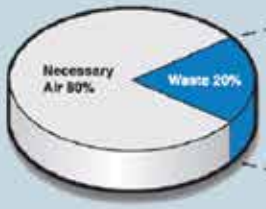
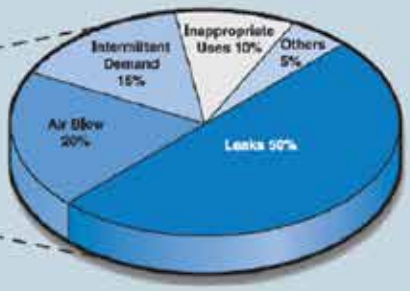
Air leaks means losing money!

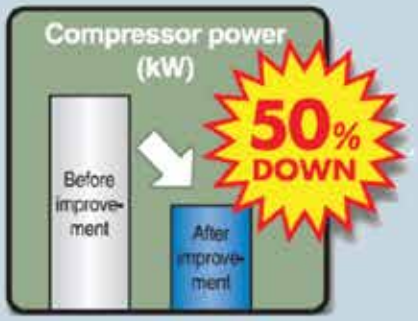
Let's listen to your air leak sounds during machine stop!

Power Consumption for Compressed Air



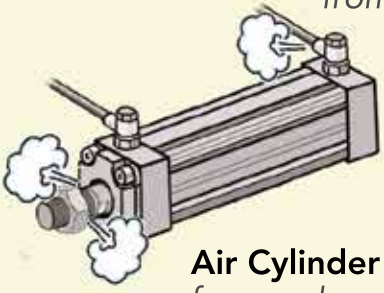
Compressed Air Wasted





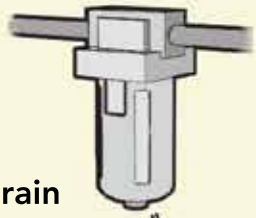
Let's fix any air leak for cost reduction!

Speed Controller
from One-touch fittings



Fitting

Air Tubing

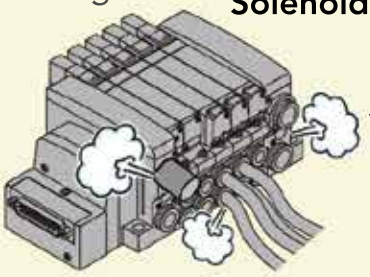


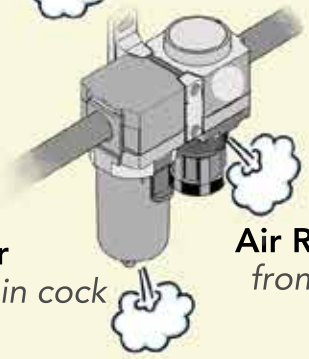
Auto Drain
from drain cock

Air Cylinder
from rod packing

Solenoid Valves

in between solenoid valve and base





Air Filter
from drain cock

Air Regulator
from relief port

from silencer

from One-touch fittings

NF407-A

The Cost of Air Leaks

Leak Hole Size	1/64" (0.4mm)		1/32" (0.8mm)		1/16" (1.6mm)	
Pressure	Air Flow	Cost per Year	Air Flow	Cost per Year	Air Flow	Cost per Year
70 psi	0.300 scfm	$43.34	1.20 scfm	$193.38	4.79 scfm	$771.90
80 psi	0.335 scfm	$53.98	1.34 scfm	$215.94	5.36 scfm	$863.76
90 psi	0.370 scfm	$59.62	1.48 scfm	$238.50	5.92 scfm	$954.00
100 psi	0.406 scfm	$65.42	1.62 scfm	$261.06	6.49 scfm	$1,045.86
125 psi	0.494 scfm	$79.60	1.98 scfm	$319.07	7.90 scfm	$1,273.08

Leak Hole Size	1/8" (3.2mm)		1/4" (6.4mm)		3/8" (9.5mm)	
Pressure	Air Flow	Cost per Year	Air Flow	Cost per Year	Air Flow	Cost per Year
70 psi	19.2 scfm	$3,094.08	76.7 scfm	$12,360.20	173 scfm	$27,873.95
80 psi	21.4 scfm	$3,448.61	85.7 scfm	$13,810.55	193 scfm	$31,424.25
90 psi	23.8 scfm	$3,835.37	94.8 scfm	$15,277.02	213 scfm	$34,324.95
100 psi	26.0 scfm	$4,189.90	104 scfm	$16,759.60	234 scfm	$37,709.10
125 psi	31.6 scfm	$5,029.34	126 scfm	$20,304.90	284 scfm	$45,766.60

$0.10/KW, 8760 hours per year. 90% Compressor Motor efficiency

In addition to the inherent running costs of air leaks, there is the additional release of CO_2 that can be prevented.

SMC Energy Conservation

As the world leader in pneumatics, SMC can provide a specific service for compressed air users to help achieve maximum energy efficiency.

Throughout North America, SMC's highly trained Energy Conservation Group is available to audit any industry's compressed air system from compressor operation to point of use inefficiency.

This in-depth evaluation includes:

- Compressor operation
- Air blow efficiency
- Leak detection
- Pressure levels
- Intermittent demand
- General air consumption
- Machine specific analysis
- Inappropriate uses
- Electrostatic measurement

SMC's Energy Specialists will monitor current consumption and evaluate all leaks, using a full range of measuring equipment including.

- Flow, pressure and dewpoint sensors
- Data loggers
- Filtration and air quality tools
- Infrared temperature guns
- Ultrasonic leak detectors

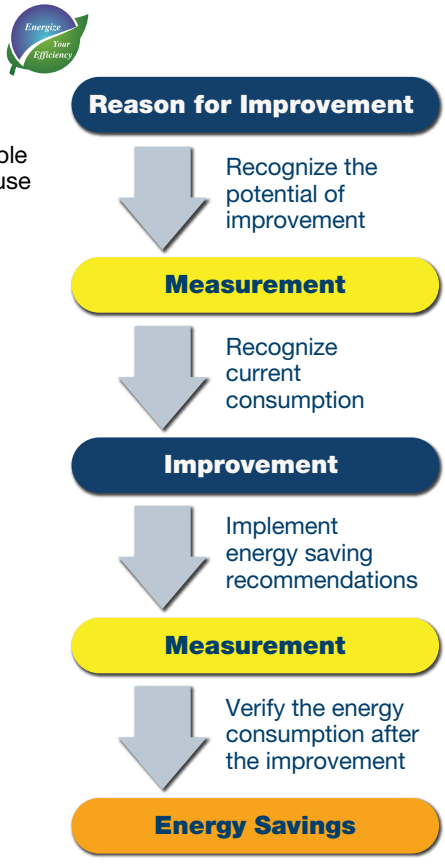
Once the system has been thoroughly examined from top to bottom. SMC's Energy Conservation Experts will provide a comprehensive evaluation of the compressed air system.

This audit includes the following:

- In-depth report of the existing compressed air system
- Measurement and findings
- Improvement proposals
- Expected savings
- Return on investment calculations
- System maintenance recommendations

Additionally, unlike the majority of consultants who only supply reports and recommendations. SMC's Energy Conservation Group will work side by side with the facility to help deliver practical energy saving solutions that guarantee results.

Simply contact your local SMC branch to learn more about SMC's Energy Conversation Audits.



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