AIRSTAR®

International

DENTAL AIR SYSTEM

Installation and Operation Manual

AIR TECHNIQUES equipped for life®

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LIST OF ILLUSTRATIONS

SAFETY INSTRUCTIONS

Use of **AIRSTAR** not in conformance with the instructions of this manual may result in permanent failure of the unit. AirStar systems are to be used by certified trained dealer technicians or qualified Air Techniques personnel.

WARNING: To prevent fire or electrical shock, do not expose this appliance to rain in or moisture.

All user serviceable items are described in the maintenance section.

Manufacturing date code on serial number label is in the format Month YYYY.

ATTENTION USERS:

Alerts users to important Operating and Maintenance instructions. Read carefully to avoid any problems.

Warns users that uninsulated voltage within the unit may be of sufficient magnitude to cause electric shock.

I ON
O OFF

Indicates the ON and OFF position for the Equipment power switch.

Indicates protective Earth Ground for the Equipment power switch.

MEDICAL ELECTRICAL EQUIPMENT

WITH RESPECT TO ELECTRICAL SHOCK, FIRE, MECHANICAL AND OTHER SPECIFIED HAZARDS ONLY IN ACCORDANCE WITH UL-60601-1, CAN/CSA C22.2 NO.601.1
66CA

Warns users of hot surfaces. There is a danger of burns. Work near these surfaces only after they have cooled down.

Air Techniques, Inc.
1295 Walt Whitman Road
Melville, New York, USA 11747- 3062

CONGRATULATIONS

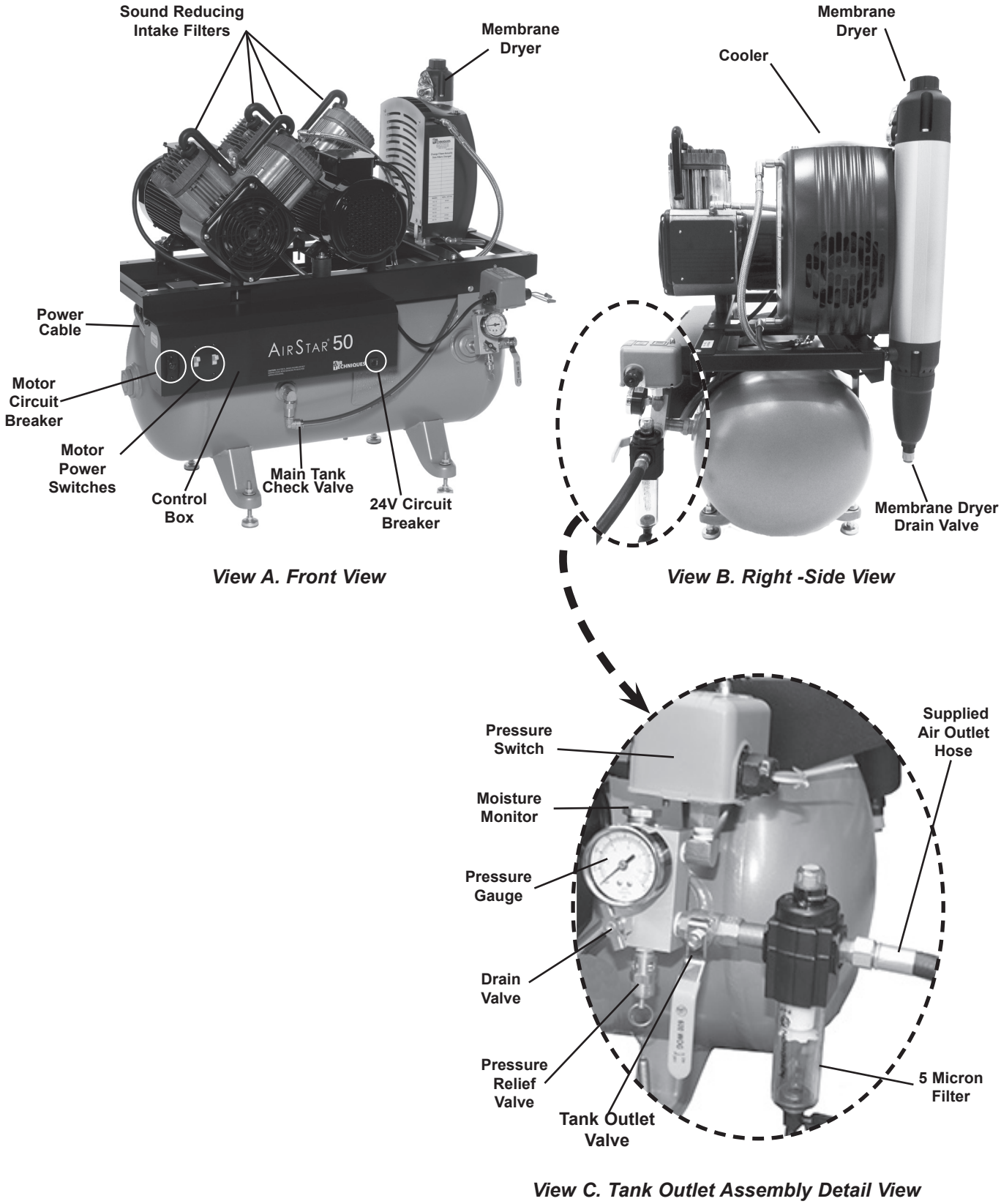
Your **AIRSTAR** generates 100% oil-less, ultra-dry dental air which protects valuable hand-pieces from premature failure due to the effects of moist air and the build-up of oil residue. Because no oil is used for mechanical lubrication, there is no chance of introducing an oily film to a prepared surface which could compromise resin retention and restorations, wasting chair time. Most important, your patients's health is protected with ultra-dry air that provides an environment that is not conducive to bacterial growth.

The **AIRSTAR** utilizes a long stroke, small bore piston to compress the air. This piston is bonded with an anti-friction polymer to eliminate the need for oil. The air is forced through the Membrane Dryer System consisting of the cooler and the membrane. This system removes moisture and air impurities providing the driest possible compressed air while maximizing performance. This 100% ultra-dry air is reserved in the main storage tank for use by the operatory air system. The **AIRSTAR** features include:

- Maximum Dryness with Quadruple Filtered Air
- Compact size for space-saving installation
- Uninterrupted Compressor Availability
- Virtually Maintenance Free
- Low Pressure Dew Point

Since 1971, when Air Techniques pioneered the manufacture of oil-less air for dentistry, thousands of dentists have depended on their **AIRSTAR**. Now that your practice has an **AIRSTAR** , you, too, can depend on the delivery of 100% oil-less, ultra-dry air and efficient, trouble-free operation.

KEY PARTS IDENTIFICATION



View A. Front View

View B. Right -Side View

View C. Tank Outlet Assembly Detail View

Figure 1. AirStar Parts Location

SIZING GUIDE

Choosing the correct size **AIRSTAR** for your practice depends on the number of air users and the anticipated air demand. To assure optimum compressor operation, the air demands should not exceed the number of air handpiece users shown in the chart below:

Model	Recommended Number of Users	Number of Heads	Number of Motors
AS12INT	1 to 2	1	1
AS22INT	2 to 3	2	1
AS50INT	5 to 7	4	2
AS70INT	7 to 10	6	3

AIRSTAR models AS12INT, AS22INT, AS50INT and AS70INT do not include a sound cover, which may be purchased as an optional accessory. (See page 16.)

AS12CINT, AS22CINT and AS50CINT models do include a sound cover as part of the system.

SUPPLIED COMPONENTS

Each Airstar is shipped in a single carton containing the fully assembled unit and associated accessory kit. See Figure 1. Unpack and inspect for physical damage such as scratched panels, damaged components, etc. If any damage is found, notify Air Techniques so corrective action can be taken. Verify that all items were received.

The accessory kits, P/N 87235 and P/N 87234, shown below, contain identical components except for the length of the 10mm Polyurethane Tube (items 7 & 14, P/N 54509). Kit P/N 87235, provides a tube 6 feet long (item 7) for use with three models, AS12INT through AS50INT. Kit P/N 87234, provides a tube 12 feet long (item 14) for use with model AS70INT only.

Airstar Accessory Kits, Part Numbers 87235 and 87234

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	87109INT	Installation and Operation Manual	1	8	87169	6-Foot Hose, 3/8" ID, 3/8" MNPT x 3/8	1
2	9922-189	Web Warranty Registration	1	9	87186	Close Nipple PCONN, 3/8" MPT	1
3	58017R-1	Bushing PCONN, 1/2 MNPT X 3/8 FNPT	1	10	86394	Instructions for Airstar Filter Kit	1
4	87168	5 Micron Filter, 3/8" NPT	1	11	85471	Leveling Foot Kit	1
5	87107	Instructions for Drain Tube	1	12	57662	Cleanstream Business Reply Card	1
6	31931	Plastic Bucket, 3 x 5 x 3	1	13	31929	Reducing Coupling PCONN, 1/2 FNPT x 3/8 FNPT	1
7	54509	6-Foot, 10mm Polyurethane Tube (Included in kit, P/N 87235, for use with models AS12INT through AS50INT.)	6ft	14	54509 (See Note)	12-Foot, 10mm Polyurethane Tube (Included in kit, P/N 87234, for use with model AS70INT only.)	12ft

Note: The additional 6-foot length (12 feet total) of the 10mm Polyurethane Tube is necessary to provide a drain tube for the second Dryer Membrane required on AS70INT models.

SITE REQUIREMENTS

Service Clearance:

- Allow 12" on all sides for all models.

Ambient Temperature:

- Must not exceed 105°F (40°C)

Air System Plumbing Connection:

- 3/8" F.N.P.T. Shut-off valve and a 6 ft. pressure hose (supplied)
- Air distribution piping for all models - 1/2", type "L" or type "K" copper
- If pipe volume is too great, more than 235 in^3 (3.85L) or more than 100 ft. (30.5m)of 1/2" diameter pipe, a pressure regulator should be installed between the main tank and the distribution piping. Set pressure to pressure switch cut in value (factory set at 85 PSI).

Environmental:

Operating

- Indoor use at altitudes up to 6562 ft (2000m). Temperature 41 to 105°F (5 to 40°C).
- Supply voltage fluctuation of +/- 10% of nominal voltage.

Storage and Transport:

- Temperature, 0 to 150°F (-18 to 65°C).
- Relative Humidity, 0 to 90%.

IEC 60601-1 Classification:

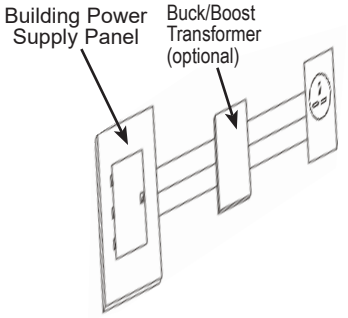
■ Protection against electric shock (6.2):	Class I
■ Applied Parts (5.9.1, 8.3):	There are no Applied Parts.
■ Protection against harmful ingress of water (6.3):	Ordinary, IPXO
■ Degree of safety in the presence of flammable anesthetics mixture with air or with oxygen or with nitrous oxide (11.4, 11.5):	Not suitable.
■ Mode of operation (6.6):	
- All Modes Except AS100:	Continuous
- AS100 Only:	50% Duty Cycle; Maximum Continuous ON Time of 20 Min

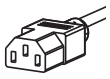
Site Electrical Requirements

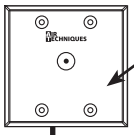
Description / Model	AS12INT	AS22INT	AS50INT	AS70INT
Nominal Supply Voltage (VAC, see note)	220	220	220	220
Frequency (Hz)	60	50/60	50/60	50/60
Maximum Current (Amps)	4	8	16	24
Minimum Panel Breaker Rating (Amps)	10	20	30	40
Minimum Wire Size (AWG)	16	12	10	8

Note: Install a buck or boost transformer if actual facility service is above or below the supply voltage fluctuation of ±10% of nominal voltage ratings listed.

Equipment Room Layout



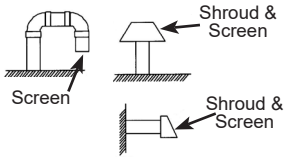
Type		Style
AS12INT	IEC Female*	
AS22INT	Hard Wired*	See Figure 3 for Connection Details.
AS50INT		
AS70INT		



Remote 24 Volt Switch with Pilot Light (sold separately)

Notes:

1. **Remote Air Intake Kit Manifold -** Refer to the table below listing the kit part number corresponding to the AirStar model.
2. **Remote Air Intake Drip Leg & Valve -** A drip leg with drain valve must be installed at lower end of the remote air intake pipe to collect condensation during operation. Attach a drain tube to the drip leg valve to allow drainage into floor drain/sink.
3. **Air Pipe -** Pipe can draw air from Inside or Outside. Drawing air from cooler and drier environments is beneficial to system performance. If drawing from Inside, the pipe end should still be protected from ingress of water and animals as appropriate. Be aware that noise can emit from the pipe during compressor operation; place end accordingly.
4. **Membrane Dryer Drain Valve -** Install the Drain Tube found in either accessory kit P/N 87235 or P/N 87234 used to drain moisture collected in the Membrane Dryer.



AIR PIPE
2-Inch Pipe for Air Intake. Must be protected from rain and animals See note 3.

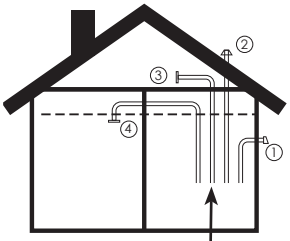


Figure 2. Overall Site Requirements

INSTALLATION INFORMATION

AIRSTARs are installed by authorized Air Techniques dealer technicians. Please review these installation guidelines to make sure that your **AIRSTAR** works to capacity for your office. (See Site Requirements, pages 6 & 7.)

- Your **AIRSTAR** should be installed in a well ventilated area, with at least 12 inch clearance on each side for service access and to prevent overheating during high demand periods. If other equipment is located in the vicinity, the ambient temperature of the area must not exceed 105°F.
- The installation site should be clean and dry to prevent the air intake filters from clogging. If there is a concern about the quality of air where the **AIRSTAR** is placed, we recommend an optional Remote Air Intake (See Optional Accessories, page 16) which allows the compressor to intake clean air from a remote location.
- Air distribution piping for all models should be 1/2", type "L" or type "K" copper.
- **PLUMBING CONNECTION:** The Tank Outlet Assembly (See Figure 1, View C), (the storage tank outlet for the dry air) is connected to the operatory air system via a 3/8" F.N.P.T. shut-off valve and 6 foot length of pressure hose (supplied).

Important: Each system should have a dedicated circuit panel.

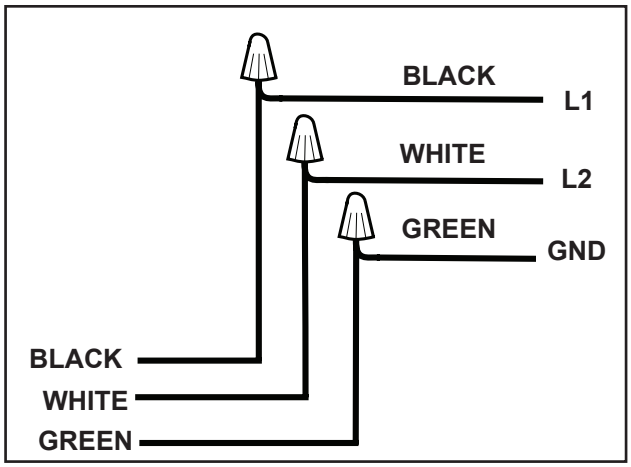
Remove all power to the system prior to working with electrical circuits. Contacting high voltage can cause serious injury or even death.

All systems must be wired directly from an electrical box that complies with local electrical codes.

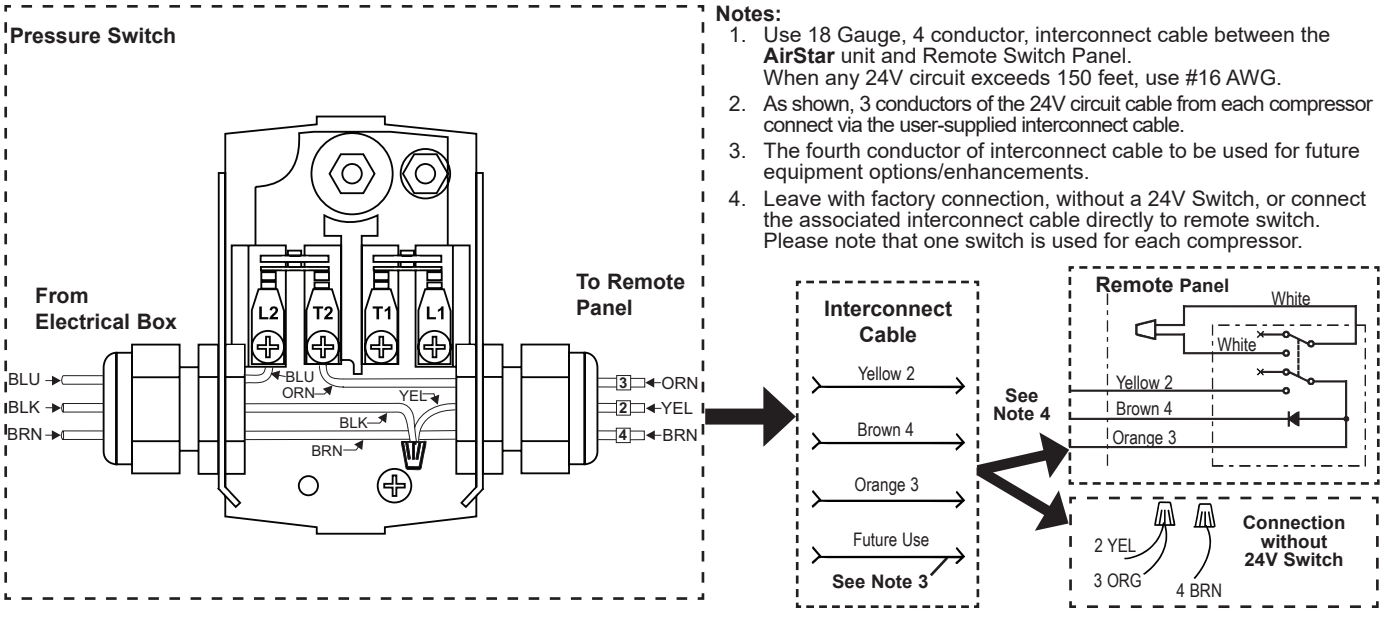
Note: If voltage is higher than 242V, install a bucking transformer.

- **MINIMUM VOLTAGE:** The minimum voltage for an AS12INT, AS22INT, AS50INT or AS70INT is 198 Volts. Install a boost transformer if the service is below this rating.
- **WIRING REQUIREMENTS:** To help prevent fire, electric shock, injury, or death, the wiring and grounding must conform to the latest edition of the National Electrical Code, ANSI/NFPA 70 and all applicable local regulations. Please contact a qualified electrician to check your wiring and breakers/fuses to ensure that there is adequate electrical power to operate the **AIRSTAR**.
- **EQUIPMENT GROUNDING:** All **AIRSTARs** must be connected to a grounded metal, permanent wiring system, or an equipment grounding conductor must be run with the circuit conductors and connected to the equipment grounding lead in the **AIRSTAR's** flexible metal conduit power supply. Failure to do so can result in fire, electric shock, injury, or death. See Figure 2, Overall Site Requirements, page 7.
- **ELECTRICAL POWER CONNECTION:** AS12INT is supplied with an installed line cord with an IEC female connector that requires a 220V male IEC, minimum 16AWG, connector. AS22INT, AS50INT and AS70INT systems are shipped with open electrical connections, which are directly connected to the branch supply circuit as shown by Figure 3. See Site Electrical Requirements, page 7, for required branch circuit size for each system.

■ **24V Connections:** 24V connections are used when installing a 24V remote switch. They are made at the pressure switch as shown by Figure 3. When not using the remote switch, insulate the BRN wire and tie the ORG and YEL wires together.



220VAC Electrical Connections



24V Connections

Figure 3.* AirStar *Electrical Connections

INSTALLATION INFORMATION

POST INSTALLATION CHECK

Make Sure Everything Is Running Properly

After your **AIRSTAR** has been installed and before it is put into operation, be sure to follow the check-out procedure detailed below:

- Check that Intake Filter(s) are fully seated into the compressor head(s) and that the Tank Outlet Valve is closed.
- Turn on the electricity. Check the incoming line voltage. It should be at least 198 Volts for the AS12INT, AS12CINT AS22INT, AS22CINT, AS50INT, AS50CINT and AS70INT. This voltage should remain at or above this level while the **AIRSTAR** is running. If not, install the appropriate boost transformer and check that the correct main circuit breaker and wire size are being used.
- Check pump-up and recovery times.
  - Turn on the **AIRSTAR**'s power and determine the pump-up time from 0 to 115 PSI.
  - Drain the storage tank to 80 PSI and determine the recovery time from 85 to 115 PSI.
  - If the pump-up or recovery time exceeds the duration listed by the table below, call an authorized dealer for service.

Model	**Number of Motors/Heads**	**Maximum Pump-up Time** 0-115 PSI (M:SS)	**Maximum Recovery Time** 85-115 PSI (M:SS)
AS12INT	1/1	2:55	0:48
AS22INT	1/2	3:10	0:47
AS50INT	2/4	2:50	0:42
AS70INT	3/6	2:40	0:40

- Must be operated at a maximum of 50% duty cycle with the maximum on time of 5 minutes.
- If a Remote Control Panel is being used, ALL switches on the face of the compressor Control Box must be in the ON position.
- If a Remote Control Panel is not being used, be sure that the yellow and the orange wires are connected to one another. These wires are located on the pressure switch. The power switches located on the face of the compressor Control Box are the power control for each motor.

  Note: Compressor motors are designed to run together. Do not run one head at a time unless one head has failed and you are waiting for service.

- The motor circuit breaker must be kept in the ON position and should not be used as a switch.

TROUBLESHOOTING

Problem	Possible Cause	Possible Solutions
1. Motor does not start.	a. No electric power.	a. Check circuit breaker at main power panel.
	b. Power not connected.	b. Check 24 Volt remote connections.
	c. Defective circuit breaker.	c. Circuit breaker needs to be replaced. Call your authorized Air Techniques dealer for service.
2. Motor tries to start, circuit breaker trips off. (* See bottom page 13)	a. Voltage too low. If each compressor head runs separately,but will not run together, the voltage is too low.	a. AS12INT, AS22INT, AS50INT and AS70INT require a minimum of 198 Volts. If the voltage is below the required minimum, a boost transformer must be installed. Call your authorized dealer.
	b. Power supply cable too small.	b. See SITE REQUIREMENTS Table.
	c. Loose electrical connection.	c. Call your authorized dealer for service.
3. Unusual noise.	a. Intake filter(s) not seated correctly.	a. Remove filter(s). Replace if clogged or dirty. When installing, make sure filter chamber is clean and rubber flange on top of filter is pushed all the way down into the metal cylinder
	b. Intake filter(s) clogged or dirty.	b. Replace filter(s). (PN 89831)
	c. Motor noise.	c. Call your authorized dealer for service.
	d. Air leaks	d. Call your authorized dealer for service.
	e. Check cooling fans	e. If fan is loose or broken, call your authorized dealer for service.
4 Compressor cycles but no pressure buildup to 115 psi.	a. Motor noise.	a. Replace filter(s). (PN 89831)
	b. Leak in compressor.	b. Close the storage tank outlet valve. Check all fittings for leaks. If a leak is found, call your authorized dealer for service.
	c. Pressure switch needs to be adjusted.	c. Disconnect the main power supply. Drain the storage tank slowly until a “click” is heard. Storage tank pressure should read 85 PSI on the pressure gauge. Close the tank outlet valve, turn on the power switch and verify the pump-up time for your model **AirStar**. Call your authorized dealer if the pump-uptime is incorrect. (See Post Installation Check for pump-up times.)

Problem	Possible Cause	Possible Solutions
5. Compressor cycles even when there is no air demand from the operatory.	a. Leak in the compressor.	a. Disconnect the main power supply. Drain the storage tank slowly until a "click" is heard. Storage tank pressure should read 85 PSI on the pressure gauge. Close the tank outlet valve, turn on the power switch and verify the pump-up time for your model **AirStar**. Call your authorized Air Techniques dealer if the pump-uptime is incorrect. (See Post Installation Check for pump-up times.)
	b. Leak in the office air system.	b. Look at the moisture monitor (see KEY PARTS to locate). If it is blue, perform the following: 1. With the **AirStar**'s power switch ON, drain the storage tank to 85 PSI to start the compression cycle. 2. When the cycle shuts off at 115 PSI, close the storage tank outlet valve. 3. Wait 5 minutes and open the storage tank outlet valve. 4. If the pressure drops, the air leak is in the office air system or delivery units and not in the **AirStar**. Call your dealer or plumber for service. If it is pink, see #6 below
6. Moisture monitor is not blue (pink or white).	a. Leak in the office air system.	a. If the moisture monitor is pink, there is too much moisture in the system. Call your authorized Air Techniques dealer for service.
	b. Compressor keeps cycling.	b. Check the SIZING GUIDE. There may be excessive air demands placed on the **AirStar**. A larger capacity model may be required.
7. Cut-In / Cut-Out pressures are not 85 / 115PSI.	Pressure switch needs adjustment.	a. Adjust Cut-In pressure setting by turning down nut on larger spring (center) for higher pressure, or up for lower pressure. b. Adjust Cut-Out pressure setting by turning down nut on smaller spring (left) for higher pressure, or up for lower pressure. Cycle system after each adjustment to check settings.

***DIAGNOSTIC PROCEDURE FOR DEFECTIVE COMPRESSOR HEAD(S)**

1. Put power switches in the OFF position.
2. Reset the circuit breaker if it was previously tripped.
3. Test heads by turning ONE on at a time. If the motor fails to start, or the circuit breaker trips, the problem may be in that compressor head. Leave the power switch for the effective head in the OFF position. Call your Authorized Air Techniques dealer for service.

   NOTE: One head may be run TEMPORARILY while waiting for service.
4. If all heads run independently, but will not run together, check the line voltage. If the voltage is within the min./max. voltage required in PRODUCT SPECIFICATIONS, call your Authorized Air Techniques dealer for service.

MAINTENANCE

Like all precision products, your **AIRSTAR** requires a certain amount of care on a regularly scheduled basis. A well-organized maintenance program aids dependable equipment operation and reduces problems to a minimum. Routine checks help to detect general overall wear, and replacement of parts can often be made before a problem occurs.

Understanding this, we have established minimum maintenance requirements listed below that include routine inspections and the replacement of filters using preventive maintenance kits available for the specific **AIRSTAR** model. Adherence to this recommended maintenance schedule will ensure that the equipment will continue performing at its best with uninterrupted service.

■ Routine Inspection - Monthly

Clean exterior surfaces.

Check for abnormal noises and air leaks.

Make sure that no flammable, corrosive, or combustible materials are stored in the equipment room (especially in the area around the equipment).

Check operational range of pressure switch is between 85-115 psi.

Inspect the Moisture Monitor (Figure 4) for a color change:

Blue indicates that the air in the storage tank is dry.

Pink indicates a high level of humidity is in the storage tank. See TROUBLESHOOTING page 13 to correct this situation.

■ Routine Inspection - Yearly

Refer to Figure 4 and check the Service Indicator on the 5-micron Outlet Filter.

Red indicates that the filter must be replaced P/N 87168.

Green indicates No service is required.

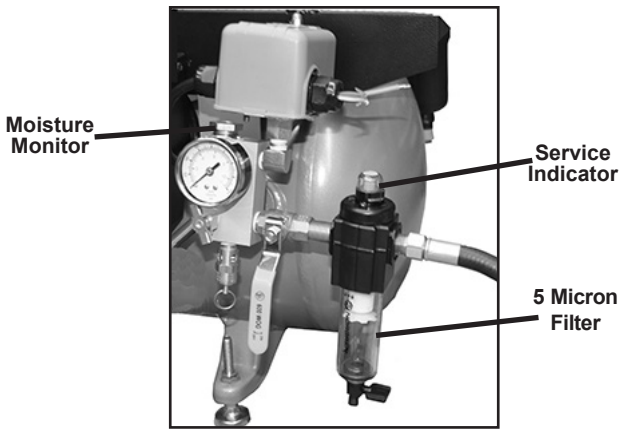


Figure 4.
Moisture Monitor and 5-Micron Filter Location

Important: In dusty environments, the Intake Filter, PN 89831, may need to be changed more often than once a year.

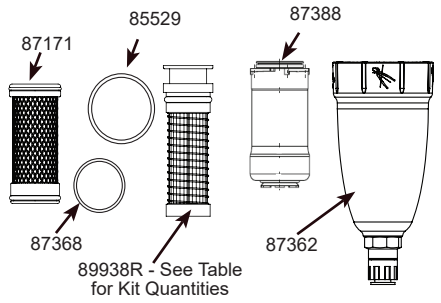
Always dispose of the removed filter in accordance with local codes.

■ Filter Replacement - Yearly

Refer to Figure 5 for the location of filters to be replaced using the preventive maintenance kit for the specific **AIRSTAR** mode listed below. Replace the filters and associated O-rings in accordance with the instructions provided with the kit.

Preventive Maintenance Kits Supplied Components

AirStar Model		AS12INT	AS22INT	AS50INT	AS70INT
Kit Part No		87351	87352	87353	87354
Component	**Part No.**	**Qty**	**Qty**	**Qty**	**Qty**
Compressor Air Intake Filter	89938R	1	2	4	6
Top Membrane Filter	87171	1	1	1	2
Bottom Membrane Filter	87388	1	1	1	2
Bottom Membrane Filter Bowl	87362	1	1	1	2
Top Cover O-ring	87368	1	1	1	2
Filter Bowl O-ring	85529	1	1	1	2



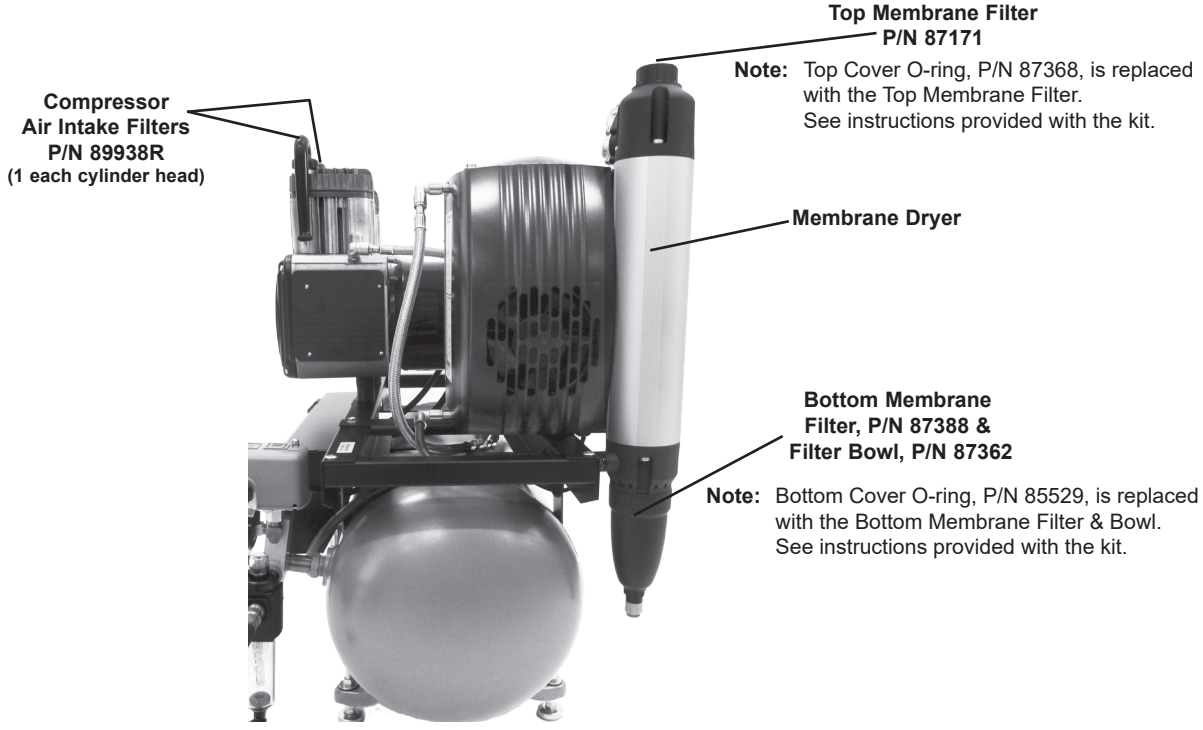


Figure 5.
AirStar Filter Location

REPLACEMENT PARTS

Description	Part No.
5 Micron Replacement Filter	87168

Preventive Maintenance Kits

AirStar Model	Kit Part No.
AS12INT	87351
AS22INT	87352
AS50INT	87353
AS70INT	87354

OPTIONAL ACCESSORIES

Description	Model	Part Number
REMOTE AIR INTAKE KIT	AS12INT AS22INT AS50INT AS70INT	85491 85492 85493 85494
REMOTE CONTROL PANEL w/24 V switches 1-Switch Plate Kit 2-Switch Plate Kit 3-Switch Plate Kit 4-Switch Plate Kit	For all AirStars	 53111 53251 53250 53133
SOUND COVER	AS12INT AS22INT AS50INT AS70INT	85180 85962-2M 89523M 89574M

PRODUCT SPECIFICATIONS

Description \ Model		AS12INT	AS22INT	AS50INT	AS70INT
System Power **HP** **(kW)**		 0.75 (0.56)	 1.5 (1.1)	 3.0 (2.2)	 4.5 (3.4)
Nominal Supply Voltage VAC		220	220	220	220
Frequency Hz		60	50/60	50/60	50/60
Maximum Simultaneous Air Users		2	3	7	10
Maximum Current Amps		4	8	16	24
System Output Flow Rate at 80 PSI CFM		2.5	5.0	10.0	15.0
Maximum Pump-up Time 0-115 PSI (M:SS)		2:55	3:10	2:50	2:40
Maximum Recovery Time 85-115 PSI (M:SS)		0:48	0:47	0:42	0:40
Tank Size US Gallon (ft^3)		 6 (0.8)	 12 (1.6)	 20 (2.7)	 30 (4.0)
Shipping Weight lbs. (Approximate) No Sound Cover With Sound Cover		 170 215	 200 240	 290 335	 430 N/A
Dimensions in. (See note) No Sound Cover	H W D	28.50 25.00 19.75	30.50 29.00 20.00	33.50 35.50 20.50	35.00 47.75 21.75
With Sound Cover	H W D	30.00 25.00 22.50	32.00 31.00 22.25	33.50 36.50 22.75	36.00 51.00 29.50

Note: Height measured without leveling feet for all units with or without sound cover.

WARRANTY

Each **AIRSTAR** is warranted to be free from defects in material and workmanship from the date of installation for a period of 2 years (24 months) on complete unit.

All part and component returns and replacement equipment require a Return Materials Authorization (RMA). Returns must be received within three months of the RMA issue date and in appropriate packaging to prevent shipping damage. In case of advanced replacement, products shall be returned in the original packaging. Items returned without an RMA, or included with other products for which an RMA has been issued, will be returned to the customer at the discretion of Air Techniques, Inc.; the return shipping is the customer's responsibility.

Any item returned under warranty, will be repaired or replaced at our option at no charge provided that our inspection confirms it to be defective. Air Techniques, Inc. is not liable for indirect or consequential damages or loss of any nature in connection with this equipment. Dealer labor, shipping and handling charges are not covered by this warranty.

Warranty credit will not be applied to product returns that exhibit damage due to shipping, misuse, careless handling, and improper installation by dealers, or repairs by unauthorized personnel. Credit, or partial credit, will not be issued until products/parts have been received and assessed. If, after the evaluation it is determined that there is no-fault found and the unit is working properly, a credit will not be issued. Warranty is void if product is installed incorrectly or installed or serviced by anyone other than an authorized Air Techniques' dealer or service personnel.

This warranty is in lieu of all other warranties expressed or implied. No representative or person is authorized to assume for us any liability in connection with the sale of our equipment.

On-Line Warranty Registration

Quickly and easily register your new **AIRSTAR** on-line. Just have your product model and serial numbers available. Then go to the Air Techniques web site, **www.airtechniques.com/dental**, click the **warranty registration** link and complete the registration form. This on-line registration ensures a record for the warranty period and helps us keep you informed of product updates and other valuable information.

NOTES

For over 50 years, Air Techniques has been a leading innovator and manufacturer of dental products. Our priority is ensuring complete satisfaction by manufacturing reliable products and providing excellent customer and technical support. Whether the need is digital imaging, utility room equipment or merchandise, Air Techniques can provide the solution via our network of authorized professional dealers. Proudly designed, tested and manufactured in the U.S., our products are helping dental professionals take their practices to the next level.

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