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Why AiRTX Air Amplification Products?

Compressed air is one of the largest energy users in industrial plants. And yet many plants do not know their true cost and it is still a prime area for cost reduction. Compressed Air costs your company 30% to 50% more than it should!

- Save money on compressed air 50-90%
- Increase volume of air flow - 90 times
- Nozzles meet OSHA Standards
- Relieves duty cycle of air compressor- reduces repair cost
- Reduce noise levels 50 dBA or more

The Problem

Most manufacturing plants use a great deal of compressed air in blowing off the product using uncontrollable straight open tubes or pipes. Example of inappropriate use that is frequently found is a blowing application that uses compressed air to clean, dry surfaces, cool, transport, sort. Apart from wasting compressed air, it also violates OSHA noise and dead ended pressure requirements. What are YOU paying for that outdated Copper Tube, Pipe Nipple or Plastic Nozzle?

What is the Cost of Compressed Air

1 - 100 Hp compressor cost approximately \$35,000 per year to operate.

Power Cost = Hp x 0.746 x hour x rate = \$34,800
motor efficiency

OR

Power Cost = Hp x 0.746 x 6,000 x 7 cents/kw = \$34,800

90%

AiRTX Solutions

Save 50-90% of your electric bill with AiRTX Nozzles. You may not need that new additional Air Compressor.

Conventional Air Movers - Consumption and Costs							
Method	Size	Air Consumption				Cost per 1000 Cu.Ft. @ 100 psi	
		80 psi	LPM	100 psi	LPM	Per Day	Per Year
Pipe Nipple	3/8" x 2'	290	8207	350	9905	\$41.60	\$10,858
Copper Tube	1/4" x 1'	36	1019	42	1189	\$5.04	\$1,310
Copper Tube	1/2" x 1'	19	5377	240	6792	\$28.80	\$7,488
Hole in Pipe	1/8"	18	509	22	623	\$2.64	\$686
Hole in Pipe	1/4"	70	198	86	2434	\$10.80	\$2,228
AiRTX Model 48009 15 cfm @ 80 psi						\$1.76	\$458

Cost is based on \$0.25 per 1000 cu. ft. of air per hour and duty cycle of 8 hours a day, 260 days per year. LPM = cfm x 28.3.

More Performance, Less Noise

Air Saver Nozzles gives you more performance with less noise, lowering the sound level by 30%.

Noise level of AiRTX Air Amplifiers and Nozzles			
Model	Noise level dBA	psi	cfm
38038	76	@80	15
48009	72	@80	15
15008	72	@80	15
15015	76	@80	20
85006	72	@80	24
85012	72	@80	48
38050	74	@80	15

Want to Know How Much Air You Are Using?

Compressed air discharge to Want to Know How Much Air You Are Using? Atmosphere through sharp, square edged orifice and sea level CFM.

Compressed Air Flow Through Orifice Chart – Orifice Diameter in Inches																	
psi	1/64	1/32	3/64	1/16	5/64	3/32	7/64	1/8	5/32	3/16	7/62	1/4	5/16	3/8	1/2	3/4	1
20	0.12	0.49	1.07	1.90	2.97	4.28	5.84	7.59	11.8	17.0	23.1	30.4	47.2	68.6	122	269	468
30	0.15	0.63	1.39	2.47	3.87	5.58	7.60	9.89	15.4	22.2	30.4	39.6	61.5	89.4	158	350	634
40	0.19	0.78	1.72	3.05	4.77	6.08	9.38	12.20	19.0	27.3	37.5	48.8	75.8	110.0	195	432	781
50	0.23	0.92	2.04	3.62	5.67	8.17	11.10	14.50	22.6	32.5	44.6	57.0	90.1	131.0	232	513	929
60	0.26	1.07	2.37	4.20	6.57	9.46	12.90	16.80	26.2	37.7	51.6	67.2	104.0	152.0	269	595	1075
70	0.30	1.21	2.69	4.77	7.47	10.80	14.70	19.10	29.7	42.8	58.8	76.4	119.0	173.0	306	676	1223
80	0.33	1.37	3.02	5.35	8.37	12.10	16.50	21.40	33.3	48.0	65.8	85.6	133.0	193.0	343	757	1371
90	0.37	1.52	3.37	5.92	9.27	13.40	18.20	23.70	36.9	53.2	72.9	94.8	148.0	214.0	379	839	1518
100	0.41	1.66	3.66	6.50	10.20	14.70	20.00	26.00	40.5	58.3	80.0	105.0	162.0	235.0	416	920	1664