

Instruction Manual Clinic 3.40 Compressors

CLINIC 3.40 CLINIC DRY 3.40 H CLINIC DRY 3.40 HS





Instruction Manual - Clinic 3.40 Compressors



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INTRODUCTION

Dear Customer, first of all, we wish to thank you for the confidence you gave us by purchasing your new "COMPRESSOR".

We are sure that your expectations will be met, given the level of technology achieved by our products with a continued commitment on a daily basis, which encourages us to grow, to know how to deal with the constant changes in technology expertise, manufacturing and sales.

We feel sure we can meet your future requirements, therefore, feel free to contact us. We will be happy to offer you all our experience and knowledge to answer any question you may have.

INFORMATION TO THE CUSTOMER			
DOCUMENT PAGE TO DO			
STATEMENT OF DELIVERY OF THE INSTRUCTION MANUAL	5	The authorised operators must complete and sign to confirm the delivery and reading of the instruction manual.	
TESTING AND COMMISSIONING CERTIFICATE	6	Give to the test technician of the Manufacturer or to the Authorized Dealer a copy of page 6 completed in all its parts.	
PRODUCT REGISTRATION FOR WARRANTY VALIDATION	14	See paragraph "WARRANTY" - Section 2) Page 14.	

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STATEMENTS AND TESTING

STATEMENT OF DELIVERY OF THE INSTRUCTION MANUAL

The employer, to the extent required by applicable law on safety and health of workers at work, hereby declares it has delivered to the authorized operators this manual for the correct information and training on use and maintenance of the machine.

AUTHORIZED OPERATORS	DATE	SIGNATURE FOR RECEIPT
Mr		
Mr		
Mr		
m:		
Mr		

Before filling in the table, photocopy it for future reference.

Instruction Manual - Clinic 3.40 Compressors



TESTING AND COMMISSIONING CERTIFICATE	DATE		
Designation: compressor	Name:		
Model:	Street:		
Serial No:	City:		
Manufacture year:	State:		
This is to certify that the machine in question was tes facturer or authorized dealer: Mr	•		
At the presence of the entrusted operator: Mr At the presence of the entrusted operator and Safety Representative:			
Mr			
Check for proper installation of the machine.			
☐ Verification of the correct setting of all the working parameters.			
☐ Verification of correct operation and intervention of all the safety devices.			
☐ Commissioning and performance of a work cycle.			
Possible optimization of the working parameters.			
☐ Machine stop.			
☐ Delivery of the instruction manual.			
SIGNATURE Test Technician of the Manufacturer or Authorized Dealer	Safety Representative		



EC DECLARATION OF CONFORMITY

Gentilin S.r.l. - Via delle Tezze, 20/22 36070 Trissino (VI) - Italy VAT N.: 01262520248

Declares that the following machine:

CLINIC 3.40 - CLINIC DRY 3.40 H - CLINIC DRY 3.40 HS

Machine: Air volumetric compressor
Serial Number:

Complies with the following directives:

2006/42/EC Directive of the European Parliament and the Council of 17 May 2006 on machinery and amending Directive 95/16/EC (recast).

2014/30/UE Directive of the European Parliament and of the Council of 26 February 2014, replacing 2004/108/EC Directive of the European Parliament and of the Council of 15 December 2004, on the approximation of the laws of the Member States relating to electromagnetic compatibility and repealing Directive 89/336/EEC.

2014/35/UE Directive of the European Parliament and of the Council of 26 February 2014, replacing Directive 2006/95/EC of the European Parlament and Council, of December 12, 2006.

Person authorized to prepare the Technical Dossier: **Gentilin Giuseppe**, in quality of Technical Manager

Place: Via delle Tezze, 20/22 - 36070 Trissino (VI) ITALY

Date: _____

Legal Representative (**Gentilin Giampaolo**) Signature: Stamp:

Gentilin



GENTILIN SRL

Via delle Tezze 20-22 36070 Trissino (VI) Italy phone +39 0445 96 2000 info@gentilinair.com

STATEMENT AND CE MARK

MARKING AND TECHNICAL DATA

The CE marking (Fig. 1) of the machine indicates compliance with the essential occupational health and safety rules set forth by the European Directives listed in the Declaration of CE Conformity.

The label is black and white printed on adhesive polymeric PVC and has the following dimensions: L = 70 mm - H = 55 mm.

It is applied externally on one side of the machine indicated in Fig. 1 and states the following data, in a legible manner:

MODEL / MODELLO

SERIAL N. / NUM. DI SERIE

CLASS OF SERVICE CLASSE DI SERVIZIO MAX WORKING PRESSURE/

PRESS. MAX ESERCIZIO

SHAFT POTATION SPEED

VELOCITA' DI ROTAZ. REATED POWER /

POTENZA NOMINALE. WEIGHT / PESO

TENSION / TENSIONE

... Bar

..... rpm

..... kg

..... kw

.....V/.....Hz/.....A

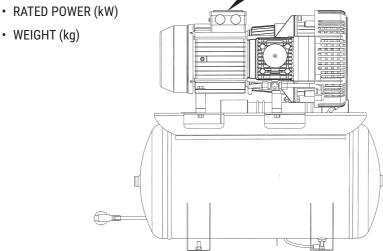
LOGO, NAME AND ADDRESS OF MANUFACTURER



 DESIGNATION OF THE MACHINE (type / model)

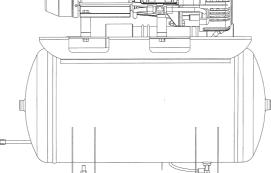
- YEAR OF MANUFACTURE
- SERIAL NUMBER
- S1 VALUE
- MAX. WORKING PRESSURE (bar)
- VOLTAGE (V / Hz / A)

SHAFT ROTATION SPEED (rpm)



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Fig. 1





GENERAL

IMPORTANCE OF THE MANUAL



Before using the machine in question, the authorized operators are obliged to read and thoroughly understand this manual in all its parts.

This instruction manual has been prepared in accordance with the directions provided by the European Directives in order to ensure an easy and correct understanding of the topics covered by the authorized operators operating and maintaining the machine in guestion. If, despite the attention being paid by the manufacturer while drafting this document, such operators should not fully understand this text while reading, they are requested to ask the manufacturer for the correct explanations and information in order to avoid incorrect personal interpretations that may jeopardize safety.

Before using the involved machine, the authorized operators are obliged to read and understand all parts of this manual and adhere strictly to the rules herein described in order to assure their own and others' safety, the best performance of the machine and ensure the maximum efficiency and durability of all its components.

This manual shall be available at any time for the authorized operators and shall be well protected and preserved, always close to the machine.



This manual should always be available for authorized operators and located in the vicinity of the machine well protected and preserved.

This manual must compulsorily be delivered together with the machine when it is transferred to another user.

The manufacturer disclaims all liability for injury to persons, animals and/or property caused by ignoring the rules and warnings described in this manual.

This manual reflects the state of the art of technique at the time of the machine marketing and cannot be considered improper just because, according to new experience, it may be updated later on.

In case of loss or damage of the manual request a copy to the manufacturer, specifving the identification data of the document; code, issuance and review.



CONSULTATION NOTES

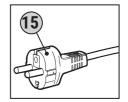
SIMBOL	MEANING
	Signal of generic danger: It highlights risks to health and safety of operators and/or risk of damage or malfunction of the machine.
	Signal of generic obligation: It indicates a requirement (obligation to take action).
Θ	Generic prohibition sign: It highlights the prohibition to perform an action.
	Danger Sign EX: It highlights the risk due to explosion.

STATE "MACHINE OFF"

by opening the drain valve (12).



Before performing any type of maintenance and/or setting on the machine, disconnect the power supply ensuring that the switch (18) is in position "OFF (0)", the plug of the power cable (15) is unplugged and placed near the machine and the tank has been drained from residual compressed air



CLINIC 3.40 CLINIC DRY 3.40 H

CLINIC DRY 3.40 H

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AUTHORIZED OPERATORS



THE OPERATORS ARE AUTHORIZED TO MAKE ON THE MACHINE ONLY SPECIFIC ACTIONS OF THEIR COMPETENCE.

THE AUTHORIZED OPERATORS, BEFORE PERFORMING ANY WORK ON THE MACHINE MUST BE SURE TO BE IN POSSESSION OF FULL PSYCHO-PHYSICAL CAPACITIES, SUCH AS TO ENSURE COMPLIANCE WITH THE SAFETY CONDITIONS.

This technical manual is intended exclusively for Authorized Operators to the use and maintenance of machines according to specific technical and professional skills required for the type of intervention. The symbols below are arranged at the beginning of a chapter and/or paragraph, to indicate which is the operator concerned with the subject matter.

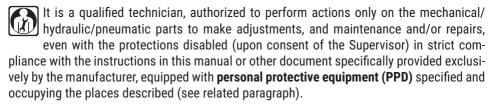
OPERATOR IN CHARGE

It is a professionally trained operator, authorized to perform only the ignition, use, setup, tuning (with the mandatory protection enabled and the machine turned off) and the turning off of the machine and in total respect of the instructions in this manual, equipped with **personal protective equipment (PPD)** specified and occupying the places (see related paragraph).

OPERATOR IN CHARGE FOR HANDLING

It is a professionally trained operator, who has completed 18 years of age, in accordance with the law in the country of use, enabled to the conduct of forklifts, cranes or bridges wagons, to make safe transport, handling and unpacking the machine and/or parts of it, with the **personal protective equipment (PPD)** specified and occupying the places described (see related paragraph).

MECHANICAL/HYDRAULIC/PNEUMATIC MAINTENANCE TECHNICIAN



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ELECTRICAL MAINTENANCE TECHNICIAN

It is a qualified technician (an electrician in possession of technical and professional qualifications required by the regulations), authorized to perform only work on electrical equipment to make adjustments, and maintenance and/or repairs, even in the presence of voltage and with the protections disabled (upon consent of the Supervisor), equipped with personal protection devices (PPD) envisioned and occupying the positions described (see related paragraph).

SAFETY REPRESENTATIVE



It is a qualified engineer appointed by the customer in possession of technical and professional qualifications required by the regulations on safety and health of workers in the workplace.

MANUFACTURER'S TECHNICIAN

It is a qualified technician made available by the manufacturer and/or authorized dealer to perform the required technical assistance, routine work and extraordinary maintenance and/or operations not mentioned in this manual that require specific knowledge of the machine, equipped with **personal protective equipment (PPD)** specified (see related paragraph).



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ABBREVIATIONS

Lists some abbreviations used in this book.

- · cca. = About
- · cap. = Chapter
- · PPE = Personal protective equipment
- R = Right
- h = Hours
- EN = European Norm
- Es. = Example
- Fig. = Figure
- max. = Maximum
- · min. = Minimum
- · min = Minutes
- N. = Number
- page = Page
- par. = Paragraph
- Pos. = Position
- Rif = Reference
- sec. = Seconds
- L = Left
- TAB. = Table
- see = SEE

ALL RIGHTS RESERVED

The reserved rights related to this instruction manual are in possession of the manufacturer. All information (text, drawings, diagrams, etc.) given here is confidential.

No part of this manual may be reproduced and distributed (in whole or in part) by any means of reproduction (photocopy, microfilm or otherwise) without the written consent of the Manufacturer.

All trademarks are property of their respective owners.

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GUARANTEE

- 1) GUARANTEE DECLARATION: the Manufacturer gives an undertaking to the End-User to replace, repair or otherwise intervene in the machine, if it has conformity defects that compromise its correct use and operation, but only if such defects are attributable to the actual liability of the Manufacturer. The Manufacturer reserves the right to adopt the optimal solution to restore the conformity of the machine within a reasonable period of time. The guarantee does not cover parts of the Products subject to normal wear and tear and/or deterioration or defects resulting from inappropriate transport.
- 2) END-USER: the End-User is the person who buys the machine to use it directly. The End-User who buys the machine as a natural person for purposes that do not fall within the scope of commercial or professional activity is defined as a "consumer". The End-User is defined as a "professional or company" when the purchase is made by a professional or by a company acting for purposes which fall within the scope of its commercial or professional activity.
- 3) **TERMINALS:** the Manufacturer is liable to the End-User when the lack of conformity occurs within the following terms from the date of purchase:
 - **24 months** if the purchase was made by a 'consumer' as described in point 2).
 - **12 months** if the purchase was made by a "professional or company" as described in point 2). All End-Users have the right to extend the guarantee (Extended Guarantee) for up to three years from the date of purchase of the machine if they: (a) have registered their purchase on the website www.gentilinair.com within seven days of purchase and (b) have completed the registration form completely and accurately, filling in the required fields with exact, complete and true information and have kept the registration code to be mentioned in the event of problems. Replaced parts or products will remain under guarantee until the original product quarantee expires.
- 4) VALIDITY: the guarantee is valid if the End-User notifies the Manufacturer of the conformity defect within 2 months from the date on which he has discovered it, but within the final term indicated in point 3) above. The above report must be accompanied by a regular purchase document (tax receipt or invoice). In the case of an Extended Guarantee, the declaration must also indicate the registration code.
- 5) FORFEIT: the guarantee will be void if the purchaser uses the machine improperly and/or not in accordance with the provisions of this "Instruction Manual" provided by the Manufacturer, or if the lack of conformity was caused by inexperience on the part of the purchaser or by chance. The use of the products after the discovery of defects releases the Manufacturer from any guarantee commitment or liability.
- 6) LIABILITY: the Manufacturer is released from any liability resulting from any damage sustained by the purchaser, resulting from loss or diminution of production which derives from any lack of conformity.
- 7) COSTS: the End-User has the right to the restoration of the conformity of the machine under guarantee without any costs for labour or materials. The shipping methods must be agreed with the authorised dealer or with the Manufacturer. In the event that the non-conformity is only apparent or the complaint arrives after the deadline, the Manufacturer may charge the cost of both transport and any repair that is indicated by the authorised dealer or the Manufacturer.



TECHNICAL DESCRIPTION

NAME OF MODELS

The machine is offered in 3 models. **Tab. 1** shows the model names and specifications that distinguish them.

MODEL	DESCRIPTION
CLINIC 3.40	Oil-free air compressor with 40 litres tank without dryer.
CLINIC DRY 3.40 H	Oil free air compressor with 40 litres tank with membrane dryer.
CLINIC DRY 3.40 HS	Oil-free air compressor with 40 litres tank with membrane dryer and sterile filter

Tab. 1



NAMES OF PARTS

In Fig. 1 are represented the major components that make up the machine.

KEY

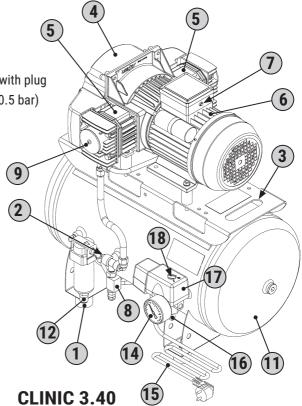
- 1) Support feet
- 2) Non-return valve
- 3) Handle
- 4) Cooling fan protection hood
- 5) Two-cylinder pumping unit
- 6) Electric motor
- 7) Restorable circuit breaker
- 8) Electrovalve
- 9) Air intake filter
- 10) Membrane dryer
- 11) Air tank
- 12) Condensate drain valve
- 13) Sterilization filter housing
- 14) Tank pressure manometer

15) Electric power supply cable with plug

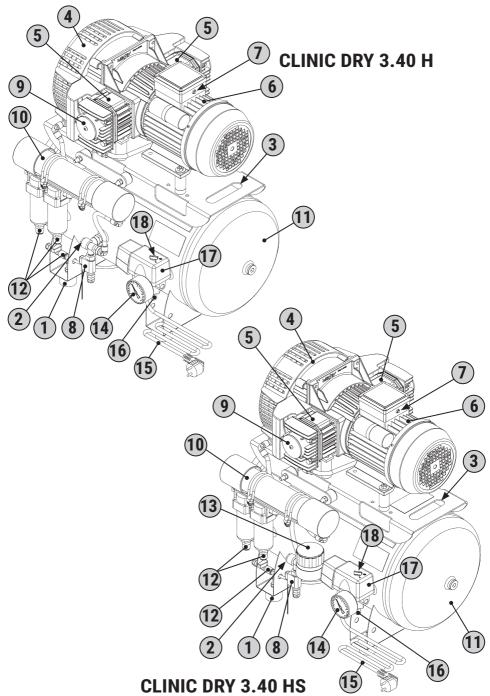
16) Safety valve (calibrated at 10.5 bar)

17) Pressure switch

18) "ON (I) - OFF (0) switch"



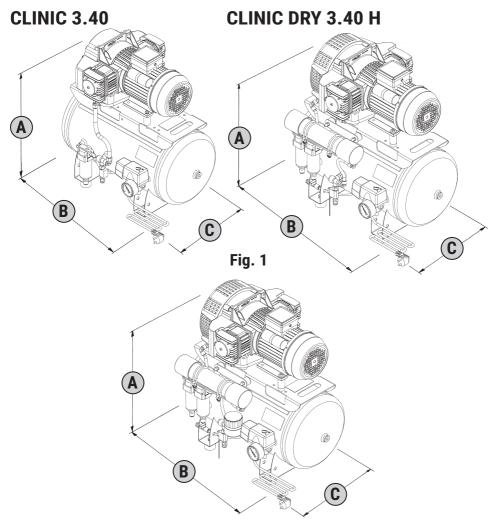






DIMENSIONS OF THE MACHINE

Tab.1 gives the clearance of the machine represented in Fig.1.



CLINIC DRY 3.40 HS

MODELS	Α	В	С
CLINIC 3.40	653 mm	652 mm	455 mm
CLINIC DRY 3.40 H	662 mm	652 mm	455 mm
CLINIC DRY 3.40 HS	662 mm	652 mm	455 mm

Tab. 1



TECHNICAL DATA

MACHINE DATA

Tab. 2 shows the technical data which characterize the machine.

CLINIC 3.40				
Power supply	230V/50 Hz	230V/60 Hz	110V/60 Hz	
Electrical Absorption	8 amper	11 amper	22 amper	
Units served	2	2	2	
Air delivered (5 bar)	150	170	170	
Intake air (lt/min)	240	240	240	
Tank capacity (It)	40	40	40	
Motor power (Watt)	1800	2000	2000	
Noise (db(A))	67	67	67	
Weight (Kg)	39	40	41	
Ambient temperature (°C)	0-40	0-40	0-40	
Service class	100%	100%	100%	
Motor rotation direction	The compressor can be used in both directions of rotation			

CLINIC 3.40 H - CLINIC 3.40 HS				
Power supply	230V/50 Hz	230V/60 Hz	110V/60 Hz	
Electrical Absorption	8 amper	11 amper	22 amper	
Units served	2	2	2	
Air delivered (5 bar)	130	145	145	
Intake air (lt/min)	240	240	240	
Tank capacity (It)	40	40	40	
Motor power (Watt)	1800	2000	2000	
Noise (db(A))	67	67	67	
Weight (Kg)	42	42	43	
Ambient temperature (°C)	0-40	0-40	0-40	
Service class	100%	100%	100%	
Motor rotation direction	The compressor can be used in both directions of rotation			

Tab. 2



INTENDED USE OF THE MACHINE

The machine was designed and built for the use described in Tab. 1.

FIELD OF USE	Dentistry, laboratories or dental cabinets.
PLACE OF USE	Places indoors with sufficient lighting, ventilation, air environment having the characteristics referred to under par. "MACHINE DATA" and "PRODUCT USED FOR OPERATION" appropriate to the laws in force in the country of use for safety and health in the workplace. The machine must be placed on a plan that ensures stability in relation to the overall dimensions and weight, respecting the minimum position shown in par. "POSITIONING OF THE MACHINE". WARNING! YOU MUST KEEP THE MACHINE OUT OF REACH OF UNAUTHORIZED PERSONS.
INTENDED USE	Compressed air production to operate dental tools.
OPERATORS IN CHARGE FOR USE	An authorized operator with the technical and professional capacities meeting the requirements.

Tab. 1

SOURCE OF ENERGY SUPPLY

Tab. 2 describes the source of energy supply of the machine.

ENERGY SOURCE	POWER SUPPLY	
ELECTRIC	Connection via plug on electrical switchboard. (See Technical Data)	

Tab. 2

PRODUCTS USED FOR THE OPERATION

Tab. 3 shows the product used for the operation.

PRODUCTS USED FOR THE OPERATION	
Ambient air "clean" (good quality) free of pollutants harmful to health	
Intake air filters (paper)	
Dryer /filters	

Tab. 3



PHASES OF OPERATION

In **Tab. 4** are listed the steps of operation of the machine (please see the relative paragraphs).

PHASE	OPERATION	
1	Turning on the machine.	
2	Adjusting the outlet pressure.	
3	If requested reset the resettable thermal.	
4	Turning off the machine.	

Tab. 4

REASONABLY FORESEEABLE MISUSE

The machine was designed and built for use provided, therefore it is absolutely prohibited any other type of application and use, in order to ensure at all times the safety of the Authorized operators and the efficiency of the machine itself.



RISK OF BURNS DUE TO ACCIDENTAL CONTACT WITH THE PUMPING GROUP AND ELECTRIC MOTOR AND PUMP UNIT. WARNING THERE IS A RESIDUAL RISK.



IT IS COMPULSORY TO INSTALL THE MACHINE IN A PLACE OF USE HAVING THE CHARACTERISTICS INDICATED ON PAR. "INTENDED USE OF THE MACHINE".

IT IS COMPULSORY TO USE THE MACHINE IN THE RESPECT OF THE LEGISLATION IN FORCE IN THE COUNTRY OF USE CONCERNING INTRODUCTIONS (NOISE).

IT IS COMPULSORY TO KEEP THE MACHINE OUT OF REACH OF UNAUTHORIZED PERSONS.



IT IS STRICTLY PROHIBITED THE USE OF THE MACHINE FOR MISUSE AND DIFFERENT USES FROM THE ONE INTENDED BY THE MANUFACTURER.

IT IS ABSOLUTELY FORBIDDEN TO USE THE MACHINE OUTDOORS.

IT IS STRICTLY PROHIBITED THE USE OF AIR TUBES (EXTENSIONS), FITTINGS AND NOT SUITABLE TOOLS AND/OR NOT CONFORM TO THE STANDARDS IN FORCE. IT IS ABSOLUTELY FORBIDDEN TO LIFT THE MACHINE WITH CRANE AND/OR FORKLIFT.

IT IS ABSOLUTELY FORBIDDEN TO LEAD AIR JETS AGAINST PERSONS AND/OR ANIMALS.

DO NOT CLIMB ONTO THE MACHINE.





IT IS STRICTLY PROHIBITED TO COMMISSION THE MACHINE IN ENVI-RONMENTS WITH POTENTIALLY EXPLOSIVE ATMOSPHERE AND/OR IN THE PRESENCE OF COMBUSTIBLE DUSTS (E.G.: WOOD POWDER, FLOUR, SU-**GARS AND GRAINS).**

IT IS ABSOLUTELY FORBIDDEN TO USE THE MACHINE IN AREAS CONTAINING SO-LID OR ABRASIVE PARTICLES.

TRANSPORTATION AND HANDLING

TRANSPORTATION OF THE MACHINE



The machine is delivered to the customer through a "specialized transportation company" or by the manufacturer who, through its own personnel and appropriate means,



in compliance with the regulations, shall ensure the operations of packaging, lifting, loading, transport and unloading in relation to the type of transport (land, sea or air).



ALL OPERATIONS OF LIFTING, LOADING, TRANSPORT AND UNLOADING OF THE MACHINE REQUIRE TO BE PERFORMED BY A "SPECIALIZED TRANS-PORT COMPANY" OR BY THE MANUFACTURER WITH PERSONNEL AND MEANS SUITABLE FOR USE.

PACKAGING



The machine is fixed to the pallet by straps and covered with a cardboard box. The packaging contains:



- No. 1 compressor
- No. 1 instruction manual

The characteristics of the packaging are indicated in **Tab. 1**.

Mod.	CLINIC 3.40	CLINIC DRY 3.40 H	CLINIC DRY 3.40 HS
Packaging Weight	48 Kg	51 Kg	52 Kg
Pack measurement (machine + bed height)	68×57×90 cm	68×57×90 cm	68×57×90 cm

Tab. 1



23

HANDLING OF PACKAGING WITH A FORKLIFT OR TRANSPALLET



IT IS MANDATORY THAT, IN THE RANGE OF HANDLING OPERATIONS. THERE ARE NO PEOPLE, ANIMALS AND/OR THINGS WHOSE SAFETY CAN BE COM-PROMISED ACCIDENTALLY.



THE HANDLING OF THE PACKAGE CAN BE PERFORMED ONLY BY THE USE OF A TRANSPALLET OR A FORKLIFT SUITABLE FOR USE.

IT IS MANDATORY, DURING THE LIFTING OPERATIONS, (UP/DOWN), NOT TO MAKE SUDDEN MANOEUVRES AFFECTING STABILITY OF LOAD.

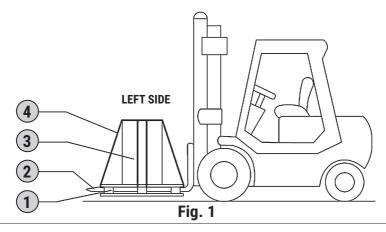
- 1) Insert the forks (2 Fig. 1) under the pallet (1), keeping them at the centre of the latter.
- 2) Raise the packaging (3) a few centimetres to make sure the load is actually centred in the forks.
- 3) Carefully move the package to the positioning area expected, therefore lowering the load until the full stability is reached.

UNPACKING

After laying the packaging on the ground do the unpacking as follows:

- 1) With a suitable tool, cut the straps (4) taking care not to be affected by the straps as a result.
- 2) Remove the cardboard box.

BE SURE TO DISPOSE THE PACKAGING MATERIAL ACCORDING TO THE DIFFE-RENT TYPES OF MATERIAL IN THE ABSOLUTE RESPECT OF THE LEGISLATION IN FORCE IN THE COUNTRY OF USE.





MANUAL HANDLING OF THE MACHINE

THE MANUAL HANDLING OF THE MACHINE MUST BE DONE BY AT LEAST TWO OPERATORS IN CHARGE, OR USING A SUITABLE MEAN (E.G.: TRANSPALLET), IN ACCORDANCE WITH THE REGULATIONS ON THE "MANUAL HANDLING OF LOADS", IN ORDER TO AVOID ADVERSE CONDITIONS THAT INVOLVE RISK OF ERGONOMIC INJURIES TO THE BACK.

The machine can be moved manually by two operators in charge, using the handles (1 - Fig. 1) that are attached. Make sure the plug of the power supply cable is disconnected and that the cord is positioned above the tank.

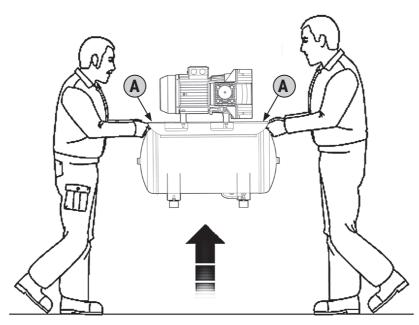


Fig. 1



POSITIONING OF THE MACHINE



The machine must be placed in a workplace with the characteristics described in par. "INTENDED USE OF THE MACHINE", placed on a flat floor that ensures stability in relation to the overall dimensions and to the weight.



IN ORDER TO ENSURE THAT THE AUTHORIZED OPERATORS OCCUPY THE WORK POSITIONS EXPECTED, IT IS MANDATORY TO ENSURE MINIMUM MEASURES OF POSITIONING AS SHOWN IN FIG. 2. IF THE ROOM TEMPERATURE, WHERE THE MACHINE HAS BEEN PLACED, EXCEEDS THE LIMITS SPECIFIED IN PAR. "TECHNICAL SPECIFICATIONS", IT IS COMPULSORY TO INSTALL A SUITABLE ADDITIONAL FAN, AS SHOWN IN FIG. 2.

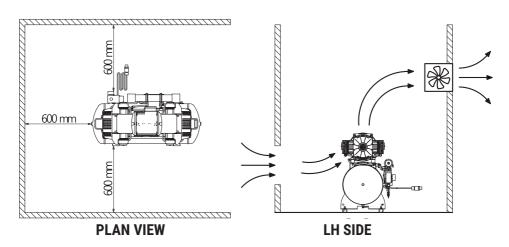


Fig. 2



INSTALLATION

GENERAL WARNINGS



IT IS COMPULSORY TO COMPLY WITH THE CORRECT PROCEDURES OF AS-SEMBLY/DISASSEMBLY AND CONNECTION OF COMPONENTS DESCRIBED IN THIS CHAPTER.

THE MANUAL HANDLING MUST BE IN COMPLIANCE WITH THE REGULATIONS ON THE "MANUAL HANDLING OF LOADS" IN ORDER TO AVOID ADVERSE CONDITIONS THAT INVOLVE RISK OF INJURIES TO THE BACK.

ALL OPERATIONS DESCRIBED BELOW ARE DONE TO PREPARE THE MACHINE READY FOR THE OPERATION.

PNEUMATIC CONNECTION



THE MANUFACTURER HAS NO LIABILITY FOR INJURY TO PERSONS, ANIMALS AND/OR THINGS, RESULTING FROM FAILURE TO OBSERVE THE WARNINGS DESCRIBED ABOVE.



IT IS STRICTLY PROHIBITED THE USE OF AIR TUBES (EXTENSIONS), FITTINGS AND TOOLS NOT SUITABLE AND NOT CONFORM TO THE REGULATIONS IN FORCE.



IT IS COMPULSORY TO USE AIR TUBES (EXTENSIONS), FITTINGS AND TO-OLS, ACCORDING TO WHAT IS FORECAST IN THE "INSTRUCTION MANUALS" PROVIDED BY THE MANUFACTURERS.



The machine must be connected upstream to a pneumatic system for the production sterilized air (by customer) connecting, to the air outlet (20



- Fig. 1), the tube for air inlet of the system equipped with a special fitting.

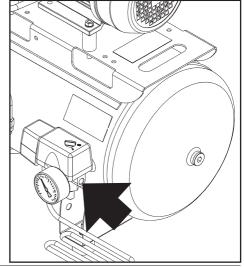
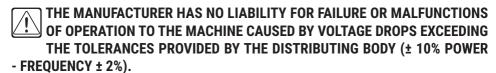


Fig. 1

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ELECTRIC CONNECTION



THE MAINS TO WHICH THE MACHINE IS CONNECTED MUST BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LAWS OF THE COUNTRY OF USE, MEET THE SPECIFICATIONS CONTAINED IN PAR. "MACHINE DATA" AND BE PROVIDED WITH A SUITABLE GROUNDING SYSTEM.

IT IS COMPULSORY TO INSTALL UPSTREAM OF THE POWER SUPPLY LINE AN ELECTRIC CUTTING DEVICE WITH A SUITABLE DISCONNECTING PROTECTION COORDINATED WITH THE GROUNDING PLANT.

ANY TYPE OF ELECTRIC MATERIAL USED FOR THE CONNECTION MUST BE SUITABLE FOR USE, MARKED "CE" IF SUBJECT TO LOW VOLTAGE DIRECTIVE 2006/95/EC AND COMPLYING WITH THE REQUIREMENTS OF THE REGULATIONS IN FORCE IN THE COUNTRY OF USE OF THE MACHINE.

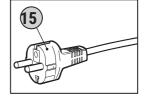
IF NECESSARY, IT IS COMPULSORY TO CONNECT THE MACHINE ONLY TO GENERATORS OF ELECTRICITY WITH A POWER GREATER THAN THE POWER SUPPLY INSTALLED, TO SUPPORT THE ABSORPTION CURRENT UPON STARTUP.

FAILURE TO FOLLOW THE WARNINGS ABOVE MAY CAUSE IRREVERSIBLE DAMAGE TO THE ELECTRIC EQUIPMENT OF THE MACHINE AND THE SUBSEQUENT VOID OF THE WARRANTY.





The machine can be connected to the mains by plugging the power cord (15) into the power outlet (by the Customer).







SAFETY

SAFETY DEVICES

The Safety Devices adopted are as follows (for the references on the drawings, please see the pages down):

REF.	DESCRIPTION	FUNCTION
1	Cooling fan protection hood.	It is a fixed guard that consists of a grid of plastic material fixed with screws at the base of the twin cylinder pumping unit. It prevents accidental contact with the moving cooling fan.
2	Resettable thermal.	It is a thermal protection installed on the electrical system, which stops the electric motor in case of current overload and/or short circuit. Recovery can be done through the appropriate button.
3	Tank pressure gauge.	It is a measuring device installed on the tank of the machine. It shows the air pressure inside the tank (0 \div 10 bar).
4	Safety valve.	It is a certified safety valve (set at 10.5 bar), installed in the pneumatic system under the pressure switch. It is used to discharge the overpressure of the system if the pressure switch, for any problems, does not function. The intervention of the safety valve forces the operator to turn off the machine and request the assistance of the maintenance personnel (see par. "INTERVENTION OF THE SAFETY VALVE").
5	Pressure switch.	It is an electro-pneumatic device (set at min. 6 bar, max. 8 bar) fitted onto the pneumatic plant. It is used to control the automatic start of the machine when the pressure drops to 6 bars and the automatic stop when the pressure reaches 8 bars.



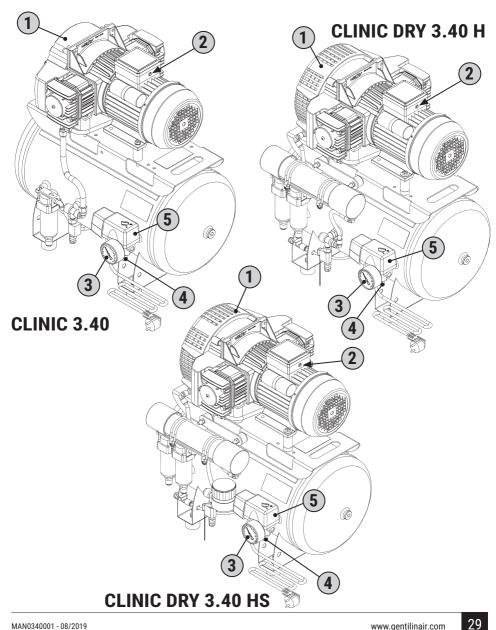
IT IS COMPULSORY TO CONSTANTLY CHECK THE GOOD FUNCTIONING AND THE EFFICIENCY OF ALL SAFETY DEVICES IN THIS MACHINE.

IT IS COMPULSORY TO REPLACE ANY SAFETY DEVICES MALFUNCTIONING AND/OR DAMAGED.



IT IS FORBIDDEN TO MANIPULATE, EXCLUDE, REMOVE AND/OR REPLACE ANY SAFETY DEVICE IN THIS MACHINE.

IT IS ABSOLUTELY FORBIDDEN TO REPLACE ANY SAFETY DEVICE OR COMPO-**NENT WITH NON ORIGINAL SPARE PARTS.**





PERSONAL PROTECTIVE EQUIPMENT (PPD)

The use of personal protective equipment (PPD) is mandatory, in accordance with the legislation on safety and health in the workplace regulations of the country of use of the machine.

SEGN	PPE REQUIRED	TYPE OF APPLICATION
	Protection of hands (protective gloves against thermal hazards)	During handling, installation,
	Protection of feet (shoes with reinforced toe)	operation and maintenance.

Tab. 1



) IT IS COMPULSORY TO USE THE PPD SUGGESTED BY THE MANUFACTURER (SEE Tab. 1).

RESIDUAL RISKS

The authorized operator must remark that, although the manufacturer has taken every precaution technically possible to make the machine safe, in order not to compromise the functionality and productivity of the machine, there are still two potential residual risks described in Tab. 2 and 3.

RESIDUAL RISK N. 1	DANGER OF BURNS IN THE PUMPING GROUP AND ELECTRIC MOTOR	
SEVERITY OF THE INJURY	Light, normally reversible injuries.	
EXPOSURE	If the operator decides to perform a voluntary improper action, forbidden and not reasonably foreseeable.	
PROBABILITY	Low and accidental.	
STAGE WHERE THERE IS A RISK	During use and operation.	
MEASURES TAKEN	Safety signs. Compulsory use of personal protective equipment (PPD) and/or wait for the cooling of the machine.	

Tab. 2



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RESIDUAL RISK N. 2 DANGER OF CRUSHING FOOT DUE TO ACCIDE FALL FROM THE MACHINE			
SEVERITY OF THE INJURY	Serious injuries usually reversible.		
EXPOSURE	If the operator decides to perform a voluntary improper action, forbidden and not reasonably foreseeable.		
PROBABILITY	Low.		
STAGE WHERE THERE IS A RISK	During handling and placement.		
MEASURES TAKEN	Procedures for handling of the packaging and machine (see chap. "TRANSPORTATION AND HANDLING").		

Tab. 3

SAFETY SIGNS

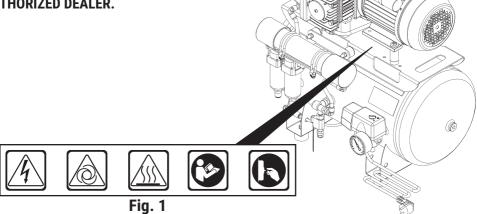
The Safety signs used are constituted by an adhesive label, applied externally to the machine (Fig. 1).



IT IS ABSOLUTELY FORBIDDEN TO REMOVE AND/OR DAMAGE THE SAFETY SIGNS APPLIED TO THE MACHINE.

IT IS COMPULSORY TO KEEP WELL CLEAN THE SIGNS IN ORDER TO ENSURE A GOOD VISIBILITY.

IT IS COMPULSORY TO REPLACE THE SAFE-TY SIGNS DETERIORATED, BY REQUESTING THEM TO THE MANUFACTURER AND/OR AU-THORIZED DEALER.





SIGN	MEANING/PRESCRIPTION	SIGN	MEANING/PRESCRIPTION
Â	DANGER: Electric Current		REQUIREMENT:
	DANGER: Automatic start		Read the instruction manual
	DANGER: Dangerous Temperatures		REQUIREMENT: Turn off the machine before carrying out maintenance

USE AND OPERATION

PLACES OCCUPIED BY AUTHORIZED OPERATORS

The Authorized operators, depending on the type of manual intervention required, must take

the places shown in Fig. 1.

THE AUTHORIZED OPERATORS
ACCORDING TO THE PLACE
OCCUPIED, ARE OBLIGED TO
PERFORM THE REQUIRED ACTIONS
DESCRIBED IN THE RELATED SECTIONS.

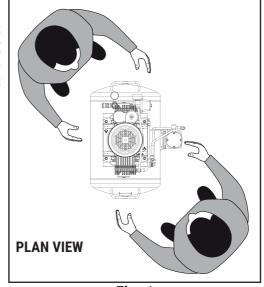


Fig. 1

AUTHORIZED OPERATORS	PLACE	DESCRIPTION OF INTERVENTION
	ALL	With the consent of the Supervisor, execute on the machine lifting operations, maintenance operations, handling and use of the machine.



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PRESSURE SWITCH

In **Fig. 2** is represented the control device to which the authorized operator must refer for the command and control of the machine.

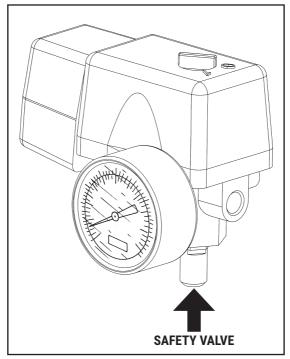


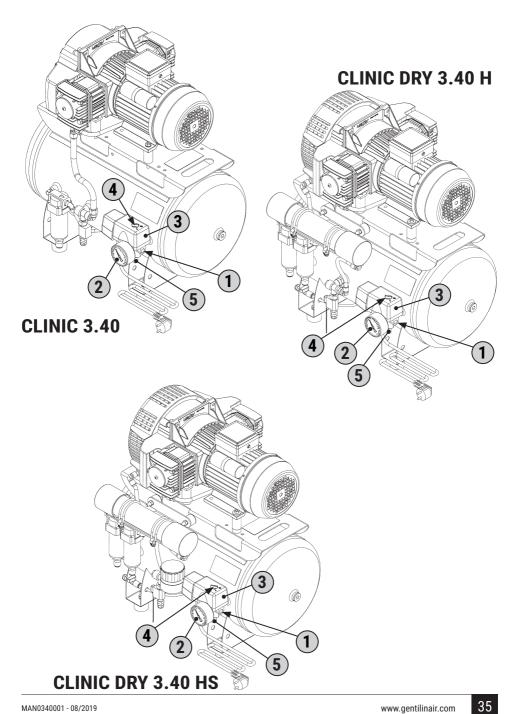
Fig. 2

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REF.	NAME	FUNCTION	
1	Air outlet.	¼" G hole for air connection.	
2	Tank pressure gauge.	It shows the outlet air pressure set through the regulator.	
3 Pressure switch. bar) fitted onto the pneumatic plant. It is used to con automatic start of the machine when the pressure dro		It is an electro-pneumatic device (set at min. 6 bar max. 8 bar) fitted onto the pneumatic plant. It is used to control the automatic start of the machine when the pressure drops to 6 bar and the automatic stop when the pressure reaches 8 bar.	
4	4 Interruttore Pos. "ON (I)": Turns on the machine; Pos. "OFF (0)": Turns off the machine.		
It is a certified safety valve (set at 10.5 bar), inst pneumatic system under the pressure switch. It discharge the overpressure in the system if the switch, for any problems, does not function. The intervention of the safety valve forces the system.		The intervention of the safety valve forces the operator to turn off the machine and request the assistance of the main-	







PRIOR TO IGNITION



BEFORE TURNING ON THE MACHINE THE OPERATOR IN CHARGE MUST MAKE THE CHECKS INDICATED IN TAB. 1.



No.	CONTROL
1	Make sure that no unauthorized persons are near the machine.
2	Make sure the machine is properly positioned.
3	Make sure all connections are properly made.
4	Ensure that the switch (18) is in pos. "OFF (0)".
5	Make sure the condensate drain valve is closed (12).
6	Use the Personal protective equipment (PPE) required.
7	Make sure you have read and understood all parts of this "Instruction Manual".
8	Make sure that after last use routine maintenance has been made.

Tab. 1

TURNING ON THE MACHINE

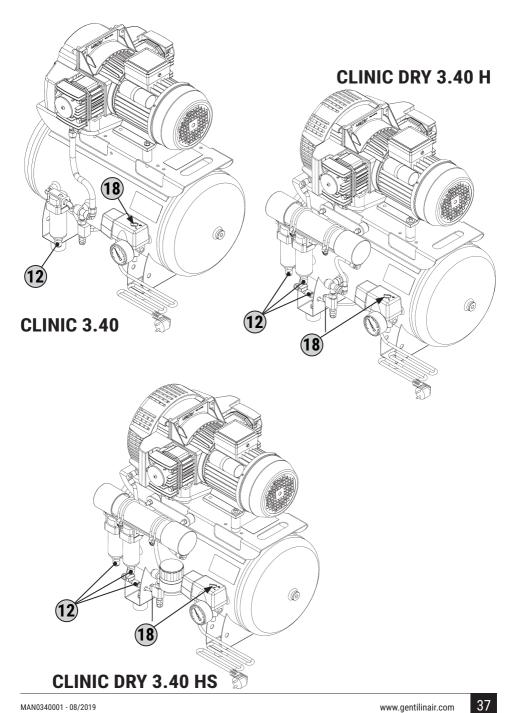
THE AUTHORIZED OPERATORS CAN TURN THE MACHINE ON ONLY AFTER THEY HAVE PERFORMED AS A COMPULSORY OPERATION, THE CONTROLS DESCRIBED IN THE CONTROLS TABLE BEFORE USING THE MACHINE IN QUESTION IT IS COMPULSORY THAT THE AUTHORIZED OPERATORS READ AND THOROUGHLY UNDERSTAND IN ALL PARTS THIS MANUAL. IT IS COMPULSORY TO KEEP THE MACHINE OUT OF REACH OF UNAUTHORIZED PERSONS.



THE MANUFACTURER HAS NO LIABILITY FOR INJURIES TO PERSONS, ANIMALS AND/OR THINGS CAUSED BY THE INOBSERVANCE OF THE RULES AND INFORMATION DESCRIBED HEREIN.

Turn on the machine by moving the switch (18) in pos. "ON (I)" (the machine runs up to the max. operating pressure at 8 bar and then stops automatically).







RESETTABLE THERMAL



If there is an overload and/or a short circuit in the electrical system of the arprojlime machine, the overload protection intervenes stopping the electric motor.

The reset will occur automatically when the temperature returns within the parameters preset by the manufacturer:

- 1) Set the switch (18) in pos. "OFF (0)".
- 2) Press the button of the resettable thermal (7).
- **3)** Before restarting the machine wait a few minutes.



) IF AFTER PERFORMING THE RESET THE MACHINE WILL NOT RESTART, THE OPERATOR IS REQUIRED TO OBTAIN THE INTERVENTION OF MAINTENANCE TECHNICIANS AND/OR THE AUTHORIZED DEALER.

TURNING OFF THE MACHINE



At the end of the work cycle perform the turning off of the machine as follows:



- 1) Set the switch (18) in pos. "OFF (0)".
- 2) Unplug the power cord (15) from the socket and place it next to the machine.



3) Only in case of work cycle end perform the condensate discharge from the tank, acting on the condensate drain valve (12).

EMERGENCY STOP



The Emergency Stop of the machine can be done by bringing in pos. "OFF (0)" the switch (18). To avoid situations of imminent danger, the Authorized Operators are obliged to perform the following operations:

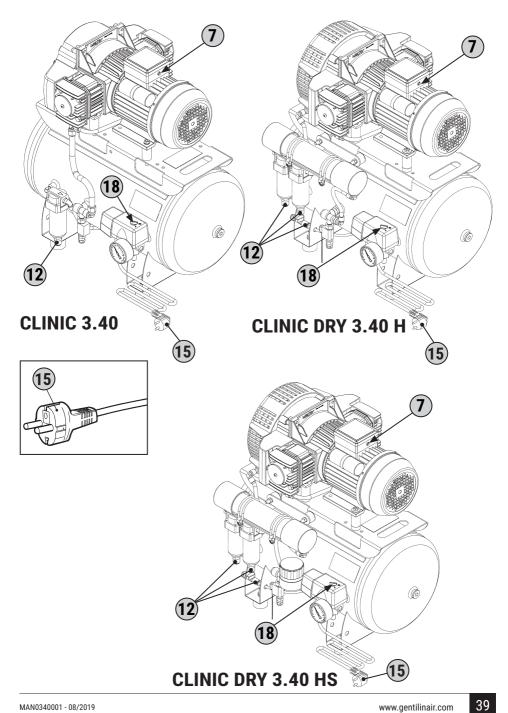


REPORT IMMEDIATELY THE EMERGENCY TO THE SUPERVISOR IN CHARGE. 2

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ACTIVATION AFTER AN EMERGENCY STOP

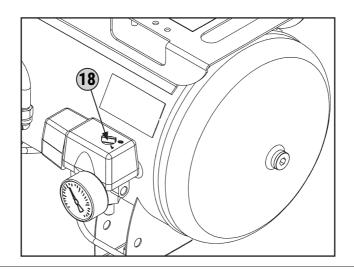
Only after removing the cause of the emergency and having carefully evaluated that the decision has not caused any damage and/or problems to the machine, with the consent of the Supervisor in charge restore the machine as described in the following paragraph:

- 1) Set the switch (18) in pos. "OFF (0)".
- 2) If necessary, repeat the operations described in par. "TURNING ON THE MACHINE".

INTERVENTION ON THE SAFETY VALVE

In the event of a malfunction of the pressure switch and the pressure inside the tank exceeds 10,5 bar, the safety valve operates mechanically by opening for venting outside the compressed air and return the pressure to the safety value.

UPON THE INTERVENTION OF THE SAFETY VALVE IT IS COMPULSORY TO TURN OFF THE MACHINE, NOTIFY THE SUPERVISOR AND REQUEST ASSISTANCE OF MAINTENANCE TECHNICIANS OR AUTHORIZED DEALER TO MAKE THE CONTROL OF PRESSURE SWITCH.



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TROUBLESHOOTING





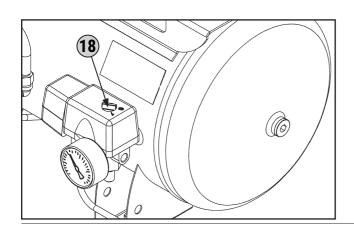


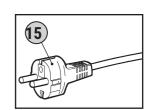




FAILURE TO FOLLOW THE PROCEDURES CONTAINED IN THIS PARAGRAPH MAY CAUSE A MALFUNCTION OF THE MACHINE AND/OR UNDERMINE THE SAFETY OF THE SAME.

PROBLEM	CAUSE	SOLUTIONS
The machine does not turn or stops and does not restart.	No electricity.	 Check that the switch (18) is in pos. "ON (I)". Check that the power cord plug (15) is working properly and inserted into the socket. Check that any extension cords used and the current outlet are operational. Check that the switch of the main power supply is functioning and in pos. "ON (I)".
	Intervention of the re- settable thermal due to current overload and/or short circuit.	Follow the procedure described in par. "RESETTABLE THERMAL".
The machine often starts again without the pneumatic plant is operating.	Air leaks from the pipe or its pneumatic plant.	 Check that the pneumatic system is not damaged. Check the integrity of the pipe connections and air system.







PROBLEM	CAUSE	SOLUTIONS
Intervention of the safety valve.	Faulty pressure switch.	
Air leak from the valve of the pressure switch with machine stopped.	Check valve is dirty or worn.	See the maintenance technicians or contact an Authorized Reseller.
The machine vibrates and/or makes a lot of noise.	Mechanical failure.	
Frequent starts and low efficiency.	Dirty air filters.	

MAINTENANCE



This is the set of activities designed to maintain the conditions of use and operation of the machine, through various types of intervention (adjustments,



visual inspection, recovery levels, etc.) performed by the maintenance technician or by the manufacturer's technician at the frequency forecast.





THE AUTHORIZED OPERATORS SHOULD PERFORM ONLY THE MAINTENAN-CE WORKS REQUIRED IN ACCORDANCE WITH THEIR SPECIFIC PROFESSIO-NAL COMPETENCE AND UPON CONSENT OF THE SUPERVISOR IN CHARGE.

IT IS FORBIDDEN TO AUTHORIZED OPERATORS TO LEAVE THE MACHINE WI-THOUT SUPERVISION DURING THE MAINTENANCE WORKS. THEY SHOULD ALSO PROTECT THE PLACE OF WORK WITH A WHITE/RED CHAIN AND EXPO-SE ADEOUATE NOTICE OF DANGER AND PROHIBITION FOR WORKS IN PROGRESS.

POINT OF INTERVENTION	TANK	
TYPE OF INTERVENTION	CONDENSATE DRAIN	

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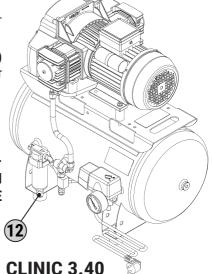
EVERY WEEK

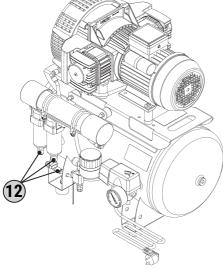


At the end of the workday, run the condensate drain of the tank, following the steps below:

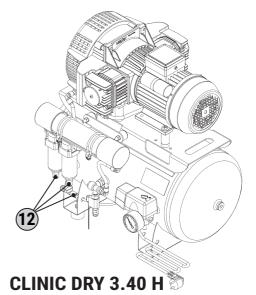
- 0 bar (⋛100=
- Place under the condensate drain valve, a collection container fit for use.
- Slowly open the valve of condensate drain (12) and wait for a complete exit of compressed air and condensate.
- **3)** Close the drain valve.
- 4) Indicate the action on the maintenance card.

YOU MUST DISPOSE OF THE CONDENSATION LIQUID IN COMPLIANCE WITH THE REGULATIONS IN FORCE IN THE COUNTRY OF USE.





CLINIC DRY 3.40 HS





EVERY MONTH



Proceed as follows:

1) Unscrew the screw (1).



- 2) Remove the cover (2).
- 3) Remove the filter (3) and clean it with compressed air.

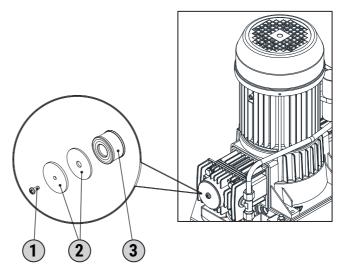


REPLACE THE FILTER IN CASE OF EVIDENT WEAR.

- 4) After placing back the filter, replace the cover properly.
- 5) Indicate the action on the maintenance card.



YOU MUST DISPOSE OF THE FILTERS REPLACED IN COMPLIANCE WITH THE REGULATIONS IN FORCE IN THE COUNTRY OF USE.

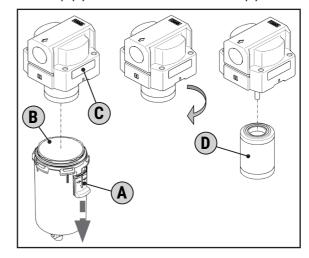


POINT OF INTERVENTION	COALESCING FILTER	
TYPE OF INTERVENTION	REPLACE	



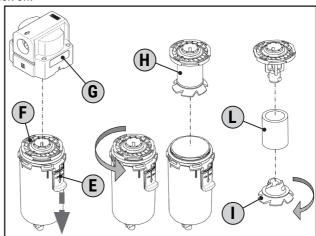
AFM 30 CARTRIDGE REPLACEMENT

- Press the lever down (A), turn of 45° the cup (B) and remove it from the cover (C).
- · Unscrew the filter (D).
- · Screw in the new filter.
- Insert the cup in the top cover and turn 45°.



AF 30 CARTRIDGE REPLACEMENT

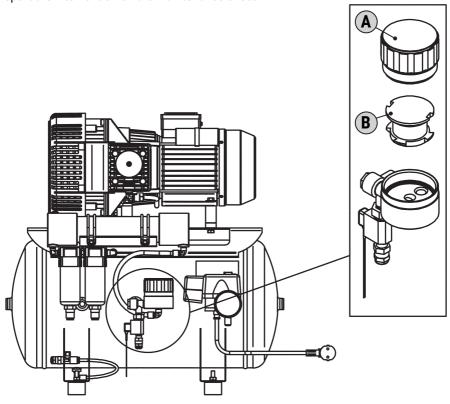
- Press the lever down (E), turn of 45° the cup (F) and remove it from the cover (G).
- Remove the assembled component (H).
- · Unscrew the lower deflector (I).
- Replace the filter cartridge (L).
- · Screw the lower deflector back on.
- Insert the assembled component in the cup.
- Insert the cup in the top cover top and turn of 45°.





STERILE FILTER REPLACEMENT

- Unscrew the cover by hand (A).
- · Remove the filter (B).
- · Insert the new filter.
- · Screw the cover up until it reaches the mechanic stop.
- Report the intervention on the maintenance sheet.

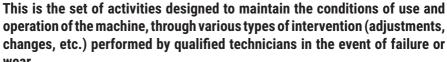


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EXTRAORDINARY MAINTENANCE







wear.



FOR ANY INTERVENTION OF EXTRAORDINARY MAINTENANCE IT IS COM-PULSORY TO REQUIRE THE TECHNICAL ASSISTANCE TO THE MANUFACTU-RER OR AUTHORIZED DEALER.

DECOMMISSIONING

STORAGE



In the event that the machine should be stored for some time, you must place it in a safe environment, with a proper degree of temperature, humidity and protected from dust.



DEMOLITION



I Upon demolition of the machine, strictly follow the requirements in force in the country of demolition.



Proceed to the differentiation of the parts that make up the machine according to the different types of construction materials (plastics, copper, iron, etc. ...).



These products must be considered pollutants and hazardous charging licensed contractors and disposed of by appointing specialized companies for different types of products.



ALL PARTS OF THE MACHINE MUST BE IDENTIFIED ACCORDING TO THE DEFINITIONS OF "CER CODES" (EUROPEAN WASTE CATALOGUE) AND DI-SPOSED OF BY INSTRUCTING AUTHORIZED AND SPECIALIZED COMPANIES. IN STRICT COMPLIANCE WITH THE REGULATIONS IN FORCE IN THE COUNTRY OF DEMOLITION OF THE MACHINE.



WASTES OF ELECTRICAL AND ELECTRONIC EQUIPMENT (RAEE) MUST BE DISPOSED OF IN STRICT COMPLIANCE WITH THE REGULATIONS IN FORCE IN THE COUNTRY FOR THE DEMOLITION OF THE MACHINE.



SPARE PARTS



GENUINE PARTS FOR ANY SUBSTITUTIONS MUST BE REQUIRED ONLY TO THE MANUFACTURER.



IT IS STRICTLY PROHIBITED THE USE OF NON ORIGINAL SPARE PARTS.

ATTACHMENTS

DRYER/FILTER TECHNICAL SHEETS

The following pages will give the technical sheets relative to the dryer/filter.

DRYTEC TECHNICAL SHEET

The DRY TEC membrane dryer collects all of the following parts in a unique block:

- Filtering element ÷ condensate separator, housed in thelower compressed air input head. Its function is to separate the condensate liquid phase and then convey just the water vapour phase towards the cores of the hollow fibre membranes.
- **Anti-pulse device:** this is intelligently housed inside the filter itself and dampens the pulse flow pertinent to the movement of the piston compressors, thus protecting the fibres from undesirable stress.
- Automatic condensate drain: no compromise is allowed: it is a real float drain that operates depending on the rising level of condensate and not of a partial device that can only drain at the end of pumping.
- Core dehydrator: this is made up from a bundle of hollow fibre membranes, whose characteristic is that of distributing, i.e. transferring the humidity towards the outside, through a porous wall characterised by a so-called selective molecular size, which allows migration just of the water vapour molecule, while the molecules of nitrogen and oxygen making up the air flow remain inside the capillary tube.
- Regeneration nozzle cut-off: in order to favour the extraction of the humidity "pumped" through theporous wall, a percentage (~10 %) of dry air is expanded through a nozzle, which makes this regeneration current flow in backflow mode on the external side of the intertwined fibre membranes. Flexible and rational: depending on the size of the compressor, the nozzle can be changed so that a unique membrane covers the entire range of flow rates (nominally from 100 and 150 NI/min, which can be optimised depending on customer requirements).

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Anti-bacterial filter (option): the output head is already set-up to house an anti-septic
filtering element. It is offered as an optional so as not to increase the purchase cost
of the equipment is not needed, so as to satisfy the more demanding customer without
further transformations. The components of this sterile element are in compliance with
that governed by the FDA Standard (Food and Drug Administration) and can be sterilised
in autoclave according to conventional criteria.

DRY TEC DRYING SYSTEM - DATA SHEET

	Compressed air generated bynon-lubricated compressor				
FLUID:	Saturated with water vapour				
	No pulses				
SERVICE:	continuous, 24/24 hours				
INPUT COMPRE	SSED AIR FLOW RATE: 145 sl/min.				
OUTPUT COMPR	RESSED AIR USEFUL FLOW RATE: 123 sl/min.				
COMPRESSED A	IR INPUT TEMPERATURE: from +2°C to +50°C				
SUPPLY RATED	PRESSURE:				
DRYER DEW POI	NT AT ROOM TEMPERATURE OF 25°C:19,4°C				
PROJECT TEMP	ERATURE:: from +2°C to +50°C				
PROJECT PRESS	SURE:max 10 bar				
INSTALLATION:	internal				
QUALITY CONST	TRUCTION CODE:: ISO9001:2008				

GENTILIN SRL Technical dept.

Instruction Manual - Clinic 3.40 Compressors





ETHAFILTER s.r.l. Via Dell'Artigianato, 16/18 I-36050 Sovizzo (Vicenza) Italia Tel. + 39 / 0444 376402 Fax +39 / 0444 376415

e-mail: ethafilter@ethafilter.com

CERTIFICATO di CONFORMITÀ ELEMENTO FILTRANTE STERILE

Modello: EDT 5635ST

Questi elementi filtranti asettici sono prodotti d'altissima qualità ed assicurano il grado sterile richiesto nell'alimentazione d'aria e gas compressi.

I materiali con i quali è costruito l'elemento filtrante sono:

Testate: acciaio inox AISI 304 oppure PETP (materiale sintentico conforme F.D.A.)

Cilindro interno/esterno: acciaio inox AISI 304 Strato protettivo interno/esterno: tessuto di vetro

Strato filtrante ad alta efficienza: "sandwich" di profondità in micro fibra di vetro borosilicato

Sigillante: composto siliconico, per alte temperature, composizione secondo norme F.D.A.

O-ring: composto siliconico per alte temperature, composizione secondo norme F.D.A.

Il media filtrante ad alta efficienza è composto da micro fibre di vetro borosilicato grado HEPA certificato, avente una penetrazione inferiore a 0.0001 % @ 0.3 μ , equivalente ad un'efficienza assoluta di ≥ 0.3 μ se testato con aerosol DOP e misurato con contatore di particelle. Il sigillante, se riscaldato, rimane flessibile, in modo da permettere un'espansione delle parti metalliche durante la sterilizzazione.

N.B.: Chi utilizza l'elemento filtrante è responsabile nell'assicurare che sia rispettato il corretto processo d'inibizione della crescita dei batteri e dei virus fermati dall'elemento.

È comunque consigliato sterilizzare il filtro prima di ogni sequenza di lavoro asettico.

Questi elementi possono essere sterilizzati a 120 °C in autoclave per 20/30 minuti (50 fasi massimo eseguibili)..

Per una sterilizzazione a vapore "in situ", è necessario bilanciare la condizione del vapore tramite un piccolo orifizio direzionato dall'esterno all'interno del filtro.

Dopo la sterilizzazione a vapore, e prima di iniziare il processo in gas, è necessario lasciare ad asciugare il filtro. Al fine di garantire una maggiore durata del filtro, è consigliato verificarne occasionalmente l'integrità.

Nel caso in cui non siano disponibili le attrezzature per la verifica, è consigliato sostituire l'elemento filtrante ogni 6 mesi.

PRESTAZIONI DELL'ELEMENTO FILTRANTE:

Grado di filtrazione 0,01 μ
Temperatura max. 200 °C

Temperatura max. di sterilizzazione: 138 °C (secondo BS3970, part 3, cycle A)

Caduta di pressione iniziale 150 mbar Cambio elemento filtrante 400 mbar

ATTENZIONE !!

- Prima di installare l'elemento filtrante, assicurarsi che l'o-ring ed il contenitore siano puliti e lubrificati con olio siliconico approvato dal F.D.A. (Food and Drug Administration).
- Sostituire l'elemento filtrante quando siano raggiunti i limiti di pressione differenziale e/o di ore di utilizzo.
- Solo personale competente ed addestrato può svolgere operazioni di installazione, manutenzione, sostituzione degli elementi filtranti.
- Non togliete o sostituite alcun elemento dal contenitore quando questo si trova in pressione.



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MAINTENANCE SCHEDULE CLINIC 3.40

Year	Details		Replacements			Hours
1			/	/	/	500
2	Date	Signature	F2	/	/	1000
3			/	/	/	1500
4	Date	Signature	F2	/	G1	2000
5			/	/	/	2500
6	Date	Signature	F2	/	/	3000
7			/	/	/	3500
8	Date	Signature	F2	/	G1+G2	4000
9			/	/	/	4500
10	Date	Signature	F2	/	/	5000

Description	Q.ty/Code	
F2 Air intake filters spare	2×279	
G1 Seal gasket kit	1×84303	
G2 Piston Kit	1×83214	



MAINTENANCE SCHEDULE CLINIC DRY 3.40 H / CLINIC DRY 3.40 HS

Year	Details		Replacements		Hours	
1			/	/	/	500
2	Date	Signature	F2	F3	/	1000
3			/	/	/	1500
4	Date	Signature	F2	F3	G1	2000
5			/	/	/	2500
6	Date	Signature	F2	F3	/	3000
7			/	/	/	3500
8	Date	Signature	F2	F3	G1+G2	4000
9			/	/	/	4500
10	Date	Signature	F2	F3	/	5000

Description	Q.ty/Code
F2 Air intake filters spare	2×279
F3 Coalescent filter spare	1×84211
G1 Seal gasket kit	1×84303
G2 Piston Kit	1×83214

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