

Efficient Industries Look to Pulsed Air Savings



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Efficient Industries Look to Pulsed Air Savings



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Applications include:

- Air blow off assembly of precision electronic parts
- Blow off of liquid cleaner from cast parts
- Dust removal
- Crumb removal
- Cleaning machining tools
- Air blow for bolt holes
- Air blow for automotive painting process
- Air blow on part feeders
- Arc weld cooling

Pulsing air impacts the bottom line

Energy consumption can be reduced with the help of new technologies, as many companies look to reduce operating costs. One of the largest energy consuming parts of any factory is the compressed air also known as the 4th utility. The air compressors used to generate this form of energy use many kilowatt hours to produce the required amount of air to power machines throughout the plant. By reducing the air consumption at each of the different processes companies can create a reduction in the energy required by the compressor. While many industries use air continuously to perform a function within the manufacturing of the products, this continuous use can be very costly.

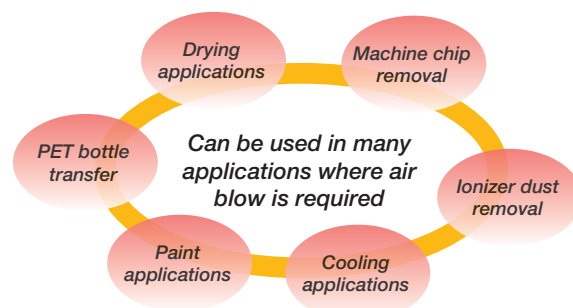
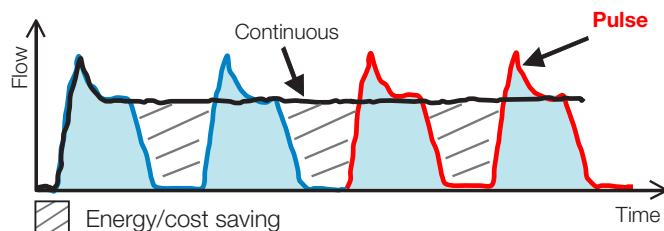
One method proven to reduce energy consumption while also reducing CO2 emissions is the pulsing of air at the work piece. Not only will pulsing compressed



air help to reduce the cost of manufacturing operations by energy reduction it can also improve the value of the operation by agitating the air and improving the process effectiveness. An example of this technology can be found in the Air Saver from Parker Hannifin.

While the cost to produce and sustain the air required to run many different in-plant machines can be very costly; Parker's Air Saver can reduce air consumption up to 50% in certain applications. The unique design of the Air Saver allows it to be installed in a variety of different uses, many industries have already started saving energy.

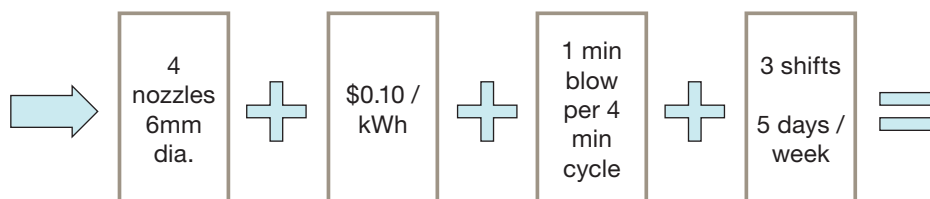




Several different configurations are offered to adapt to current pneumatic applications. When using manual valves such as ball valves, simply install either ASV200, ASV500 or ASV2000 units which do not need electrical power. Installing the unit brings immediate reduction in air consumption and improved compressor efficiency by reducing the amount of run time required to provide supply air.

When using an electrically operated solenoid valve to control the air blow, an Air Saver unit can quickly and easily be retrofitted providing an immediate reduction in air consumption with no changes to the PLC program. This saves time to implement this product in to your current system and provides quick and easy cost savings with no programming required.

Sample Application



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Prepared for

Prepared by

Air Saver Unit Valve Calculator
Summary Sheet

VALUE IMPACT SUMMARY

Reduced Total Annual Air Discharge Per Blowing Nozzle (cfm) by:	3,232,005
Reduced Annual CO ₂ Emissions Generated (Per Blowing Nozzle - in Tons) by:	5.77 tons
Reduced Annual Air Generating Costs Per Blowing Nozzle by:	\$ 892.03
Quantity of Air Blowing Nozzles With Same Application Specifications	4
Reduced Annual Air Generating Costs For All Nozzles by:	\$ 3,568.13
Reduced Annual CO ₂ Emissions Generated (For All Blowing Nozzles) by:	23.07

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