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AIRSTAR® NEO

DENTAL AIR SYSTEM



PRE-INSTALLATION GUIDE

Doctor: _____

Address: _____

Phone#: _____

Dealer: _____

Dealer Address: _____

All Installations must conform to local codes!

This AirStar Model is being installed:

(AS CHECKED)

❑ AS10NEO ❑ AS21NEO ❑ AS22NEO

❑ AS30NEO ❑ AS40NEO ❑ AS50NEO ❑ AS70NEO

ISO 9001
ISO 13485
FDA-GMP COMPLIANT

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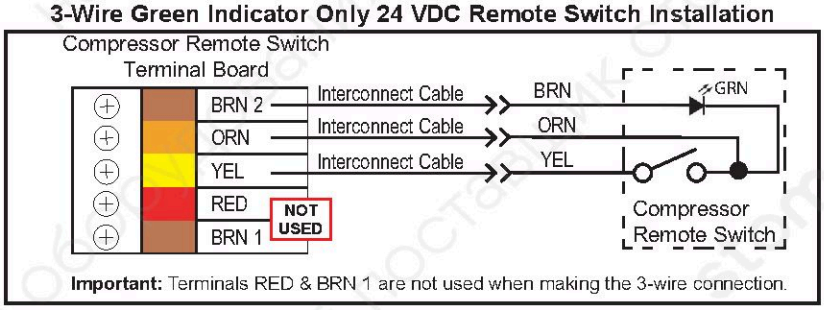
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Equipment Room Layout

Notes:

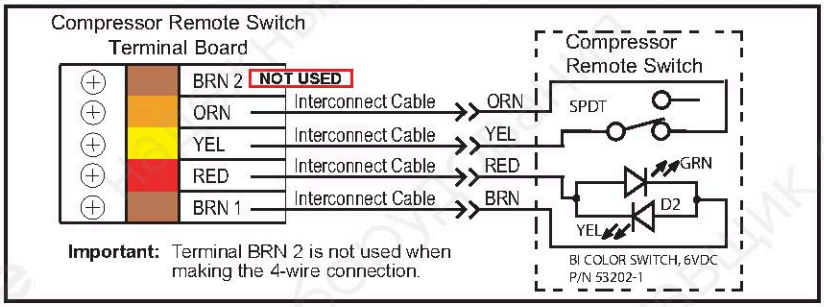
1. **Remote Air Intake Kit Manifold -** Refer to page 20 for the table listing the kit part number corresponding to the AirStar model.
2. **Remote Air Intake Drip Leg & Valve -** A drip leg with drain valve must be installed at lower end of the remote air intake pipe to collect condensation during operation. Attach a drain tube to the drip leg valve to allow drainage into floor drain/sink.
3. **Membrane Dryer Drain Valve -** Install the Drain Tube found in either accessory kit P/N 87133 or P/N 87134 used to drain moisture collected in the Membrane Dryer.

3-Wire Green Indicator Only 24 VDC Remote Switch Installation



Important: Terminals RED & BRN 1 are not used when making the 3-wire connection.

4-Wire Green & Yellow Indicators 6 VDC Remote Switch Installation



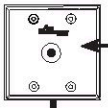
Important: Terminal BRN 2 is not used when making the 4-wire connection.

Note: Use 18 Gauge for interconnect cable to connect between compressor and remote switch.

Type		Style
AS10NEO	5-20R NEMA*	Green Dot
AS21NEO		
AS22NEO	6-20R NEMA*	Green Dot
AS30NEO		
AS40NEO		
AS50NEO	Hard Wired**	L1, L2, GND
AS70NEO		

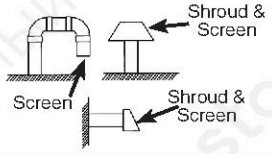
*Hospital Grade Receptacle

**Disconnect Needed for Service



Optional Remote Switch with Pilot Light (kit sold separately See Optional Accessories)

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



Interconnect Cable Between Compressor and Optional Remote Switch (sold separately)

Kit includes 70" of clear PVC Tubing per Number of Cylinders



Air Intake Manifold Detail

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

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Site Requirements

Air System Plumbing Connection

- $^{3}/_{8}$" FNPT 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 or more than 100 ft. of $^{1}/_{2}$" diameter pipe, a pressure regulator should be installed between the main tank and the distribution piping and set to 80 psi.

Service Clearance

- Allow 12" on all sides for all units

Ambient Temperature

- Must not exceed 105°F
- Must be above 41° F

Requirement \ Model	AS10NEO	AS21NEO	AS22 NEO	AS30 NEO	AS40 NEO	AS50 NEO	AS70 NEO
Note 1: Install a buck or boost transformer if actual facility service is above or below the ratings listed.							
Nominal Supply Voltage (VAC, See Note 1)	120	120	220	220	220	220	220
Frequency (Hz)	60	60	60	60	60	60	60
Full Load Amps	10	15	8	9	12	16	24
Minimum Circuit Breaker Rating (Amps)	20	30	20	20	20	30	40
Minimum Wire Size (AWG)	12	10	12	12	12	10	8
Note 2: The 115 volt 2.0 KVa transformer is not available from Air Techniques.							
Air Techniques Part No. and Buck/Boost Transformer Size	2.0 KVa (See Note 2)	2.0 KVa (See Note 2)	67002 3.9 KVa	67002 3.9 KVa	67002 3.9 KVa	67002 3.9 KVa	67000-1 7.8 KVa

All AirStar compressors comply with NFPA 99C level 3 requirements

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Product Specifications - Dimensions

Requirement \ Model		AS10 NEO	AS21 NEO	AS22 NEO	AS30 NEO	AS40 NEO	AS50 NEO	AS70 NEO
Horsepower/Kilowatts		1.0/0.75	1.6/1.2	1.6/1.2	2.0/1.5	2.6/1.95	3.2/2.4	4.8/3.6
Voltage Rating		120	120	220	220	220	220	220
Frequency (Hz)		60	60	60	60	60	60	60
Maximum Number of Simultaneous Air Users		2	3	3	4	5	7	10
CFM (Cubic Ft./Min) @ 80 psi		2.0	4.8	4.8	5.0	6.3	6.5	12.5
Pump-up Time 0-115 PSI		5 mins, 15 secs	2 mins, 35 secs	2 mins, 35 secs	2 mins, 41 secs	2 mins, 54 secs	2 mins, 20 secs	2 mins, 30 secs
Recovery Time 85-115 PSI		1 mins, 20 secs	40 secs	40 secs	1 min, 38secs	(See Note 1)	1 min, 27 secs	2 mins, 33 secs
Tank Size (cu. ft.) (US Gal.)		1.3 9.75	1.3 9.75	1.3 9.75	1.3 9.75	2.1 16	2.1 16	3.6 27
Shipping Weight (Approximate lbs)		175	185	185	230	270	285	395
Dimensions (inches, See Note 2)	W	26.50	26.50	26.50	26.50	30.75	30.75	48.00
	H	29.50	29.50	29.50	29.50	32.50	32.50	32.50
	D	20.00	20.00	20.00	20.00	21.00	21.00	21.00

Notes:

1. AS40NEO has a single and dual head motor. Recovery time differs depending which is used. The longer recovery time (2 minutes, 58 seconds) occurs when using a single head motor. The shorter recovery time (1 minute, 6 seconds) occurs when using dual head motors.
2. Height measured without leveling feet.

www.airtechniques.com

Corporate Headquarters
1295 Walt Whitman Road | Melville, New York 11747- 3062 | Phone: 800-247-8324 | Fax: 888-247-8481

Western Facility
291 Bonnie Lane, Suite 101 | Corona, CA 92880 - 2804 | Phone: 800-247-8324 | Fax: 951-898-7646

Platinum Green Business Certified

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