



EGL-12VX Oil-less Compressor



2018 USER MANUAL/Installation Instructions



1953 W. Gulf To Lake Hwy, Lecanto, FL 34461

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Congratulations!

On the Purchase of your Eagle 12 VX oil-less dental compressor. Our Eagle 12 VX oil-less dental compressors provide clean dry air to each chair flawlessly, requiring less maintenance than traditional compressors. Now that's peace of mind you can stand behind! We are certain you will love your new product!

If you are not satisfied 100% with this products please reach out and let us know,

we are successful because of your FEEDBACK!

800-240-5677

Email: sierradentalproducts@outlook.com

CUSTOMER SUPPORT

“We are happy to help you with any questions or concerns you may have about your Eagle VX dental compressor”



Contact Us 24/7 We are here for you!

NAME	ROLE	NUMBER
Karen Bennett	Owner	(352) 527-1975
Chuck Bennett	Owner/Engineer	(352) 527-1975
David Rolerad	Owner/Quality control	(603) 493-3635
Matthew Ball	Operations Manager	(352) 201-2770
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Look for us...



on social media!

Sierra Dental Products LLC

1953 W. Gulf to Lake Hwy

Lecanto, FL 34461

WARRANTY POLICY



Sierra Dental Products Limited Warranty

Warranty for the EAGLE12 VX oil-less compressor is limited to the original purchaser of the unit. Sierra Dental Products is only obligated under this warranty to the repair or replacement of defective parts or materials. The defect(s) must be reported to Sierra Dental Products within the valid warranty period.

Sierra Dental Products will examine the product to determine if the parts are defective. Products that have been abused, neglected, or damaged by being improperly installed/maintained are not covered by this warranty. We are not responsible for work performed on the unit by any unauthorized service agents.

Warranty Period

Warranty is valid only with the return of the warranty card within 30 days of purchase for a period of **3 years**.

Warranty Service and Return Policy

To obtain warranty service, product must be returned to Sierra Dental Products for examination at the purchaser's expense. All returns must be authorized and a return material authorization (RMA#) number must be obtained from Sierra Dental Products. Returned units must be properly packaged for shipping. We are not responsible for shipping damages or shipping charges. Sierra Dental Products will, at their discretion, repair or replace defective parts. ****PLEASE NOTE**** there is a **25% re-stocking fee** on all returns.

SAFETY



Use of the Eagle VX not in compliance with the instructions specified in this manual may result in permanent failure and voided warranty of the unit.

WARNING

To prevent fire or electrical shock, do not expose this unit to rain or moisture, excessive heat or improper ventilation.

ATTENTION USERS



Alerts users of important operating and maintenance instructions. Read carefully to avoid any problems



Warns users of a potentially hot surface and a danger of burns

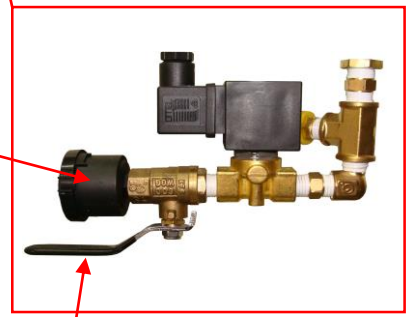
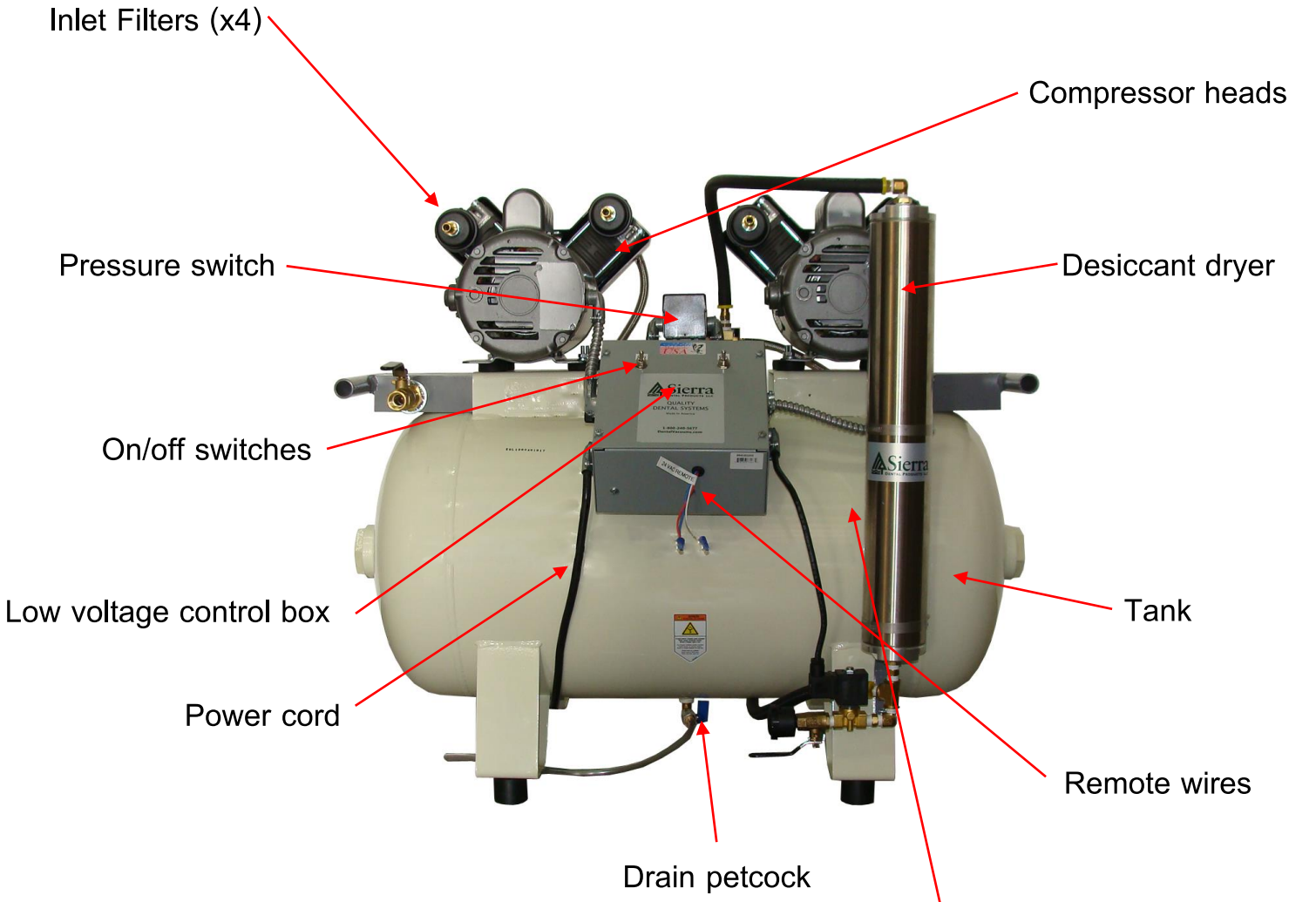


Warns users that uninsulated voltage is present and can cause electric shock

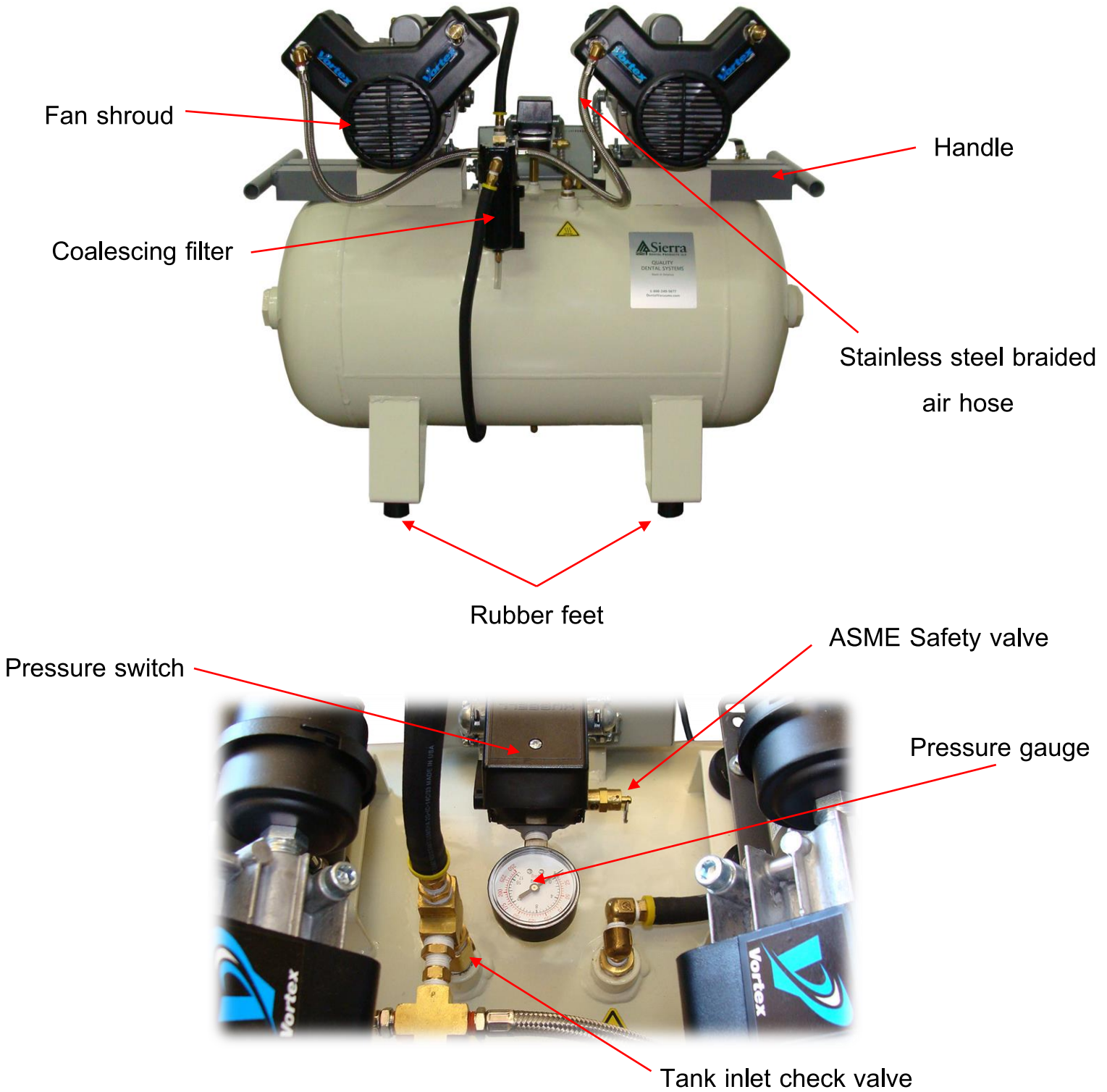
SAFETY CONTINUED

1. **IMPORTANT** - This equipment:
 - a) Has hot, electrical, and moving parts;
 - b) May start or stop automatically, depending on the tank's pressure or the tripping of electrical protection elements;
 - c) May cause mechanical or electrical interferences in nearby equipment;
 - d) Must not be operated in places where non-authorized people, children, or animals may have access;
 - e) Requires an authorized person to supervise its use and ensure proper maintenance;
 - f) **Must be installed and operated in areas well ventilated and protected against humidity and water;**
 - g) **Must be installed and operated in areas that do not exceed 104 degrees Fahrenheit.**
2. Never exceed the maximum pressure of 115 psi.
3. Before any maintenance, be sure the equipment is unplugged and not energized.
4. Never change the adjustment of the safety valve or pressure switch. They are factory regulated and any adjustments out in the field could void your warranty. If any adjustments to the pressure switch is needed, call your authorized dealer for Sierra Dental Products.
5. Never perform welding jobs or repairs on the air pressure tank because this can affect its resistance or disguise more serious problems. If there is any leakage, crack, or corrosion, immediately stop operating the equipment and contact your authorized dealer for Sierra Dental Products.
6. Air compression is a heat generating process. The pump unit and tubes are subject to high temperatures. Therefore, one must be careful when handling them in order to avoid burns.
7. Before connecting the compressor to a power supply, verify that all electrical fittings are tight.
8. Never use solvents to clean your compressor.
 1. The use of solvents or paint accumulation may cause explosion risks and irreversible damage to the product in general. Cleaning products and the environment may not contain solvents.
9. Do not remove the attached accessories when the compressor is pressurized. Do not clean or touch the electric components without unplugging the compressor from the electrical power supply. Not following the orientations may cause physical and material damage.
10. In case of any irregularities with the equipment, stop operating it immediately and contact your authorized dealer for Sierra Dental Products.

SYSTEM LAYOUT



SYSTEM LAYOUT



SPECIFICATIONS



SITE REQUIREMENTS

Voltage	230 V AC
Circuit breaker rating	20 Amp
Minimum wire size	14 Gauge
Minimum trunk line size	½"
Max ambient temp.	104° F
Minimum ambient temp.	41° F

This equipment must be installed in a well ventilated mechanical room to prevent over heating and failure not covered by the warranty.

Description	Specification
Model #	EGL-12VX
Max users	6
Air dryer	Yes
Number of heads	2
Total horsepower	2
CFM	8.75
Tank gallons	27 g
Voltage	230 V AC
Amps	14
Decibels	74
Weight	201 lbs
Height	32"
Width	37"
Depth	24"

INSTALLATION



1. **Location:** Install the compressor in a covered, well ventilated area, free of dust, gases, toxic gases, humidity, or any other kind of pollutant. The maximum ambient temperature recommended during operation is 104 degrees Fahrenheit.
 - a. **IMPORTANT:** Avoid installation in small places such as a storeroom or closet..
2. **Position:** Mount at least 32 inches (800mm) from any obstacle, to allow good ventilation during operation and to make maintenance easier.
 - a. Compressor Installation: When connected to the air network, **the discharge connection must be joined by means of a hose or expansible gaskets** so that the charges, thermal expansion, piping's weight, mechanical and thermal shocks or obstructions are not transmitted to the air tank. Physical damage to the compressed air tank may occur if the above warnings are not followed.
3. **Foundation/Floor:** The compressor must be placed on a concrete base, which must be able to bear the equipment's weight. The equipment must be level. The compressor is equipped with rubber feet (Assembled by installer)
4. **Electric Connection:**
 - a. Consult a specialized electrician to evaluate the electrical power supply and to select the adequate protections and input devices, and to perform the installation service.

INSTALLATION



5. The electrical input wires must be in accordance to the motor power, voltage and distance from electrical energy source.
6. Before installing the product, verify that the product voltage is compatible to the local electrical power supply (230 Volts plus or minus 10%) – Use of a Buck Booster may be necessary if voltage is inadequate.
7. In order to avoid electrical shock, a grounding installation must be utilized.
8. For your safety, a circuit breaker/fuse must be installed.
9. **Grounding Instructions:** This product must be grounded in the event of an electrical short circuit or insulation failure, the grounding reduces the risk of electric shock by providing an escape wire for the electric current. This product is equipped with a cord having a grounding wire. Ensure that the product is properly installed and grounded in accordance with all local codes and regulations.
10. **WARNING:** The incorrect installation of the grounding wire connector may result in an electric shock. If it is necessary to replace or repair both the cable and the connector, do not connect or join the grounding wire to the neutral wire or any other. The green wire, with or without yellow stripes, is only to the grounding function. In case of doubts regarding the grounding information or whether the product is properly grounded, make sure you contact a qualified electrician to verify the connections.
11. The thermal protector is located inside the electrical motor. This will shut the electric motor off automatically.

-INSTALLATION EXPENSES ARE PURCHASER'S RESPONSIBILITY

START-UP PROCEDURE



After installation is complete, perform the following start up procedure:

1. Completely open discharge connection (ball valve located on the handle)
2. Turn both of the compressor heads on. The compressor will automatically turn off when the pressure gauge shows maximum pressure around 115 psig.
3. The compressor will automatically restart when the pressure gauge shows pressure around 85 psig.

Your EAGLE Compressor is ready to operate. Check if there is any leakage. You can do this by filling the compressor up all the way (115psi) Do not use any compressed air. Wait about 15 minutes and make sure the pressure has not dropped more than 5 psi. In case there is any loss, eliminate it before proceeding.

PREVENTATIVE MAINTENANCE



In order to guarantee the compressor's perfect operation and to extend its life, please follow these recommendations below:

1. Monthly

- a. Check the operation of the pressure switch (85-115psi) by performing the start-up procedure
- b. Drain the condensed water from the tank, through drain petcock (The tank's pressure must not be greater than 10 psig)
- c. Check for abnormal noise or vibration. If the problem persists after the following corrective actions are taken, contact your local authorized dealer for Sierra Dental Products
- d. Check the intake filters. When an intake filters are clogged it is necessary that they be replaced. Contact your local authorized dealer for Sierra Dental Products for replacement filters – **Do Not Wash the Filter Element**

2. Quarterly

- a. Change the intake filter elements & coalescing filter every three hundred (300) hours or quarterly (whichever occurs first)
- b. Clean the compressor's external surface with neutral detergent and a wet cloth

3. Annually

- a. Have the pressure switch, pressure gauge and ASME safety valve calibrated, either by an official institution or according to the Local Technical Regulations. This operation must be carried out by a device not coupled to the tank.

TROUBLESHOOTING



PROBLEM	PROBABLE CAUSE	WHAT TO DO
Motor doesn't start or doesn't restart	Voltage drop or electric supply is out	Check the installation and/or wait for the electric supply stabilization
	Damaged motor	Contact your local authorized dealer for Sierra Dental Products, LLC
	Thermal protector went off	Motor will re-start as soon as temperature decreases. If this continues to happen, contact your local authorized dealer for Sierra Dental Products, LLC
	Tank is full of air	Motor will re-start as soon as pressure in the tank decreases to 85 psig
	Check valve does not seal because of impurities	Contact your local authorized dealer for Sierra Dental Products, LLC
Reduced air production (pressure gauge keeps showing a lower pressure than that of the job)	The demand is above the compressor's capacity	Evaluate the compressor's capacity, if necessary to verify
	Filter element is clogged	Replace filter element(s)
	Air leakage in the compressor	Re-fasten bolts and/or fittings (See Table 3)
The compressor unit overheats	High ambient temperature (MAX 104 degrees Fahrenheit)	Improve installation conditions (climate control, ventilation, etc...)
	Incorrect rotation direction (counter-clockwise)	Contact your local authorized dealer for Sierra Dental Products, LLC
	Demand above compressor's capacity	Evaluate the compressor's capacity, if necessary to verify
	Filter element is clogged	Replace filter element(s)
Premature wear of the compressor unit internal components	Operating in a non-adequate environment	Improve local conditions and/or contact your local authorized dealer for Sierra Dental Products, LLC
Abnormal noise or vibrations	Loose fastening elements	Find and re-fasten them
	Loose fan	Re-fasten it
	Compressor installed incorrectly	Contact your local authorized dealer for Sierra Dental Products, LLC
	Damaged connecting rod(s) bearing and rings	See Preventative Maintenance Section
Motor overheats	Deficient or inadequate electric power supply	Consult a specialized electrician to check the power supply
Tank's pressure goes up too fast or many frequent starts (the normal number of starts is roughly 6/hr)	Water excess in the tank	Drain the tank with the petcock
High temperature of the compressor unit	Too much dust on the pump	Clean it externally
	High ambient temperature (MAX 104 degrees Fahrenheit)	Improve installation conditions (climate control, ventilation, etc.)
	Filter element is clogged	Replace filter element(s)
Compressor operates uninterruptedly	The system's demand is above compressor's capacity	Evaluate and verify the compressor's stated capacity
Insufficient pressure for the job	Pressure regulator is not adjusted	Contact your local authorized dealer for Sierra Dental Products, LLC to adjust it