

# MicroCloud Sanitizing Cart

## ***Owner's Manual & Safety Instructions***



**Warning read all safety warnings and instructions.**

*Failure to follow the warnings and instructions may result in electric shock, fire and / or serious injury.*

**Save all warnings and instructions for future reference.**

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## General Safety

### 1. Work area safety

- a. **Keep work area clean and well lit.** Cluttered and / or dark work areas can contribute to workplace accidents.
- b. **Do not operate the compressor in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Compressor motors produce sparks which may ignite the dust or fumes.
- c. **Keep children and bystanders away from compressors, while being operated.**

### 2. Electrical safety

- a. **Compressor plugs must match the outlet. Never modify the plug in any way.**  
**Do not use any adapter plugs with grounded compressors.** Standard plugs and matching outlets should reduce the risk of electric shock.
- b. **Do not expose compressor to rain or wet conditions.** Water entering a compressor can increase the risk of electric shock.
- c. **Do not abuse the cord. Never pull on the cord for unplugging the compressor.**  
**Keep cord away from heat, oil, sharp edges or moving parts.** Damaged or entangled cords can increase the risk of electric shock.

### 3. Personal safety

- a. **Stay alert, watch what you are doing and use common sense when operating this compressor. Do not use this compressor while you are tired or under the influence of drugs, alcohol, or medication.**
- b. **Utilize appropriate personal protective equipment, such as approved eyewear, when operating the compressor.**
- c. **prevent unintentional starting. Ensure the switch is in the "Off"-position before connecting to power source or moving the compressor.**

#### 4. Compressor use and care

- a. **Do not use the compressor if the switch does not turn it on and off.** Any compressor that cannot be controlled with the switch should be considered dangerous.
- b. **Disconnect the plug from the power source before making any adjustments, changing accessories, or storing the compressor.** Such preventive safety measures reduce the risk of accidental startup.
- c. **Store an idle compressor out of the reach of children and do not allow persons unfamiliar with the compressor or these instructions to operate it.**
- d. **Maintain the compressor. Keep the compressor clean for better and safer performance.** Keep dry, clean, and free from oil and grease. check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the compressor's operation. if damaged, have the compressor repaired before use.

#### 5. Service

- a. **Have your compressor serviced by a qualified repair person using only identical replacement parts.** This will ensure that the safety of the compressor is maintained.

### Compressor Safety

1. **RISK OF FIRE OR EXPLOSION – DO NOT spray flammable liquid in a confined area or towards a hot surface.** Spray area must be well-ventilated. Do not smoke while spraying or spray where spark or flame is present. arcing parts - keep compressor at least 20 feet away from explosive vapors, such as when spraying with a spray gun.
2. **RISK OF BURSTING – DO NOT adjust regulator higher than marked maximum pressure of attachment.**
3. **RISK OF INJURY – DO NOT direct air stream at people or animals.**
4. **DO NOT use to supply breathing air.**
5. **DO NOT leave compressor unattended for an extended period while plugged in.**  
Unplug compressor after working.
6. **Keep compressor well-ventilated.**  
This can cause irreparable damage to the unit.
7. **Drain Tank daily and after use.** Internal rust causes tank failure and explosion.

8. **DO NOT remove the valve cover or adjust internal components.**
9. **Compressor head gets hot during operation.** Do not touch it or allow children nearby during or immediately following operation.
10. **DO NOT pull on the air or fluid hose to move the unit.**
11. **Release the pressure in the storage tank before moving.**
12. **DO NOT unplug unit while compressor is running a cycle.**
13. **The use of accessories or attachments not recommended by the manufacturer may result in a risk of injury to persons.**
14. **All air-line components, including hoses, pipe, connectors, filters, etc., must be rated for a minimum working pressure of 150 PSI, or 150% of the maximum system pressure, whichever is greater.**

<b>Recommended Minimum Wire Gauge for Extension Cords (110 volt)</b>				
<b>Nameplate Amperes (at full load)</b>	<b>Extension Cord Length</b>			
	<b>25'</b>	<b>50'</b>	<b>100'</b>	<b>150'</b>
<b>0-6</b>	<b>18</b>	<b>16</b>	<b>16</b>	<b>14</b>
<b>6.1 – 10</b>	<b>18</b>	<b>16</b>	<b>DO NOT USE</b>	
<b>10.1 – 12</b>	<b>16</b>	<b>16</b>	<b>DO NOT USE</b>	
<b>12.1 – 16</b>	<b>14</b>	<b>12</b>	<b>DO NOT USE</b>	

\*\*Make sure your extension cord is in good condition. Be sure to use an extension cord which is heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. Table A shows the correct size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gauge. The smaller the gauge number, the heavier the cord.

15. **Industrial applications must follow OSHA guidelines for use.**
16. **Maintain labels and nameplates on the compressor and cart.** These labels contain important safety information. If labels become unreadable or are missing, please contact FST for replacement.
17. **This product is NOT-A-TOY.** Please keep out of the reach of children.
18. **People with pacemakers should consult their physician (s) before use.**

## Grounding



**TO PREVENT ELECTRICAL SHOCK AND / OR DEATH FROM INCORRECT GROUNDING** – Check with a qualified electrician if you are in doubt as to whether an outlet is properly grounded. **DO NOT** modify the power cord plug provided with this cart. **NEVER** remove the grounding prong from the plug. **DO NOT** use the compressor if the power cord or plug is damaged.

1. In the event of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This compressor is equipped with an electric cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances.
2. **DO NOT** modify the plug provided – if it will not fit the outlet, have the proper outlet installed by a qualified electrician.
3. Improper connection of the equipment-grounding conductor can result in a risk of electric shock. The conductor with insulation having an outer surface that is green with or without yellow stripes is the equipment-grounding conductor. If repair or replacement of the electric cord or plug is necessary, do not connect the equipment- grounding conductor to a live terminal.
4. Check with a qualified electrician or service technician if the grounding instructions are not completely understood or if in doubt as to whether the compressor is properly grounded.
5. Use on 3-wire extension cords that have 3-prong grounding plugs and 3-pole receptacles that accept the compressor's plug.
6. Repair or replace damaged or worn cords, immediately.
7. This compressor is intended for use on a circuit that has an outlet that looks like the one illustrated above in **125 Vac 3-prong plug and Outlet**. The compressor has a grounding plug that looks like the plug illustrated above in **125 Vac 3-prong plug and Outlet**.
8. The outlet must be properly installed and grounded in accordance with all codes and ordinances.
9. **DO NOT** use an adapter to connect this compressor to a different outlet.

## OPERATING GUIDE

### Provided with your kit:

- ✓ Spray gun
- ✓ 25' fluid hose or 50' fluid hose
- ✓ 25' air line or 50' fluid hose
- ✓ 2' airline / fluid line
- ✓ Fluid Pressure pot
- ✓ Electric compressor
  - ✓ Cart

### 1) Filling the Pressure Pot



**CAUTION:** *Prior to opening pressure pot, turn the pressure regulator valve (located on top of the pot) clockwise, until fully closed. Pull out pressure relief valve ring to release all pressure that may be on the pot.*

- a) Loosen the wingnuts on the pot to release the clamps.
- b) Remove the pot lid and fill with contents. Disinfectant should be added at the concentration recommended by the product manufacturer.
  - i) *Pot holds approximately 2 1/2 gal of fluid. Do not overfill.*
- c) Replace the lid, reposition all 4-clamps and hand-tighten the wingnuts, one-by-one, in a star-pattern.
- d) Re-connect the airline quick-connect fitting to the pressure regulator on the top of the pressure-pot.

### 2) Pressuring Up the System

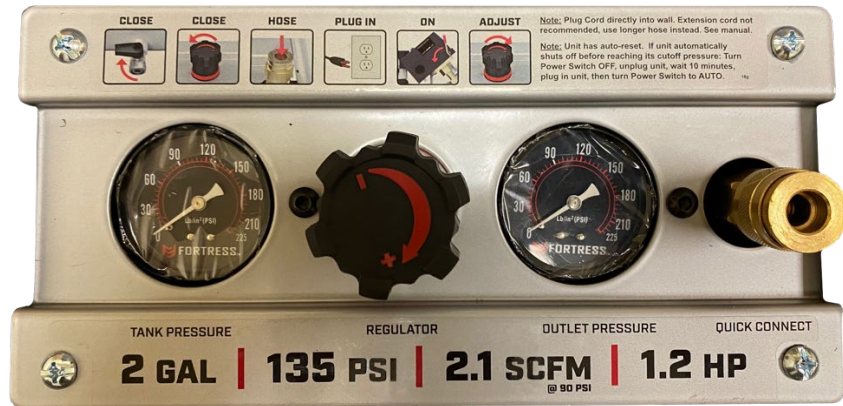
- a) **Locate the black power cord on the side of the unit and plug the unit into a 110-volt power-source.**
- b) **Turn on the compressor.**
  - i) *Compressor is located in the cabinet area of the cart. Locate the "Auto <-> Off" switch, located on the left side of the compressor tank and turn the switch to "Auto On" position. Compressor should start up (if not, see troubleshooting section).*

**c) Set outlet pressure**

- i) Turn the compressor regulator adjustment knob clockwise to increase, or counterclockwise to decrease pressure to 60 psi.

**d) Set pressure on the pot**

- i) Check to assure the pressure regulator on the pot is turned clockwise and turned completely off. Next, release the pressure in the pot by pulling the ring on the pressure release valve. Slowly turn the pressure regulator knob counterclockwise, approximately ½ a turn, until the gauge reads 25 psi. Rotate the valve clockwise to close. At this point, your pressure pot is primed and ready for operation.



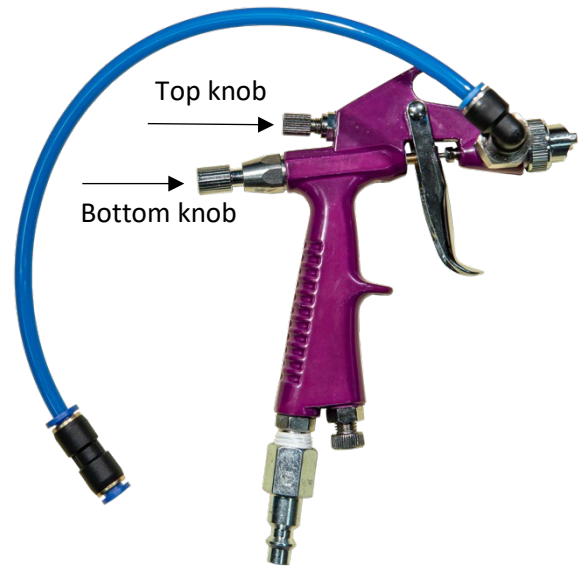
**e) Verify the pressure amounts on the compressor, the pressure pot and the spray gun.**

- Compressor – 60 psi (max)
- Pressure Pot – 25 psi (max)
- Spray Gun – 60 psi (max)

*\* **Note:** If pressure amounts are not correct, see “Troubleshooting” section of these instructions.*

### 3) Dispensing

- a) Aim spray gun at an open space / area and depress spray trigger to check / verify appropriate or desired spray pattern.
- b) Adjust spray gun to desired patter by turning clockwise or counterclockwise the 2-knobs on the back side of the trigger handle.
  - (1) Top knob – adjusts the width of spray pattern
  - (2) Bottom knob – adjusts the amount of fluid-to-air ratio
    - (a) Start off with the valve closed (counterclockwise) and open to add fluid to air release.
- c) Once the spray gun is adjusted to the desired setting, fluid may be dispersed onto treatable areas.



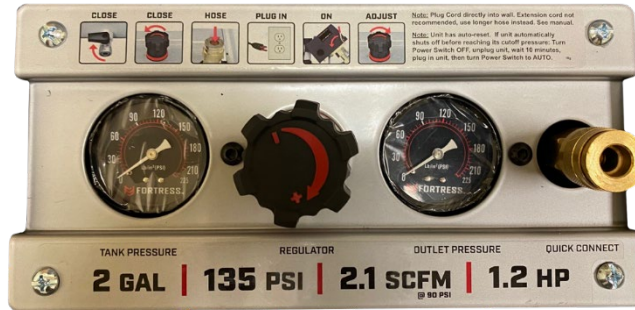
### 4) Cleaning / Storage

**Make sure to only unplug unit when compressor has finished a cycle.**

- a) Prior to storage, de-pressurize the system by the following process:
  - i) Open the cart cabinet and turn the “Auto <-> Off” switch to the “Off” position.
  - ii) Close the cart cabinet and unplug the power cord to the cart.
  - iii) Release the pressure on the pot by pulling the ring on the pressure-relief valve. Air will be released through the valve.
  - iv) Pot may be opened to empty any remaining contents.
    - (1) Disconnect the quick-connect on the airline, connected to the pressure regulator on the top of the pressure pot.
    - (2) Loosen the wingnuts on the pot to release the clamps.
    - (3) Open lid and pour out contents.
    - (4) Replace the lid, reposition all 4-clamps and tighten the wingnuts (finger tight), one-by-one, in a star-pattern, until finger tight.
    - (5) Re-connect the airline quick-connect fitting to the pressure regulator on the top of the pressure-pot.



- v) Depressurize the compressor tank, by turning the compressor regulator adjustment knob counterclockwise to decrease pressure to 0 psi.



- vi) Roll up and affix hoses in black straps, located on the end of the cart. At this point, the cart is ready to be stored.

## Troubleshooting

### a. Spray-gun will not spray

#### i. Check adjustment knobs

1. Fluid to air valve
2. *This is the bottom knob on the spray-gun. Start by closing off the valve by turning it clockwise, until the valve stops. DO NOT OVER-TIGHTEN. Turn valve back, counterclockwise, to open the valve.*
3. Spray pattern valve
4. *This is the top knob on the spray-gun. Start by closing off the valve by turning it clockwise, until the valve stops. DO NOT OVER-TIGHTEN. Turn valve back, counterclockwise, to open the valve.*

#### ii. Check fluid line pressure

#### iii. Check air pressure

1. Compressor output gauge
2. *There should be 50 – 60 psi coming out of the compressor. If the pressure on the compressor gauge reads below this, slowly open the pressure regulator (counterclockwise) to increase the pressure output. If opening the regulator does not provide enough available pressure, see “Troubleshooting” section b of this manual.*

## Troubleshooting - Continued

- b. Low pressure on system (below 50 psi)**
  - i. Check compressor
  - ii. *Verify that the compressor is plugged in and that the power switch is set to "Auto <- > On." The compressor should turn on if the pressure on the tank drops below 105 psi.*
  - iii. Check compressor output regulator
  - iv. *Slowly open the regulator valve on the compressor, by turning the knob clockwise to increase pressure output. If the output gauge on the compressor does not show an increase in pressure, as you open the valve, there may be insufficient air the tank or the regulator is not functioning properly.*
  
- c. Spray-gun dispersing too much fluid**
  - i. Check air pressure
  - ii. *Check to see that the pressure going into the spray-gun is between 50-60 psi. If it is below the operating range, see section (s) 5-b of this instruction manual.*
  - iii. Check unit pressure setting adjustment knob
  - iv. *Adjust the fluid-to-air valve, which is the bottom adjustment knob on the spray-gun. Turn counterclockwise to increase the amount of fluid-to-air and clockwise to decrease the amount of fluid dispersed. If the adjustment knob does not change the ratio, provided there is proper / sufficient air pressure to the spray-gun, the spray-gun may have become damaged or faulty.*
  
- d. Spray gun leaking**
  - i. *Check to assure pressure between the pot and spray gun is in appropriate range (50-60 psi).*
  - ii. *Check to assure the spray-tip is free of debris.*
  
- e. No fluid dispensing from spray-gun**
  - i. *Check pressure on pressure pot. If below 5 psi, see instructions on pressuring the system.*

## Troubleshooting - Continued

### f. Compressor shuts off and will not restart

- i. Check plug (s)
- ii. *Check to make sure the power chord to the compressor has not unplugged or been damaged.*
- iii. Check power switch
- iv. *Check to make sure the power switch on the compressor is set to "Auto <-> On."*
- v. Allow to cool
- vi. *The unit compressor comes with a built-in protection device, designed to keep the compressor motor from overheating. If the compressor is properly powered, turned ON and still will not run, the heat-protection circuit may have shut the compressor motor off to protect the unit. Unplug the unit and allow time for the motor to cool. Once the motor has cooled, the compressor should become operational, once again.*
- vii. *If you unplug unit while running you will have to wait 10-15 mins before turning unit back on for operations. Make sure to only unplug unit when compressor has finished a cycle.*

### Help and Support

*For help or support with your MicroCloud Sanitizing Cart, please visit the training course online at FST University. You may also contact your Distributor or Fluid Service Technologies for any other questions or comments.*