



***Breeze Concentrator***

**SERVICE  
MANUAL**

**Breeze Oxygen Concentrator  
Breeze OCSI Oxygen Concentrator  
Breeze Messenger Oxygen Concentrator**



# I Preface

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## SERVICE MANUAL

### **Breeze Oxygen Concentrator Breeze OCSI Oxygen Concentrator Breeze Messenger Oxygen Concentrator**

**CAIRE, Inc.  
3505 County Road 42 West  
Burnsville, MN 55306-3803**

**Customer/Technical Service:**

Toll Free Phone (U.S.A.):	1-800-48 CAIRE	(1-800-482-2473)
Toll Free Fax (U.S.A.):	1-888-WE CAIRE	(1-888-932-2473, to place an order)
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This manual covers use and maintenance of the Breeze Oxygen Concentrator, the Breeze OCSI Oxygen Concentrator, or the Breeze Messenger Oxygen Concentrator. It is intended for use by experienced personnel only.

No attempt should be made to maintain this equipment until both this manual and Patient Operating Instruction booklet have been read and fully understood.

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### III Preventative Maintenance Schedule

CAIRE Ref. No.:  
10844493

Model:  
Breeze Oxygen Concentrator

	Weekly (by patient)	As Needed	120 Days (approx.)	365 Days (approx.)	Indicated By Messenger Reporter
Clean Cabinet Intake Filter (Located right side of control panel.)					
Replace Cabinet Intake Filter					
Check O2 Concentration at Max. Prescribed Flowrate <ul style="list-style-type: none"> <li>◆ 1-5 LPM min. 90%</li> <li>◆ 5-6 LPM min. 87%</li> </ul> Check Alarm Function to Verify Adequate 9v Battery Voltage					

When the unit has an oxygen concentration level below the minimum specification, the following maintenance items should be reviewed:

- ◆ Replace the compressor intake Hepa filter.
- ◆ Replace the final filter.
- ◆ Replace the 9 volt battery.
- ◆ If necessary, rebuild or replace the compressor.
- ◆ As needed, vacuum dust and dirt from the interior of cabinet.

### III Preventative Maintenance Schedule

CAIRE Ref. No.:  
10848321

Model:  
Breeze OCSI Oxygen Concentrator

	Weekly (by patient)	As Needed	120 Days (approx.)	365 Days (approx.)	Indicated By Messenger Reporter
Clean Cabinet Intake Filter (Located right side of control panel.)					
Replace Cabinet Intake Filter					
Check O2 Concentration at Max. Prescribed Flowrate <ul style="list-style-type: none"> <li>◆ 1-5 LPM min. 90%</li> <li>◆ 5-6 LPM min. 87%</li> </ul> Check Alarm Function to Verify Adequate 9v Battery Voltage					

When the unit has an oxygen concentration level below the minimum specification, the following maintenance items should be reviewed:

- ◆ Replace the compressor intake Hepa filter.
- ◆ Replace the final filter.
- ◆ Replace the 9 volt battery.
- ◆ If necessary, rebuild or replace the compressor.
- ◆ As needed, vacuum dust and dirt from the interior of cabinet.

### III Preventative Maintenance Schedule

CAIRE Ref. No.:  
10961833

Model:  
Breeze Messenger Oxygen Concentrator

	Weekly (by patient)	As Needed	120 Days (approx.)	365 Days (approx.)	Indicated By Messenger Reporter
Clean Cabinet Intake Filter (Located right side of control panel.)					
Replace Cabinet Intake Filter					
Check O2 Concentration at Max. Prescribed Flowrate <ul style="list-style-type: none"> <li>◆ 1-5 LPM min. 90%</li> <li>◆ 5-6 LPM min. 87%</li> </ul> Check Alarm Function to Verify Adequate 9v Battery Voltage					

When the unit has an oxygen concentration level below the minimum specification, the following maintenance items should be reviewed:

- ◆ Replace the compressor intake Hepa filter.
- ◆ Replace the final filter.
- ◆ Replace the 9 volt battery.
- ◆ If necessary, rebuild or replace the compressor.
- ◆ As needed, vacuum dust and dirt from the interior of cabinet.
- ◆ Verify accuracy of Messenger.

## IV Troubleshooting

### Audible alarm activated, Concentrator is not running, circuit breaker tripped, no alarm lights.

PROBABLE CAUSE	REMEDY
Power outage, tripped circuit breaker.	Reset push button circuit breaker (top control panel).
Loose/disconnected motor-run or cold start capacitor wire.	Repair or reconnect.
Faulty motor-run or cold start capacitor.	Replace capacitor.
Seized or partially seized compressor.	Replace or repair compressor.
Defective or shorted wiring.	Repair.
Defective circuit breaker.	Replace circuit breaker.
Faulty power switch.	Replace.

### Audible alarm activated, Concentrator is not running, circuit breaker has not tripped, no alarm lights.

PROBABLE CAUSE	REMEDY
Power cord not plugged in.	Plug in power cord.
No power at wall power outlet.	Check house circuit breaker or fuse. Repair.
Faulty unit power switch.	Replace.
Loose or disconnected wiring.	Repair.
Line voltage is low.	Unit restart is automatic upon restoration of proper voltage (115 volts $\pm$ 11.5 volts).
Faulty or disconnected OCSI.	Replace or repair.

### Audible alarm activated, Concentrator is not running, circuit breaker has not tripped, red alarm is on.

PROBABLE CAUSE	REMEDY
Thermal switch has shut down compressor because of high internal temperature.	<ul style="list-style-type: none"> <li>• Replace/repair fan.</li> <li>• Remove any obstructions to intake or exhaust.</li> <li>• Locate unit in well ventilated area.</li> <li>• Possible defective thermal switch.</li> </ul>

### No oxygen flow, unit running no alarm indications.

PROBABLE CAUSE	REMEDY
Humidifier or patient tubing blocked or kinked.	Clean or replace humidifier, repair or replace tubing.
Tubing between ATF module and oxygen outlet blocked or kinked.	Remove unit cabinet and check tubing and components for blockage. Repair or replace as necessary.
Final filter blocked.	Replace.
Control valve is closed.	Turn valve counter clockwise to open/increase flow.

### Low oxygen flow, flow adjusting valve full open.

PROBABLE CAUSE	REMEDY
Leak or restriction in tubing or component following ATF module.	Repair or replace as required.
Restriction in humidifier or patient tubing.	Repair or replace as required.
Restriction internal to ATF module.	Using portable flowmeter check maximum delivery from ATF module outlet, if unable to get 6 lpm or greater flow, replace module.
Final filter restricted.	Replace.



## IV Troubleshooting

### Low concentration, 70% to 85% O<sub>2</sub>, yellow alarm (OCSI Model).

PROBABLE CAUSE	REMEDY
Output flow set above 6 lpm.	Adjust flow to a lower setting.
Small compressed air leak that does not cause low pressure alarm but does cause low concentration. This will occur only at oxygen flows of 4 lpm or higher.	Repair any leaks between compressor and ATF module.
Slightly low compressor output due to clogged filters or minor valve or seal problems with compressor. Behavior is similar to small leaks that do not cause low pressure alarm.	Repair or replace components.
ATF module is damaged or has been exposed to contamination. Check for high compressor discharge pressure to confirm problem.	Replace ATF module.
Leak in oxygen circuit between ATF module and flowmeter.	Repair leak.

### Concentration above 85% O<sub>2</sub>, yellow alarm (OCSI Model).

PROBABLE CAUSE	REMEDY
OCSI out of calibration.	Recalibrate or replace.

### Audible alarm activated, Concentrator is running, red alarm light is on.

PROBABLE CAUSE	REMEDY
Compressor is worn or failed causing low pressure. Low pressure sensor has activated alarm.	Repair or replace compressor.
A leak exists in the compressed air lines causing the low pressure alarm to activate.	Repair or replace leaking components.
Faulty pressure switch.	Replace.
Flow rate is set in excess of 7 LPM resulting in the low pressure sensor activating.	Adjust flow rate to prescribed setting.

### Relief valve audio alarm activated, concentrator running, no alarm indications.

PROBABLE CAUSE	REMEDY
ATF module drive motor has failed, causing high pressure to vent relief valve.	Check for faulty component and repair or replace as required.
Faulty relief valve.	Replace.

### Low concentration, below 70% O<sub>2</sub>, red alarm (OCSI model).

PROBABLE CAUSE	REMEDY
Output flow set well above 6 LPM.	Adjust flow to a lower setting.
Compressed air leak.	Repair or replace components.
Low compressor output.	Repair or replace.
Clogged filters.	Replace.
Faulty ATF module.	Replace.
Leak in oxygen circuit.	Repair.

## **V Electrical System Components**

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### **POWERSWITCH** (Reference #48)

The power switch is a three-pole, single throw, push button type. It is panel mounted. For the Breeze concentrator two sets of poles are in service.

- ◆ Pole 4 is used to switch AC power on and off. The AC power is on when the push button is low, (green lamp lighted), and off when the push button is high.
- ◆ Pole 3 is used to switch the alarm circuit (9 volt DC) on and off.
- ◆ Pole 2 does not exist on this switch!
- ◆ Pole 1 is not used for the Breeze concentrator.

Note: When the power switch is "ON", the audio alarm will sound when the pressure switch contacts are closed (low pressure). This audio alarm will sound with the unit plugged in or not plugged in. A 9 VDC battery (reference #19) powers the alarms. When powered on, the compressor will quickly build pressure, open the pressure switch contacts, and deactivate the audio alarm. The green lamp will light when the unit is "ON" and correctly powered.

### **COOLING FAN** (Reference #27)

The cooling fan provides cool air through the inlet air filter (reference #1) located at the right side of the upper front panel of the concentrator. After passing through the intake filter, the cooling air is drawn through the ATF module compartment and then is blown into the compressor compartment. The cooling air is then directed across the compressor after cooler tubing, and finally exits at the grille at the upper left rear of the cabinet.

***Caution: The patient must clean the intake air filter weekly to maintain the required airflow for cooling.***

***Caution: The cooling air intake and exhaust grilles must remain free of obstructions to assure proper cooling of the oxygen concentrator.***

### **HOUR METER** (Reference #18)

The hour meter is located behind the front panel access door. The hour meter indicates the total elapsed running time for the concentrator. The display resolves running time to 1/10 hour, and reads to a maximum running time of 99,999.9 hours. The display will then return to 000000.0 hours and begin to accumulate the time again.

## **V Electrical System Components**

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### **CIRCUIT BREAKER** (Reference #5)

The AC electrical system is protected from overloads and short circuits by a single pole circuit breaker. The circuit breaker is a push button reset type and the push button is located at the top right of the control panel. The push button must be in the depressed position for the Breeze unit to operate.

### **PRESSURE SWITCH** (Reference #52)

The pressure switch is a sensor that will close a circuit activating the alarm function when the oxygen product pressure falls below normal. This alarm circuit has a 9 volt battery power supply and will activate even when the unit is not plugged into an AC service outlet. For applications at higher altitudes the pressure switch may need to be adjusted to a slightly lower set point. Call CAIRE® for assistance.

### **ATF DRIVE MOTOR** (Reference bottom of # 40)

The ATF drive motor is simply a very accurate clock drive motor that rotates a valve that cycles the sieve beds of the ATF module.

### **CAPACITOR, MOTOR RUN** (Reference #30)

The air compressor motor requires a running capacitor for proper operation.

### **COLD START CAPACITOR KIT (optional)** (Reference #43)

The cold start capacitor kit is a device that installs parallel into the capacitor circuit of the compressor. This device provides a momentary additional capacitance to the air compressor motor during start up to provide additional torque. This additional torque will allow the unit to start at lower temperatures.

### **AUDIO ALARM (Base models only)** (Reference #59)

A DC voltage audio device for the alarm function. *This function is provided for by a device on board the OCSI circuit board for the units equipped with the oxygen monitoring system.*

## **V Electrical System Components**

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### **TEMPERATURE SWITCH (Thermal Switch)** (Reference #32)

A temperature switch is provided to shut off the air compressor in the event of high cabinet temperature. This protection is provided mainly to protect the unit in the event of cabinet ventilating fan failure or a blocked ventilating air intake/exhaust.

### **AIR COMPRESSOR** (Reference #20)

A twin cylinder air compressor with an integral split phase, capacitor run, electric motor is provided, supplying compressed air for the oxygen concentration process.

### **RED LIGHT (only for Base Models)** (Reference # 50)

A red LED is provided to indicate an alarm condition. The 9-volt DC battery powers this light. *When units are equipped with the OCSI option the red lamp functions are provided by a circuit board mounted red indicating lamp.*

### **GREEN LIGHT (only for Base Models)** (Reference #49)

A neon AC green lamp is provided to indicate that the unit is properly powered. *When units are equipped with the OCSI option the green lamp functions are provided by a circuit board mounted green indicating lamp.*

### **OCSI CIRCUIT BOARD (optional)** (Reference #51)

The OCSI system is an on board oxygen sensing system that utilizes an ultrasonic sensing technique to determine the oxygen concentration in the product stream. Included on this circuit board are the indicating lights for: low battery and alarm functions (red light), low oxygen concentration (yellow light), and power on (green light). If the oxygen concentration is 85% or higher the green lamp is lit, if between 70% and 85% the yellow lamp is lit, and if the oxygen concentration falls below 70% the red lamp will light. See section VIII Service Instructions, for calibration of the OCSI.

### **MESSENGER CONTROL BOARD (optional)** (not shown)

The Messenger Control Board interfaces with the OCSI board. The Messenger system provides a means of remotely monitoring the Breeze operation via a telephone/computer interface. This circuit board carries various power and signals.

## **VI Compressor Replacement**

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### **COMPRESSOR KIT INSTRUCTIONS**

1. Make sure unit is turned off and unplugged.
2. Use a Phillips screwdriver to remove the bolt for the filter access door.
3. Use a Phillips screwdriver to remove the bolt for the compressor cover.
4. Pull compressor cover off.
5. Use a 9/32" socket to loosen the hose clamp for the compressor discharge line. Slide hose off barbed elbow.
6. Use a 1/8" hex (Allen) wrench to remove front compressor mounting shoulder bolts.
7. Slide compressor assembly out of unit, by pulling in a horizontal direction.
- 8a. Disconnect compressor harness by depressing the side of the plug and then gently pull out.
- 8b. Disconnect spaded terminal connections (4) on older style Breeze units, which do not have Molex quick disconnect harness.
9. Reverse steps #8 thru #1 to install new compressor assembly. Note, make sure compressor assembly is positioned on springs, such that the rubber grommets are inserted into the spring ends and the mounting bolts are centered.
10. Plug in unit and run to verify performance. If unit is excessively noisy, the compressor assembly is not mounted in an optimum manner.

## VII ATF Module Replacement

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### ATF MODULE KIT INSTRUCTIONS

1. Make sure unit is turned off and unplugged.
2. Use a Phillips screwdriver to remove the bolts (4 typ.) for the rear cover.
3. Pull rear cover off.
4. Use a Phillips screwdriver to remove the ATF clamp clips (3 typ.).
5. Use a 9/32" socket to remove the hose clamp for the air intake line at the base of the ATF module. Slide hose off stub.
6. Pull off oxygen output line at top of the ATF module.
7. Remove ATF wires from wire clip near base of the module.
8. Remove ATF module from unit by lifting straight up and then out. **Note the installed orientation of the ATF module with the unit.**
- 9a. Unplug ATF wire harness by depressing the side of the plug and then gently pull out.
- 9b. Disconnect spaded terminal connections (2) on older style Breeze units, which connect directly to terminal block.
10. Reverse steps #9 thru #1 to install new ATF sieve module. Note, the ATF module has a bracket on the underside of the top dome (90° from oxygen outlet) that clips into a support on the main unit. **Also, when installing the ATF module, be alert to wire position, so they do not get pinched. Reinsert wires into clip.**
11. Plug in unit and run to verify performance.

## VIII Service Instructions

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### OCSI CALIBRATION

#### Tools

1. Phillips Screwdriver #2
1. Socket Wrench 7mm (or) Torx™ Screwdriver #T20
3. Flat Blade Screwdriver with Electrically Insulated Handle
4. Calibrated Oxygen Concentration Meter

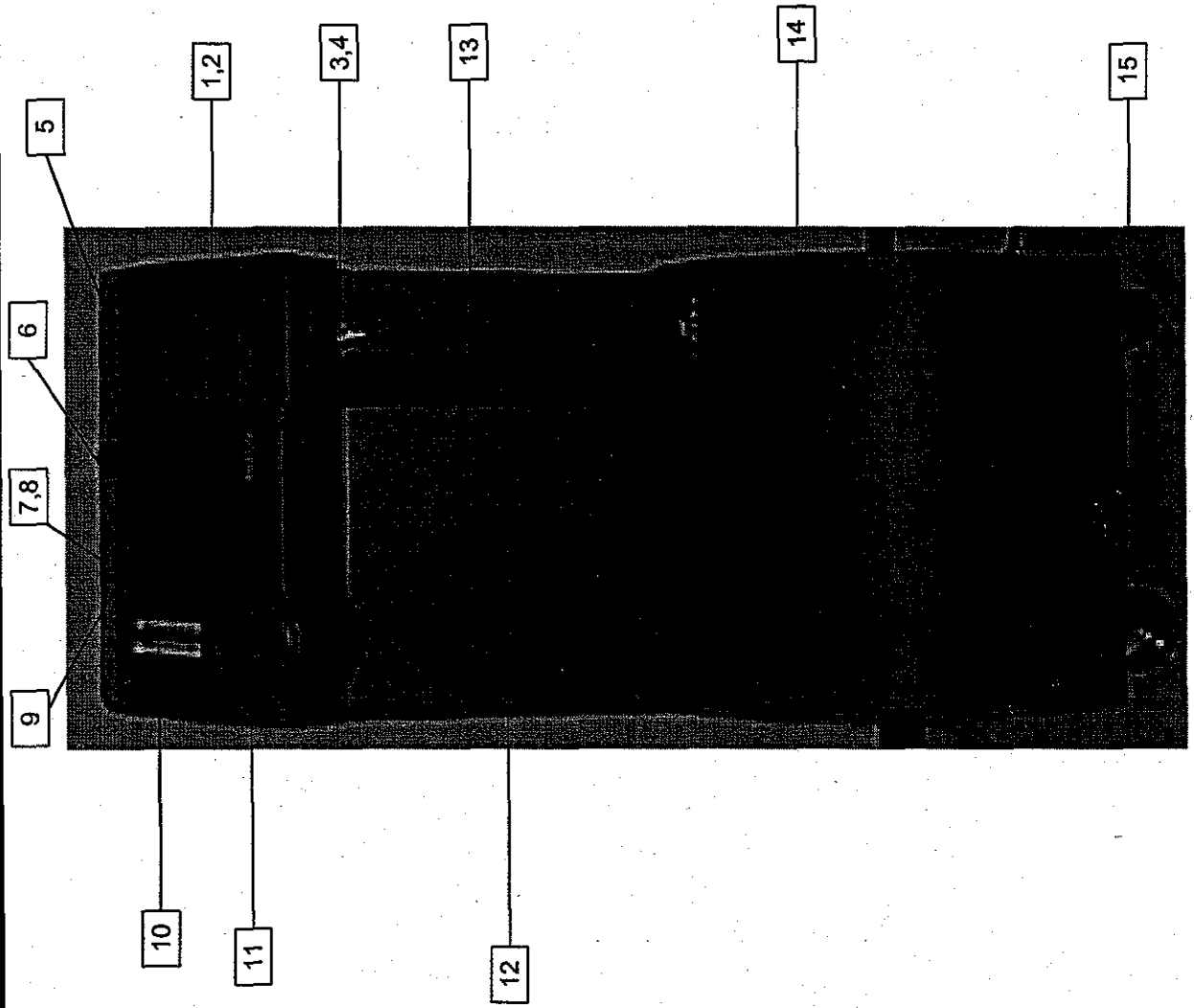
#### Applicable Models

1. Breeze OCSI

#### Procedure

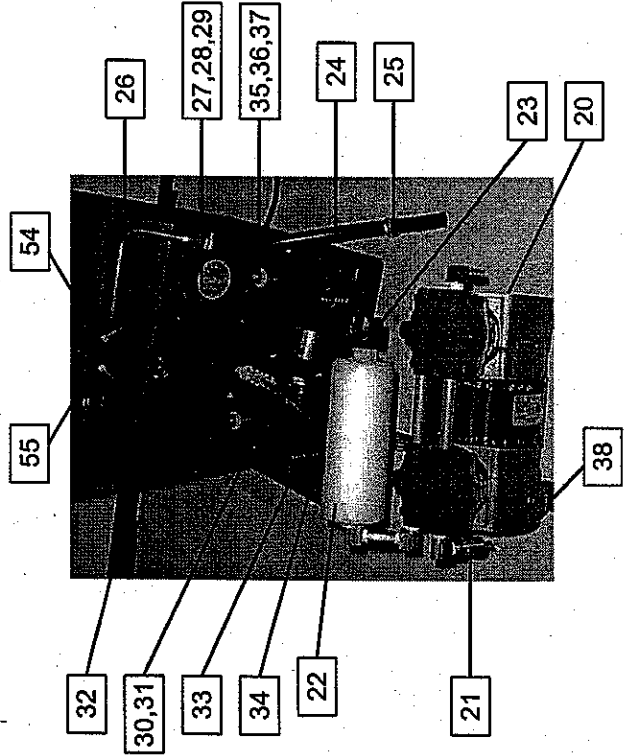
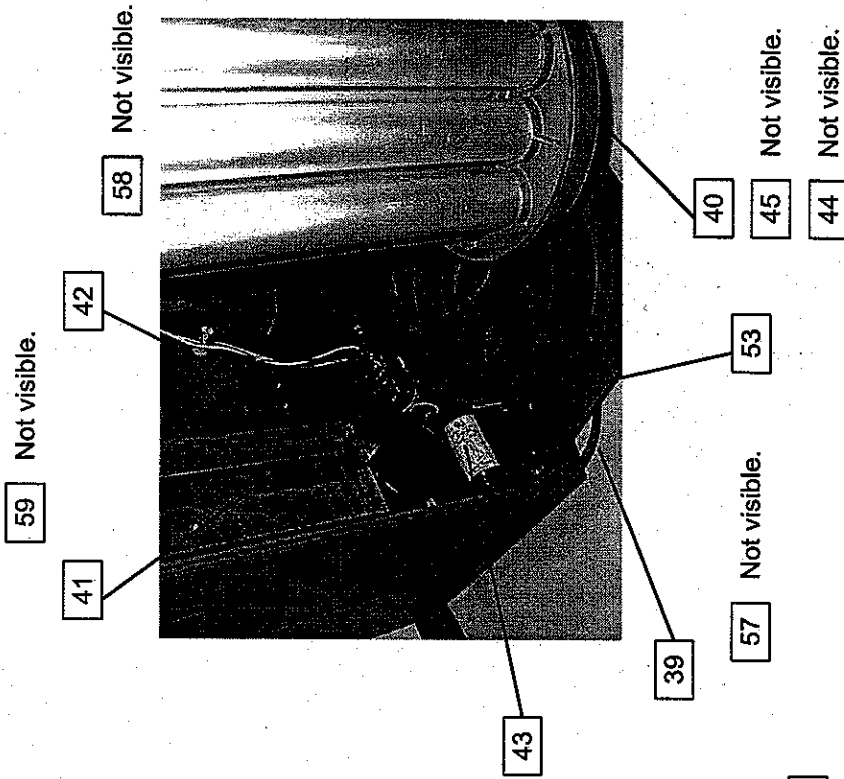
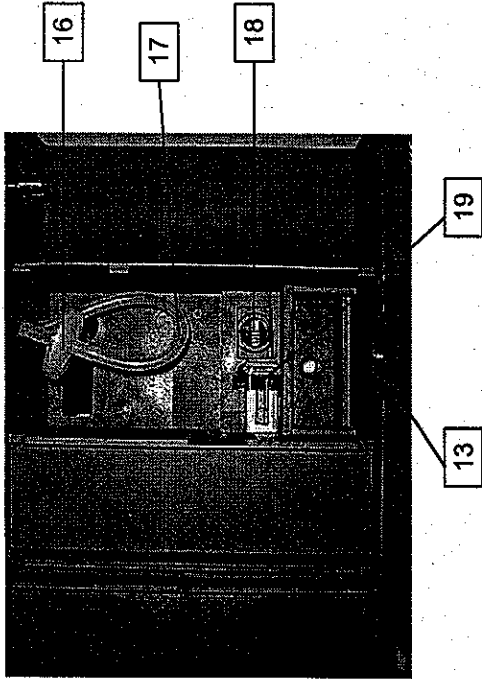
1. *Verify the Concentrator is turned off and unplugged.*
2. Using the Phillips screwdriver, remove screws (4) to take off rear cover.
3. Using either the socket wrench or the Torx™ screwdriver, remove screws (2) to take off top control panel.
4. Locate the combination LED/OCSI board.
5. Carefully, plug-in unit and turn Concentrator on. *Note, the outlet flow should be set between 3-4 LPM.*
6. Allow unit to warm-up for a minimum of 5 minutes.
7. Connect a calibrated oxygen concentration meter to the outlet.
8. Verify the outlet oxygen concentration is above 94.5%
9. Using the tip of the flat blade screwdriver, carefully ground out the calibration pins, by touching both posts simultaneously for 30 seconds (see page #17).
10. Reconnect top control panel, paying close attention that no wires or tubes are pinched.
11. Reconnect rear cover.

# IX Spare Parts List



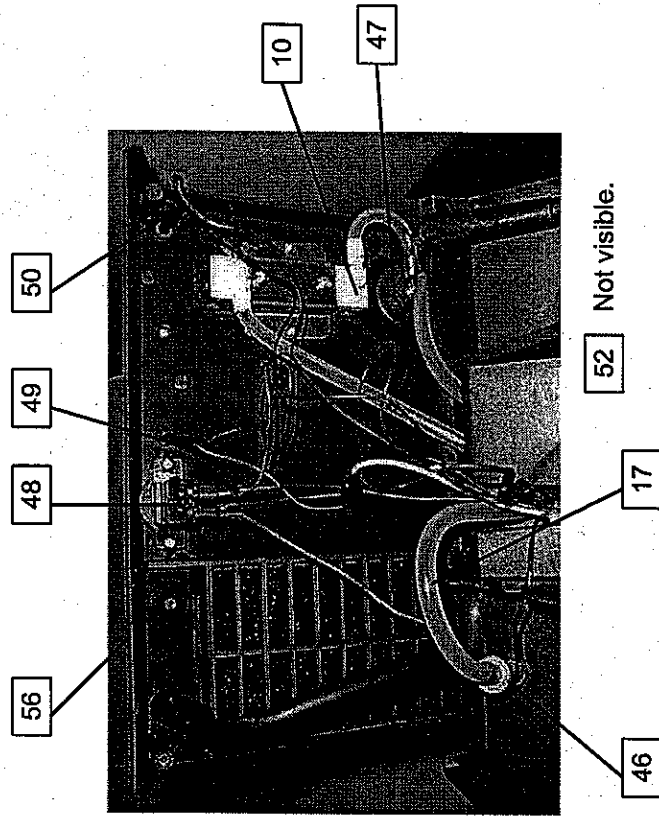


# IX Spare Parts List

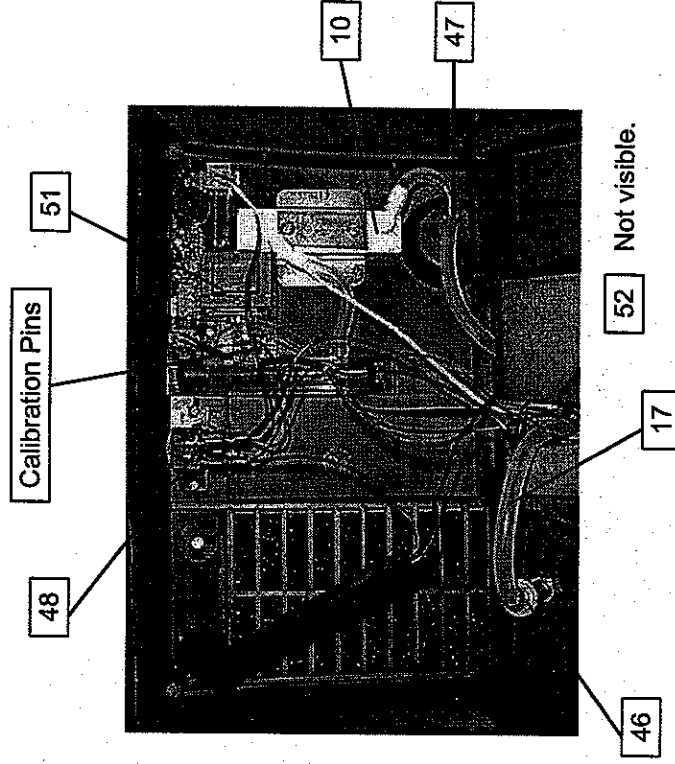


# IX Spare Parts List

Base Model:



OCSI Model:



## IX Spare Parts List

Ref. No.	Part Number	Description	Spares Per 100 Units	Quantity Used	Quantity Ordered
	10844493	Breeze		A/R	
	10848321	Breeze OCSI		A/R	
1	10740408	Cabinet Filter	3	1	
2	10740444	Cabinet Filter Frame	3	1	
3	10786490	O2 Outlet Fitting (panel mount)	1	1	
4	14165	O2 Outlet Nut (panel mount)	1	1	
5	10848582	Circuit Breaker (8 amp)	1	1	
6	10740424	Power Switch Button	1	1	
7	10844549	LED Control Panel Label (base model)	1	1	
8	10848339	LED Control Panel Label (OCSI model)	1	1	
9	10844670	Control Panel (no plumbing included)	1	1	
10	10861058	Flow Meter 0-6 LPM	1	1	
11	10739933	Control Valve Knob	1	1	
12	10740446	Access Panel Door	1	1	
13	10801389	Cover Bolts	6	6	
14	10855871	Compressor Cover (includes foam)	1	1	
15	10739992	Caster	1	4	
16	14709	Patient Bacteria Filter	3	1	
17	10740420	Silicone Tubing 3/16" ID Clear	1	5 ft.	
18	10786481	Hour Meter	1	1	
19	CA110060	Battery 9 Volt	1	1	
20	10855900	Compressor Assembly	1	1	
21	10877375	Relief Valve 30 PSI	1	1	
22	10850421	HEPA Intake Filter	3	1	
23	10879320	Black Muffler	1	1	
24	10893666	Silicone Tubing 3/8" ID Blue	1	13 in.	
25	888-006-103	Hose Clamp	1	4	
26	10844506	Heat Exchanger	1	1	
27	13320	Cooling Fan	1	1	
28	15058	Fan Mount Insert	1	4	

## IX Spare Parts List

Ref. No.	Part Number	Description	Spares Per 100 Units	Quantity Used	Quantity Ordered
29	14156	Fan Mounting Bolt	1	4	
30	10829453	Capacitor 15 UF	1	1	
31	10780881	Capacitor Bracket	1	1	
32	10785518	Thermal Switch (150F)	1	1	
33	10875951	Compressor Mount Spring	1	4	
34	10800546	Compressor Mount Footpad	1	4	
35	10747773	Compressor Mount Shoulder Bolt	1	4	
36	10784451	Compressor Mount Shoulder Washer	1	4	
37	10747829	Compressor Mount Grommet	1	4	
38	10747845	Compressor Mounting Bracket	1	2	
39	10855889	Power Cord (0.25" OD)	1	1	
39	10914754	Power Cord (0.30" OD)	1	1	
40	10822631	ATF Module Kit	1	1	
41	10844602	Terminal Block	1	1	
42	10844531	Fan Cord	1	1	
43	10871686	Cold Start Capacitor	1	1	
44	10786609	ATF Mounting Bolt	1	3	
45	10740432	ATF Mount Clip	1	3	
46	701-007-401	Check Valve	1	1	
47	10739925	Control Valve	1	1	
48	10740264	Power On/Off Switch	1	1	
49	10914762	Green Light Harness (base model only)	1	1	
50	10846616	Red Light Harness (base model only)	1	1	
51	10879311	OCSI Board (only unit SN 4419704060 and newer)	1	1	
52	10880013	Pressure Switch	1	1	
53	10786570	Wire Clip	1	1	
54	CA403730	Cable Tie	2	2	
55	10847424	Heat Exchanger Mounting Foam	1	4 in.	
56	10915870	Base Model Control Panel w/Lights	1	1	
57	10740430	Strain Relief (0.25" OD Cord)	1	1	
57	10888496	Strain Relief (0.30" OD Cord)	1	1	

## IX Spare Parts List

Ref. No.	Part Number	Description	Spares Per 100 Units	Quantity Used	Quantity Ordered
58	11420	Silicone Tubing ½" ID Green	1	7.5 in.	
59	10785500	Audio Alarm (base model only)	1	1	
*	10750913	Instruction Label	1	1	
*	10860987	Packaging Kit	1	1	
*	10844573	Patient Operating Instruction Booklet	1	1	
*	10740433	Rear Cover	1	1	
*	10844557	Serial No. Label (base model)	1	1	
*	10848347	Serial No. Label (OCSI model)	1	1	
*	10860848	Control Panel Mounting Screws	2	2	
*	10855491	External Messenger	N/A	N/A	
*	10914594	Internal Messenger	N/A	N/A	

\* Not shown in diagram.

## IX Spare Parts List

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### Ordering Information

The following steps should be used when ordering new equipment or replacement parts for an existing unit:

1. **Compile a list of all equipment and replacement parts to be ordered.**
2. **Fill out a purchase order containing the following information:**
  - a. Purchase order number.
  - b. Name and address of billing location.
  - c. Name and address of shipping location.
  - d. Quantity, part number, description, and unit cost for each item ordered.
3. **Telephone or fax CAIRE at one of the numbers listed below to begin immediate processing of the order:**

Toll Free Phone (U.S.A.):	1-800-48 CAIRE	(1-800-482-2473)
Toll Free Fax (U.S.A.):	1-888-WE CAIRE	(1-888-932-2473)
Phone:	1-952-882-5179	
Fax:	1-952-882-5178	
4. **Mail the completed purchase order for confirmation of the order to:**

CAIRE, Inc.  
3505 County Road 42 West  
Burnsville, MN 55306-3803 U.S.A.

All new equipment will be shipped either "prepaid", F.O.B. Burnsville, or collect, via your specified carrier. All replacement parts will be sent by UPS "prepaid", and the shipping charges for equipment and parts will be added to the final invoice. Payment for replacement parts is CAIRE invoice date. All shipments will originate from Burnsville, Minnesota. If a particular carrier or method of shipment is desired, specify when placing order.

# **X Warranty Statement**

## **Breeze and Breeze OCSI - Limited Dealer Warranty**

CAIRE Inc. (CAIRE) warrants to the original purchaser ("Purchaser") that each new Quiet One and Breeze product (each a "Product"), shall be free from defects in materials and workmanship for a period of five (5) years from the date of shipment, except as provided below. CAIRE warrants all compressor components ("Components") shall be free from defects in materials and workmanship for a period of three (3) years from the date of shipment, except as provided below. CAIRE warrants all ATF molecular sieve modules shall be free from defects in material and workmanship for a period of seven (7) years from the date of shipment, except as provided below.

Purchaser agrees that before this limited warranty shall become effective, Purchaser shall fully inspect each Product within ten (10) days of delivery and before such Product is put to use. Purchaser also agrees to operate the Product in accordance with CAIRE's operating instructions and that failure to do so shall void this limited warranty. Purchaser further agrees that any claim for breach of warranty must be made in writing within 30 days of discovery of a purported defect. CAIRE will not be responsible for any alleged breach of warranty which, as a result of CAIRE's inspection, CAIRE determines to have arisen from a cause not covered by this limited warranty. CAIRE will charge a nominal fee which will cover the unit to be patient ready when returned to the original purchaser.

This limited warranty does not apply to: (A) Normal routine service items; (B) Repair or replacement necessitated by misuse, abuse, accident, or repairs made by persons other than CAIRE or persons not authorized by CAIRE; (C) Use of Components with the Product other than those approved by CAIRE; (D) Defects caused by the effects of normal wear and tear; (E) Acts of God, or other causes not within the control of CAIRE.

If Purchaser believes that a Product or Component does not comply with the limited warranty stated above, Purchaser should contact CAIRE at the address stated above, describing the problem and providing proof of the date of purchase. If directed by CAIRE, Purchaser shall return Products and Components freight prepaid, properly packaged in a CAIRE approved shipping container and properly identified by a Return Material Authorization Number issued by CAIRE. Products and Components returned without a Return Material Authorization Number will be refused and returned at Purchaser's expense.

The remedies available for any breach of this limited warranty are limited to repair or replacement of the defective Product or Component or refund of the purchase price, at the sole discretion of CAIRE. CAIRE warrants that replacement or repaired Products and Components shall be free from defects in material and workmanship for the duration of the unexpired portion of the original warranty or ninety (90) days from the date of re-shipment to Purchaser, whichever is longer. CAIRE SHALL HAVE NO FURTHER LIABILITY FOR DAMAGES, LOSSES, COST OR FEES OF ANY KIND OR NATURE, WHETHER FORESEEABLE OR NOT, INCLUDING BUT NOT LIMITED TO ATTORNEY'S FEES AND CONSEQUENTIAL, GENERAL, SPECIAL, EXEMPLARY OR PUNITIVE DAMAGES, ARISING OUT OF OR RELATED TO THE USE OF CAIRE EQUIPMENT, EVEN IF CAIRE HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, LOSSES, COST OR FEES.

**EXCEPT FOR THIS LIMITED WARRANTY, CAIRE HAS MADE NO WARRANTIES OR REPRESENTATIONS, EXPRESSED, OR IMPLIED, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. NO REPRESENTATION OR STATEMENT OF CAIRE MAY CHANGE OR ALTER THIS LIMITED WARRANTY.**

Any claims for breach of this limited warranty shall be governed by Minnesota law and must be brought in a state or federal court in Minnesota.

Some states do not allow limitations on implied warranties or on incidental or consequential damages, so the above limitations may not apply. This limited warranty gives the Purchaser specific legal rights. Purchaser may also have other rights which vary from state to state.

## **XI Return Policy**

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When a Breeze Concentrator is received, it should be inspected immediately.

If a problem with the unit should be encountered, reference should be made to the Troubleshooting Chart in Section IV, page 7-8. If these procedures do not provide a solution for the problem, the following steps should be taken:

1. Call CAIRE, using one of the toll-free numbers, and request a Medical Technical Service Representative. State the problem with the unit. If it is determined that the problem cannot be solved by the TSR, a "Return Authorization Number" will be assigned to the unit or part(s). If a Purchase Order Number is to be referenced, please give this number to the Technical Service Representative at that time.
2. **Carefully package the parts, or repack the unit in its original shipping container, precisely as shipped.**
3. Write the Return Authorization Number on the top of the shipping container.

**Note:** Otherwise unit will be returned.

4. Return the unit or parts by professional carrier to:

**CAIRE, Inc.  
3505 County Road 42 West  
Burnsville, MN 55306-3803 U.S.A.**

All equipment returned to CAIRE must be shipped "prepaid":

When the defective item(s) is received at CAIRE, it will be serviced and returned to the distributor as soon as possible. A copy of the "Repair Cost Sheet" will be enclosed giving a detailed listing of any maintenance performed.

### **Restocking Policy**

If it becomes necessary to cancel an order with CAIRE after the shipment has been received, use the following "Restock Policy" procedure:

1. Notify the Customer Service Department at CAIRE using one of the toll-free numbers. When contacting customer service personnel, it will be necessary to relay the following information:
  - a. State the quantity and description of equipment to be returned.
  - b. Give the Serial Number of each unit to be returned.
  - c. State the equipment purchase date.
2. A Return Authorization Number will be issued in the name of the distributor by CAIRE for the equipment to be returned. When the equipment is shipped to the factory, the Return Authorization Number must appear on the packing slip and boxes.

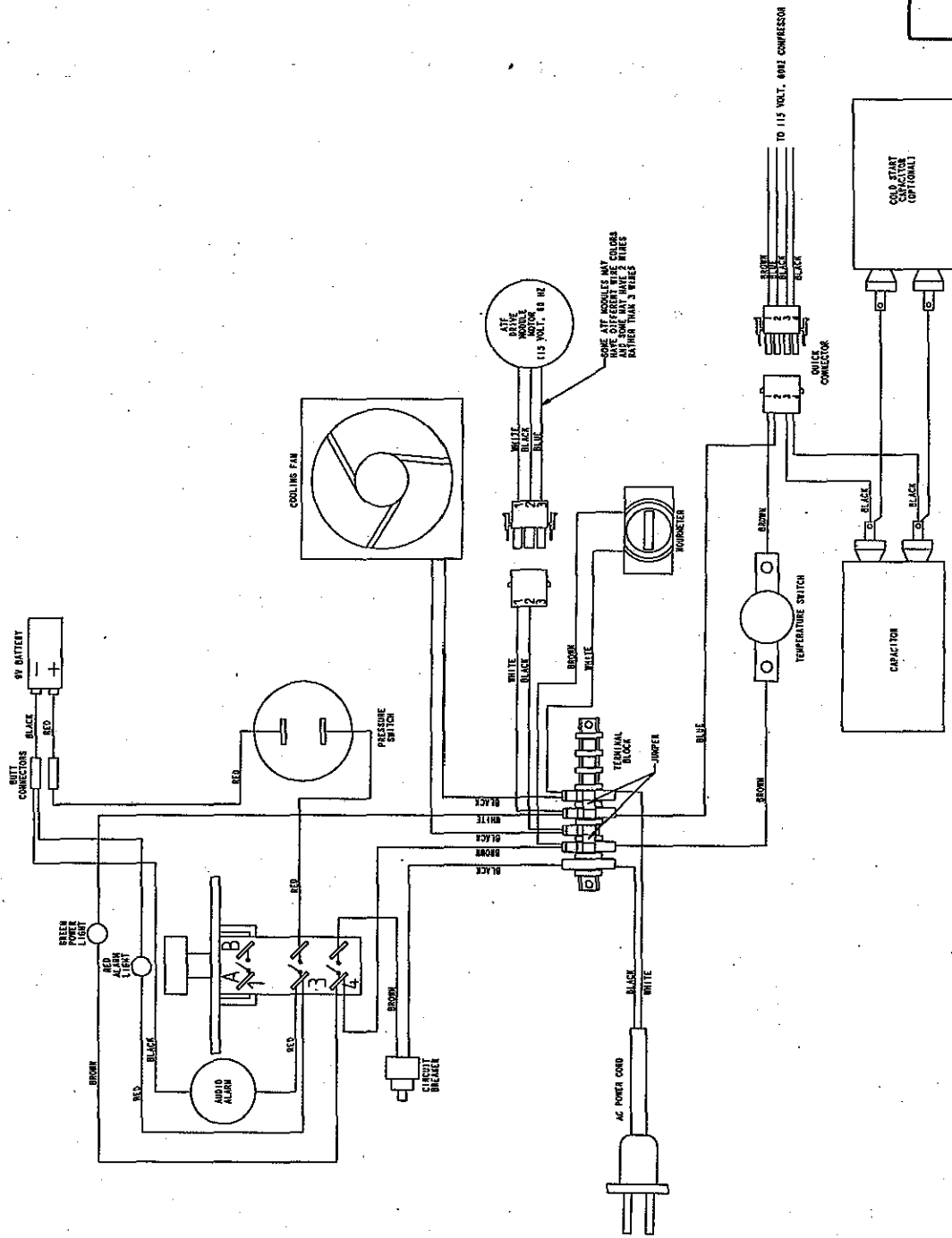
**Note:** Otherwise box will be returned.

3. All equipment must be returned "prepaid" to:

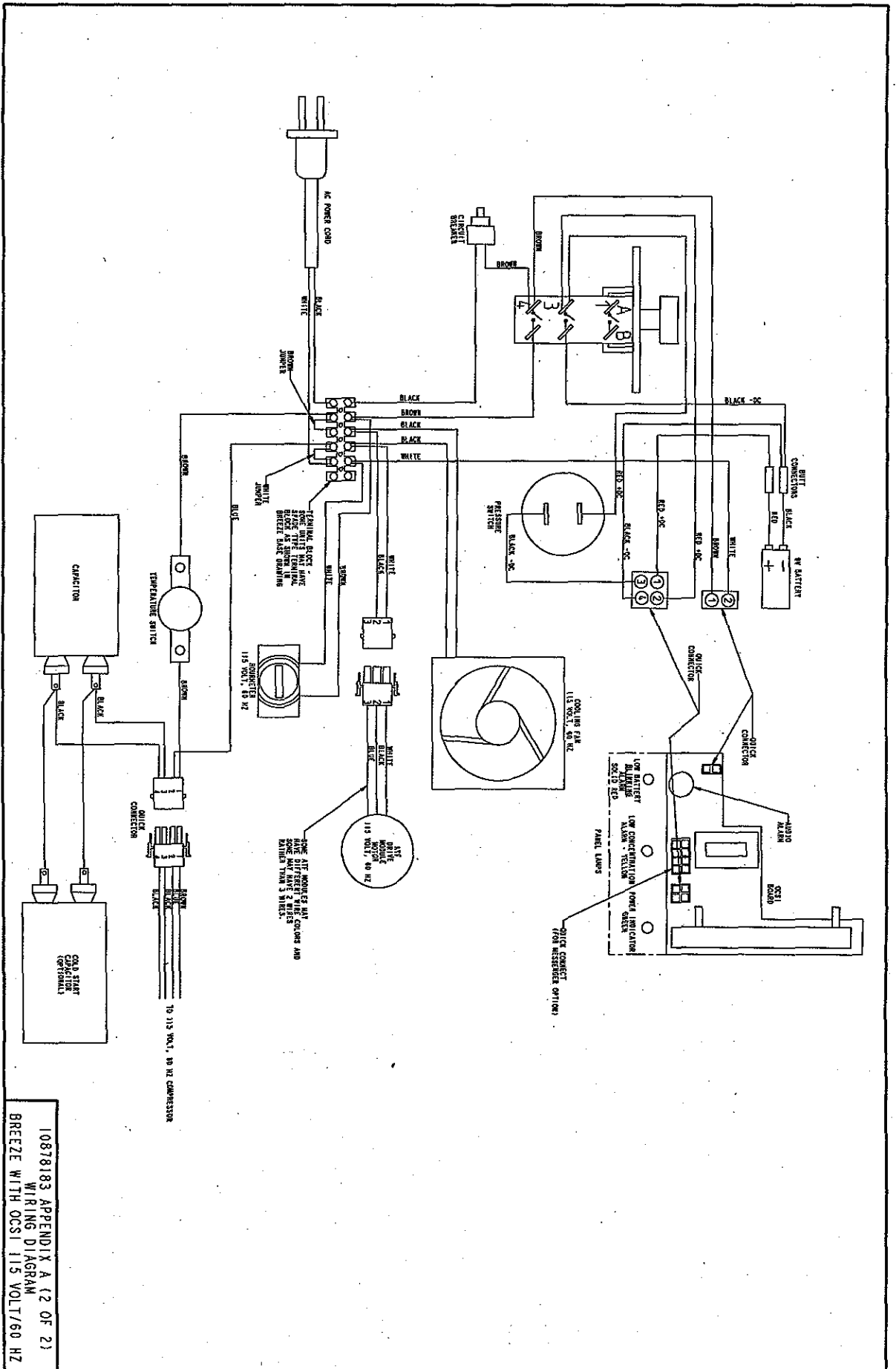
**CAIRE, Inc.  
3505 County Road 42 West  
Burnsville, MN 55306-3803 U.S.A.**

4. Finally, a "Credit Memo" will be issued to the distributor when all equipment has been received, inspected, and restocked by CAIRE.

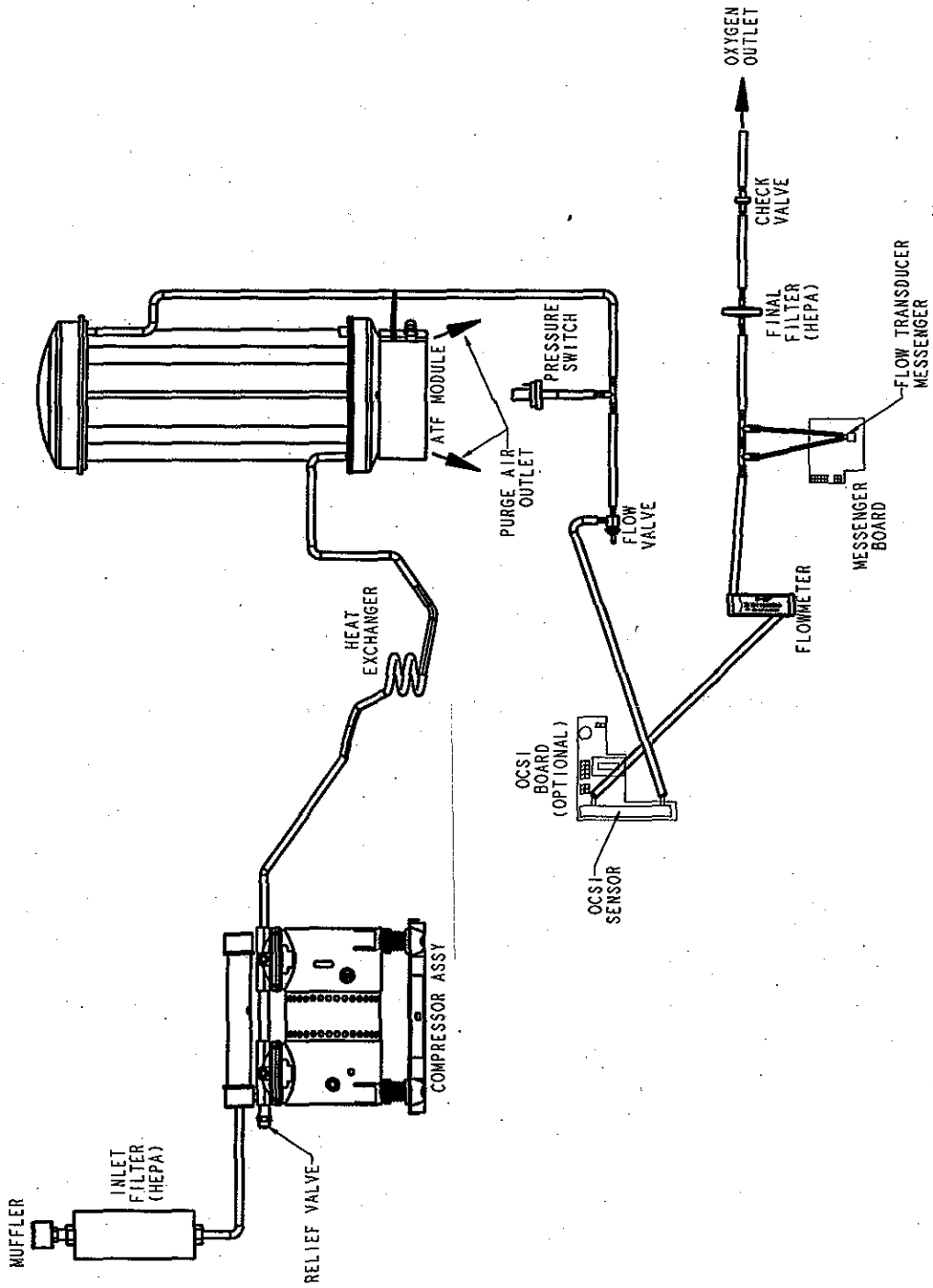




10878183 APPENDIX A (1 OF 2)  
 WIRING DIAGRAM  
 BREEZE BASE MODEL 115 VOLT/60 HZ



10878183 APPENDIX A (2 OF 2)  
 WIRING DIAGRAM  
 BREEZE WITH OSCI 115 VOLT/60 HZ



10878183 APPENDIX B (1 OF 1)  
 AIR FLOW DIAGRAM  
 BREEZE WITH OCSI AND MESSENGER OPTIONS

