

# Operating & Maintenance Manual Teaching Solution



# Contents

Intended Use/Introduction	3
Vertical Flat Wall	4
Horizontal Discover	5
Air Compressor	6
Secondary Products	7
Oil Fill Up Guide	8 - 9
Installation Guide	10 - 15
Moisture Trap Maintenance	16 - 17
Warranty Policy	18
Notes	19

# Intended Use

The following is an assembly reference guide for the Amico Teaching Solution. This guide shows the step by step process to assemble and operate the Amico Teaching Solution. It shall guide users in assembling Amico Secondary Products onto the Teaching solution, and shall show how to correctly connect the air compressor to the Teaching Solution.

All parts needed in the assembly are shown under the components section of this guide, and all steps required for correct assembly can be found under the installation section. If users shall experience any difficulties with this assembly, please contact Amico Beds for assistance.

This manual provides instructions required for normal operation of the Teaching Solution from Amico Beds Corporation. Prior to operation of this Teaching Solution, it is important that this manual is read and that all safety aspects contained in this manual are strictly adhered to.

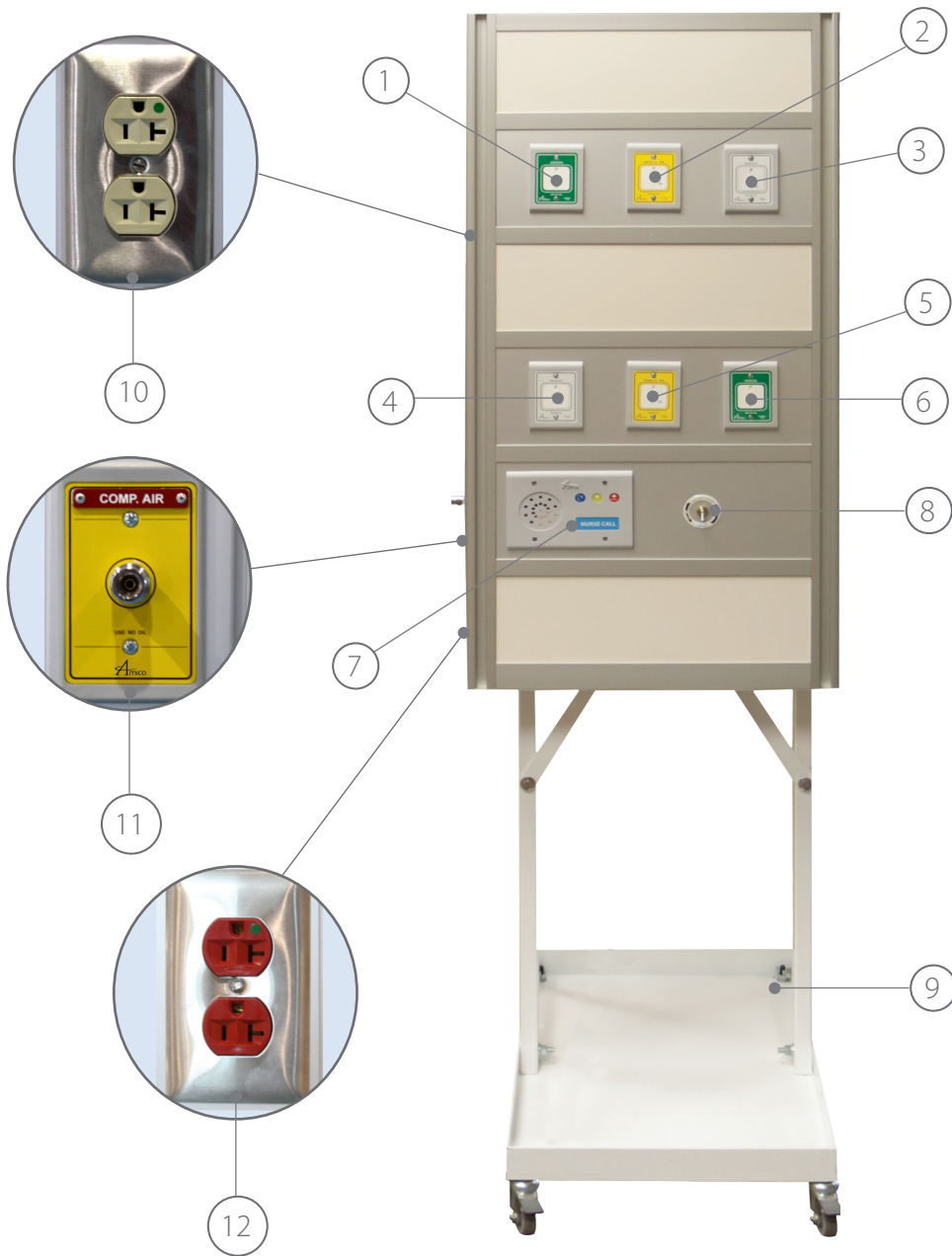
# Introduction

The Amico Teaching Solution has a simple design and incorporates distinctive features, which simulates a real world medical environment for students.

The Teaching Solution comes in either a Horizontal Discover or a Vertical Flat wall. The floor stand which is the base of the Teaching Solution shall allow for mobility with relative ease. The Teaching Solution includes fully functional Secondary Products in order to provide students with a more realistic experience.

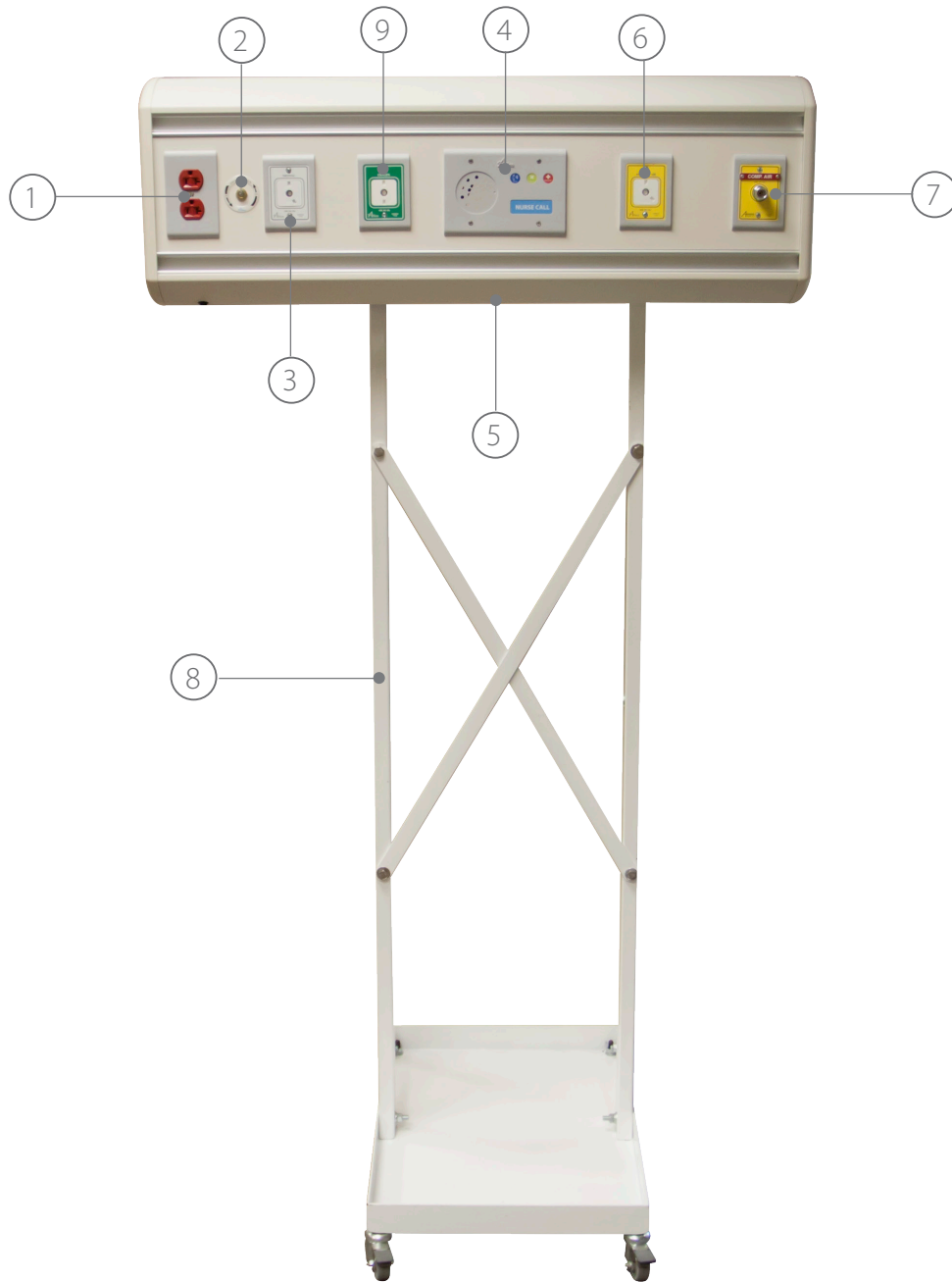
Amico Secondary Products such as an oxygen flowmeter, medical air flowmeter, vacuum regulator, vacuum canister and humidifier bottle also helps to assist in creating a simulated medical environment for students to train and sharpen their skills.

# Vertical Flatwall



Item	Description	Item	Description
1	Oxygen Outlet	7	Nurse Call Cover
2	Medical Air Outlet	8	Vacuum Switch
3	Vacuum Outlet	9	Mobile Floor Stand
4	Vacuum Outlet	10	Normal Duplex Receptacle
5	Medical Air Outlet	11	Compressed Air Outlet
6	Oxygen Outlet	12	Emergency Duplex Receptacle

# Horizontal Discover



Item	Description	Item	Description
1	Emergency Duplex Receptacle	6	Medical Air Outlet
2	Vacuum Switch	7	Compressed Air Outlet
3	Vacuum Outlet	8	Mobile Floor Stand
4	Nurse Call Cover	9	Oxygen Outlet
5	Light (Optional - *Not shown)		

# Air Compressor



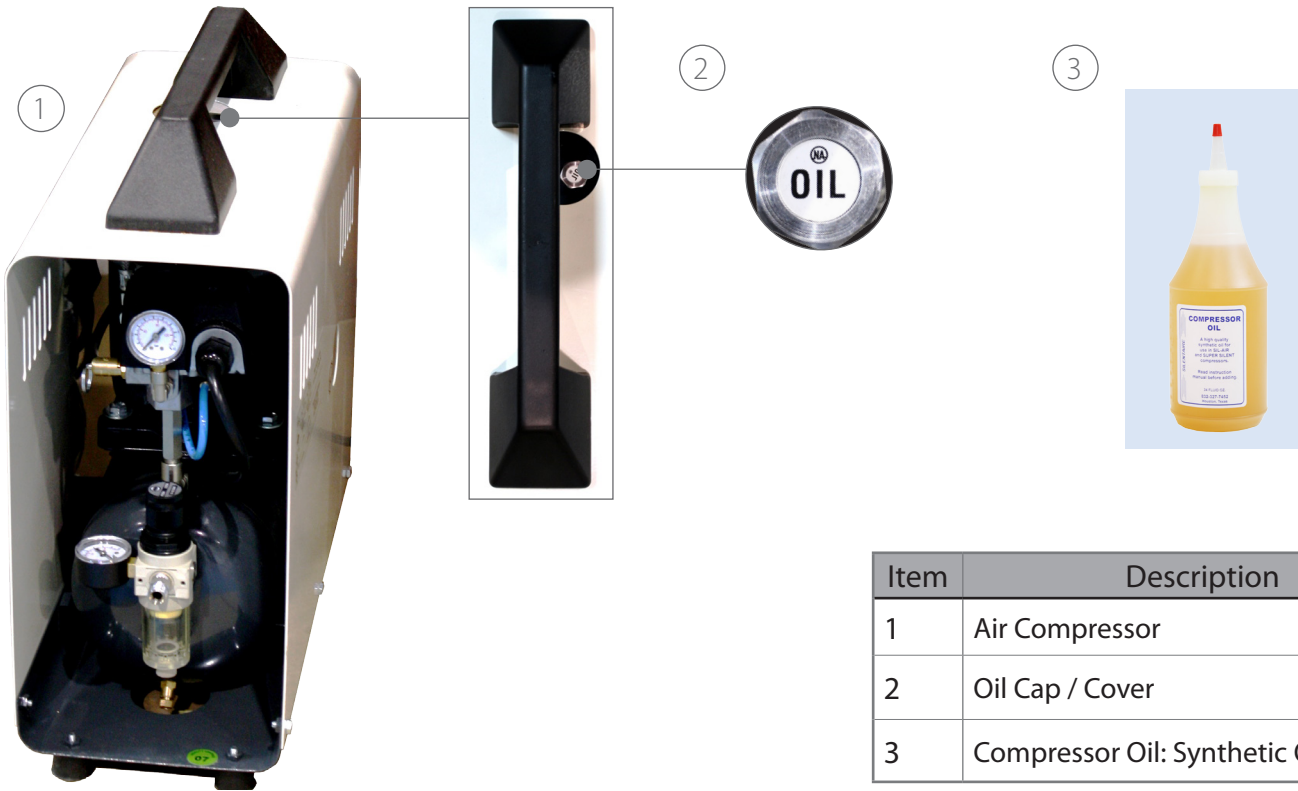
Item	Description	Item	Description
1	Tank Gauge	5	Oil Cap
2	Knob	6	ON / OFF Switch
3	Regulator Gauge	7	Compressor Oil ( <i>one bottle included</i> )
4	DISS Hose Connection		

# Secondary Products



Item	Description	Item	Description
1	Oxygen Flowmeter	5	Humidifier Bottle
2	Air Flowmeter	6	Horizontal Vacuum Slide (Discover Series)
3	Vacuum Regulator	7	Vertical Vacuum Slide (Flatwall)
4	Vacuum Canister		

# Air Compressor Oil Fill Up Guide



**⚠ CAUTION:** Ensure that the air compressor is not plugged into an electrical socket and that the power switch is in the OFF position throughout the process of filling the air compressor with oil. Failure to do so may result in damage to the compressor, and/or serious injury to the user.

1. Remove the Oil Cover from the compressor. This shall expose the oil compartment.





1. Remove the RED safety cap on the compressor oil bottle. Cut the tip of the exposed mouth of the bottle using a sharp object.



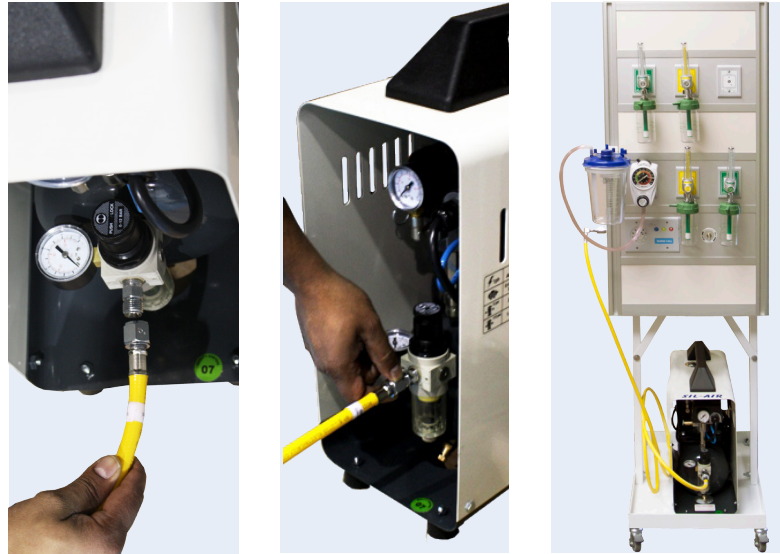
2. Pour in no more than 18 ounces of the oil from the bottle into the exposed oil compartment. More than this will cause an overflow of oil and can damage the compressor. The scale etched on the side of the bottle shall aid in determining the amount of oil that is used.



# Installation

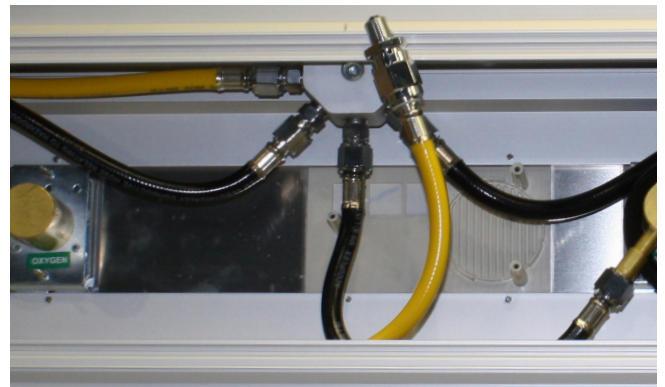
**⚠ CAUTION:** Ensure that all power switches are in the OFF position prior to commencing the installation of the Amico Teaching Solution. DO NOT plug in any electrical cords until instructed to do so.

1. Attach the compressor hose to the DISS connection on the Air Compressor. Use a 7/8" wrench to ensure that the hose is securely fastened onto the DISS connection. This shall ensure that the compressor shall operate effectively.



2. Connect the other end of the hose to the Compressed Air DISS Outlet. Using a 7/8" wrench should help ensure that the hose is fastened securely to the outlet.

For the Discover Series Teaching Solution, the compressed air outlet shall be located on the front or rear of the unit, while the Flatwall Teaching Solution shall have the compressed air outlet located on the side of the unit.



Rear Connection

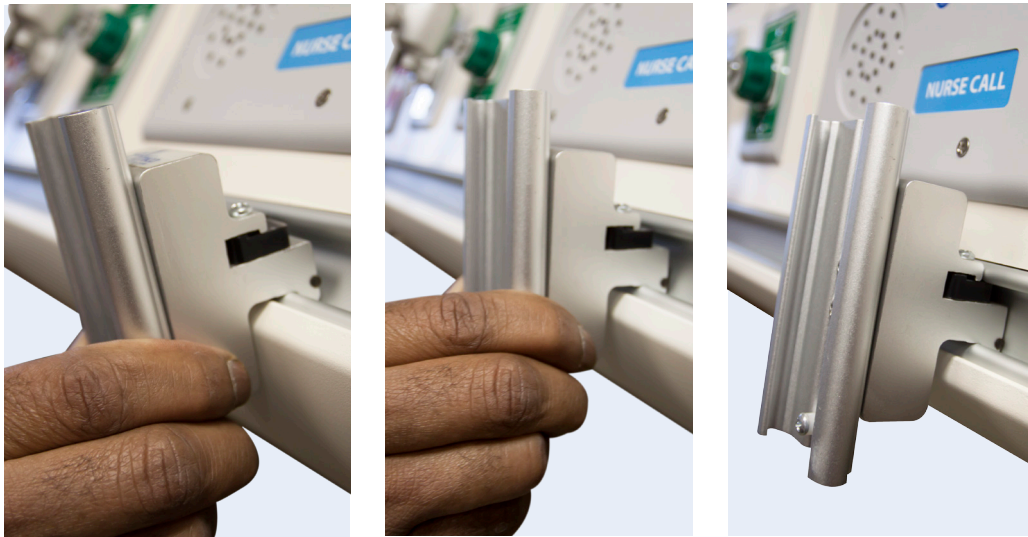


Flatwall

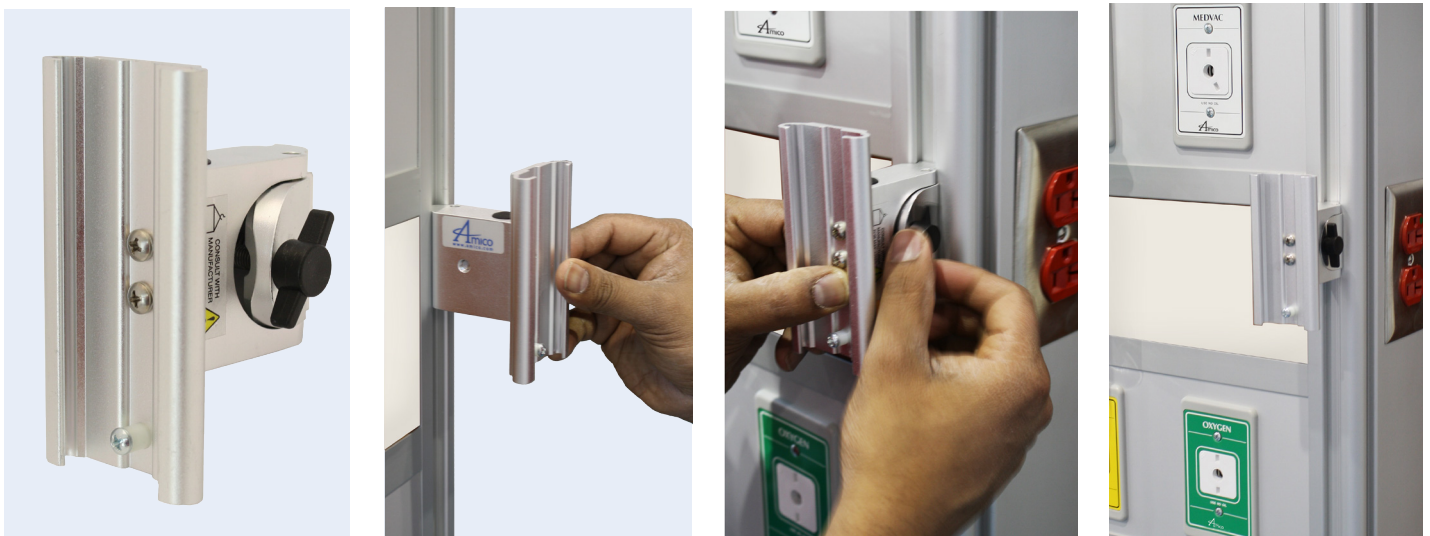


Discover Series

3. Install the Horizontal Vacuum Slide by holding the lever in and place the vacuum slide at an angle so that the Vacuum Slide fits into the rail of the Teaching Solution. Continue to hold the lever and place the vacuum slide in the upright position and then release the lever. This shall allow the horizontal vacuum slide to remain upright securely. In order to remove the horizontal vacuum slide from the Teaching Solution, hold the lever, tilt and gently tug the vacuum slide off the rail.



4. When installing the Vertical Vacuum Slide on the Teaching Solution, ensure that the vertical Vacuum Slide is in the open position (unscrewed). Place the vertical vacuum slide onto the side rails of the Flatwall. Once in, turn the knob on the side to securely fasten the vacuum slide into position. If done correctly, the vertical vacuum slide shall sit securely on the Teaching Solution. In order to remove the vacuum slide, unscrew the black knob found on the side until it is loose and remove.



- Place the Vacuum Canister in the Vacuum Canister Holder (supplied by Amico). Take the Canister and align it with the vacuum slide and slide the canister into the vacuum slide. If the Canister is aligned correctly with the vacuum slide, the Canister holder shall slide right into the vacuum slide and fit in securely.



- Place the oxygen Flowmeter, Medical Air Flowmeter and Vacuum Regulator onto the corresponding outlets. The Amico Secondary Products are gas-specific.

In order to remove the oxygen Flowmeter, medical air Flowmeter and vacuum regulator, simply turn the Ohmeda adaptor clockwise and when loose, proceed to gently tug off the Teaching Solution.



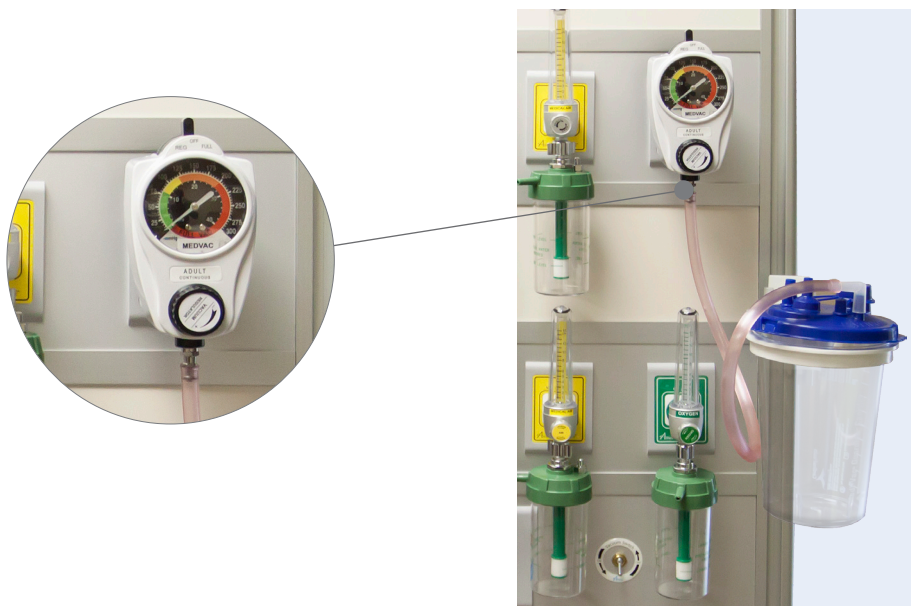
Ohmeda Adaptor



- Attach the Humidifier Bottles by screwing the accessories to the bottom of the oxygen and medical air Flowmeters.



- Connect the vacuum hose (optional) from the the exposed mouth/nipple of the vacuum regulator to the mouth of the vacuum canister. The vacuum canister lid shall indicate which mouth is intended for the vacuum hose. In order for the vacuum to create suction in the vacuum canister, ensure that all the exposed mouths are closed, except for the mouth that will house the hose for the patient.

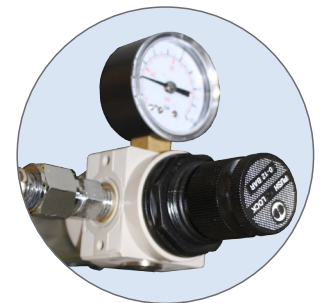


**⚠ CAUTION:** Users shall now connect all power cords to electrical outlets, however ensure that all power switches are in the OFF position until instructed to do so.

9. Turn the power switch on the air compressor ON. The switch is located above the tank gauge. Once the air compressor has been turned ON, use the Compressor Pressure Knob to change the pressure of the compressed air being released to 50psi. The Compressor Gauge shall indicate the pressure.



On / Off Switch



Compressor Gauge  
&  
Compressor Pressure Knob

10. In order to use the vacuum application of the Teaching Solution, flip the Vacuum Switch DOWN to turn ON the unit. This shall allow the Teaching Solution to make use of its vacuum application.



OFF position

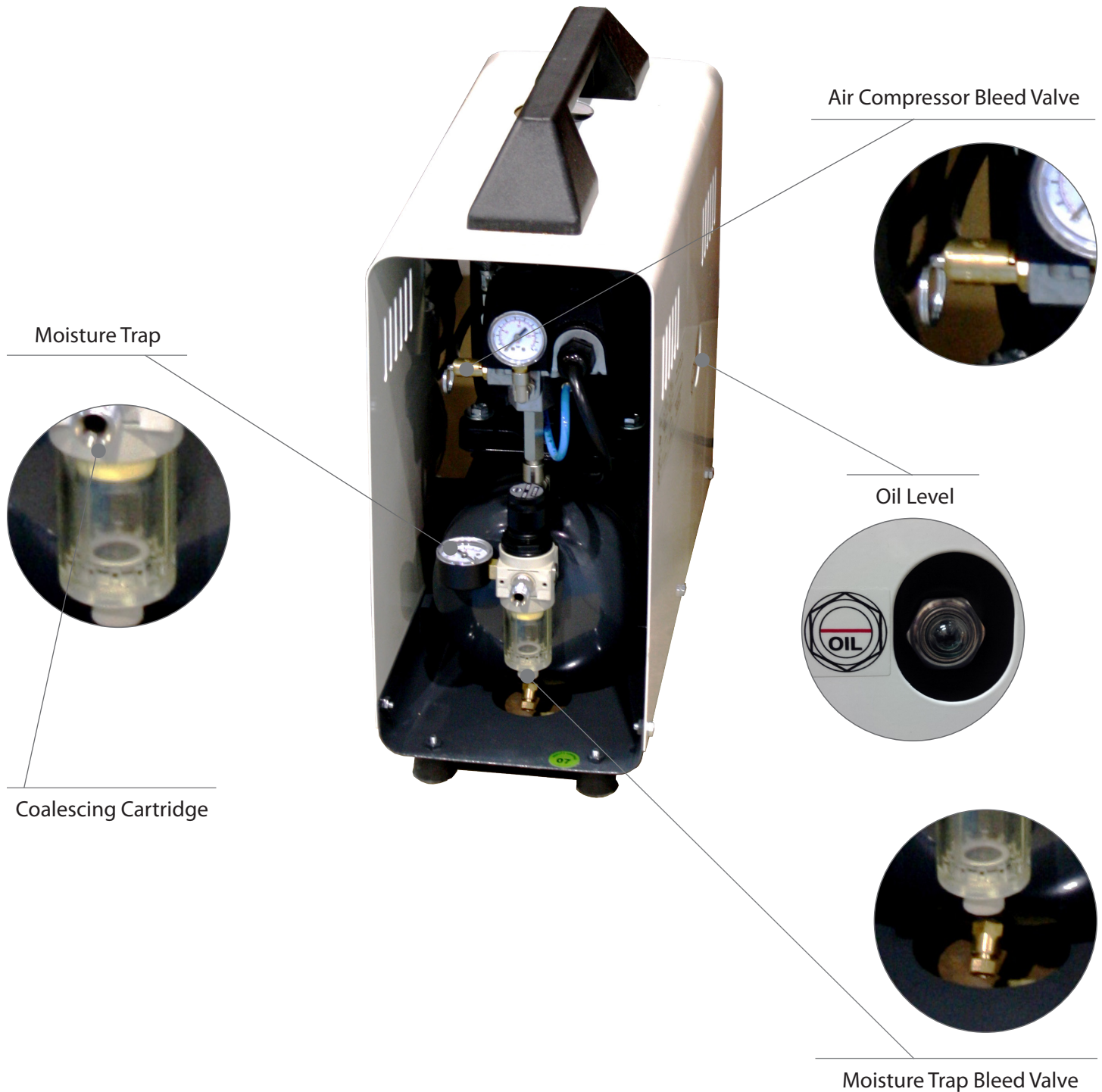


ON position

The Amico Teaching Solution is now ready for use.

# Air Compressor Moisture Trap Maintenance

Maintaining the air compressor is an essential task that should not be neglected. In order to ensure that the air compressor operates effectively, adhere to all of the following procedures for the air compressor to operate at full capacity and with minimal problems.





Air Compressor Maintenance Checklist		Monthly	Yearly	3 months	6 months
1	Drain the water collected in the moisture trap: (the operations are to be done with the tank under pressure).	✓			
2	Remove the condensate that has collected in the air compressor tank. To empty the tank, put it under pressure, take the compressor to a place where the water will not damage the floor, tip the compressor slightly forward and open the moisture trap bleed valve.	✓			
3	Check the compressor efficiency: possible connectors slackening, pressure hose wear, screws tightening electric circuit efficiency, etc.	✓			
4	Clean the compressor with a soft cloth. Dust and dirt prevent the compressor from cooling.	✓			
5	Oil level check	✓			
6	Check the air compressor bleed valve by pulling the ring gently when there is pressure in the tank.		✓		
7	Check the moisture trap. Replace it if its necessary.			✓	
8	Disassemble the coalescing cartridge contained in the moisture trap. This operation must be done with the tank completely out of pressure.				✓

**ATTENTION:** Maintenance of the compressor per the checklist is mandatory. Failure to do so will result in undue wear and eventual malfunction, which in turn voids warranty.



## Warranty Policy

Amico Teaching and Training warrants its Patient Equipment to be free from defects in material and workmanship for a period of twelve (12) months from the date of shipment. Within this period Amico will provide the parts for repair or replacement of defective parts at Amico's cost. Shipping and Installation costs will be borne by the Customer.

This warranty is valid only when the product has been properly installed according to Amico specifications used in a normal manner and serviced according to factory recommendations. It does not cover failures due to damage which occurs in shipments or failures which resulted from accidents, misuse, abuse, neglect, mishandling, alteration, misapplication or damage that may be attributable to acts of God.

Amico shall not be liable for incidental or consequential damages resulting from the use of the equipment.

All claims for warranty must first be approved by Amico. A valid Return Goods Authorization (RGA) number must be obtained from Amico prior to commencement of parts being shipped back for any service work. Failure to do so will result in parts being sent back at the customer's expense.



DiaMedical USA | 7013 Orchard Lake Rd, Suite #110  
West Bloomfield, MI 48322  
P: (877) 593-6011 | F: (248) 671-1550  
[www.DiaMedicalUSA.com](http://www.DiaMedicalUSA.com)