

CONSERVAIR-AMPLIFIERS

**Convey, Vent, exhaust, cool, dry,
clean — with no moving parts!**

A simple, low cost way to move air, smoke fumes, and light materials. ConservAIR-Amplifiers utilize the coanda effect — a basic principle of fluidics — to create air motion in their surroundings. Using a small amount of compressed air as their power source, ConservAIR-Amplifiers pull in large volumes of surrounding air to **produce high volume and high velocity outlet flows**. Quiet, efficient ConservAIR-Amplifiers will create output flows up to 20 times their consumption rate.

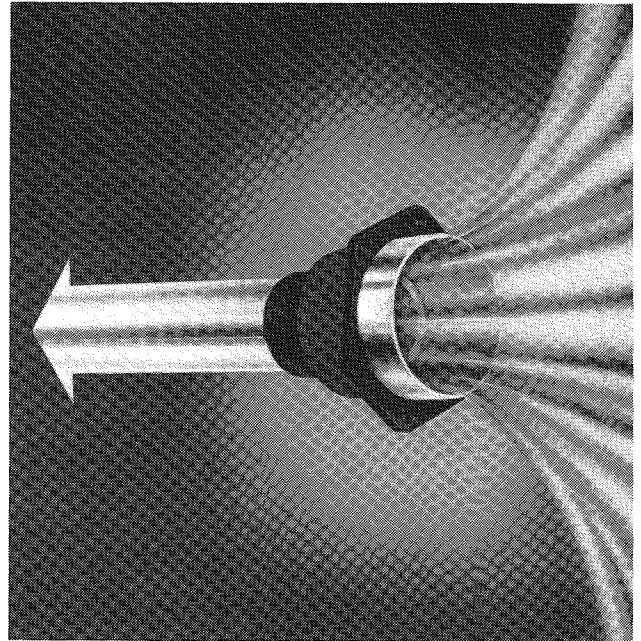
ConservAIR-Amplifiers have no moving parts, assuring maintenance free operation. No electricity is required. Flow, vacuum, and velocity are easy to control. Shims can be added to increase outlet flow. Supply air pressure can be regulated to decrease outlet flow. Both the vacuum and discharge ends of the ConservAIR-Amplifier can be ducted for conveying applications.

ADVANTAGES

- Compact - lightweight
- Explosion proof - no electricity
- No moving parts - maintenance free
- Infinite output control
- Low compressed air consumption
- Quieter
- Meets OSHA pressure and noise requirements

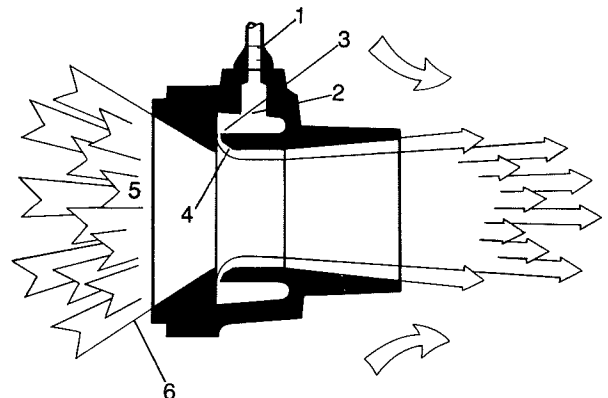
TYPICAL APPLICATIONS

- Vent welding smoke
- Cool hot parts
- Dry wet parts
- Clean machined parts
- Convey small parts
- Ventilate confined areas
- Remove waste trim
- Exhaust tank fumes



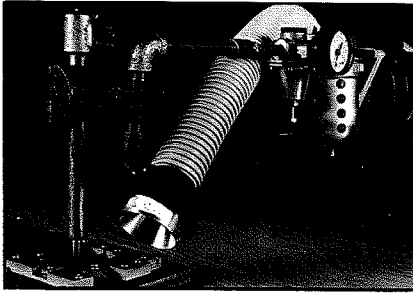
HOW CONSERVAIR-AMPLIFIERS WORK

Compressed air flows through the inlet (1) into an annular chamber (2). It is then throttled through a small ring nozzle (3) at high velocity. This primary air stream adheres to the coanda profile (4) which directs it towards the outlet. A low pressure area is created at the center (5) inducing a high volume flow of surrounding air into the primary air stream (6). The combined flow of primary and surrounding air exhausts from the ConservAIR-Amplifier in a high volume, high velocity flow.



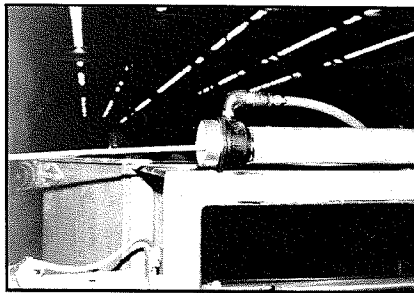
ConservAIR-Amplifiers: Economical, Quiet and Reliable

FUME REMOVAL



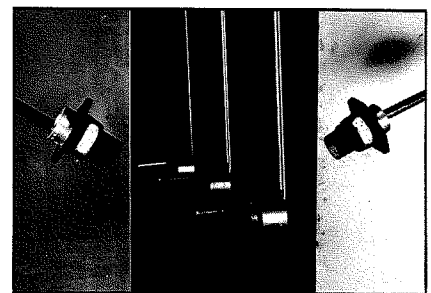
...from welding operations in a wire products plant — at the source. Compact ConservAIR-Amplifiers are also installed in hoods to "boost" overworked central exhaust systems.

CONVEYING



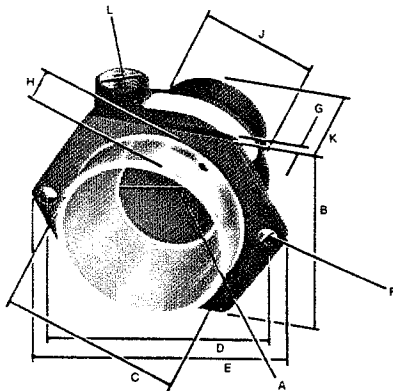
... a strip of vinyl waste material. Small parts and light materials such as sawdust, plastic granules, and textile bi-products are easily conveyed with ConservAIR-Amplifiers.

DRYING

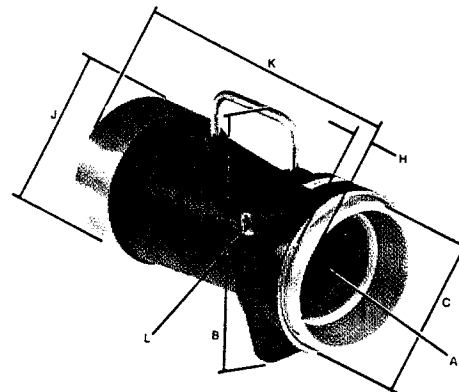


... metal parts emerging from a washer. High flow amplifications make ConservAIR-Amplifiers an economical choice for parts drying, cleaning and cooling.

DIMENSIONS



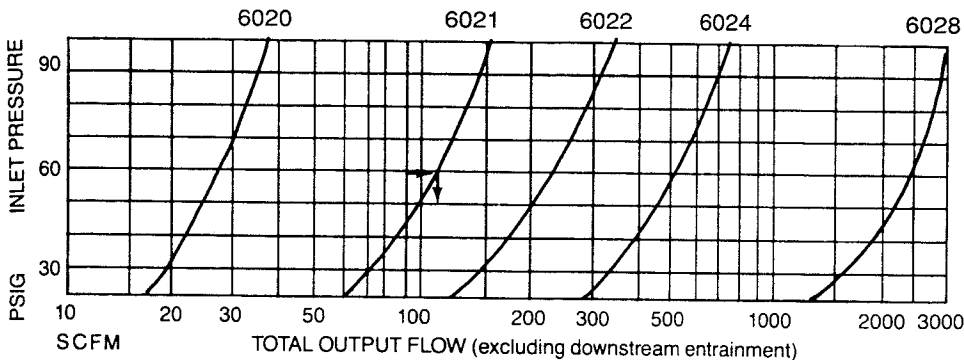
MODELS 6020-6024



MODEL 6028

MOD #	A	B	C	D	E	F	G	H	J	K	L
6020	in. 0.39	1.30	0.98	1.77	2.28	0.20	0.16	0.59	0.73	1.55	1/8NPT
6021	in. 0.79	1.85	1.50	2.40	3.03	0.27	0.20	0.59	1.22	2.16	1/4NPT
6022	in. 1.57	3.15	2.95	3.58	4.13	0.27	0.27	0.78	2.00	2.91	3/8NPT
6024	in. 2.95	5.90	4.91	6.89	8.46	0.53	0.55	1.19	3.97	5.90	1/2NPT
6028	in. 4.92	10.39	7.08	N/A	N/A	N/A	N/A	0.79	7.79	16.73	3/4NPT

60xx Air Amp only; 61xx with filter; 62xx with filter and key lockable Regulator;
63 denotes shim set; 64xx with key lockable Regulator only. Regulators include gauges.



BASIC AMPLIFICATION RATIOS	
MODEL	RATIO
6020	6.5
6021	14.0
6022	15.0
6024	17.0
6028	20.0

Air Consumption: Divide total output air flow by the amplification ratios shown.

DISTRIBUTED BY

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