



VAPOTHERM®



Q50 Compressor

Instructions for Use



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Quick Start Guide

Review all instructions and warnings prior to use.

1. Ensure the Precision Flow unit is unplugged and the power outlet meets the appropriate power requirements.
2. Mount the compressor as needed. See “Mounting Positions,” page 13.
3. Install and connect the High Altitude / High Flow Kit. Remove the water trap from the air port on the back of the Precision Flow and Install the auto-draining water trap assembly on the Precision Flow.
4. Attach the end of the air hose onto the DISS air fitting on the back of the Q50 Compressor and hand tighten.
5. Attach the other end of the air hose to the DISS air fitting on the air filter assembly on the back of the Precision Flow unit and hand tighten.
6. Connect an oxygen supply to the DISS oxygen fitting on the oxygen filter assembly on the back of the Precision Flow, if oxygen concentrations above 21% are desired, and pressurize the oxygen source.
7. Attach the Q50 power cord to the compressor power cord inlet and plug into the power outlet.
8. Toggle the power inlet switch into the “I” position. The Q50 Compressor will now run.
9. Plug the Precision Flow into the power outlet and press the run/standby button to begin start up.



WARNING: Verify that the water bottle reservoir has been emptied prior to starting the compressor. Failure to do so may result in the spillage of liquid and could pose a slip hazard.



WARNING: Do not block or restrict the air exhaust underneath the compressor. This could result in failure to deliver therapy as intended. When the unit is placed on the floor, be sure that any flooring, such as carpet, does not restrict the air exhaust.

Intended Use

The Vapotherm Q50 air compressor with High Altitude / High Flow Kit supplies air up to 40 L/min in order to support use of the Vapotherm Precision Flow system in the absence of wall or tank supplied air.

The compressor was designed to be mounted on a Precision Flow Roll Stand, or placed directly on a flat level floor that does not obstruct the air exhaust underneath the compressor. The low profile footprint, light weight, and pole mounting capability allow for multiple use configurations and modes of transfer.

⚠ WARNING: The Q50 Compressor is intended for use only with the Precision Flow system.



Indications, Warnings and Cautions

Primary Indications

The Vapotherm Q50 Air Compressor with High Altitude / High Flow Kit is designed for use only with the Vapotherm Precision Flow system. The compressor is intended to supplement the air needs of the Precision Flow in the event that wall or tank air is not available. It is for institutional use only. It is not intended for home use.


GENERAL WARNING: Federal law (US) restricts the sales of this device to, or on the order of, any physician. This device should be used ONLY by a trained operator.


Contraindications

The Compressor is not intended for use in MRI environments.


For more information, see the Precision Flow Instructions for Use.

Warnings and Cautions

 **WARNING:** indicates that a situation may occur which is potentially harmful to the patient or user.

 **CAUTION:** indicates a condition that may lead to equipment damage, malfunction or inaccurate operation.

 **REFER TO INSTRUCTIONS FOR USE:** indicates that additional information is supplied in the Instructions for Use.

 **HOT SURFACE:** indicates that the surface may become hot under a single fault condition.

NOTE: indicates a point of emphasis to make operation more efficient or convenient.

Components and Documents

Item Description	Qty
<ul style="list-style-type: none">• Q50 Compressor	1
<ul style="list-style-type: none">• Replaceable Air Intake Filter*	2
<ul style="list-style-type: none">• Pole Mounts*	2
<ul style="list-style-type: none">• Power Cord	1
<ul style="list-style-type: none">• High Altitude / High Flow Kit<ul style="list-style-type: none">• Auto-draining water trap assembly• Water Bottle• Water Bottle Holder• Drain Tube	1

*Pole mounts and one air intake filter are installed during manufacturing.



Related Documents

- Warranty
- Certificate of Conformity
- Packaging List

NOTE: Warranty and Certificate of Conformance are the warrants of after-sales maintenance.

Specifications

Main Specifications

- Power Supply: 115V~ ±10%, 60Hz
- Continuous Flow: 0-40 L/min.
- Input Power: <600VA
- Noise: 54 dB(A) on average
- Electrical Safety: Meets requirements as defined by IEC 60601-1 “medical electrical equipment, Part 1 general safety requirement”.

Environmental Requirements

	Temperature	Relative Humidity
Operation:	+18°-+30°C	10-90%
Storage:	-10°-+50°C	20-90%

! CAUTION: If the storage conditions are outside of the stated operating range, the Q50 Compressor must be acclimated to the operating environment for a minimum of 8 hours prior to use.

Life Expectancy of Compressor

The average life expectancy will be 20,000 hours, based upon operating conditions and with maintenance being performed as outlined on page 26.

Dimensions and Weight

Dimensions:	20.5in(L)X19in(H)X9in(W)
Weight:	44 lbs.

High Altitude Considerations

The specifications provided above are for sea level conditions. The density of air is lower at higher altitudes and has an impact on the flow capacity of the compressor. The following table provides guidance for operating at higher altitudes.

! CAUTION: Operating above the flow rates shown for a given altitude and FiO₂ level may result in condensation or water collecting in the water trap on the back of the Precision Flow device. Monitor the water trap regularly and empty the trap if necessary to prevent possible water entrainment into the Precision Flow.

FiO2 (%)	Maximum Precision Flow Rate (L/min)								
	Sea Level	1,000 ft	2,000 ft	3,000 ft	4,000 ft	5,000 ft	6,000 ft	7,000 ft	8,000 ft
21%	40	40	40	39	37	34	32	30	28
22%	40	40	40	39	37	35	33	30	28
23%	40	40	40	40	38	35	33	31	29
24%	40	40	40	40	38	36	34	31	29
25%	40	40	40	40	38	36	34	31	30
26%	40	40	40	40	39	36	34	32	30
27%	40	40	40	40	39	37	35	32	30
28%	40	40	40	40	40	37	35	33	31
29%	40	40	40	40	40	38	36	33	31
30%	40	40	40	40	40	38	36	33	31
31%	40	40	40	40	40	39	37	34	32
32%	40	40	40	40	40	39	37	34	32
33%	40	40	40	40	40	40	38	35	33
34%	40	40	40	40	40	40	38	35	33
35%	40	40	40	40	40	40	38	36	34
36%	40	40	40	40	40	40	39	36	34
37%	40	40	40	40	40	40	40	37	34
38%	40	40	40	40	40	40	40	37	35
39%	40	40	40	40	40	40	40	38	35
40%	40	40	40	40	40	40	40	38	36
41%	40	40	40	40	40	40	40	39	36
42%	40	40	40	40	40	40	40	39	37
43%	40	40	40	40	40	40	40	40	38
44%	40	40	40	40	40	40	40	40	38
45%	40	40	40	40	40	40	40	40	39
46%	40	40	40	40	40	40	40	40	39
47%	40	40	40	40	40	40	40	40	40
48%	40	40	40	40	40	40	40	40	40
49%	40	40	40	40	40	40	40	40	40
50% or Greater	40	40	40	40	40	40	40	40	40

Working Principle and Construction

Working Principle

The air compressor starts after being plugged in and the power inlet switch toggled. The power inlet switch is located above the power inlet on the unit. Ambient room air is pulled in through the air intake filter on the unit, past the heat exchange coil and into the compressor. (Note: Excess moisture is directed to the water bottle reservoir.) Here it is compressed, moves through the heat exchange coil in order to reduce the air temperature, through an auto-draining air filter, pressure relief valve, and pressure regulator. The air then exits the unit and is delivered to the Precision Flow via the air hose.

System Overview

The Front Panel (Fig. 1) contains:

1. Water bottle reservoir

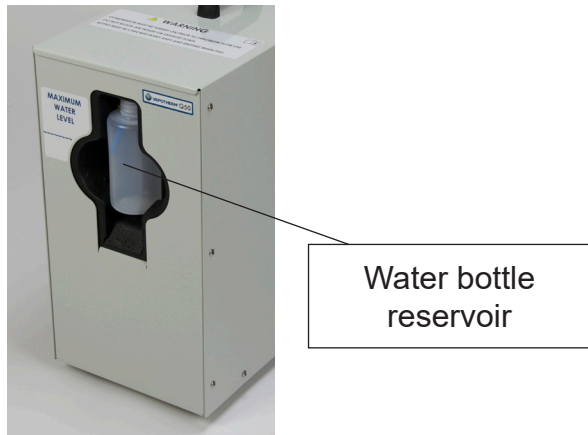
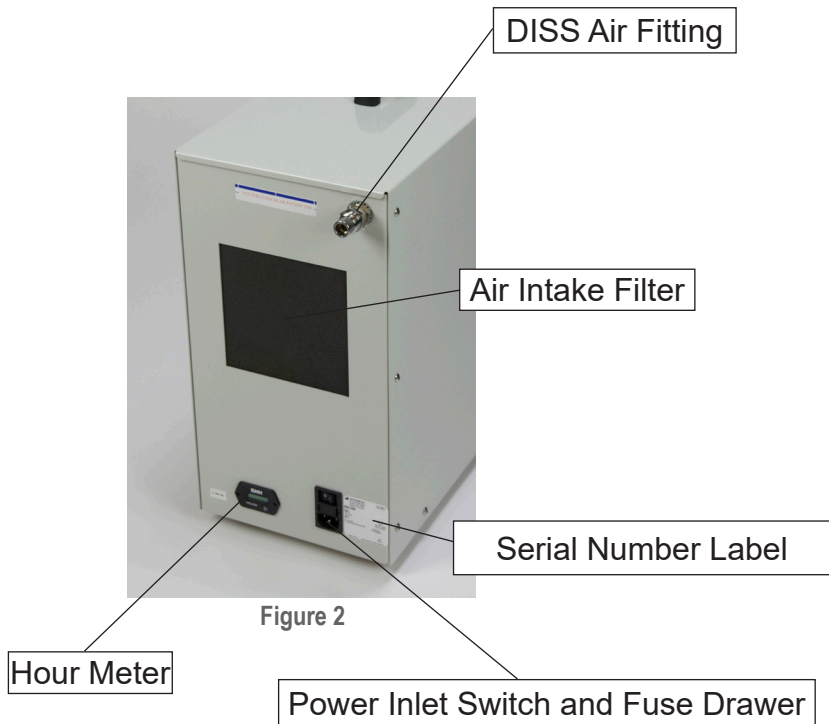


Figure 1

The Rear Panel (Fig. 2) contains:


1. Air Intake Filter
2. Power Inlet Switch and Fuse Drawer
3. Hour Meter
4. Serial Number Label
5. DISS Air Fitting



Power Inlet Switch

The Vapotherm Q50 compressor makes use of a medical grade power inlet switch. The power inlet switch contains two (2) fuses.

- 5ET 8-R (5mm X 20mm, 8A, SLOW BLOW, GLASS FUSE, 250V)

 **WARNING: To avoid risk of electric shock, this equipment must only be connected to supply mains with protective earth.**

Air Intake

The compressor utilizes air from its surrounding environment. It passes through multiple stages of filtration prior to delivery to the Precision Flow. The first filtration stage is accessible from the outside and should be cleaned once per week according to maintenance procedures. Further filtration is accessible only by trained personnel during preventative maintenance.


 **WARNING: Never restrict or block the air intake. This could result in failure to deliver therapy as intended.**


Air Outlet


The air exiting the Q50 compressor is to be used only in conjunction with the VapoTherm Precision Flow system. The compressor output is designed to match the performance needs of the Precision Flow up to 40 L/min and as such has no user adjustable settings or gauges.

Air Exhaust

The air exhaust is located on the bottom of the unit and vents the warm air used to cool the compressor.

 **WARNING:** Do not block or restrict the air exhaust underneath the compressor. This could result in failure to deliver therapy as intended. When the unit is placed on the floor, be sure that any flooring, such as carpet, does not restrict the air exhaust.


 **WARNING:** Do not remove the compressor feet. These are designed to reduce noise and provide the required space to allow the compressor to circulate sufficient cooling air throughout the system. Removal of the feet could result in overheating of the system and excessive noise.


 **WARNING:** The bottom of the unit may become uncomfortably warm if air flow is obstructed or under a single fault condition. Do not lift the unit from the bottom immediately after use.

Set-Up for Use

Mounting Positions

The compressor is intended for use in two configurations, stand-alone on the floor or mounted to a Precision Flow Roll Stand. If the Q50 Compressor is intended to be used stand-alone, no further work is required: the compressor comes with four compressor feet to limit noise and vibrations coming from the unit and holds the compressor the correct distance from the floor to accommodate cooling air to exhaust from the unit.

 **WARNING: Do not remove the compressor feet. These are designed to reduce noise and provide the required space to allow the compressor to circulate sufficient cooling air throughout the system. Removal of the feet could result in overheating of the system and excessive noise.**

 **WARNING: Do not modify or alter the Q50 Compressor. Failure to follow this warning may result in improper operation, reduced life of the compressor, or failure to deliver therapy.**

Pole Mount

The Q50 Compressor comes with the ability to be mounted onto the Precision Flow Roll Stand via the pole mounts located on the side of the compressor. When mounting to a Precision Flow Roll Stand, the bottom of the compressor must be placed on the Precision Flow Roll Stand base and no greater than 8" from the ground. The compressor also must be placed over two locking casters of the Precision Flow Roll Stand. Improper mounting the Q50 Compressor on the Precision Flow Roll Stand will result in a higher risk of tipping the IV pole unit. The Q50 compressor is only to be mounted on a Precision Flow Roll Stand.



Instructions for Installation on Precision Flow Roll Stand:

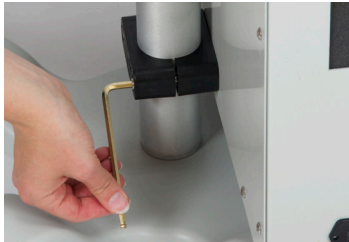
1. Facing the back of the Vapotherm Precision Flow unit and roll stand and ensuring two locking casters are on the right side, place the Vapotherm compressor on the right of the roll stand base. (Note: The side with the water bottle reservoir should face front.)
2. Place one half of a pole clamp between the Vapotherm compressor mounting hardware and the Precision Flow roll stand.



3. Position the other half of the pole mount as shown and install the supplied pole clamp screws. Do not tighten yet.



4. Repeat for the lower pole mount.



5. Firmly tighten both pole mounts.

Install High Altitude / High Flow Kit

1. Remove the manual draining water trap from the air inlet to the PF. Using a pair of needle nose pliers, push the retaining ring of the air fitting on the back of the Precision Flow unit in towards the Precision Flow. Pushing in this ring will release the fitting on the water trap. Pull the water trap away from the Precision Flow.
2. Install the drain tube into the fitting on the bottom of the water trap. Gently pull on the tube to confirm that it is captured by the fitting.
3. Install the Auto draining water trap into the Air inlet of the Precision Flow by pressing the fitting on the water trap fully into the air fitting on the back of the Precision Flow. To ensure that the fitting have completely engaged, gently pull on the water trap.



4. Press the water bottle holder on to the VapoTherm Roll Stand approximately four inches below the auto draining water trap.



5. Insert the tube attached to the bottom of the water trap into the hole in the cap of the water bottle and press the water bottle into the water bottle holder.



Connecting the Air Hose

1. Push the end of the air hose onto the DISS air fitting on the back of the Q50 Compressor until it reaches the threads. Rotate the collar on the air hose, clockwise, so that the threads engage with the DISS air fitting. Tighten by hand.
2. Push the other end of the air hose on the DISS air fitting on the back of the Precision Flow unit. Rotate the collar on the air hose so that the threads engage with the DISS air fitting. Tighten by hand.




CAUTION: The air outlet hose should be connected prior to turning the compressor on.


Operating Instructions

Pre-operational Check

Prior to starting the Q50 unit, the user should verify the following:

1. Check the power supply
Ensure that the power cord is installed into an outlet with the appropriate power requirements.
2. Check that the Precision Flow unit is powered off
Disconnect the Precision Flow power.
3. Check the outlet hose to the Precision Flow unit
Verify that the outlet hose that supplies the Precision Flow unit with air is fully connected to the compressor and Precision Flow unit before turning the unit on.
4. Connect oxygen supply to Precision Flow (if applicable)
Connect an oxygen supply as directed in the Precision Flow Instructions for Use if oxygen concentrations above 21% are desired.

 **WARNING: Verify that the water bottle reservoir and water trap have been emptied prior to starting the compressor. Failure to do so may result in the spillage of liquid and could pose a slip hazard.**

 **WARNING: Verify that the air intake on the back of the unit and air exhaust on the bottom of the units are unobstructed.**

NOTE: When connecting to a wall air source, use the manual draining water trap and gas hose provided with the Precision Flow.

Starting the Compressor

After connecting the power cord, toggle the power inlet switch into the "I" position, after which the cooling fan, compressor, and hour meter will turn on simultaneously.



- ⚠ WARNING: Use only the power cord supplied with the compressor.**
- ⚠ WARNING: To avoid risk of electric shock, this equipment must only be connected to a supply mains with protective earth.**
- ⚠ WARNING: Ensure the air hose has been properly connected to the Precision Flow unit prior to powering on the compressor.**
- ⚠ WARNING: Ensure the Precision Flow is powered off before starting the compressor.**

After powering on the compressor, plug in the Precision Flow and begin therapy.

Running

Although the compressor itself utilizes fans to cool the motor and compressor sleeves, the Q50 has been designed with a secondary fan to provide additional cooling to the compressor as well as reduce the moisture content and temperature of the air being provided to the Precision Flow unit. The compressor has an internal

thermistor that will automatically discontinue operation of the compressor in the event of an overheating event.

Due to the inherent design of the Q50 compressor, while the unit is running, any air not demanded by the Precision Flow unit is simply recirculated within the system. This allows the compressor to run continuously without generating excessive pressure within the system or delivering flow not needed by the Precision Flow.

The water bottle reservoir should be checked once a shift (or every 8 hours) and emptied as appropriate. Actual emptying requirements will depend on environmental conditions.

To empty the water bottle:

1. Pull the water bottle from the water bottle holder and slide the draining tube out of the water bottle cap.
2. Empty the contents of the water bottle.
3. Reinstall by pushing the drain tube into the cap of the water bottle and pressing the water bottle into the water bottle holder.



NOTE: It is normal for some water to remain in the water trap bowl while draining the majority of the water to the water bottle.

When emptying the bottle, the water trap may also be emptied if desired.

To empty the water trap:

1. While the compressor is running, gently turn the gray knob on the bottom of the water trap towards the “O” marking. This manually opens the drain on the water trap.
2. When the water trap is empty, gently turn the gray knob in the direction of the “S” marking. This engages the seals within the water trap. Do not over tighten the gray knob.

! **CAUTION:** Using tools to tighten the gray knob on the bottom of the water trap may result in overtightening and damage to the High Altitude / High Flow Kit.

Shutting down the system

In order to shut the compressor system down, simply press the power inlet switch in the rear of the unit to the “ O ” position and the compressor will cease operation.

Electromagnetic Compatibility

Guidance and manufacturer's declaration – electromagnetic emissions		
<p>The Vapotherm Q50 compressor is intended for use in the electromagnetic environment specified below. The user of the Vapotherm Q50 compressor should assure that it is used in such an environment.</p>		
Emissions Test	Compliance	Electromagnetic environment – guidance
Harmonic emissions IEC 61000-3-2	Not applicable	The Vapotherm Q50 compressor is suitable for use in all establishments other than domestic and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
Voltage fluctuations/flicker emissions IEC 61000-3-3	Not applicable	
RF emissions CISPR 14-1	Complies	The Vapotherm Q50 compressor is not suitable for interconnection with other equipment.


The Vapotherm Q50 compressor was not tested for immunity to electromagnetic disturbances.

Cleaning and Disinfection

This manual is intended only to give general guidelines for the cleaning and disinfection of the compressor. It is the end user's full responsibility to ensure that any methods and techniques used are effective and conform to the institution's guidelines and procedures.

Part	Procedure	Comments
Compressor Exterior	Wipe the exterior according to hospital disinfection policies. Use clean water to remove any residual residue.	Do not allow liquids to infiltrate beyond the exterior surfaces of the compressor, or into any electrical interfaces or components.
Water Bottle Reservoir	Wipe the exterior of the water bottle reservoir and reservoir tubing according to hospital disinfection policies after emptying the water bottle reservoir and in between patient uses.	Do not allow liquids to infiltrate beyond the exterior surfaces of the compressor, or into the interior foam housing of the compressor.
	Rinse the water bottle reservoir with warm soapy water after emptying the water bottle reservoir and in between patient uses.	Confirm rinsing of the water bottle reservoir to remove soap residue.
Air Intake Filter	The air intake filter is located on the back of the unit. It should be removed once a week and cleaned. Brush any gross dust particles off the surface of the filter. Submerge the filter in warm soapy water and gently squeeze and massage the filter to flush any dust particles out of the interior of the filter. Air dry.	

Part	Procedure	Comments
	<p>Replace the dry filter into the inlet opening making sure that the filter is completely tucked into the opening and that there are no gaps around the filter.</p> <p>This procedure will help to assure the product's performance and service life by allowing the maximum amount of clean, dust-free air to be available for cooling the compressor motor.</p> <p>Replace the filter every 4000 hours or if there are any signs of tears, degradation or clogging of the filter material.</p>	
<p>Water Trap and Air Hose Exterior</p>	<p>Wipe the exterior according to hospital disinfection policies. Use clean water to remove any residual residue.</p>	<p>Do not allow liquid to enter the outlet of the water trap as this liquid will enter the Precision Flow device causing damage to the electrical and/or mechanical components.</p>
<p>Water Bottle Reservoir</p>	<p>Wipe the exterior of the water bottle reservoir and reservoir tubing according to hospital disinfection policies after emptying the water bottle reservoir and in between patient uses. Rinse the water bottle with warm soapy water in between patients.</p>	<p>Confirm rinsing of the water bottle reservoir to remove soap residue.</p>

 **WARNING: Cleaning and disinfection should be carried out according to institutional policies as they align with the below information.**

- Refer to the MSDS (Material Safety Data Sheet) for any agent used for cleaning or disinfection.
- Wear personal protective equipment as needed according agent being used.

 **CAUTION: To prevent damage to the unit:**

- Always remove power cord prior to any cleaning or disinfection of the compressor.
- If there are any questions regarding the safety or use of the disinfecting agent, refer to the manufacturer.
- Do not use abrasives such as steel wool to clean the compressor.
- Keep liquids away from the power inlet, hour meter, and/or other electrical components.
- Do not allow liquids to penetrate the equipment or otherwise contact materials inside of the housing.

Maintenance

The following maintenance should be completed at the stated intervals. Failure to do so could result in underperformance of the system and/or a reduced life of the product.

- Air intake filter cleaning once per week (wash). Replace every 4,000 hours or if there are any signs of tears, degradation or clogging of the filter material.
- Replacement filter for the auto draining air filter once per 4,000 hours
- Air intake muffler replacement once per 4,000 hours
- Compressor rebuild once per 8,000 hours
- Compressor motor replacement once per 20,000 hours
- Replace the filter element (Vapotherm Part Number 3101397) within the auto-draining water trap every 6 months or if any visible signs of contamination are present.

For ordering information please contact Vapotherm Customer Service at 1-866-566-2652.



WARNING: Disconnect power supply prior to opening unit. Failure to do so may result in serious injury.



CAUTION: Unit should only be serviced by qualified and trained personnel.

Troubleshooting

<i>Trouble</i>	<i>Fault State</i>	<i>Possible Cause</i>	<i>Method</i>
High Altitude / High Flow Kit makes a hissing sound	Air is escaping from the water trap	The gray knob which seals the water trap is loose.	Gently turn the gray knob in the direction of the "S" marking by hand. This engages the seals within the water trap. Do not over tighten. Do not use tools
No air output	Power inlet switch is on but there is no audible noise	Power cord is not connected or connected to a faulty outlet	Connect power cord and ensure that the outlet is functioning
	Power cord is connected to a functioning power outlet but there is no audible noise	The fuse is blown	Replace fuse with 250V 8A slow-blow fuse, Part number: 3100727
	The fuse failed repeatedly after being replaced	The soft start valve has failed	Call for service
	Power cord is connected to a functioning power outlet and there is an audible click inside the compressor, but no other noise	The cooling fan has failed, possibly causing the compressor to overheat or fail	Call for service

<i>Trouble</i>	<i>Fault State</i>	<i>Possible Cause</i>	<i>Method</i>
No air output, cont.	The cooling fan is running but not the compressor	Compressor has overheated	Ensure that the air intake filter is clean and the air intake and air exhaust are not blocked. Allow the compressor to cool for 20-30 minutes and attempt to restart
	The cooling fan is running but not the compressor even when the compressor is cool	The compressor has failed	Call for service
	The compressor and cooling fan are running	The air pipeline is not tightened properly	Tighten the fittings
	The air pipeline hose is OK and the exhaust noise can be heard inside the machine	Pipeline inside has disconnected.	Call for service
Air output is low causing PF to alarm	Insufficient pressure	Internal pressure regulator below recommended operating levels	Call for service

<i>Trouble</i>	<i>Fault State</i>	<i>Possible Cause</i>	<i>Method</i>
There is condensation in the PF water trap	Insufficient pressure	Internal pressure gauge below recommended operating levels	Call for service
	Airflow is blocked	Air inlet or exhaust are blocked or air filter needs cleaning	Clean air filter and ensure that the air inlets are not blocked
	Cooling fan is not operating (no airflow from exhaust port on bottom of compressor)	The fan has failed	Call for service
	Air flow required of the compressor exceeds capabilities.	FiO ₂ and flow rates exceed the guidance for high altitude operation provided on page 8	Follow guidance on page 8
	Water trap is collecting moisture not removed within the compressor	Operation at high altitude or high flow rates	Condensation is normal. Check the water bottle reservoir every 8 hours and empty as needed.

Disposal

The Q50 Compressor should be disposed of in accordance with the user's defined disposal procedure for electromechanical equipment.

Warranty

Vapotherm expressly warrants, for a period of one (1) year from the date of shipment by Vapotherm to the initial purchaser of the Q50 device ("Customer") that the Q50 device shall meet the specifications set forth in the applicable official operating instructions for use provided with each Q50 device (the "Instructions"). The sole remedy for this warranty is that Vapotherm shall, at its sole option, either refund, repair or replace any part or all of any Q50 device that is defective at no cost to the Customer. Vapotherm shall pay any shipping charges required in repairing or replacing any part or all of a Q50 device during the warranty period. Thereafter, shipping charges shall be paid by the Customer. Customer shall also be responsible for the cost of labor for repairs.

The warranty set forth herein shall become null and void if: (1) the Q50 device is not used or serviced in accordance with the applicable Instructions or any related preventative maintenance instructions provided with the Q50 device; or (2) repairs or service are performed or attempted on the Q50 device by anyone other than Vapotherm or a Vapotherm-certified service center.

EXCEPT AS EXPRESSLY SET FORTH ABOVE, VAPOTHERM MAKES NO WARRANTY, EXPRESS, IMPLIED, STATUTORY OR OTHERWISE, WITH RESPECT TO THE PRODUCTS OR ANY OTHER ITEMS PROVIDED BY VAPOTHERM, AND HEREBY EXPRESSLY DISCLAIMS ANY OTHER FORM OF WARRANTY, INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THIS STATED WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES PROVIDED BY LAW.



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