

FIG. 1

1 Carrying handle

2 Air conveyor

3 ON (I) – OFF (O) switch

4 Pressure switch

5 Safety valve (set to 10.5 bar)

6 Air tank

7 Power plug and cable

8 Feet

9 Outlet pressure regulator

10 Tank outlet gauge

11 Air outlet spigot

12 Air filter

13 Electric motor

14 Condensate pump

15 Pump/Tank connection pipes

16 Non-return valve

17 Tank pressure gauge

18 Fixed cooling fan protective net

19 Single-cylinder pumping assembly

2- TECHNICAL SPECIFICATIONS

Supply voltage/Frequency	V / Hz	110 - 230 / 50	110 - 230 / 60
Nominal power	kW	0,5	/
Max. operating pressure	bar	9	
Level of output noise levels A at the work stations (Leg. 2006/42/CE)	dB	72	/
Driveshaft rotation speed	rpm	2800	/
Tank volume	litri	5	
Performance (aspirations/yard)	l / min	110 / 60	/
Temperature/air humidity	°C / %	+5 ÷ +40 / 5 ÷ 95	
Total weight	kg	12,5	
Dimensions (lxwxh)	mm	191x414x392	

3- CE DECLARATION OF CONFORMITY

The Manufacturer declares that the compressors **B110/05**

Conform to the conditions as specified in the following Directives:
2006/42/CE, 2004/108/CE, 2006/95/CE, 97/23/CE (Art.3.3).

And additionally that the following norms have been incorporated
EN 60204-1:2006, EN ISO 12100-1-2:2003, EN 1012-1:1996, EN ISO 13857:2008, EN ISO 3744:2009.

Person authorised to compose
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01/01/2010
Gentilin Giampaolo
(Administrator)

4- CE LABEL

The CE marking certifies the compliance of the machine with the essential health and safety requirements established by the product Directives applied. It takes the form of a polyester sticker, with a black thermal transfer mould, which are applied on the motor frame (FIG. 2).

5- IMPORTANCE OF THE MANUAL

BEFORE USING THE APPLIANCE IN QUESTION, AUTHORISED USERS MUST READ AND UNDERSTAND THE PRESENT INSTRUCTION MANUAL IN ITS ENTIRETY.

The "Instruction Manual" was compiled according to the instructions as specified in **Machinery Directive 2006/42/CE**, in order to guarantee easy and correct understanding of subjects relevant to operators authorised to use and oversee maintenance of the appliance in question. Should operators find errors, please do not send incorrect personal interpretations/amendments that may threaten safety, rather, we advise you immediately request the Manufacturer send the correct explanations or further details. The "Instruction Manual" must be accessible by authorised operators at all times and must be always be kept in a safe place within close proximity of the appliance.

THE PRESENT INSTRUCTION MANUAL FORMS AN INTEGRAL PART OF THE APPLIANCE AND MUST BE KEPT FOR FUTURE REFERENCE AND UP UNTIL THE END OF APPLIANCE LIFE. IT MUST ALWAYS BE ACCESSIBLE TO AUTHORISED OPERATORS AND IT MUST BE SAFELY STORED AND KEPT WITHIN CLOSE PROXIMITY OF THE APPLIANCE ITSELF.

THE MANUFACTURER DECLINES ANY RESPONSIBILITY FOR DAMAGE TO PERSONS, ANIMALS AND OBJECTS CAUSED BY INOBSERVATION OF REGULATIONS AND WARNINGS DESCRIBED IN THE PRESENT INSTRUCTION MANUAL.

IN THE INSTANCE WHERE THE INSTRUCTION MANUAL IS LOST OR DAMAGED, REQUEST A COPY FROM THE MANUFACTURER OR THE AUTHORISED SUPPLIER, SPECIFYING THE APPLIANCE MODEL AND THE EDITION NUMBER PROVIDED WITHIN THE TITLE.

THE PRESENT INSTRUCTION MANUAL COMPLIES WITH TECHNICAL PROVISIONS AT THE TIME OF PURCHASE OF THE APPLIANCE AND CANNOT BE CONSIDERED INCORRECT IN THE INSTANCE WHERE NEW EXPERIMENTATION RESULTS IN UPDATES OF SUCH TECHNICAL PROVISIONS.

THE PRESENT INSTRUCTION MANUAL MUST BE PASSED OVER IN THE INSTANCE WHERE THE APPLIANCE IS HANDED OVER TO ANOTHER USER.

6- RECIPIENTS

This "Instruction Manual" is aimed exclusively at operators authorised to carry out operations according to specific technical skills necessitated for the operation type. The below described symbols appear at the beginning of paragraphs in order to indicate the identity of operators affected by the subject described.

AUTHORISED OPERATORS MUST ONLY CARRY OUT OPERATIONS FOR WHICH THEY ARE QUALIFIED.

BEFORE CARRYING OUT ANY OPERATIONS, AUTHORISED OPERATORS MUST POSSESS ADEQUATE PSYCHO-PHYSICAL CAPABILITIES IN ORDER TO ALWAYS ENSURE SAFETY.

ASSIGNED OPERATOR: an operator over the age of 18 (private user or employee) and, who, in compliance with current legislation on health and safety in the work place in force within the country of usage, is capable of exclusively activating, using and deactivating the appliance whilst completely complying with the instructions presently provided, whilst using the dedicated personal safety device items.

MECHANICAL/PNEUMATIC MAINTENANCE PERSON: a qualified technician, capable of carrying out exclusive interventions on mechanical/pneumatic parts in order to oversee the regulation, maintenance and/or repairs even with protective devices disabled in complete compliance with the instructions presently provided or with any other specific document supplied by the Manufacturer, whilst using the dedicated personal safety device items.

ELECTRICAL MAINTENANCE: a qualified technician, capable of carrying out exclusive interventions on electrical devices in order to oversee the regulation, maintenance and/or repairs even where an electric supply is present and even with protective devices disabled in complete compliance with the instructions presently provided or with any other specific document supplied by the Manufacturer, whilst using the dedicated personal safety device items.

PERSON IN CHARGE: A person who, depending on his professional skills and within the limits of the hierarchic and functional powers appropriate to the nature of the task he has been appointed to perform, supervises work activities and assures the Directives he receives are implemented, checking the correct performance of the workers and exercising a functional power of initiative.

MANUFACTURER'S TECHNICIAN: a qualified technician offered by the Manufacturer and/or Supplier authorised to provide required technical assistance, standard and extraordinary maintenance interventions and/or operations which are not presently included which necessitate specialist knowledge of the appliance, whilst using the dedicated personal safety device items.

7- STATUS "APPLIANCE OFF"

Before carrying out any type of maintenance and/or regulation operation on the appliance, you must:

1) Shut off the power supply ensuring that the "ON (I) - OFF (O)" switch is in the "OFF (O)" position (FIG. 1 - Ref. 3);

2) Unplug the power cable (FIG. 1 - Ref. 7) from the plug located near the appliance;

3) Empty the tank (FIG. 1 - Ref. 14) (no pressure).

8- WARRANTY

1) **WARRANTY DECLARATION:** the Manufacturer guarantees the Acquirer, the replacement, repair and intervention relative to all appliances, where the aforementioned display conformity defects which comprise correct usage and operation, only where such defects are owing to the fault of the Manufacturer. The Manufacturer reserves the right to adopt the best solution in order to restore appliance conformity within a reasonable amount of time.

2) **ACQUIRER:** the Acquirer is defined as a "consumer" where the purchase was made by a physical person and where the appliance is not to be used for commercial or professional purposes;
The Acquirer is defined as a "professional or company" where the purchase was made by a professional or company who aims to use the appliance for commercial or professional purposes.

3) **TERMS:** the Manufacturer is responsible where the defect of conformity is discovered within the following time frame from the purchase date:
24 months where the purchase was made by a "consumer" as described under point 2);
12 months where the purchase was made by a "professional or company" as described under point 2).

[cont.]

FIG. 2

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TIPO / MODELLO TYPE / MODEL	B110/05
ANNO / YEAR N° DI SERIE / SERIAL No.
S3	20 min ON / 10 min OFF - 66% ON
PRESSIONE MAX. ESERCIZIO MAX. WORKING PRESSURE	9 bar
TENSIONE TENSION V / Hz / A
VEL. ROTAZIONE ALBERO SHAFT ROTATION SPEED rpm
POTENZA NOM. RATED POWER kW
RESO WEIGHT	kg 12.5

FIG. 3

1




19- SAFETY DEVICES ADOPTED

- 20- SAFETY SIGNS**
- Safety signs used take the form of a sticky label, applied to the appliance exterior (FIG. 4).

20- SAFETY SIGNS

 REMOVING AND/OR DAMAGING THE SAFETY SIGN ATTACHED TO THE APPLIANCE IS STRICTLY FORBIDDEN.

21- PERSONAL PROTECTIVE EQUIPMENT (PPI)

- | SIGN | COMPULSORY PPE | TYPE OF WORK |
|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
|  | <ul style="list-style-type: none"> Hand protection
(heat-resistant gloves) | If maintenance work is required without waiting for the motor and the single-cylinder pump assembly to cool down. |
|  | <ul style="list-style-type: none"> Ear protectors
(ear muffs) | During all operational phases. |
|  | <ul style="list-style-type: none"> Feet protection
(shoes with reinforced toe caps) | During appliance transportation. |

22- RESIDUAL RISKS

RESIDUAL RISK	Danger of burns due to accidental contact with the single-cylinder pump assembly and the motor.
SEVERITY OF DAMAGE	Mild damage (normally reversible).
LIABILITY	Liability may be incorporated in the instance when the operator decides to voluntarily carry out an incorrect or forbidden action.
PROBABILITY	Small and accidental.
PHASE IN WHICH THE RISK IS PRESENT	Operation.
SUITABLE PROVISIONS	Safety signs (see Paragraph 20). Commitment to use personal protection equipment (PPI) (see Paragraph 21) and/or waiting for the appliance to cool.

23- AREAS ASSUMED BY AUTHORISED OPERATORS


The command devices are shown in **FIG. 5**.

1) Tank outlet gauge	4) Electrical supply cable	6) Tank pressure gauge
2) "ON (I) - OFF (O)" switch	5) Outlet pressure regulator	7) Air outlet spigot
3) Pressure switch		


25- PRE-START-UP CHECKS

- 26- ACCENSIONE DELLA MACCHINA**


DANGER OF BURNS UPON ACCIDENTAL CONTACT WITH SINGLE-CYLINDER PUMPING ASSEMBLY AND ELECTRICAL MOTOR. **WARNING – RESIDUAL RISK** (SEE PARAGRAPH 22).


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THE MANUFACTURER DECLINES ANY RESPONSIBILITY FOR THE OUTCOME FOLLOWING USAGE AS THIS IS DEPENDENT ON THE UTENSIL USED AND THE PROFESSIONAL SKILLS OF THE AUTHORISED OPERATORS.

 THE AUTHORISED OPERATORS MAY ONLY START UP THE APPLIANCE ONLY AFTER HAVING CARRIED OUT THE COMPLUSARY CHECKS DESCRIBED IN PARAGRAPH 25.


DURING OPERATION, PLEASE ENSURE THAT UNAUTHORISED PERSONS DO NOT COME WITHIN PROXIMITY OF THE APPLIANCE.

 **AUTHORISED OPERATORS MUST NOT LEAVE THE APPLIANCE UNSUPERVISED WHILST IN OPERATION OR DURING MAINTENANCE INTERVENTIONS.**

 **1)** Connect the appliance to the power supply by plugging it in **(FIG. 5 - Ref. 4)**;


2) Switch on the appliance using the “ON (I) - OFF (O)” switch **(FIG. 5 - Ref. 2)** ensuring it is in the “ON (I)” position (the appliance is operational until it reaches a maximum operating pressure of 9 bar, after which, it switches off automatically);


3) Regulate the outlet pressure using the relevant regulator **(FIG. 5 - Ref. 5)**, according to the utensil used and type of work. Control the pressure displayed by the relevant gauge **(FIG. 5 - Ref. 6)**;

 **DO NOT FULLY SCREW THE OULET PRESSURE GAUGE (FIG. 5 - REF. 5) OR YOU RISK DAMAGING THE MEMBRANE.**

4) Connect the utensil to the air pipe (extension);

5) Connect the air pipe (extension) to the air outlet spigot **(FIG. 5 - Ref. 7)**;

 **AIR PIPES (EXTENSIONS), CONNECTIONS AND UTENSILS WHICH CONFORM TO DETAILS AS SPECIFIED IN THE INSTRUCTION MANUALS PROVIDED BY THE RELEVANT MANUFACTURERS MUST BE USED.**

 **IT IS STRICTLY FORBIDDEN TO USE UNSUITABLE AIR HOSES (EXTENSIONS), FITTINGS AND TOOLS THAT DO NOT COMPLY WITH CURRENT REGULATIONS.**

6) Carry out operations (the appliance will re-start automatically in the instance where the operating pressure falls below 7 bar);

7) Upon termination of operations, switch off the appliance as described in **Paragraph 27**.

26- ACCENSIONE DELLA MACCHINA

 AUTHORISED OPERATORS MUST NOT LEAVE THE APPLIANCE UNSUPERVISED WHILST IN OPERATION OR DURING MAINTENANCE INTERVENTIONS.

- DO NOT FULLY SCREW THE OULET PRESSURE GAUGE (FIG 5. - REF. 5) OR YOU RISK DAMAGING THE MEMEBRANE.

- ! AIR PIPES (EXTENSIONS), CONNECTIONS AND UTENSILS WHICH CONFORM TO DETAILS AS SPECIFIED IN THE INSTRUCTION MANUALS PROVIDED BY THE RELEVANT MANUFACTURERS MUST BE USED.**

- FIG. 4

FIG. 4

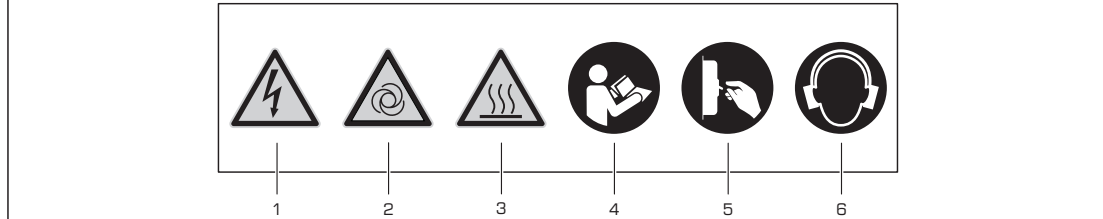


FIG. 5

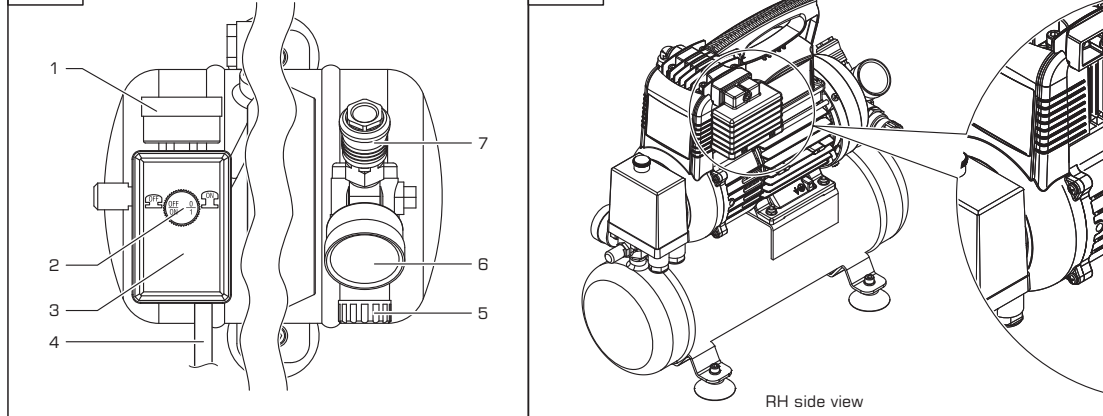
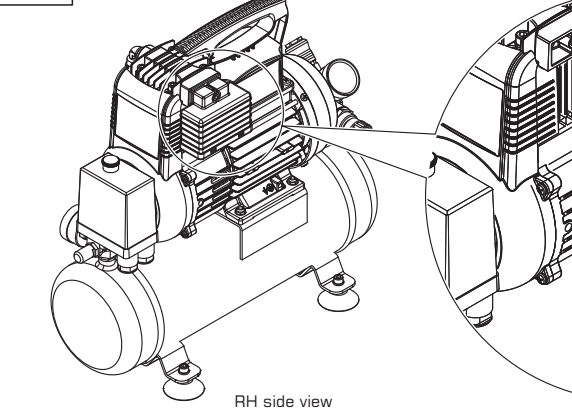


FIG. 6






27- APPLIANCE DEACTIVATION

28- MOTOR PROTECTOR

29- EMERGENCY STOP



- 1) IMMEDIATELY BRING THE "ON (I) -OFF (O)" SWITCH TO THE "OFF (O)" POSITION (FIG. 5 - Ref. 2)
2) IMMEDIATELY NOTIFY THE "SAFETY MANAGER" (WHERE THE APPLIANCE IS USED IN A BUSINESS CONTEXT) OF THE EMERGENCY.

30- START-UP SUBSEQUENT TO AN EMERGENCY STOP

- 31- STANDARD MAINTENANCE**
-    All activities carried out to ensure use and operation of the appliance, via various intervention types (regulation, valve

31- STANDARD MAINTENANCE

- ! AUTHORISED OPERATORS MUST ONLY CARRY OUT OPERATIONS FOR WHICH THEY ARE QUALIFIED (SEE PARAGRAPH 6) AND WITH THE CONSENT OF THE SAFETY MANAGER (WHERE THE APPLIANCE IS USED IN A BUSINESS CONTEXT).**

STANDARD MAINTENANCE TABLE		
FREQUENCY	INTERVENTION AREA	INTERVENTION TYPE
 ONCE A DAY	Safety devices	Ensure they are intact, correctly installed and functioning.
	Electrical cable and plug	Visual check of usage status.
	Tank	Upon termination of each work cycle, rest the appliance on the ground and drain the tank condensate pump opening the condensate pump (FIG. 1 - Ref. 14) .
 EVERY WEEK	1 air filter	1) Remove the screw (FIG. 6 - Ref. 2) ; 2) Remove the cover (FIG. 6 - Ref. 1) ; 3) Extract the filter (FIG. 6 - Ref. 3) and clean it using compressed air; 4) After putting back the filters, remount the cover. NOTE: REPLACE IN THE INSTANCE WHERE IT IS WORN.

32- EXTRAORDINARY MAINTENANCE

- ! IN THE INSTANCE OF EXTRAORDINARY MAINTENANCE, TECHNICAL ASSISTANCE PROVIDED BY THE MANUFACTURER OR THE AUTHORISED SUPPLIER MUST BE REQUESTED.**

33- DEMOLITION

- WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT (WEEE) MUST BE DISPOSED OF IN TOTAL COMPLIANCE WITH THE REGULATIONS IN FORCE IN THE COUNTRY OF DEMOLITION OF THE APPLIANCE.

34- REPLACEMENT PARTS

- USING UNORIGINAL REPLACEMENT PARTS IS FORBIDDEN.

35- ANOMALIES - CAUSES - SOLUTIONS

- ! AUTHORISED OPERATORS MUST ONLY PERFORM THE OPERATIONS THEY HAVE BEEN SPECIFICALLY TRAINED FOR (SEE PARA 6) AND WITH THE PERMISSION OF THE PERSON IN CHARGE (IF THE MACHINE IS USED WITHIN A COMPANY).**


ABNORMALITIES	CAUSE	SOLUTION
The appliance will not start or it stops and will not re-start.	Mancanza di alimentazione elettrica.	1) Check that the "ON (I) -OFF (O)"switch is in the "ON (I)" position (FIG. 5 - Ref. 2) ; 2) Check that the electrical plug (FIG. 5 - Ref. 4) is functioning correctly and is correctly plugged in; 3) Check that any extensions used and the plug are functioning correctly. 4) Check that the electrical main switch is functioning and in the "ON (I)" position.
	Motor protector trips due to overcurrent and/or short circuit.	Wait for the motor to cool down and automatic reset (see para 28) .
The appliance restarts numerous times even without a utensil.	Leakages from the air pipe, utensil or pneumatic system.	1) Check that the pneumatic system is not damaged; 2) Check that the air pipe and utensils are intact as well as the connections.
The utensil does not emit air.	The tank is not pressurised.	Switch on the appliance and wait until the tank fills checking the pressure of the relevant gauge.
	Incorrect regulation of the outlet pressure.	Check that the value displayed on the outlet pressure gauge (FIG. 5 - Ref. 6) is greater than 0 (zero) bar.
	The utensil is damaged.	Check that the utensil is intact and effective.
Fall of pressure in the air tank.	Leakages in the air pipe, utensil or the pneumatic system.	1) Check that the pneumatic system is not damaged; 2) Check that the air pipe and utensil are not damaged; 3) Check that the appliance-air pipe and air pipe-utensil connections are correct; 4) Check that the condensate pump (FIG. 1 - Ref. 14) is securely closed.
Safety valve intervention.	Pressure switch fault.	 Contact an authorised Supplier.
Air loss from the pressure switch when appliance is off.	Unclean or worn return valve.	
The appliance vibrates and/or emits lots of noise.	Mechanical fault.	
Frequent start-ups and low performance.	Air filter dirty	Clean the filter (see para 31) .

FIG. 7

