

PRE-INSTALLATION GUIDE

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

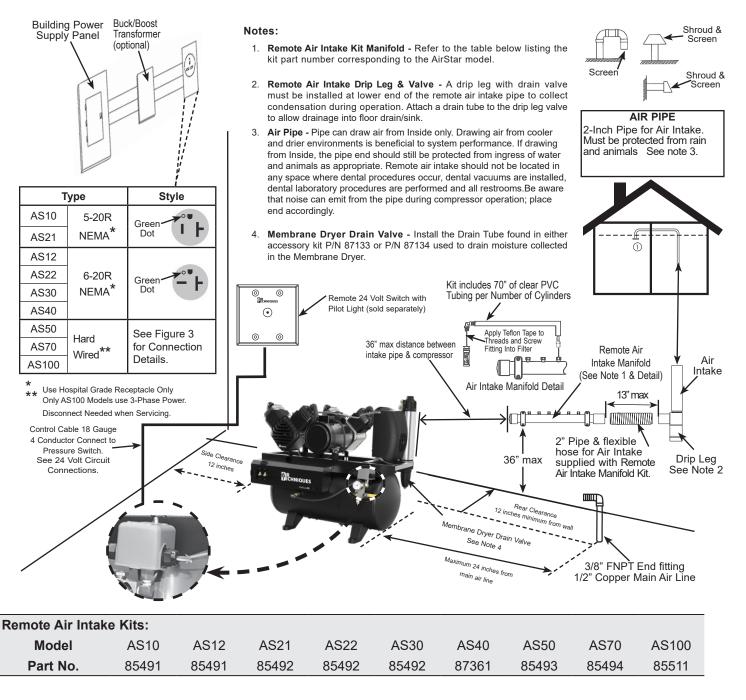
All Installations must conform to local codes!

This AirStar Model is being installed: (AS CHECKED)

□ AS10 □ AS12 □ AS21 □ AS22 □ AS30 □ AS40 □ AS50 □ AS70 □ AS100



Equipment Room Layout



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 in³ (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 the pressure switch cut in value to 80 PSI (factory set at 85 PSI).



MEDICAL ELECTRICAL EQUIPMENT WITH RESPECT TO ELECTRICAL SHOCK, FIRE AND MECHANICAL HAZARDS ONLY IN ACCORDANCE WITH UL60601-1, CAN/CSA C22.2 NO.601.1 66CA

Service Clearance

- Allow 12" on all sides for all units

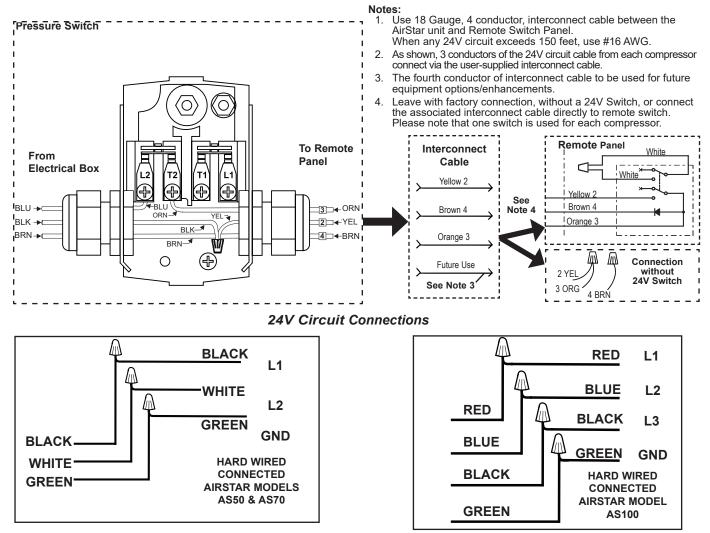
Ambient Temperature

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



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

Electrical Connections



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 Circuit Size (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	

All AirStar compressors comply with NFPA 99, 2018, 2021, 2024, Chapter 15, Dental Air, Dental Air Equipment, Dental Air Fitting and Piping.

Product Specifications - Dimensions										
Model		AS10	AS12	AS21	AS22	AS30	AS40	AS50	AS70	AS100
Input Voltage Phase		1	1	1	1	1	1	1	1	3
System Power HP (kW)		0.75 (0.56)	0.75 (0.56)	1.5 (1.1)	1.5 (1.1)	1.5 (1.1)	2.25 (1.68)	3.0 (2.2)	4.5 (3.4)	4.8 (3.6)
Nominal Supply Voltage VAC		120	220	120	220	220	220	220	220	220
Frequency Hz		60	60	60	60	60	60	60	60	60
Maximum Current Amps		8	4	15	8	8	12	16	24	20
Maximum Simultaneous Air Users		2	2	3	3	4	6	8	12	15
System Output Flow Rate at 80 PSI CFM		2.5	2.5	5.0	5.0	5.0	7.5	10.0	15.0	20.0
Maximum Pump-up Time 0-115 PSI (M:SS)		2:55	2:55	3:10	3:10	3:10	1:40	2:50	2:40	2:30
Maximum Recovery Time 85-115 PSI (M:SS)		0:48	0:48	0:47	0:47	0:47	0:34	0:42	0:40	0:30
Tank Size US Gal. (ft³)		6 (0.8)	6 (0.8)	12 (1.6)	12 (1.6)	12 (1.6)	12 (1.6)	20 (2.7)	30 (4.0)	30 (4.0)
Shipping Weight Ibs. (Approximate) No Sound Cover With Sound Cover		170 215	170 215	200 240	200 240	240 285	255 300	290 335	430 N/A	450 N/A
Dimensions in. (See note.) No Sound Cover	H W D	28.50 25.00 19.75	28.50 25.00 19.75	30.50 29.00 20.00	30.50 29.00 20.00	30.50 29.00 20.00	30.50 32.50 20.00	33.50 35.50 20.50	35.00 47.75 21.75	34.50 46.00 24.50
With Sound Cover	H W D	30.00 25.00 22.50	30.00 25.00 22.50	32.00 31.00 22.25	32.00 31.00 22.25	32.00 31.00 22.25	32.25 33.25 22.50	33.50 36.50 22.75	36.00 51.00 29.50	N/A N/A N/A

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

www.airtechniques.com

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

