

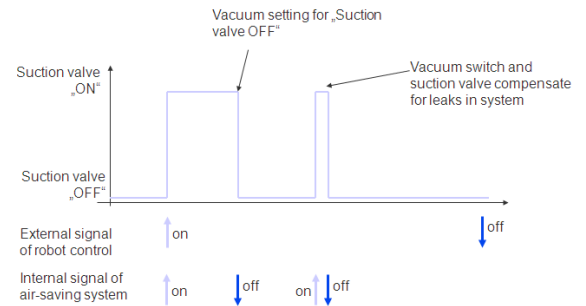
Compressed Air Savings 01/21/2010

ENERGY SAVING

Reduce your compressed air costs by up to 98%

Schmalz has developed an air saving function to dramatically reduce the usage of compressed air. Working principle:

With an active signal to the vacuum generator the vacuum switch senses arriving at defined vacuum level → Then the vacuum switch sends a signal to the integrated control unit, which causes the control unit to deactivate the suction via the solenoid valve → Vacuum level is held via a check valve... → If leakage occurs the vacuum switch detects it and activates suction for a split-second via the control unit until the defined vacuum level for the air saving function is reached.



The system automatically maintains itself between a high and low set point to retain a safe vacuum level at all times. Once the unit is programmed it works independently without user interaction.

Calculation example for a typical robot application:

	(2) Schmalz Mega Pumps SMP25 no air-saving	(2) Schmalz Mega Pumps SMP25 with air-saving
Transport time (sec.)	3 vacuum on all time	3 Saving mode no air-consumption
Evacuation time to -600 mbar (sec.) → time to reach defined vacuum level and enter saving mode	0.05	0.05
Total “vacuum on” time (sec.)	3.05	0.05
Air consumption per cycle (ft ³) (21.9 ft ³ air consumption per minute)	1.11	0.018
Number of cycles in 3-shift operation (6 sec. per cycle)	14,400	14,400
Daily air consumption (ft ³)	15,984	259
Yearly cost savings (360 working days, \$0.25 per 1000 ft ³)		\$1,415.25

98%

comp. air savings



Compact ejector SCPI/SMPi



Compact ejector X-Pump



Decentralized Ejector SEAC-RP

Top (4) Selling Points

- Dramatic cost reduction & extremely short ROI due to significant reduction of compressed air usage (up to 98%!)
- Pneumatic & Electronic Air Saving Solutions for centralized & decentralized systems
- Reduced noise level due to shorter suction period
- Eco-Friendly: reduced energy consumption

For further information, please ask your Schmalz Regional Sales Manager or our expert in our Raleigh HQs:
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Register online to get free 3D drawings

www.schmalz.com