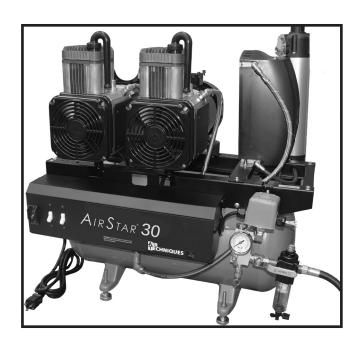
# **AIRSTAR**<sup>®</sup>

## DENTAL AIR SYSTEM

with Membrane Dryer



## PRE-INSTALLATION GUIDE

Doctor:	
Address:	
Phone#:	
Dealer:	
Dealer Address:	

## All Installations must conform to local codes!

This AirStar Model is being installed:

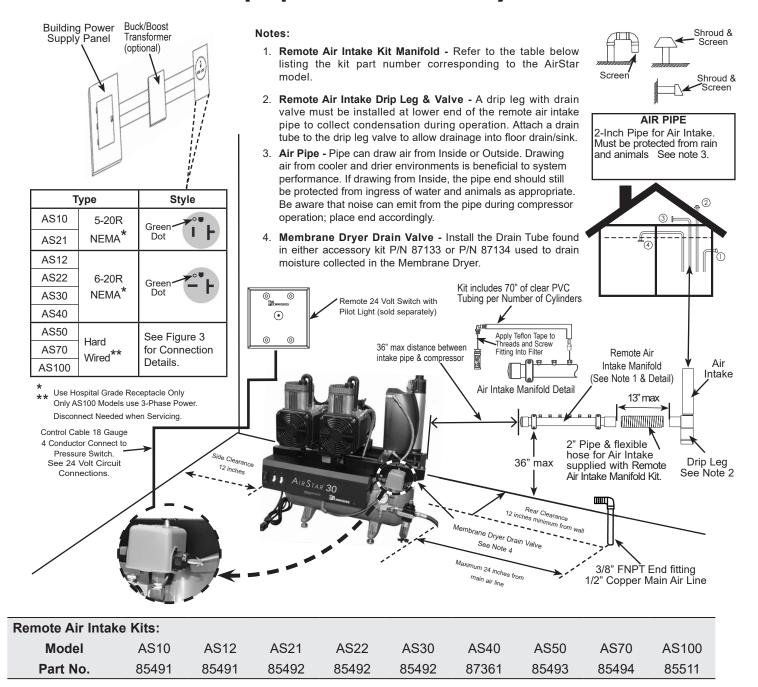
(AS CHECKED)

☐ AS10	☐ AS12	■ AS21	☐ AS22
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## **Equipment Room Layout**



#### **Air System Plumbing Connection**

- 3/g" 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<sup>3</sup> or more than 100 ft. of <sup>1</sup>/<sub>2</sub>" 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



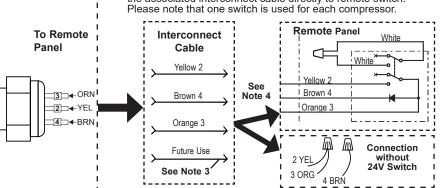


## **Electrical Connections**

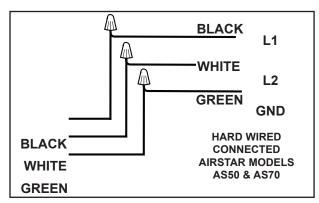
#### Notes:

- Use 18 Gauge, 4 conductor, interconnect cable between the AirStar unit and Remote Switch Panel.
   When any 24V circuit exceeds 150 feet, use #16 AWG.
- As shown, 3 conductors of the 24V circuit cable from each compressor connect via the user-supplied interconnect cable.
- 3. The fourth conductor of interconnect cable to be used for future equipment options/enhancements.
- Leave with factory connection, without a 24V Switch, or connect the associated interconnect cable directly to remote switch.

  Please note that one switch is used for each compressor.



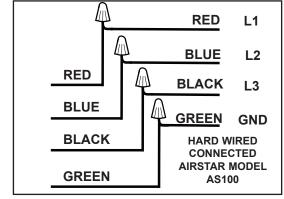
#### 24V Circuit Connections



O

Pressure Switch

**Electrical Box** 



AS50 and AS70 Electrical Connections

AS100 3-Phase Electrical Connections

AirStar Electrical Connection

## Site Requirements

	AS10	AS12	AS21	AS22	AS30	AS40	AS50	AS70	AS100		
Note 1: 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, install a buck/boost transformer with the corresponding part number as shown below.											
Nominal Supply Voltage (VAC, see note)	120	220	120	220	220	220	220	220	3~220		
Maximum Current (Amps)	8	4	15	8	8	12	16	24	20		
Minimum Panel Breaker Rating (Amps)	20	10	20	20	20	20	20	40	30		
Minimum Wire Size (AWG)	12	16	12	12	12	12	12	8	10		
Maximum Watts	864	792	1,620	1,584	1,584	2,376	3,168	4,752	3,960		
BTU/hr @ 50%	1,473	1,350	2,201	2,701	2,701	4,051	5,401	8,201	6,752		
BTU/hr @ 75%	2,210	2,026	4,143	4,051	4,051	6,077	8,102	12,153	N/A		
Note 2: The 220 volt 3-phase, 4.6 KVa transformer is not available from Air Techniques.											
Buck/Boost Transformer Air Techniques Part No. and Size	67006 2.5 KVa	67002 3.9 KVa	67006 2.5 KVa	67002 3.9 KVa	67002 3.9 KVa	67002 3.9 KVa	67002 3.9 KVa	67000-1 7.8 KVa	4.6 KVa N/A		

#### **Product Specifications - Dimensions** Model **AS10 AS12** AS21 AS22 **AS30 AS40 AS50 AS70** AS100 Description 1 1 1 1 1 1 1 1 3 Input Voltage Phase **System Power** HP 0.75 0.75 1.5 1.5 1.5 2.25 3.0 4.5 4.8 (0.56)(0.56)(1.68)(1.1)(1.1)(1.1)(2.2)(3.4)(3.6)(kW) 120 220 120 220 220 220 220 220 220 **Nominal Supply Voltage VAC** 60 60 60 60 60 60 60 60 60 Frequency Hz **Maximum Current Amps** 8 4 15 8 8 12 16 24 20 **Maximum Simultaneous Air** 2 2 3 3 4 6 8 12 15 Users System Output Flow Rate at 2.5 2.5 5.0 5.0 5.0 7.5 10.0 15.0 20.0 80 PSI CFM **Maximum Pump-up Time** 2:55 2:55 3:10 3:10 3:10 1:40 2:50 2:40 2:30 0-115 PSI (M:SS) **Maximum Recovery Time** 0:30 0:48 0:48 0:47 0:47 0:47 0:34 0:42 0:40 85-115 PSI (M:SS) Tank Size 12 US Gal. 6 6 12 12 12 20 30 30 (8.0)(8.0)(1.6)(1.6)(1.6)(1.6)(2.7)(4.0)(4.0)(ft<sup>3</sup>) Shipping Weight lbs. (Approximate) No Sound Cover 170 170 200 200 240 255 290 430 450 With Sound Cover 215 215 240 240 285 300 335 N/A N/A Dimensions in. Н 28.50 28.50 30.50 30.50 30.50 35.00 34.50 30.50 33.50 (See note.) W 25.00 25.00 29.00 29.00 29.00 32.50 35.50 47.75 46.00 D 19.75 19.75 20.00 20.00 20.00 20.00 20.50 21.75 24.50 **No Sound Cover** 32.00 32.00 32.00 Н 30.00 30.00 32.25 33.50 36.00 N/A With Sound Cover W 25.00 25.00 31.00 31.00 31.00 33.25 36.50 51.00 N/A D 22.50 22.25 22.25 22.25 22.50 22.75 29.50 22.50 N/A

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

#### www.airtechniques.com





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