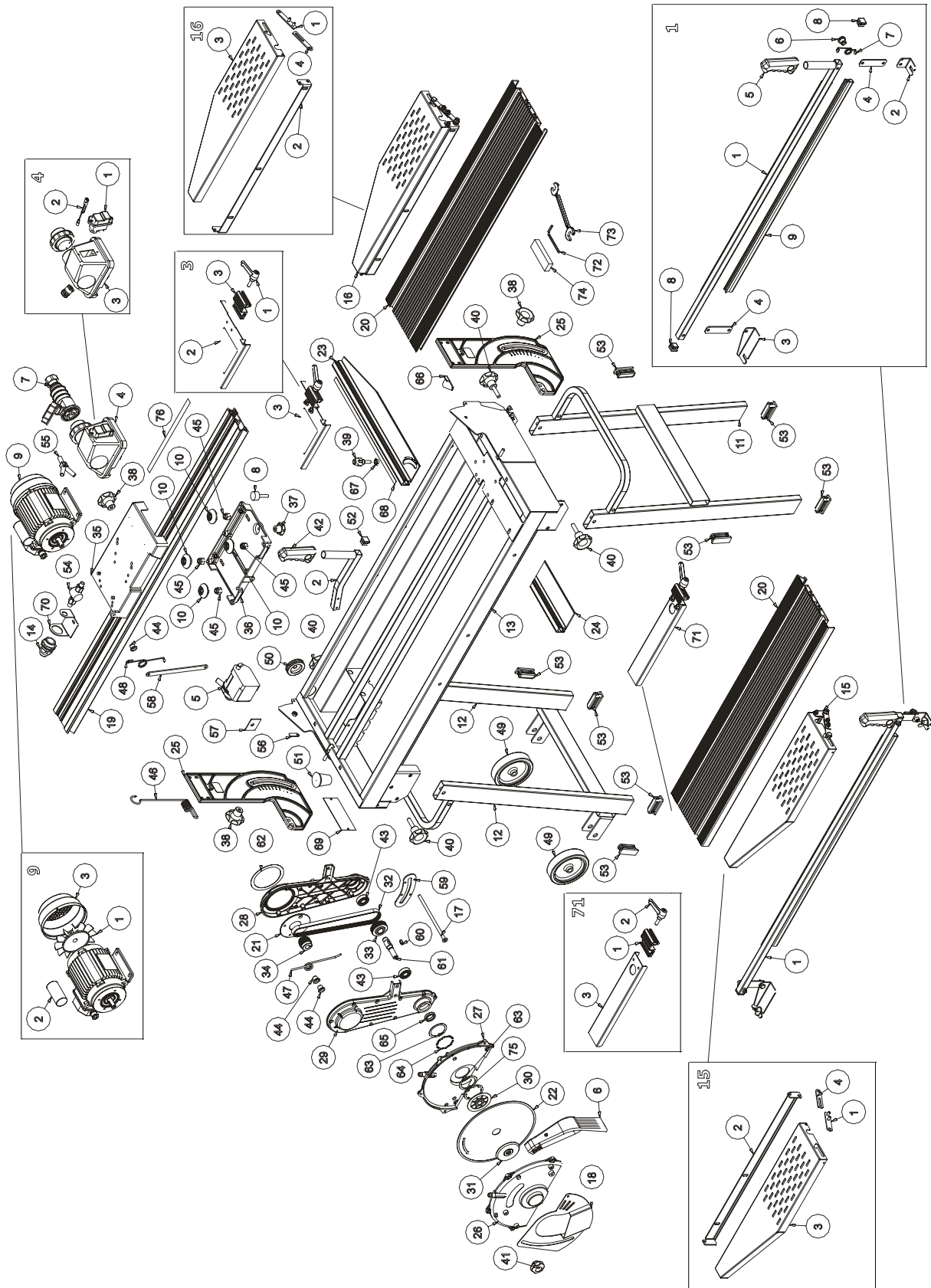
- Loosen the two screws (B).
- Remove the switch.
- Disconnect the cables.
- Replace the switch or thermal switch.
- Reconnect the cables.
- Tighten with the appropriate screws.

Disposal



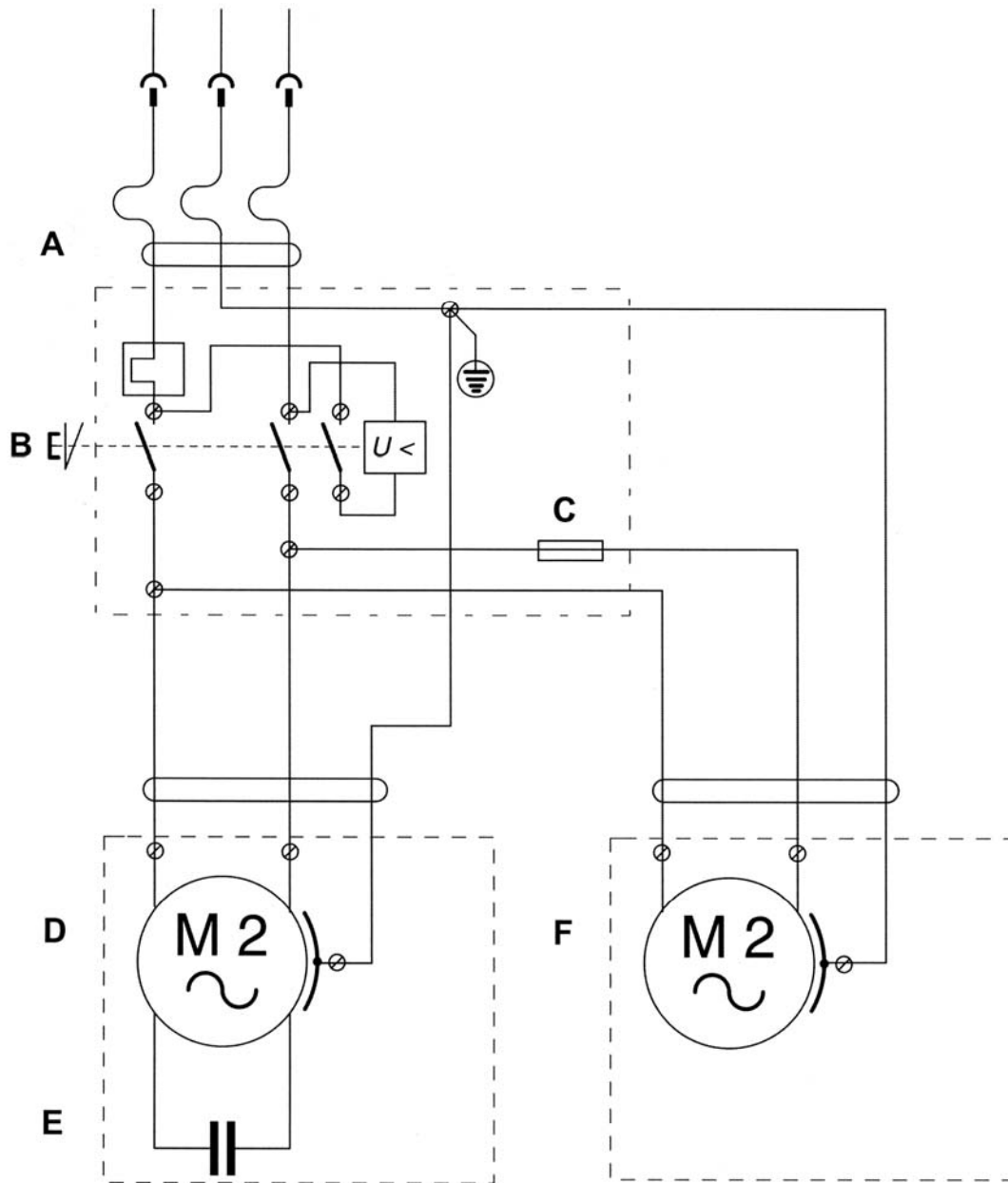
WHEN THE MACHINE, OR PARTS, ARE TO BE DEMOLISHED, FOLLOW THE INDICATIONS OUTLINED IN THE CURRENT LEGISLATION.

SWITCH HOLDER	ABS "ABS"
MACHINE BODY	STEEL "AC" ALUMINIUM "AL" POLYAMIDE "PA"
DISK GUARD SLIDE BAR COLUMN SQUARES HALF-PLATES	ALUMINIUM "AL"
MOTOR	COPPER "CU" ALUMINIUM "AL" STEEL "AC"



POS.	CODE	PART NAME
1	423BL75	TILE HOLDER DEVICE (PIKUS 75)
	423BL105	TILE HOLDER DEVICE (PIKUS 105)
1\1	423AST75	CLAMPING ROD (PIKUS 75)
	423AST105	CLAMPING ROD (PIKUS 105)
1\2	423PBLPS	TILE HOLDER DEVICE SUPPORT
1\3	423PBLPL	TILE HOLDER DEVICE SUPPORT
1\4	423MANSNO	CONNECTING ROD FOR ARTICULATION
1\5	306MA01D	HANDKNOB
1\6	310BS07D	BUSHING, O.D.19
1\7	314TO04D	TORS. SPRING F2.5
1\8	322QU01C	PLUG, 20X20
1\9	354CAT022	RUBBER STRIP LL570 (PIKUS 75)
		RUBBER STRIP LL870 (PIKUS 105)
2	154SE05D	MOTOR TRANSPORT HANDLE
3	192SQ01A	COMPLETE TRIANGULAR SQUARE
3\1	305MR06C	HANDLE
3\2	191TL03D	TRIANGULAR SQUARE
3\3	191PE01D	SQUARE HOLDER SLIDER
4	235ZS01A	STARTER 230V 50/60HZ
	235ZS02A	STARTER 110V 50/60HZ
4\1	234MD01C	MICRO CIRCUIT BREAKER 16A 230V 50/60HZ
	234MD02C	MICRO CIRCUIT BREAKER 16A 110V 50HZ
	234MD04C	MICRO CIRCUIT BREAKER 16A 110V 60HZ
4\2	234TR04C	THERMAL SWITCH, 211 15A 230V 50/60HZ
4\3	246PM03D	MICRO CIRCUIT BREAKER HOLDER, 2 PCS
5	240	IMM. PUMP 230V.50/60HZ
	240110	IMM. PUMP 110V.50/60HZ
6	263PE01A	SPRAY GUARD
7	264PV04C	MOBILE SOCKET
8	268MC01D	MOTOR BLOCK
9	297IN25D	INDUCTION MOTOR 1.1KW 230V 50/60HZ
	297IN26D	INDUCTION MOTOR 1.1KW 110V 50/60HZ
9\1	303VM06C	FAN
9\2	2872501C	CAPACITOR
9\3	3047101C	FAN COVER
10	309CS01A	SHEAVE WITH BEARINGS
11	311RB03D	LEG WITHOUT WHEEL HOLDER
12	311RB02D	LEG WITH WHEEL HOLDER
13	325VP10D	TANK FRAME (PIKUS 75)
	325VP15D	TANK FRAME (PIKUS 105)
14	320PG03C	SHEATH TERMINAL
15	156BS02A	LH FENCE
15\1	423LEVAA	LEVER (A)
15\2	423CERSX	LH HINGE
15\3	156RB02D	LH SWINGING GRID
15\4	423LEVAB	LEVER (B)
16	156BS02D	RH FENCE
16\1	423LEVAA	LEVER (A)
16\2	423CERDX	RH HINGE
16\3	156RB01D	RH SWINGING GRID
16\4	423LEVAB	LEVER (B)
17	423AS+RON	LOCKING PIN
18	263FE07D	MOBILE DISK GUARD
19	114RE09D	GUIDE (PIKUS 75)
	114RE10D	GUIDE (PIKUS 105)
20	156NL09D	AL. GRID (PIKUS 75)
	156NL10D	AL. GRID (PIKUS 105)
21	158GB02D	RING NUT, Ø75

POS.	CODE	PART NAME
22	179CC250Q	DIAMOND DISK, Ø250 F25.4 SMOOTH CROWN
23	191GE02D	GUIDE FOR SQUARE, LL450mm
24	191AE04D	SQUARE FOR SUPPORT, LL216mm
25	251RE05D	ALUMINIUM COLUMN
26	262PO02D	DISK COVER, COVER Ø200 Ø250
27	262CO05D	DISK COVER, DOOR Ø200/250
28	265LM01D	CASING ON MOTOR SIDE
29	265LD01D	CASING ON DISK SIDE
30	278PA01D	DISK HOLDER FLANGE
31	278PB01D	DISK FIXING FLANGE
32	286PV02C	POLY-V BELT
33	292VA06D	PULLEY, Ø48
34	292VA05D	PULLEY, Ø34
35	293PM02D	MOTOR SUPPORT
36	294PC03D	SHEAVE HOLDER
37	305PF06	FEM. KNOB, Ø40 8MA
38	305PF15C	FEM. KNOB, Ø60 8MA
39	305MR06C	HANDLE, 8MAX25
40	305PM35C	MALE KNOB, Ø60 10MAX40
41	305PF12C	FEM. KNOB, Ø40 6MA
42	306MA01D	HANDKNOB
43	3081503C	BEARING, 6202 ZZ
44	310BS12D	BUSHING, O.D.14
45	310BE01D	BUSHING, CH17
46	314AN02D	CABLE-CARRYING SPRING
47	314TO02D	TORS. SPRING, ØF3.8
48	314TO03D	TORS. SPRING, ØF2.5
49	315CB10C	WHEEL, Ø125
50	320PA02C	CORE HITCH Ø50
51	322CN03C	TAPERED PLUG
52	322QU01C	PLUG, 20X20
53	322RE04C	PLUG, 60X20
54	324RU01C	TAP
55	324DE01C	DEVIATOR
56	903TERRA	EARTH LABEL
57	218PPOMPA	PUMP HOLDER
58	423ASTRIN	DISK COVER TRANSMISSION ROD
59	423PASOLA	PLATE WITH SLOTS
60	900CH6X15	TAB, 6X6X15
61	423ALBPDS	DISK HOLDER SHAFT
62	900RORA10	SHIM, Ø105
63	900RORA56	SHIM, Ø56
64	900ANCO55	COMPENSATION RING, Ø54.8
65	423OR	SEAL, 22 X 32 X 7
66	423REGSQU	SQUARE ADJUSTER
67	420LETTOR	DEGREE INDICATOR/SQUARE
68	420MM	SCALED ADHESIVE LABEL FOR SQUARE
69	903PIKUS	NAMEPLATE
70	423PRUBIN	TAP SUPPORT PLATE
71	192SQ03A	COMPLETE FIXED SQUARE ASSEMBLY
71\1	191PE01D	SQUARE HOLDER, LL55mm
71\2	305MR06C	HANDLE
71\3	191SF05D	FIXED SQUARE
72	323BR03C	SETSCREW, SIZE 5
73	323CH12C	WRENCH, SIZE 22
74	288	WHITE SHARPENING STONE
75	158GB03D	SELF-LOCKING RING
76	374MM	SCALED ROD, LL520mm



	230 V ~ 50 Hz	230 V ~ 60 Hz	115 V ~ 50 Hz	115 V ~ 60 Hz
A	3G 1,5 H 07 RNF	3G 1,5 H 07 RNF	3G 2,5 H 07 RNF	3G 2,5 H 07 RNF
B	15 A	15 A	22 A	22 A
C	F 1 A	F 1 A	F 2 A	F 2 A
D	SINGLE-PHASE 230V ~ 50Hz 1,1kW 8,5A 2800 min ⁻¹ MOTOR CLASS F	SINGLE-PHASE 230V ~ 60Hz 1,1kW 8,5A 3360 min ⁻¹ MOTOR CLASS F	SINGLE-PHASE 115V ~ 50Hz 1kW 17A 2800 min ⁻¹ MOTOR CLASS F	SINGLE-PHASE 115V ~ 60Hz 1kW 17A 3360 min ⁻¹ MOTOR CLASS F
E	16 μF 400 VL	16 μF 230 VL	32 μF 115 VL	32 μF 115 VL
F	230 ~ 50 Hz 13 W 0,84 A 2800 n ⁻¹	230 ~ 60 Hz 13 W 0,84 A 3360 n ⁻¹	115 ~ 50 Hz 13 W 1,6 A 2800 n ⁻¹	115 ~ 60 Hz 13 W 0,84 A 3360 n ⁻¹

STAMP



Via dei Tipografi, 11

41100 MODENA (ITALY)



WARRANTY CERTIFICATE

B	GUARANTEE	MODEL:	SERIAL NUMBER:
		PIKUS	□□□□□□□□
BUYER / FINAL CUSOMERS _____			
ADDRESS _____			
STREET AND NO. _____			
ZIP CODE: □□□□□□□□			
CITY _____ COUNTRY _____			
TELEPHONE AND FAX NUMBER (Please do not write the international code):			
LOCAL CODE □□□□□□□□		TEL NUMBER □□□□□□□□	
LOCAL CODE □□□□□□□□		FAX NUMBER □□□□□□□□	
E-MAIL _____ WEB SITE:www. _____			
BUSINESS _____ <input type="checkbox"/> TILE LAYER / FIXER <input type="checkbox"/> BRICK LAYER <input type="checkbox"/> BUILDING COMPANY (Please cross as appropriate) <input type="checkbox"/> OTHER (Please specify) _____			
PURCHASING DATE		NAME, ADDRESS AND STAMP OF THE RETAILERS	
□□□□□□ 20□□		<div style="border: 1px solid black; width: 100%; height: 100%;"></div>	
<small>All data are put in Raimondi S.p.A. data base for marketing purposes. According to art.13 law 675/96, in every moment, it can be required the modification or delete of the data or denied the authorization to use them. Raimondi SpA - Via dei tipografi 11 - 41100 Modena (MO) - Italy</small>			
TO BE SENT TO THE MANUFACTURER, RAIMONDI S.p.A, FULLY FULFILLED WITHIN 10 DAYS FROM PURCHASING DATE			



A	GUARANTEE	MODEL:	SERIAL NUMBER:
	TO BE SHOWN TO THE TECHNICAL STAFF	PIKUS	□□□□□□□□
BUYER / FINAL CUSOMERS _____			
ADDRESS _____			
STREET AND NO. _____			
ZIP CODE: □□□□□□□□			
CITY _____ COUNTRY _____			
PURCHASING DATE □□□□□□ 20□□			
RETAILER: _____			
Guarantee clauses:			
<ol style="list-style-type: none"> 1) The product is under guarantee for a 12 months period starting from the purchasing date. 2) As purchasing date it is intended the one reported on the fiscal receipt given by the retailers on product's consignment. 3) Any kind of guarantee ceases if the B part of this certificate has not been fully fulfilled and subsequently sent to the manufacturer within 10 days from purchasing date. (The date reported on the post stamp will be utilised in order to verify the observance of this term). 4) As for substitution under guarantee it is intended the free reparation of the components that have been recognised manufacturing faulty. 5) If the substitution of faulty components is carried out by the retailer, this substitution is recognised free only after these components have been returned to manufacturer's premises in order to be checked out and declared faulty. The guarantee does not include the cost of labour. 6) The buyer / final customer is in charge of all delivery costs. 7) The guarantee does not include: the components that are subject to wear and tear; damages arising from carelessness, inaccurate use and installation; all those events that do not depend on the normal working of the product. 8) The guarantee ceases if the product has been tampered with or repaired by unauthorised people. 9) The substitution of the product or the extension of the guarantee is not allowed in any case, even after the product has been repaired by the manufacturer under guarantee. 10) Nobody is allowed to modify the guarantee terms or to issue other guarantees, either oral or written, without the written authorisation of the manufacturer. 11) The compensation of any kind of direct or indirect damage to persons or things arising from the use or the suspension of the use of the product is not covered by the guarantee. 			

Date of manufacture	□□/□□/□□
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Serial n°	□□□□□□□□
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