

GAS MIXER

N-MIX T-MIX TT-MIX



***Installation and
operation manual***

Congratulations on purchasing your new automatic GAS MIXER from Nardi Compressori!

This booklet contains information for use and maintenance of the automatic GAS MIXER for NITROX and TRIMIX. Operators must read and understand the information contained in this manual.

ATTENTION; The use of this machine must absolutely take place only after reading all parts of this booklet

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1**BASIC INFORMATION****1.01 SYMBOL EXPLANATION :**

To put your attention on important issues both for safety and for the correct operation of the mixer has been a symbol of danger. This will side with the argument that every operator must absolutely know..

**1.02 PRECAUTIONS :**

The mixers are manufactured in accordance with the EC machinery directive 2006/42/EC, in compliance with the RoHS Directive 2002/95/EC, in accordance with the electromagnetic compatibility Directive 2004/108/EC, in accordance with the low voltage Directive 2006/95/EC, in accordance with the Directive 2002/96 Electrical Waste/EC and Directive 2006/95 Electrical Materials/EC. The machine is built to perfection and in accordance with the rules of safety technology.

The NARDI COMPRESSORS also declare that the mixer has undergone a constructive proof attesting to the conformity of the product with the ' Declaration of conformity ' in accordance with Directive 2006/42/EC.

Before using the Mixer we recommend that you read the following indications:

1. Carefully read the directions for the proper functioning of the mixer.
2. Make sure to tighten all gas fittings.
3. Do not operate the mixer in damp places and without air.
4. Check that the compressor and the mixer are located in a stable place.
5. Never exceed the charging pressure over 225 Bar.
6. It is the responsibility of end users always check the mixture with a gas Analyzer.
7. The compressor may reach high temperatures during operation, and then recommend to install thermal contacts which signal the high temperature of the compressor to the Mixer.
8. Do not let children manipulate the device even when it is turned off.
9. The use of the mixer is reserved to professional and personal Blender prepared adequately to perform Nitrox or Trimix.
10. Never fill the compressor, mixtures with percentage greater than 40% oxygen.
11. The Mixer is project to work with any make and model of piston compressor high pressure breathing air. Make sure that the safety valve is calibrated compressor Max. 225 Bar.
12. Replace the oxygen sensors at least 1 time a year with original Nardi compressors, sensors to have a mixture always accurate. If the mixture begins to be different from that set, it is mandatory to replace the sensors.
13. Keep at a constant temperature of about 20° C the room where performs the mixtures and the compression of the mixture and make sure that there is always a spare clean air mixing zone.
14. Before you start mixing, check the pressure of the helium and oxygen cylinders and make sure it is enough to run a reload. This to avoid having to restart a mixture. The mixer is equipped with alarms when the gas ends.
15. Never exceed the 8 Bars of incoming gas pressure to the Mixer. The pressure regulators placed on oxygen and helium cylinders must be calibrated at a pressure ranging between 1 and 6 Bar, depending on the length and the diameter of the pipe that carries the gas control unit (min diameter pipes we recommend 8 x 6-6 mm inner and not longer than 2 m).
16. Always close the valves of gas cylinders at the end of the day.
17. If something is not clear or there are doubts, contact specialized technical personnel Nardi compressors.

1.03 PRESENTATION :

The blenders/mixers are divided into 3 models: **N-MIX**, **T-MIX** and **TT-MIX** .

The differences are:

N-MIX Exclusive : automatic mixer for NITROX. It has a single entry for oxygen, only one oxygen sensor on the mixing pipe and bright LCD display to set the mixture manually or can be connected to a PC via Ethernet cable. It is therefore possible to set mixtures, run top and make the mixture to calculate using the PC software NardiBlender.

T-MIX Automatic mixer for NITROX and TRIMIX. It is equipped with double entrance for oxygen and helium, oxygen sensor and applied to helium and bright LCD display to set the mixture manually or can be connected to a PC via Ethernet cable. It is therefore possible to set mixtures, run top and make the mixture to calculate using the PC software NardiBlender.

TT-MIX Autonomous and automatic mixer for NITROX and TRIMIX. It is equipped with double entrance for oxygen and helium, oxygen sensor and helium that is applied to the tube, bright LCD display to set the mixture by hand and by screen 7 " Touch Screen with integrated NardiBlender software to set automatically mixes digitally, and perform top-ups, check the status of the mixture and make the mixture to calculate.

Can be connected to a modem or to a corporate network. This gives the possibility to handle the mixer remotely, via PC, Tablet or Smartphone, check mixing and stop it at any time wherever you are, via NardiBlender or PC software by linking directly to the control unit via remote software like VNC Viewer (free app for iOS and Android).

Whatever your model, you will find exciting the functioning of these mixers. You'll have more time to devote to other things, while the constant and balanced mixer will keep the mixture set, from the beginning until the compressor is switched off. The only time to devote to the mixer is at the beginning of mixing; from the moment you press Start, the mixture should stabilize and, once stabilized (max. 2 minutes), the display will give the green signal for the vent is closed and the opening of the charging cylinder. At this point, the mixer will complete the mixture automatically and the province. In the event of malfunctions or problems associated with gas, the mixer is equipped with alarms and security devices that disrupt the flow of oxygen to the compressor, thus avoiding unpleasant accidents. It is also possible to connect a relay for the start and stop of the compressor, so that the mixer can also stop the compressor automatically.



IT IS ABSOLUTELY IMPERATIVE THAT YOU ANALYZE THE BLEND MADE WITH SPECIAL ANALYZER BEFORE PROCEEDING WITH THE DIVE.

Recommend that you analyze the mixture after an hour of charging, so as to allow it to cool down and make a more accurate analysis.

In case you want to make a recharge air-only, the mixer can be switched on or off, without obligation to set no mixture and without pressing any key.

Pressure regulators placed on cylinders of oxygen and helium, must have a range of at least 800 l/min at a pressure of 4 Bar.

1.04 TECHNICAL DESCRIPTION MIXER :

The mixer is designed to be mounted separately from the compressor, which can be installed on any make and model of car.

You can also install where the spaces are contained, thanks to its innovative and compact design. The mixing tube completely envelops the electronic Panel and its internal unit.

It is preferable to install the wall mount, but where it is not possible, you can attach directly to the compressor, if equipped with soundproof panels and dual anti-vibration not to transmit to the mixer troublesome vibrations.

In addition the mixer is built entirely in stainless steel, painted.

DESCRIPTION DETAILS (fig.7a):

1. Touch-Screen Display
2. Backlit LCD Display
3. Stop/oxygen sensors Calibration
4. Compressor condensate drain (if connected)
5. Start the mixture (manual mode)
6. Dial to set the% oxygen
7. Dial to set the% of helium
8. Mixer Tube



Fig. 7a

DESCRIPTION DETAILS(fig.7b):

1. Air inlet
2. Helium gas in the pipe Input mixer
3. I/O power supply fuse
4. Input Coupling in helium
5. Oxygen input in the control unit Plug-in
6. Helium Sensor
7. Ethernet link (leave the cable cross if not connected to the modem or pc)
8. Gas Inlet tube oxygen Blender
9. Cooling fan controller
10. Oxygen Sensor
11. Exit mixture (NITROX-TRIMIX, from connect to the compressor)
12. Cable glands for peripheral connection



Fig. 7b

1.05 MIXER DIMENSIONS :



1.06 FIXING INSTRUCTIONS :

The mixer must be placed in a cool place with good air circulation. Should not be exposed to weather or heat sources. If it is placed in a closed place, make sure that the room temperature does not exceed 20° C never.

Rear fixing plates are equipped with three holes for wall mounting or Panel; We recommend you use all the holes for the fixing and required position it vertically. Air entry and exit of the mixture are placed at the bottom of the mixer, as well as grafting from 8 mm diameter for the entry of gas pipes. The 220 Volt socket and the on/off switch is placed at the base of the Blender, so as to facilitate and make neat installation.

We recommend connecting the suction hose of the mixer in a place outside the compressor's room, so as to suck the air rarefied or not at room temperature too high.



The connection between the control unit and the compressor must be made with a rubber hose with a diameter suitable for the compressor and flow, not less than 40 mm internal diameter.

The installation must be carried out by qualified personnel who have done the course of instruction for Assembly and use of the mixer at the Nardi compressors or issuer, only upon authorization expressly granted.

1.07 PATENTED MIXING SYSTEM:

The complete mixer, then the gas mixing system, capacity control system of gas, electronics and software, are protected by international patent that guarantees uniqueness and perfection of machinery and all its components.

Patent N° TV2012A000233

1.08 TECHNICAL DATA:

TABELLA CARATTERISTICHE TECNICHE - TECHNICAL DATA				
Description	Descrizione	Unità - Unit	MIXER	
Max Working Pressure	Pressione Max Ingresso	Bar Helium/Oxygen	8	8
Min-Max Flow	Flusso Min-Max	L/min. – m ³ /h	50 - 3	800 - 48
Inlet Gas	Gas permessi	Name – Nome	Helium - Oxygen	
Number of sensor	Numero di sensori	N°	N-Mix - 1 / T-Mix, TT-Mix - 2	
Final Mixed Gas	Miscela Finale	Type	Nitrox, Nitrox-Trimix	
Air suction	Ingresso aria	G	G1 ½	
Compressor suction	Aspirazione compressore	G	G1 ½	
Communication	Comunicazione	Type	Ethernet connection - RJ45	
Power connection	Tipo di presa	Type	Shuko	
Environment working temperature	Temperatura ambiente di lavoro	°C / °F	From +15°C to +25°C / From +59°F to +77°F	
Max inclination of mixer	Max inclinazione del miscelatore	Grade – Gradi	10°	
Dimension	Dimensioni	Cm(LxWxH)	56 x 41 x 23	
Material	Materiale	Material – Materiale	Acciaio Inox – Stainless Steel	
Directives CE	Direttive CE	Type	2006/42/CE, 2002/95/CE, 2002/96/CE, 2006/95/CE, 2004/108/CE	
Electric Motor	Motore elettrico	Phase – Fasi	Single Phase	
Operating Voltage	Tipo di Voltaggio	Volt / Hz	230/50 - 60	
Power consumption	Consumo energetico	Kw	300 w	
Type of enclosure	Protezione	IP	NO	
Current Rating	Assorbimento	Ampere	1	
Weight	Peso	Kg. / lb (US)	13,5 / 30	

2 SAFETY REGULATIONS FOR THE USE OF THE MIXER

2.01 IDENTIFICATION OF SAFETY STANDARDS FOR OPERATORS:



It is very important to check and know the dangerous points of the machine before using it. To help you in this, we have placed places of adhesives which help you with stylized images to locate: air inlet (IN), outlet, connected to the inlet of the compressor (OUT), and helium Gas Input oxygen (O2 and He), NardiCompressori CE Label.

In addition to this, some are mounted on the machine components for accident prevention and global security in the event of malfunction or breakdown, speakers so as not to cause danger to life of the operators. These articles should always be present and it may undergo changes.

The operator must ensure the good condition of the equipment and the performance of safety items. The mixer must be monitored periodically by the operator and by specialised technicians.

2.02 SAFETY RULES FOR THE OPERATOR AND THE PROPER USE OF THE MIXER :



Important: Designate one Blender or a specialist in mixtures for refills and to set the mixer. Always monitor the mixture during mixing.

Attendant to the mixer must have a technical background on the breathing air and gas mixtures, on regulations and must fully understand the operation of the machine. In the case of the Labour delegation will be to inform the second person of all operations to be performed.

Removes the air from the surrounding environment (which the operator must make sure that it is free of fumes and/or gases) and passing through the vacuum mixer tube starts the mixing cycle, then get to the compressor and the compression/filtering until the high pressure cylinder, which can then be used for diving.

2.03 SECURITY REGULATION:



- Reload cylinders only tested and never exceed the working pressure.
- The mixer must suck not flawed nor polluted air, you should not put in areas where there are dust, danger of explosion, fire, corrosion.
- If the compressor is powered by a gasoline or diesel engine it is forbidden to use indoors. However make sure that the aspiration is opposite to the direction of the smoke. The fuel supply must be done with the machine turned off.
- Drain condensate regularly if the compressor has a manual. In case of automatic drain check that this will happen in periods of no more than 10 minutes, daily check the operation with discharges manuals.
- When not using the mixer de-energize, never give tugging on the wires but use the plug to remove. Make sure that the cable does not throw against sharp edges or bent at an angle (in this case use extension cords).
- Periodically check the tightness.
- Do not repair damaged parts if you do not have spare Nardi compressors.
- Do not modify the machine unless expressly written permission from Nardi compressors.
- In case of visible wear and tear of any component, do not use it if it is replaced with an original and control that has damaged other parts of the machine.

2.04 GENERAL SECURITY:

1. The mixer-enabled, must be aware of all the rules and controls, machine tools, indicators and all the various tags.
2. Always have available material for the first aid kit, fire extinguisher and CO2. Make sure the fire extinguisher is always loaded and running.
3. Always disconnect the power cord when performing maintenance operations, never perform operations on it with the current submitted or during the work.
4. Close the adjusters and the taps on gas cylinders, before performing any maintenance or modification.



3.01 MIXER WARRANTY :

The MIXER of our production is guaranteed by NARDI compressors for a period of 12 months from the date of purchase indicated on the invoice and..

At the time of production and testing is a label that will make the machine complies with EC regulations and will report this symbol should be removed or altered the guarantee will lapse.

Because this guarantee to be valid, the purchaser has fulfilled the contractual requirements and that the mixer has been used as indicated by us and has not been tampered with by unauthorized or changes agreed and confirmed by NARDI compressors.

Not answered to the warranty:

- If the machine has not been used correctly (as described in this use and maintenance booklet)
- There is no guarantee on consumables and routine maintenance especially if used improperly.
- If original spare parts are not used NARDI compressors.
- If you use gases other than air, helium and oxygen.

The replacement of defective parts will be performed free of charge at the factory in Montecchio Maggiore of Nardi compressors or at the headquarters of our authorized dealers.

Repairs and replacements from NARDI compressors or authorized dealer within the warranty period, it extends the life of the same.

In case the repair is done outside the Nardi compressors, will be charged the shipping of spare parts (replacement of defective components must only be carried out by technically trained personnel that NARDI compressors or our staff prepared to evaluate the operator before it made the replacement).

If the piece needs a technician NARDI compressors, travel expenses and subsistence allowances shall be borne by the buyer himself.

3.02 SERVICE AND MAINTENANCE :

When ordering spare parts please contact or visit by our area dealers.

If you have difficulty in finding the piece, contact NARDI COMPRESSORS that will be available for any questions you may have and will put you in touch with the personnel.

If you want a maintenance or service, submit your request directly to:

NARDI COMPRESSORI srl

info@nardicompressori.com via tel. +39.0444.159111 o via fax +39.0444.151922

Should be made to the mixer controls, at least once a year by a specialized technician Nardi compressors, which checks the integrity, proper functioning and certifies that the electronic unit is in good condition.

4.01 UNPACKING AND HANDLING :

After opening the box, it is important to check if you have damage due to transport and, in the presence of these, it is important to notify the carrier and your dealer as soon as possible and in any event no later than 7 days after delivery.

The mixer is designed for easy handling, with reduced weight and dimensions contained. Is it possible to moving independently or with the help of another person. Wall mounting or wall, getting help from someone.

The mixer is equipped with mounting brackets with 3 holes on each side, and suggest using all mounting holes. Must be placed in a stable point.

The mixer is not waterproof and dustproof, ne we use in damp places, so as not to cause damage to the internal electronics. The switchboard is equipped with side slits that ensure internal air circulation. Do not clean with solvents to any part of the mixer, but only with a slightly damp cloth. If you go in contact with corrosive agents, it is recommended to clean the surface and protect it with protective anti-corrosion spray. Always make sure the electrics.

4.02 OUTDOOR POSITIONING:



To have a breathing air is very important that the mixer/compressor inlet is placed outside the room, then in the open air. The aspiration should not suck the exhaust of any internal combustion engine.

If the situation makes it impossible for this, you need to speak with an extension for the aspiration that must be fixed highest and farthest possible from harmful gases and away from flammable agents.

Continuously monitor the direction of the wind and engine fumes.

You must place the mixer in a cool place and protected from the weather.

4.03 INDOOR POSITION AND MINIMUM ROOM FEATURES:



The mixer is placed in a room, requires a continuous recirculation of breathable air.

Inside of it there should be no liquids can evaporate (solvents, additives, etc. etc.). In the room it is absolutely forbidden to smoke.

Must suck air polluted and should not place it near open Windows during its operation to ensure that the air circulation is to ensure the quality of the latter in the compression phase is to cool the compressor.

The minimum requirements of the room are as follows:

- The room temperature must not be less than 15° C and must not be higher than 25° C with a proper ventilation.
- The room must be clean and dry, there must be no dust deposits can be vacuumed from the mixer and from the compressor.
- If in the same room you posizionassero two or more machines ensure that the size is adequate.
- Place the mixer and compressor preferably in colder areas of the room. In the case of natural ventilation make sure that it is as close as possible to the fresh air intake and it has the appropriate dimensions. In addition to this there has to be an opening in the upper part of the room that gives the possibility to dispose of the hot air, and also has the appropriate dimensions. The two openings should not be on the same wall, otherwise you have to be sure to convey the hot air upwards.

4.04 SUCTION TUBE :

If you decide to place the mixer in a different area of the compressor, you can connect a hose to the compressor suction.

This tube is important to having a minimum diameter of 40 mm or higher. Be careful that it is not plugged or kinked so as to create a bottleneck and its end is recommended to place a filter. Check that the compressor does not go into depression, thus creating depression in the mixing tube, spoiling the sensors.

Once connected check the charging time of the cylinders in order to make sure that the compressor has not decreased the air made.

If you bring this fault check the hose because the compressor is going into depression and the causes can be:

- choke tube
- hose too long (in this case va increased the section).

4.05 CONNECTION TO THE MAINS ELECTRICITY SUPPLY :

For the electrical installation you should follow these steps:

- About this manual is shown the electrical control panel of the mixer that indicates how to connect to the mains. The mixer works with voltage: 230V 50-60 Hz
- Do check by an expert electrician that the system is in accordance with and to bear the maximum absorption of the mixer indicated on the CE label NARDI compressors.
- The mixer is equipped with a fuse near the power supply and i/o selector.
- Check that the current request voltage check from the compressor and the plug that you used is not undersized. The mixer is equipped with Shuko plug (German type) and cable with 1 mt connector. You can apply an extension cord if the cord is too short.
- Make sure the grounding is well connected on the plug.
- If you change the power cord make sure it is of a suitable size.

4.06 OXYGEN AND HELIUM TUBING CONNECTION TO THE MIXER :

The mixer is equipped with two entrances for oxygen and helium, marked by a special sticker placed alongside the fittings. To avoid small leaks or couplings, from where it's easy to think there is some outside gas output, we have equipped the two mixer ring, with a diameter of 8/6 which corresponds to a polyurethane or rilsan hose of 8 mm diameter and 6 mm inside. You unscrew the external nut and slips in the gas hose, then engages the inside of the tube to the fitting, looking good to push it up in the bar, and finally install the locking ring tightening it down. In this way the tube is firmly at the junction and there will never be problems gas losses.



4.07 OXYGEN AND HELIUM TAPS :

The taps (fig. 14a) and the pressure regulators (fig. 14b) located above the oxygen cylinders and helium, must conform to the gas used. Closing faucets of high-pressure gas cylinders (fig. 14a), must be completely unscrewed (fully open) when the mixer is operating, and should be closed when the Blender is not running.

The pressure regulators (fig. 14b) must be closed at the time that you open the tank valve, and you have to adjust the pressure with caution putting a pressure which is between 2 and 6 Bar (the regulator setting we see in Chapter 6). It is very important that the pressure regulators we have a range of at least 800 l/min at a pressure fig. 14a of 4 Bar. As we will see in Chapter 6, based on the length of the tube that goes from the pressure reducer to the controller, we will also calibrate the proper pressure reducer, which is not too low or too high.



4.08 MANDATORY INTERFACE WITH PC(N-MIX AND T-MIX MODEL) :

In models N-and T-MIX MIX, to exploit fully all the priming tank mode, gas costs to make a recharging, extended alarms

view and we connect mixer settings to a PC via port Ethernet (RJ45) located at the base of the Blender, using a normal network cable cross. But first we need to install NardiBlender software on your PC that will be supplied with the mixer and self-installing program just click NardiBlender icon, and then click next to complete the installation. Start the software and enter the settings, click Edit, and change the IP address 192.168.0.100 (fig. 15 c) and click OK. Close the software.

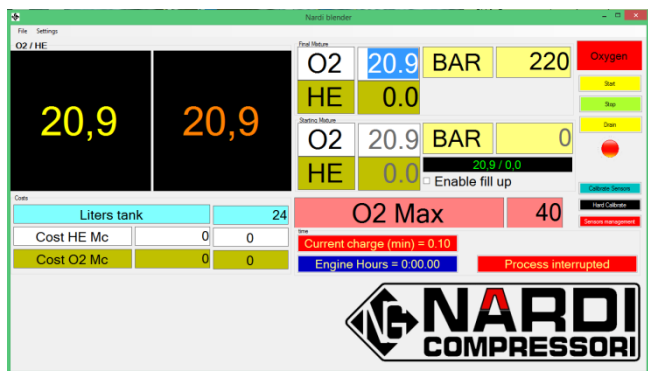


Fig.15a

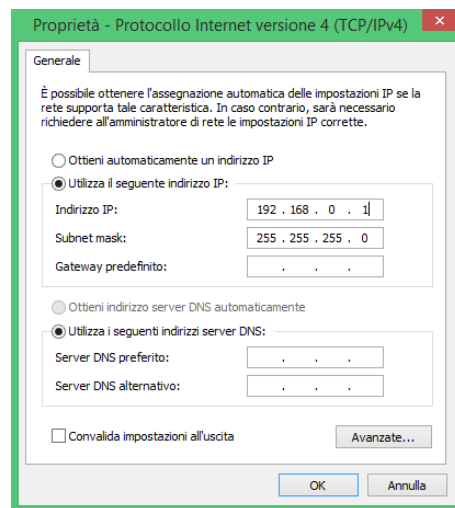


Fig.15b

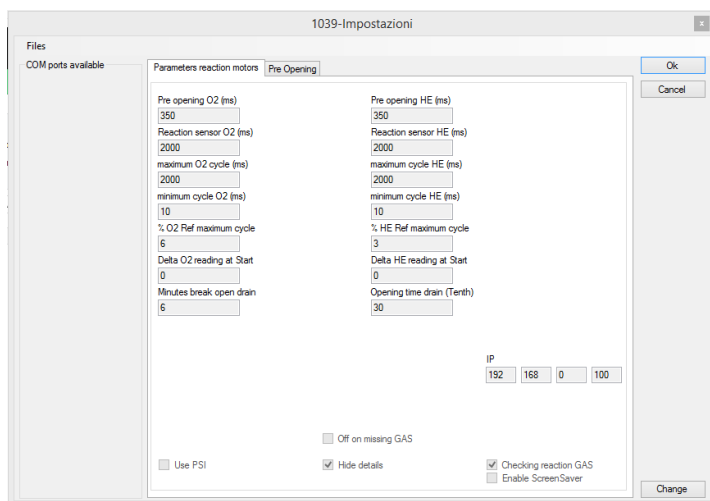


Fig.15c

At this point we need to use the network port of the PC, and go in the network settings of your PC.

In:

- Internet Protocol vers. 4, you have to flag as in Fig. 15b and enter the IP 192.168.0.1
- Press OK

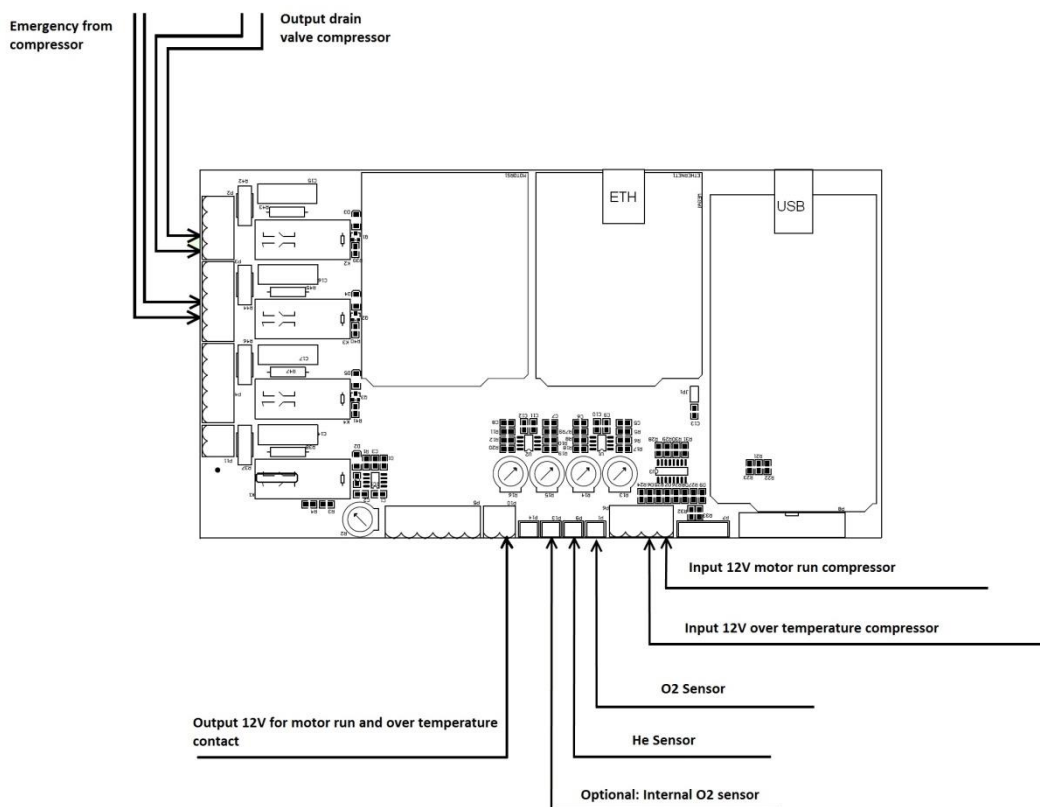
We can now restart the software NardiBlender and if the communication is running, you will see a bullet colored on the right that change color continuously as shown in Fig. 15. To look at Chapter 6. If communication does not work or you lose your communication for any reason, the cue ball stops to change color or disappears.

4.09 EXTERNAL DEVICE :



It is obligatory to connect the mixer with the compressor that you are using to make the mix, thanks to

a series of contacts and safety alarms that are described below.



Emergency compressor Series: If the compressor is equipped with a contact for any type of alarm you connect it to the terminal as shown in the figure. In the event of an alarm, the compressor automatically stops the mixer, which will display the alarm from the compressor.

EV bleeding compressor Command: If we connect the ev compressor condensate drain. It is mandatory to put a relay interface, before the condensate drain coil ev, because the power supply of the mixer cannot withstand a power consumption too high.

12V compressor motor Input on: From the mixer to start mixing. This security is connected to the mixer that starts only when the compressor is running. It is obligatory to connect the compressor via relay, or electronic card (if provided on the compressor) or via relay 380V connected directly to the motor of the compressor.

12V Input excessive compressor head temperature: Must be connected with the thermal sensors (no contacts) on the compressor head. Stop mixing when the temperature is too high.

4.10 MODEM INTERFACE (only model TT-MIX) :

The model TT-Mix, having the touch screen monitor which displays the NardiBlender software, does not have the ability

to connect directly to the PC, but it needs a modem where connect both Network RJ45 outputs, and then connect the PC to the modem (via LAN or via Wi-fi). The network connection is done through specific IP, and here we explain how to make the entire procedure.

Configuration Router for external access

Introduction

The controller has 2 processors with 2 network addresses: a processor (hostname: "blender-cpu") serves to manage the upload and the other (hostname: "blender") handles the user interface with a touch screen.

Standard IP configuration

The unit is delivered with a static IP configuration and an "ethernet cross cable connects the two processors.

The processor "blender" has static IP 192.168.0.99

The processor "blender-cpu" has static IP 192.168.0.100

Opening from the touch screen interface and settings by pressing "edit parameters" 2 times, appear the "STATIC" and "DHCP" to define the IP mode of the controller. Pressing the "STATIC" the controller is set in the original configuration, pressing the button "DHCP", the controller, after its restart, should be connected with both processors to a router that handles IP and internet connection.

NAT configuration – Virtual Server (example configuration on router TPLINK)

Interfaccia	Quick Start	Configurazione Interfaccia	Impostazioni Avanzate	Gestione Accesso	Manutenzione	Stato	Aiuto
	Internet	LAN	Wireless				

IP locale router	
Indirizzo IP :	192.87.6.1
IP Subnet Mask :	255.255.255.0
Route dinamica :	
Multicast :	
IGMP Snoop :	

DHCP	
DHCP :	☐ Disabilitato ☒ Abilitato ☐ Trasmesso

Server DHCP	
Indirizzo IP iniziale :	192.87.6.10
Contatore Pool IP :	
Lease Time :	
Porta fisica :	

Tabella DHCP				
Hostname	Indirizzo IP	MAC Address	Stato	Tempo scaduto
blender-cpu	192.87.6.100	DE:AD:BE:EF:FE:ED	Statico	N/A
blender	192.87.6.99	B8:27:EB:B0:41:7B	Statico	N/A

The first thing to do is define a static IP from the router to both processors within the DHCP table. Note that the IP addresses specified in the pictures are just examples.

Avanzate
 Quick Start
 Configurazione Interfaccia
Impostazioni Avanzate
 Gestione Accesso
 Manutenzione
 Stato
 Aiuto

Firewall
 Routing
 NAT
 QoS
 VLAN
 ADSL

Server Virtuale
 Server Virtuale per : Account IP singolo
 Indice Regola :
 Applicazione :
 Protocollo :
 Numero porta iniziale :
 Numero porta finale :
 Indirizzo IP Locale :

Lista Server Virtuale

Regola	Applicazione	Protocollo	Porta iniziale	Porta finale	Indirizzo IP Locale
1					
2	Blender	ALL	8080	8080	192.87.6.99
3	SSH	ALL	22	22	192.87.6.99
4	Teleservice	UDP	8001	8001	192.87.6.100
5	Remote Desktop	ALL	5900	5900	192.87.6.99

Then some Virtual server must be configured ("NAT-> VirtualServer") to define what are the ways in which the controller interacts with the outside world.

In the image above the lines serve the following purposes:

Row 2: Enables handling of web browser from an external source e.g. a mobile phone. To connect to the control unit, you must write your phone's in the address bar `http://ip_pubblico:8080` where "ip_pubblico" is the IP address provided by your ISP.

Row 3: Enable the on-access company to make updates/UI controls/touch screen.

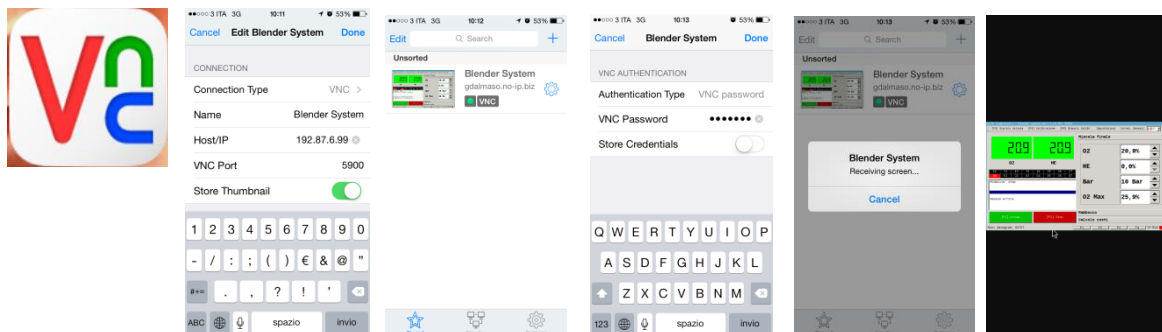
Row 4: Enable the tele-service of the company offering the possibility for it to download or to intervene on parameters and view real-time charging processes

Line 5: Enable screen sharing via a Vnc server. The standard password for the remote desktop connection is "blender" in case the customer wants to change that password should contact the manufacturer.

You can download App like VNC Viewer or Remotix Lite (free App).

N.b: it is not possible to have more than one simultaneous connection to the remote desktop (VNC server).

Below we provide the graphic illustration of an example of connection with Smartphones.



5**STARTING AND USE****5.01 PREPARATION FOR START:**

This machine is designed for mixing oxygen and helium/oxygen to air before compression into the compressor. It is forbidden to change the mixer making mixtures other than those described. An intake/compression percentages greater than 40% oxygen or other gases can lead to rupture or EXPLOSION of the compressor, it is therefore necessary to put safety devices on the compressor, as temperature probes on the headboards and the consent of the compressor to the mixer, to begin to mix..

All mixers are tested by NARDI COMPRESSORS before being sold, but for the ignition, you must follow these steps:

- Before turning on the machine, all the people who will be using the mixer must carefully read the owner's manual.
- If the mixer has remained stationary for a period exceeding twelve months, replace the oxygen sensors.
- Check that gas cylinders there is sufficient pressure to make the desired mixture
- Check the perfect functionality of the compressor.
- Check that the suction strainer of the mixer or the compressor is in good condition, otherwise need replacement.

5.02 CALIBRATION OF THE PRESSURE REGULATION ON GAS CILINDER:

Calibration of pressure regulators, is the only adjustment that must make the operator, because it should be according to the length of the pipe that goes from gas cylinders to the mixer. According to the length of the tube forms a gas flow impedance to the mixer, then you go to act on their own to pressure not to create problems to the mixer.

This adjustment must be made when first installing the mixer, and once you have centered the optimum pressure for both oxygen and helium, the pressure regulator does not touch you any more. We recommend starting with a pressure of 2 Bar for both gas. The adjustment is made during the first charging cycle with the gas. Situations that can be found are two:

Situation with too much inlet pressure;

Situation with insufficient input pressure.



When we have too much pressure in the entrance, you'll see an "up and down" of gas percentage value (always during the mixing cycle and charge cylinders), and as a result the CPU will struggle to stabilize the mixture. In this case you should decrease gradually and in small step, the input pressure of the gas in question, until the rate stabilizes and turns green on touch screen monitor or PC.

When we have little pressure inbound, the desired mixture will struggle to reach the set value, or indeed there will come right (and therefore will give the Gas Control alarm). In this case we must gradually increase and small step the input pressure of the gas in question, until the rate stabilizes and turns green on touch screen monitor or PC.

Once centered optimal pressure of use of the controller, we can begin to make any kind of blends and recommend that you mark with a felt-tip pen pressure on the pressure gauge (in the event that for any reason from moving accidentally).

5.03 POWER MIXER:

After checking that the wiring is correct and that there is voltage in the mixer that we switch on the compressor, mixer with the i/o button placed at the base of the blender. The first screen that appears will be the "Home". The LCD will display the inscription Nardi Mixer and then go into the "Home" screen where you see the oxygen sensors and helium and the mixture set.

When the mixer is stationary, the Green led flashes as a sign that the mixer is ready to make the mixture. If the Green led does not blink, it means getting my closure of internal taps and will begin to blink as soon as ready.

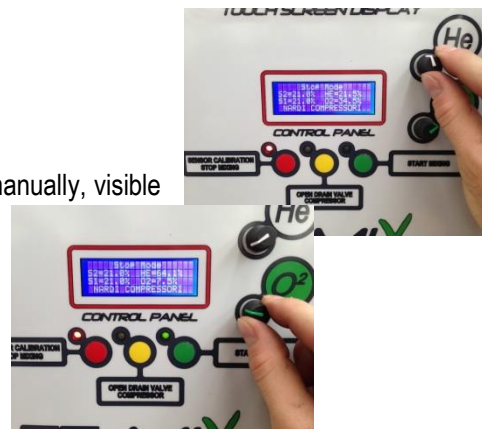
The yellow button serves to make the condensate drainage (if connected to the compressor) either manually or automatically by changing the settings.

The red button is used to stop blending at any time, to stop mixer, clicking once, makes the calibration of sensors (which must be done every time before mixing).

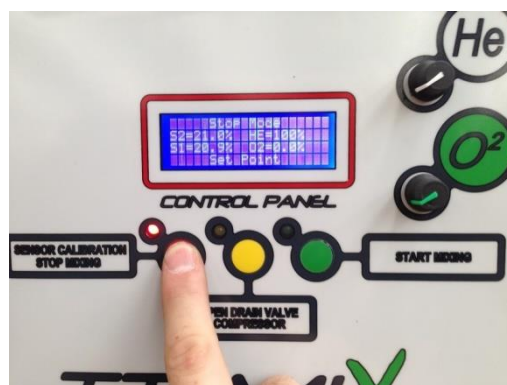


The two helium and oxygen regulators placed laterally, serve to adjust the mixture manually, visible on the LCD display. The program allows you to do a higher oxygen blend of 52%. Warning: to correctly adjust the two percentages of gas before pressing START MIXING.

Warning: before pressing START MIXING switch on the compressor and run for at least two minutes and calibrate the sensors as described below.



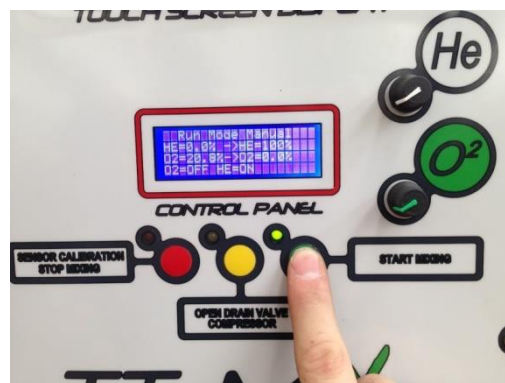
When you run the calibration of sensors, the Red led stops flashing and remains fixed them bright. The display shows the text "Set Point". The calibration should be done when the compressor is on, sucking clean uncontaminated air and waiting at least two minutes after being switched on, just to stabilize sensors.



At this point, we can press the green button "START MIXING" to start the mixture.

Of course, before the mixture fills the compressor and filter Assembly can pass a few minutes, so please wait a bit before closing the vent the compressor and open the cylinder to reload.

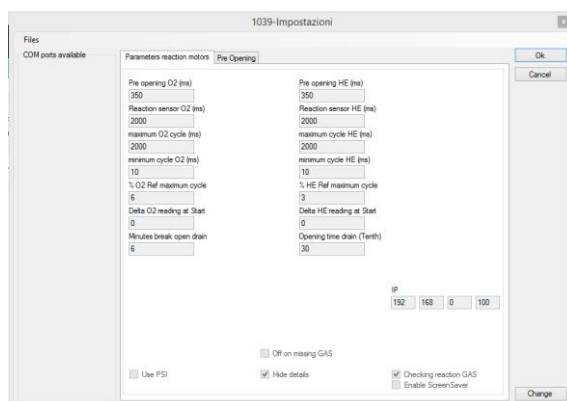
The manual describes the operations to be done assuming that the operator already know what to do and then have adequate preparation of gas mixing and compression of gases.



5.04 PROGRAMMING BY PC:

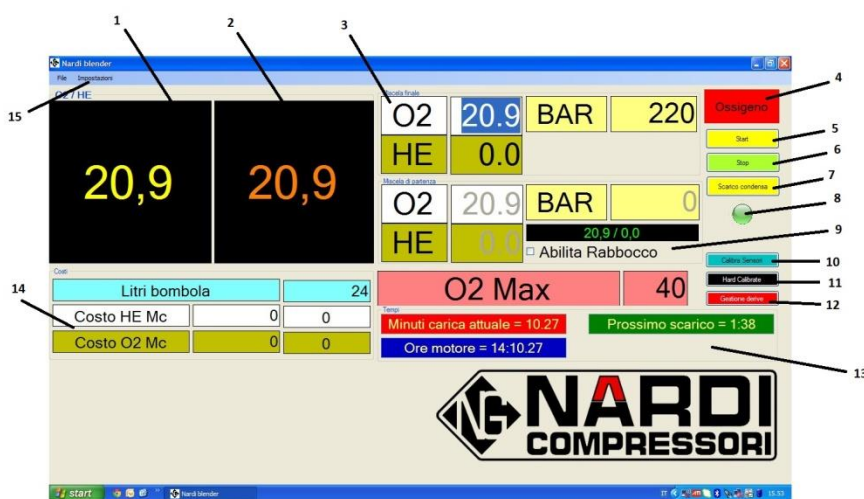


It is compulsory to use the PC for the first installation, to get a clearer view of how the mixer prepares mixtures, and thanks to NardiBlender software you can see in a simple and intuitive. Settings for adjusting the mixer's movements, have already entered by default, as shown in the figure below.



On the Home screen on the other hand, we have all the data you need to enter to make the mixture:

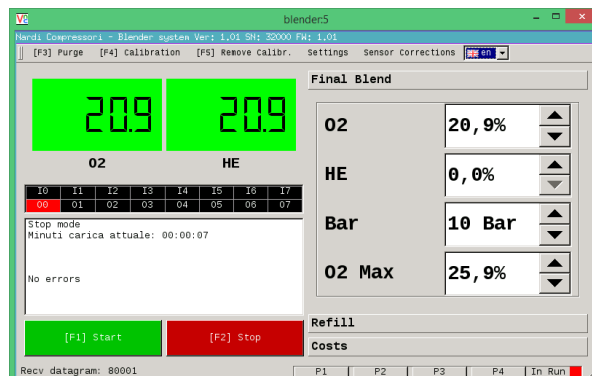
1. Oxygen mixture Percentage
2. Helium mixture Percentage
3. The final mixture Setting
4. The presence of oxygen
5. Start mixing
6. Stop mixing
7. Condensate drainage
8. When communicating with mixer
9. Enabling topping mixture
10. Sensor Calibration
11. Forced Calibration (do not use)
12. Derive Management (do not use)
13. Compressor Information
14. Fuel Costs
15. Mixer Settings



5.05 MIXER PROGRAMMING THROUGH TOUCH SCREEN:

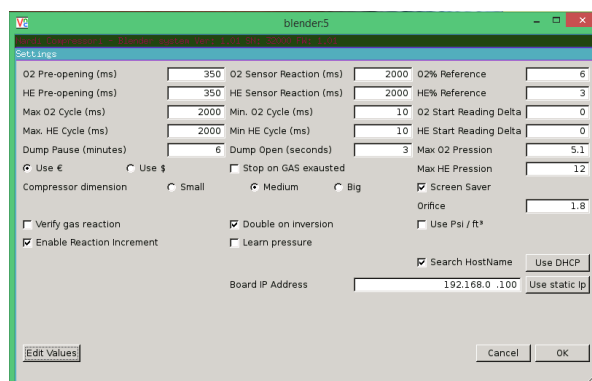
Home Screen:

from this page we all start and stop mixing the mixture, replenishment, cost calculation, calibration of sensors, valve condensate discharge and monitor easily and clearly defined the mixture



Settings:

the mixer settings are default, can change only a qualified technician to install the mixer. By pressing twice on the touch screen the button "edit values" you can access all the setting of the controller.



5.06 TARATURE OXYGEN SENSOR:

The tarature of the sensors is made by Nardi Compressori at the time of testing. The calibration of the sensors is never touched by the end user. Only a qualified electrician can change the calibration of sensors, where it deems appropriate. When you replace the oxygen sensors, calibration remains equal to the previous one, and should be redone only calibration.

5.07 OXYGEN SENSOR CALIBRATION:

The sensors of the helium and oxygen are both oxygen sensors. On the basis of a precise calculation, the sensor reads the difference of oxygen in various passages, and then communicates to the value that the switch to a real value easily readable. To ensure optimum reading, we recommend that you replace the sensor at least once a year.

Sensor calibration should be done when the compressor is on, sucking clean uncontaminated air and waiting at least two minutes after being switched on, just to stabilize sensors. Once stabilized, pressing [F4] Calibration on the upper part of the display or by pressing the red button and calibration reports both values to 20.9 (percent).

It is advisable to perform this calibration operation, with each new mixing, to ensure a more precise mixture.

It is compulsory to use the sensors supplied by Nardi compressors.

Do not replace the sensors with a similar model or not supplied by Nardi compressors.

Oxygen sensors are electrochemical type cells, and it is for this reason that calibration should be done often and, when possible, replace the sensor. The mixer has been designed to mix the air in a way that reaches the sensor already mixed to perfection, then to make the best reading.

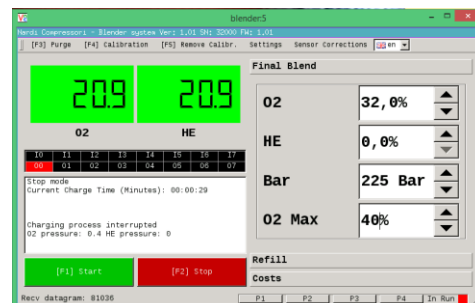
5.08 MAKE A MIXING WITH TOUCH SCREEN DISPLAY :

At this point, after checking that the installation is made to perfection and that settings have been entered, we are ready to make a Nitrox or Trimix mixture, placing the parameters directly on the touch screen.

NITROX MIXTURE

From the "Home" screen insert the data serving to the ECU to calculate the final blend, as in figure, I'll set the oxygen percentage you want, leave the value 0.0% helium, put the final pressure of the cylinder to reload (in this case 225Bar) and finally enter the maximum percentage of oxygen which, in case of malfunctioning, stop mixing closing solenoid valves.

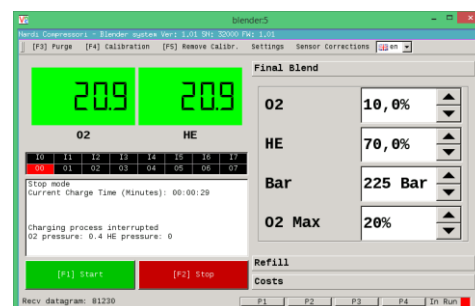
At this point, turn on the compressor and press "start" on the mixer.



TRIMIX MIXTURE

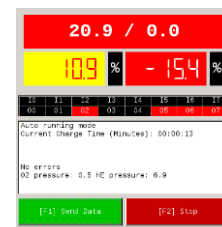
From the "Home" screen insert the data serving to the ECU to calculate the final blend, as in figure, I'll set the desired oxygen percentage, set the percentage of helium, put the final pressure of the cylinder to reload (in this case 225Bar) and finally enter the maximum percentage of oxygen which, in case of malfunctioning, stop mixing closing solenoid valves.

At this point, turn on the compressor and press "start" on the mixer.



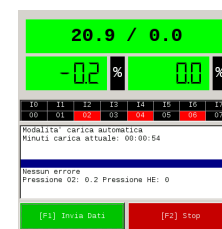
START MIXING

After pressing "start", the mixer brings the mixture to desired percentage, and will remain the red indicator as shown in the figure until the stabilization. In this phase of stabilization, the mixture produced must be discarded and then made out from the drain, from a vent or an additional tap. If the stabilisation time is too high, the mixer gives a gas leakage alarm, and this may be due to a low pressure gas input, or the gas cylinder is now complete.



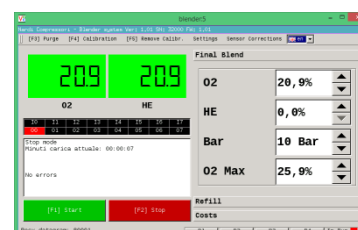
STABLE MIXTURE-START CHARGING CYLINDER

When the mixture is stabilized, the display will turn green as shown in the figure, and at that point you can open the cylinder, close the vent and begin charging Nitrox or Trimix.



MIXING END

After mixing, the compressor switches off and sends the signal to the mixer that charging is finished. The mixer stops the mixture and return to the "Home" screen ready to run another refill. Before making another charge, wait a few seconds the Green led flashes comedians button; This is the signal that the mixer is ready to mix.



5.09 PROCEDURE TO PERFORM NITROX AND TRIMIX MIXTURE MANUALLY:

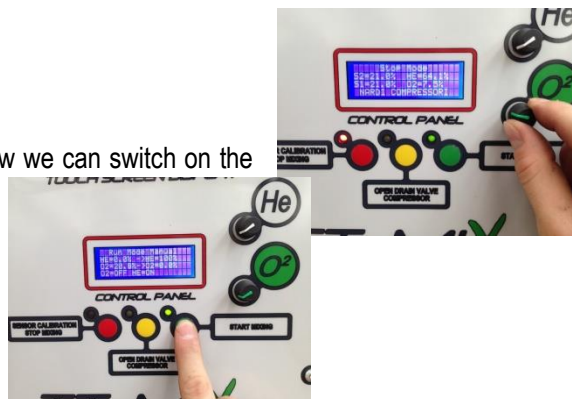
We can use the mixer in manual mode, i.e., by setting the blend directly with the knobs to control the LCD side, as shown in the figure.

NITROX MIXTURE

We set up directly with the percentage of oxygen that we want to enter, and we bring to 0 percent helium. Now we can switch on the compressor, press the Green "STAR MIXING" and wait for the display to stabilize.

At this point we can open the charging cylinder.

At the end of the mixer mix switches off automatically, if connected to the compressor. If you want to stop mixing, Press the red button "STOP MIXING"



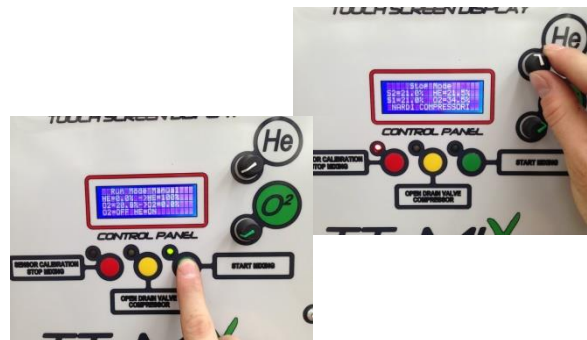
TRIMIX MIXTURE

We set up directly with the percentage of oxygen and helium that we want to insert.

Now we can switch on the compressor, press the Green "STAR MIXING" and wait for the display to stabilize.

At this point we can open the charging cylinder.

At the end of the mixer mix switches off automatically, if connected to the compressor. If you want to stop mixing, Press the red button "STOP MIXING"

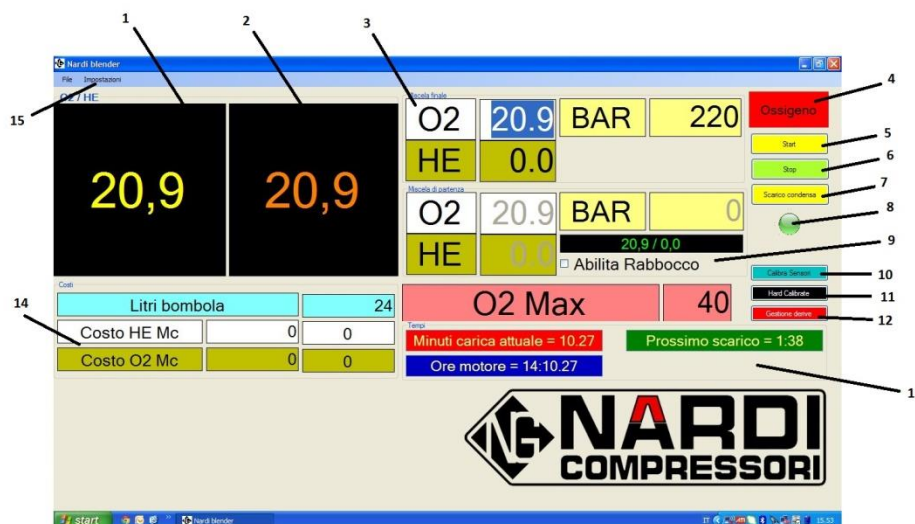


If the drain is connected to the mixer by pressing the yellow button, we can vent the initial mixture in this manner, and once she is stabilized the mixture, press the yellow button and close the drain and fill the tank.

It is possible to modify the timing of drain, through the settings on your PC or touch screen.

5.10 HOW TO PERFORM NITROX AND TRIMIX MIXTURE WITH PC OR NETBOOK:

If we connect the PC or NetBook to the controller, we can control everything using the NardiBlender software.



From this page you can manage all the operations, set the percentage of oxygen and helium for the final mixture (3), check the status of the mixture (1.2), set a topping of a pre-charged tank entering the cylinder already mixed data (9), check the status of oxygen (4), start buttons mixture, stop and drain mixture (5, 6, 7), check the communication between the PC and the mixer (8) management, sensors (10, 11, 12), information about the charging status, the status of automatic condensate drain and compressor engine hours (13), automatically calculate the cost to run a gas charge, by entering the gas cost in €/mq.

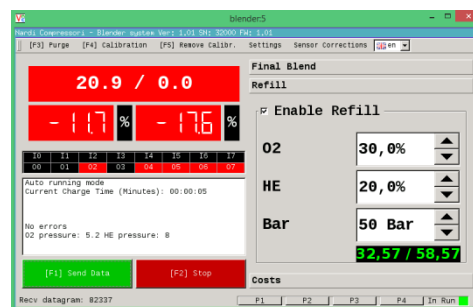
To make a mixture, follow the instructions on the touch screen to Chapter 5.08.

5.11 HOW TO RUN A FILLING OF A CYLINDER:

If we had a pre charged cylinder of air or Nitrox or Trimix mixture, we simply make a topping by entering the required data in the section refilling. We can also do a refill from a initial mixture different from final mix that we want. In practice, if we have a cylinder loaded with Nitrox 32%, and instead load it with 36%, we simply insert the requested data, and the controller will do everything automatically for bring the mixture from 32% to 36% of the final mixture. This can be done also with Trimix blends: If we have a 20/50 blend with 80 Bar in the tank and we want to bring the mixture to 30/70 to 225 Bar, simply enter the details of the final mixture and topping, and even in this case the unit will do everything automatically. If the priming mixture cannot do, the mixer will notify the operator that the mixture cannot be executed

SET A TOPPING

First, you must set the final mixture, then enters the window of topping, you click on Enable topping and finally fits: the percentage of oxygen and helium we have in the bottle to refill and the cylinder pressure, always from refill. You press start and you run a normal mixing. The mixer will mix these values, to have as final mixture that you want.

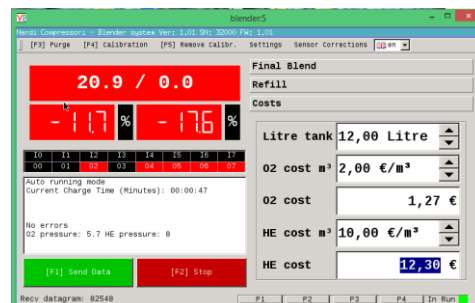


5.12 MIXTURE GAS COST CONTROL:

In the section "Cost Calculation", the Blender will automatically calculate the cost of oxygen and helium which is used to refill a cylinder. These costs are given by the percentage of oxygen and helium that you enter in the tank in relation to final pressure charging and the capacity of the cylinder to reload.

COST CALCULATION

To get a recharge costing accurate, we need to insert some data: the capacity of the cylinder to reload, expressed in litres; the oxygen cost \$/mq and the cost of helium in €/mq. The precise total you can read in Total rows o2 and He.

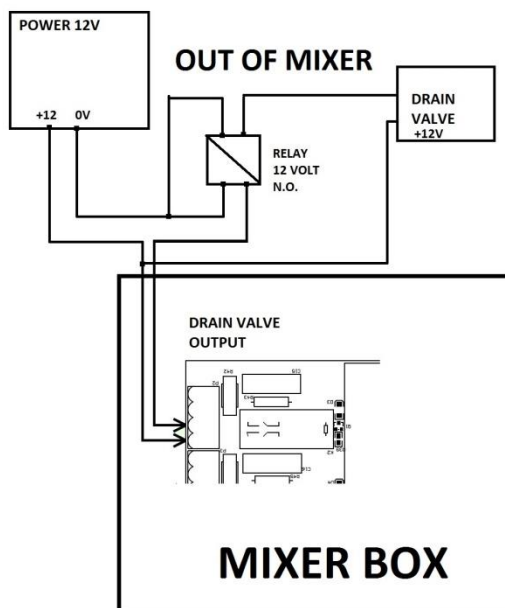


5.13 MIXER CONDENSATE DRAIN VALVE (IF CONNECTED):

Following the wiring diagram on page 4. 16, we see that it is possible to connect the condensate drain pipe from the compressor to the mixer, which will handle the opening and closing. Also will remain open until the mixture has stabilized, dumping the tailpipe initial exact mixture.

In the figure, describes one of the ways that you can connect the condensate drain, so that it is commanded from the mixer, but it is powered by a separate power supply current of mixer.

In this way we can manage the automatic compressor condensate drain, directly with the mixer.



5.14 DISPLAY ALLARM:

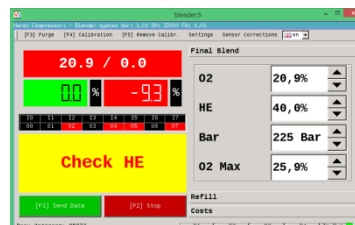


The mixer is equipped with alarms to the operator's safety and for the safety of mixing.

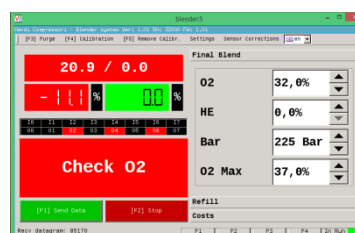
The touch screen and the PC, display alerts in a very visible, the LCD display shows the alarms as sentence Error and the error number, Error type 1.

The following list describes the alarms:

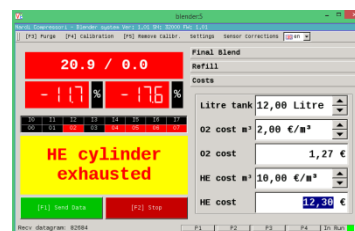
CHECK HE: check if the gas cylinder is there enough pressure to run the mixture, or check the helium plant to check for leaks.



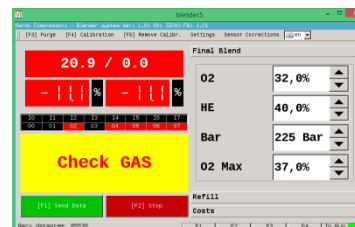
CHECK O2: Check if the gas cylinder is there enough pressure to run the mixture, or check the oxygen system to check for leaks.



The BOTTLE HE SOLD OUT: after a few seconds the alarm control helium appeared, Cylinder HE appears exhausted, because the pressure the cylinder is under sufficient pressure to run the mixture



CHECK GAS: a gas pressure control, if there is enough gas for blending or if the inlet pressure is too high.



Also the touch screen display, tell if the compressor is switched on or off. If it is off, you will see an inscription "compressor OFF."

On the other hand, LCD error codes reported are as follows:

ERROR 1: compressor off. The compressor is not turned on, so don't get the consent to the controller to be able to leave with the mixture.

ERROR 2: excessive motor Current oxygen. Means that there is a malfunction of the engine or the tap unit that regulates the flow of oxygen.

ERROR 3: excessive motor Current helium. Means that there is a malfunction of the engine or the tap unit that regulates the flow of helium.

ERROR Opening solenoid valve 4: non-Oxygen. Means that the oxygen solenoid valve did not open the gas flow for some reason.

ERROR 5: non-Oxygen valve Closure. Means that the oxygen solenoid valve did not close the gas flow for some reason. Immediately close the oxygen regulator on the gas cylinder.

ERROR 6: TRIMIX Programming not allowed. Means that the mix Trimix submitted, you cannot make it for the percentages of oxygen and helium wrong.

ERROR 7: anomaly found in compressor. It is a signal that is sent from the compressor in the event of any malfunction or the latter, for a problem concerning only the compressor.

ERROR 8: gas pressure in the cylinder is missing. The pressure of gas cylinders is not sufficient to run a mixture or to finish a mixture.

ERROR 9: Stop by the remote device. Appears when you stop the mixer with a remote device, Smartphone type or networked PC web.

5.15 TROUBLESHOOTING:

PROBLEM	BECAUSE	RIMEDY
The mixer will not turn on	- No electric current - Check fuses - Electric current too low	- Power line Control - Replace defective fuse - Power line Control
ERROR 1	Compressor switched off	- Switch the compressor - Check wiring
ERROR 2	- The faucet you are stuck - The electric motor is dead	Call a technician Nardi
ERROR 3	- The faucet you are stuck - The electric motor is dead	Call a technician Nardi
ERROR 4	- Low supply Current - Oxygen Pressure too high - Solenoid valve blocked	- Check the current voltage - Lower the pressure of the oxygen - Call a technician Nardi
ERROR 5	- Oxygen Pressure too high - Solenoid valve blocked	- Lower the pressure of the oxygen - Call a technician Nardi
ERROR 6	Values not allowed	Insert the values allowed
ERROR 7	Compressor problem	Check the compressor
ERROR 8	Low Gas	Replacement gas cylinder
ERROR 9	Stop remote device	
The mixture is struggling to stabilize (the percentage does leaps and stabilizes the mixture)	Gas Pressure too high which is stable	Slowly lower the gas pressure which does not stabilize until the proper pressure

5.16 SPECIAL WASTE DISPOSAL:

Disposal of components must be done in accordance with the rules in force in the country of installation.

6

QUICK START GUIDE



READ CAREFULLY the CHAPTER 2 " SAFETY PRECAUTIONS " BEFORE PROCEEDING with the mixture. This quick guide does not replace in any way the libretto, but serves to indicate to the operator the steps quickly, and only after reading the entire manual.

After making all the checks described in the booklet, the steps are as follows.

BEFORE MAKING A MIXTURE:

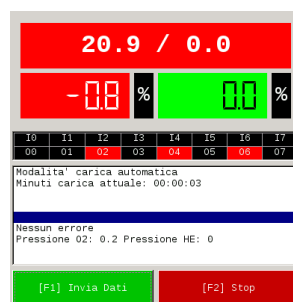
1. Check that the gas cylinders there is enough pressure to make the desired mixture.
2. Check that the gas pipes are not damaged.
3. Check that the compressor is intact and functioning, and that has been done periodic maintenance.
4. Open slowly the gas cylinders, oxygen and helium and check the gas outlet pressure.
5. Turn on the mixer and let it load the touch screen software, or connect the mixer to the PC and check the connection.

MIXING TIME:

1. Set in the mixer the final mixture type that you want to do, by entering the data of oxygen, helium, and oxygen pressure rating. (If you want to make a filling, enable the filling with the flag and enter the required details of pre-charged tank).

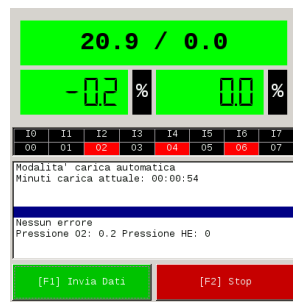
2. Turn on the compressor with the tank valve to reload, and a closed open faucet that downloads the compressed air into the room.

3. Run the compressor for about 2 minutes without mix and compressor on, do the calibration of sensors with the red key or via touch screen or PC (pursuing normal air, sensors should give a value of 20.9 percent). Cliccare "Avvia" sulla centralina, per cominciare la miscelazione. Sul display appariranno i valori rossi, fino a che la centralina non arriva al valore impostato e si è stabilizzata. Fino a che il display rimane rosso, lasciamo che la miscela compressa dal compressore, vada a perdere, altrimenti ci troveremo con una miscela errata nella bombola di ricarica.



4. Click "start" on the control unit, to begin mixing. The display will show the values red, until the unit does not reach the value set and stabilized. Until the display remains red, let the mixture compressed by compressor, go to lose, otherwise we will have with a mixture incorrect in charging cylinder.

5. When the display turns green, as shown in the figure here side by side, let the mixture disperse for other 30 seconds, so that saturate the mixture compressor. Passed 30 seconds (or less), open the cylinder to reload and close the tap that we used to disperse the air. At this point the mixer to mix proceeds independently, and completes the Nitrox or Trimix mixture set.



6. Once charging is complete, the compressor switches off and if the compressor is interfaced with the mixer, the mixer will stop and give you a message saying "mixing concluded". If the mixer is not interfaced with the compressor must be at the end of charging press the "Stop" button to end the call manually.

END MIXING:

1. Check that the mixer is in "Stop".
2. Close gas cylinders oxygen and helium.
3. Disconnect the charger from the compressor cylinder and allow it to cool for at least 10 minutes.

4. CHECK THE FINAL MIXTURE IS OBTAINED, WITH A CERTIFIED GAS ANALYSER. IT IS IMPERATIVE THAT YOU ANALYZE THE MIXTURE OBTAINED BEFORE MAKING A DIVE. THE RESPONSIBILITY OF ANALYZING THE MIX IS MADE, IT IS TO BE BORNE BY THE END USER AND THAT'S IT.

5. Before performing another mixture, repeat all the steps described in the quick start guide, starting from "BEFORE MAKING a MIXTURE".

Recall that the mixing of the gases must be made by skilled personnel with all the knowledge about gas. The operator is responsible for mixing of the mixture of the mixer, mixer and maintenance of proper use of the mixer. Must know how to deal with any risks and dangers, and must communicate in a timely manner to the technical problems, Nardi, failure, gas leaks or any doubt may arise with the use of the ECU Nardi Mix.

The mixer will leave you more time to do other things with a nice saving of time and money, in addition to being sure that the final mixture is correct.

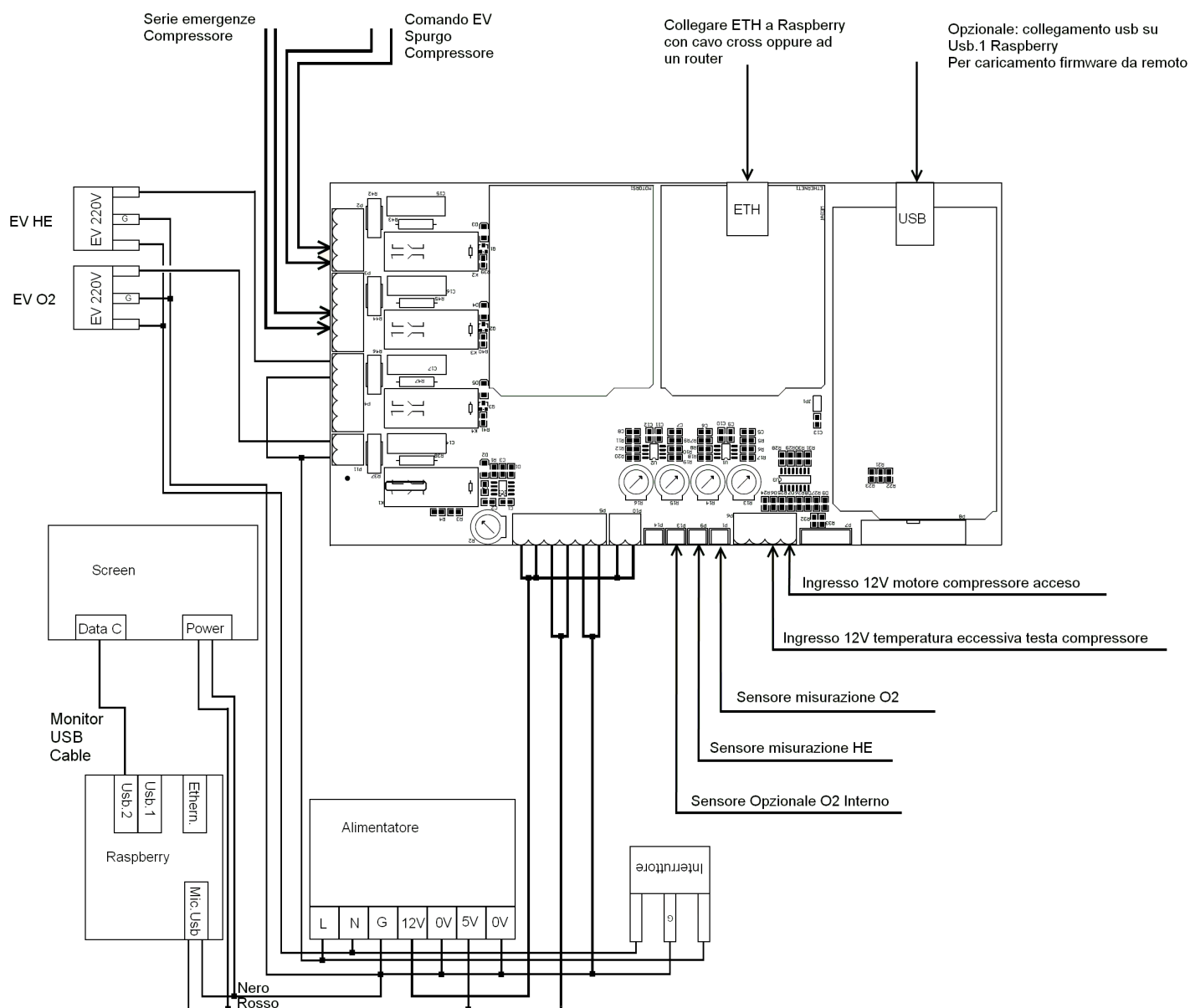
Thank you purchase again, rest assured that you will be satisfied with our new product.

7 SPARE PARTS

PA111-030 OXYGEN SENSOR FOR MIXER



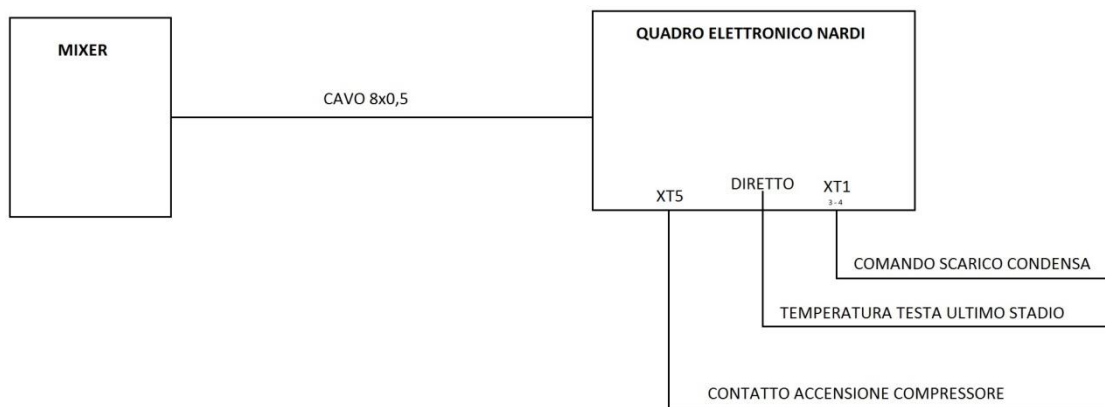
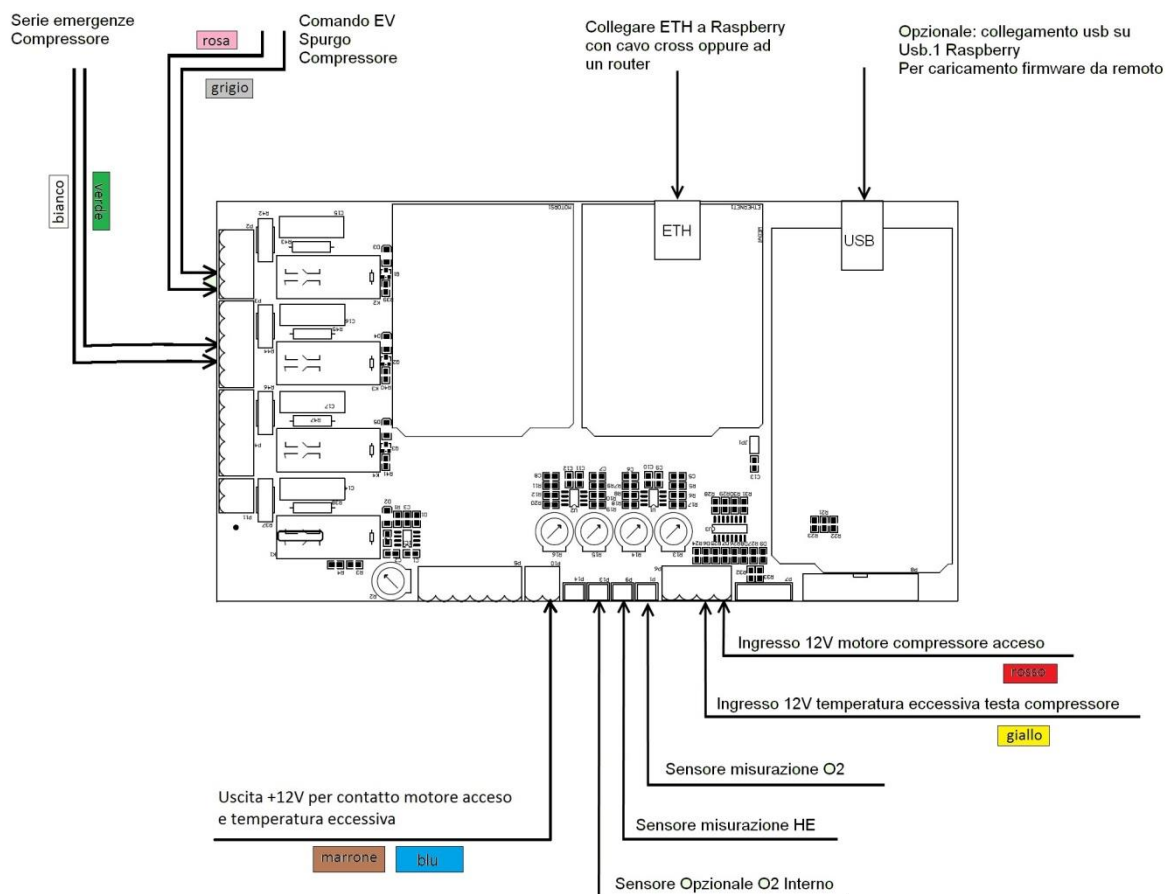
8.01 FULL WIRING DIAGRAM:

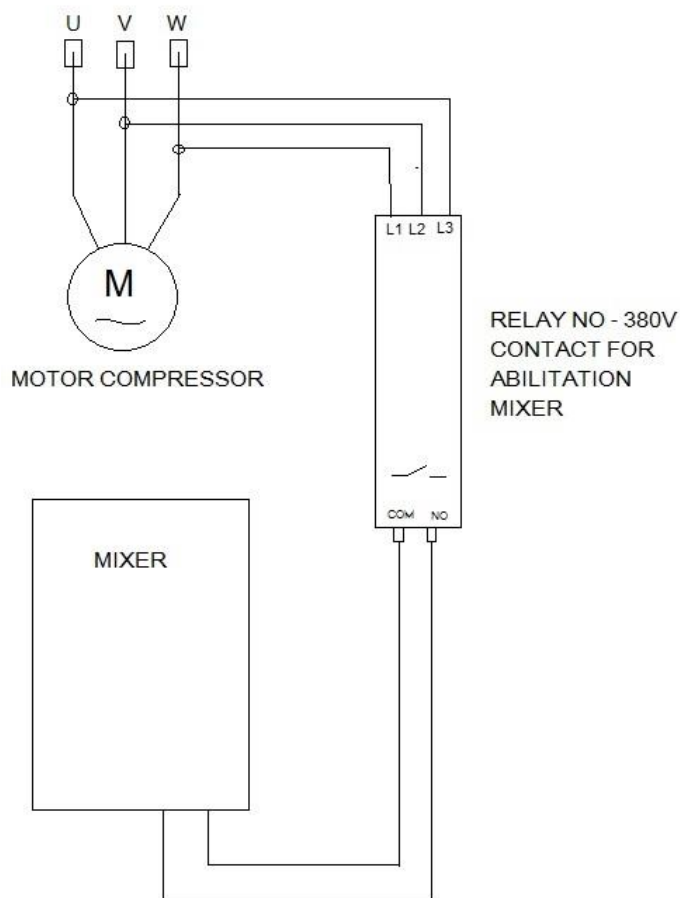


8.02 WIRING DIAGRAM WITH SWITCHBOARD NARDI:

COLLEGAMENTO AL QUADRO ELETTRONICO NARDI

CAVO UTILIZZATO: MULTIPOLARE 8 x 0.5 SCHERMATO





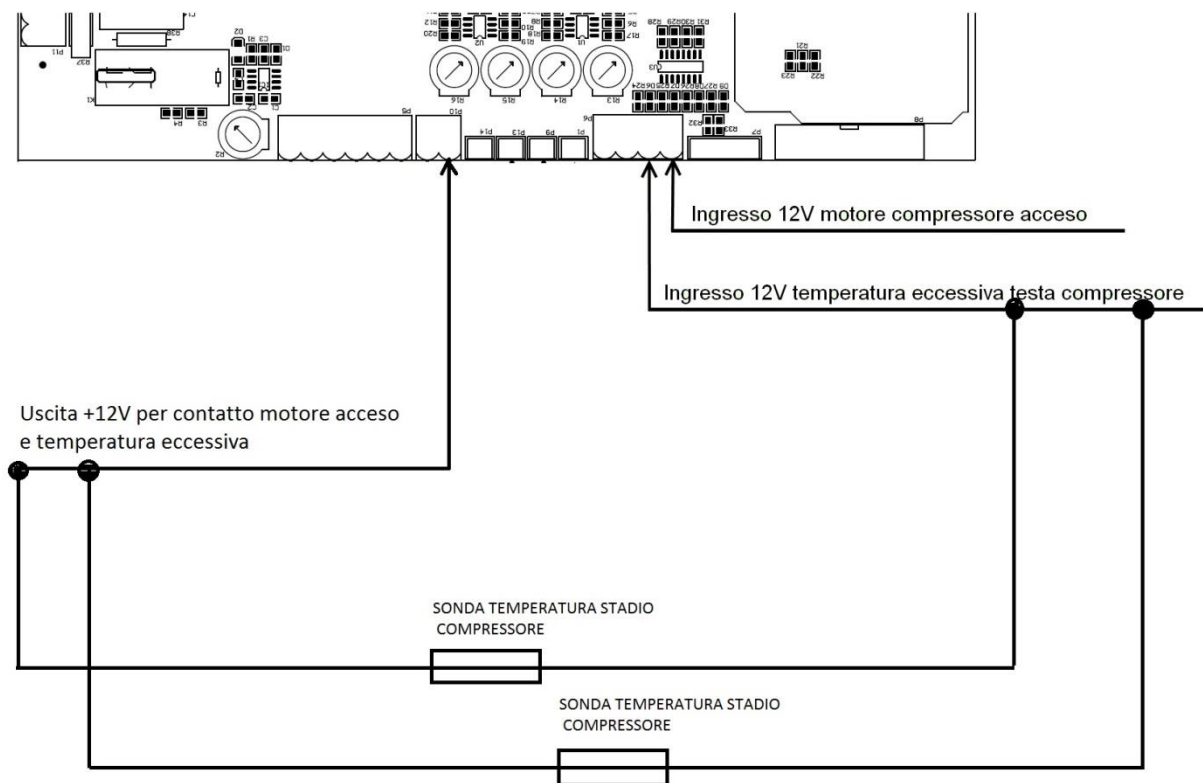
8.03 TEMPERATURE PROBE FOR COMPRESSOR:

We can control the temperature of the compressor stages. Install on the hottest point of the heads, one or more thermal contacts N.O., that at a certain temperature closes the contact and communicates to the controller that the temperature has surpassed the limit set. We can monitor one or more stages, and you must connect the probes in parallel. Also you have to know at what maximum temperature can work the compressor, depending on the model that we are combining the mixer. On the compressor Nardi mod. Pacific M, the range of the probes to be used are:

Compressor 3 stage: 2° stage max 170°C
 3° stage max 140°C

Compressor 4 stage: 3° stage max 170°C
 4° stage max 140°C

The probes, because the normally open contact, we must NECESSARILY connect them in parallel and in series. Follow the instructions as shown in the figure below.

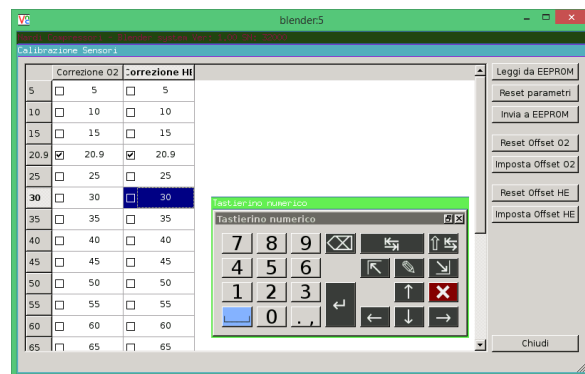


8.04 INTERNAL SECURITY OXYGEN SENSOR-OPTIONAL:

The mixer is designed to fit inside the Mixer Panel, an additional oxygen sensor that monitors the oxygen loss in the framework. This is an extra safety, that can be inserted as an option. In case of loss, the operator immediately notifies that within Blender is increasing the percentage of oxygen, and therefore locks the mixing. We must act carefully and quickly to resolve the problem.

8.05 SENSOR CALIBRATION - TECHNICAL PART:

The sensors need to have submitted a calibration table, which differs from another mixer. Each mixer has a unique and precise parameters, which are set by Nardi Compressori before being sold and installed. This concerns in particular the calibration drift of sensors. We are assuming that the oxygen sensors are calibrated by the manufacturer, which certifies compliance. To make accurate and reliable mixer, do a second calibration procedure, which does not include only the sensors but that includes all the mixer. In this way, we can change sensors whenever we want, doing only the calibration of the sensor without having to redo the complete calibration of the mixer



IF PUT DOWN THE DRIFT, THE % GOES UP. IF PUT UP THE DRIFT, THE % GOES DOWN
CONFIRM THE NEW DRIFT, WITH "INVIA A EEPROM"

8.06 INTERNAL SPARE PARTS:

The mixer is composed of multiple circuit boards and control power, on the one hand adjusting gas and electrical by mixing outside pipe. List the supplies or that must be replaced in the maintenance, if the technician it deems appropriate.

PA111-039	POLYURETHANE TUBE outside DIAMETER FLEX 8 x 6
PA111-052	GEAR MOTOR for CONTROL VALVES
PA111-035	PRECISION VALVE GAS ADJUSTMENT
PA116-113	SOLENOID VALVE SUCTION SAFETY
PA111-030	OXYGEN SENSOR
PA111-031	FLOW-DIVERTER for OXYGEN SENSOR
PA111-029	TOUCH SCREEN DISPLAY
PA111-024	CONTROL BOARD TOUCH SCREEN DISPLAY

8.07 TOTAL RESET OF THE MIXER:

The mixer is equipped with a reset function of total internal and memory cards. This function runs as follows:

- 1.From Blender off, you press and hold the red button on the front
- 2.Turns the mixer always keeping pressed the red button
- 3.You press and hold the red button until the white bar, LCD screen, did not finish the process
- 4.Keypad LEDs begin to Flash
- 5.I turn off and back on

Now the mixer has deleted the data set and memory, and all settings are defaults.

8.08 SAVING SETTING ON PC:

As soon as the mixer is installed and operational, should save mixer settings by connecting a PC, using the NardiBlender software.

Just the mixer and PC are communicating, you go into File and then save. So we saved calibration data of the mixer.

If for some reason you need to reset the Blender, just go into File, press open, and select the saved file.

The mixer will return to the settings made previously.

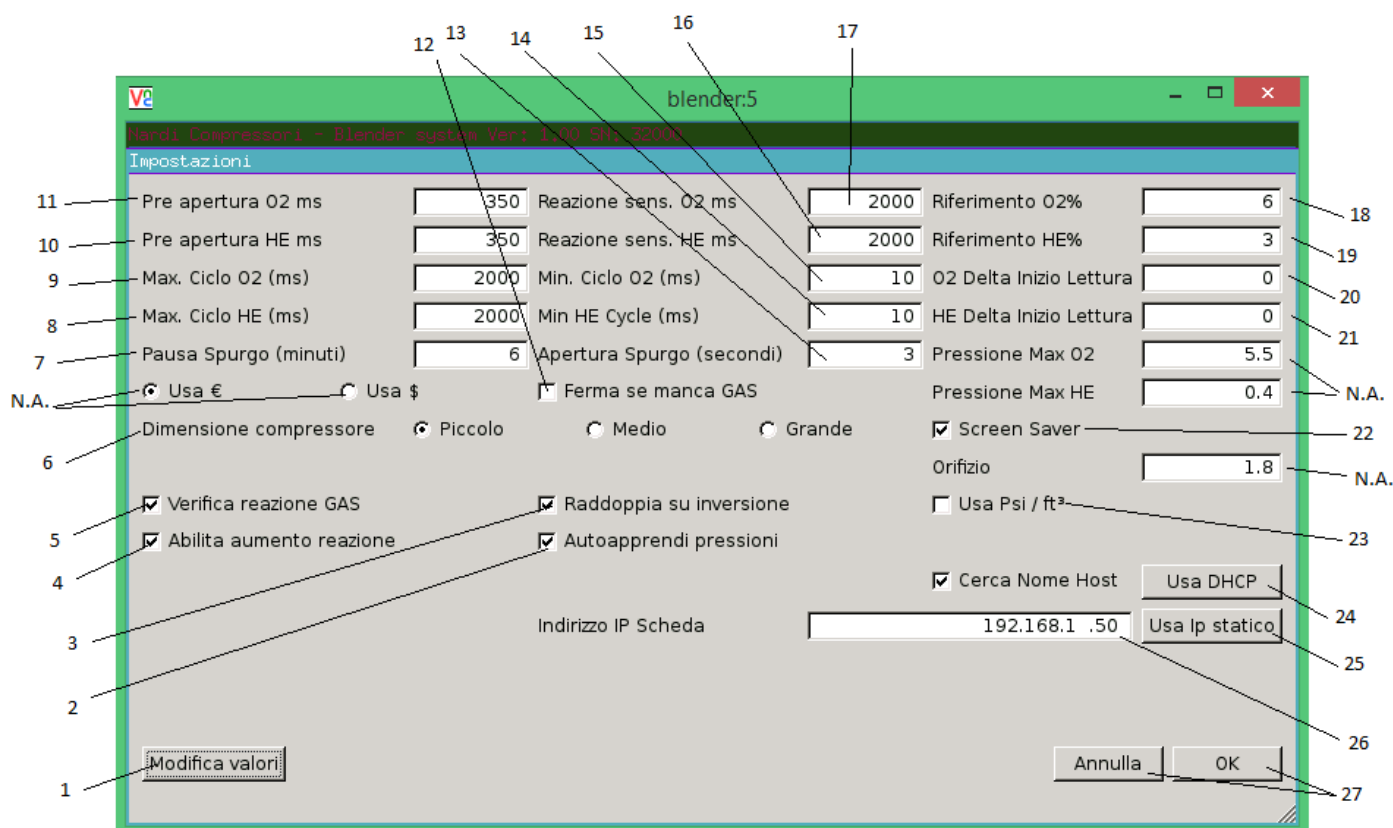
8.09 MIXER SETTING:

The mixer is supplied with default settings. These settings may vary depending on the capacity of the compressor.

These settings can be changed only by an experienced Nardi enabled or under the supervision of an experienced Nardi.

Any unauthorized modification, could cause problems for mixing, so you have to be very careful when you vary these data.

Below we describe the various options.



1. Enabling button to change settings (press 2 times to display the IP address of the adapter and change the data)
2. Autoapprendi pressure is not enabled
3. Doubles on reversal is not enabled
4. Enables increased reaction the software mix reaction increases automatically, if necessary
5. Check gas reaction: enables alerts in case of helium and oxygen are terminated or have a pressure too low.
6. Compressor size is not enabled
7. Break (minute) bleeding: the pause time (OFF) condensate drain valve compressor
8. Max. He cycle: cycle time max. helium
9. Max. O2 cycle: cycle time max. of oxygen
10. Pre-opening He: pre-opening time of gas flow at the beginning of mixing
11. Pre-opening O2: pre-opening time of gas flow at the beginning of mixing
12. Missed stops gas: If you feel the end of gas, stop mixing
13. Drain opening (seconds): the opening time (ON) condensate drain valve compressor
14. Min. He Cycle: cycle time min. helium
15. Min. O2 Cycle: cycle time min. of oxygen
16. He sensor reaction: reaction rate of the flow according to the sensor
17. O2 sensor reaction: reaction rate of the flow according to the sensor
18. Ref. O2% value% where the flow begins to slow before the set value
19. Ref. He%: % Value in which the flow begins to slow before the set value
20. Not enabled
21. Not enabled

- 22. Screensaver: active screen saver if enabled
- 23. Settings change from Bar to Psi and from square meters to ft (America)
- 24. Button to connect to the modem or to the server
- 25. Button for direct connection to PC
- 26. IP to set
- 27. ok and cancel button