



AIR KNIVES



PRODUCT SPECIFICATIONS

CCN#	Description
	ALUMINUM AIR KNIFE
38037602	6" (15cm) Aluminum Air Knife
38037610	12" (30cm) Aluminum Air Knife
38037628	18" (46cm) Aluminum Air Knife
38037636	24" (61cm) Aluminum Air Knife

AIR KNIFE SHIM SET

The compressed air exhausts through a gap, which is set with a shim, positioned between the cap and the body of the air knife. Adding shims to open the gap may easily increase force and flow through the air knife.

CCN#	Description
	ALUMINUM AIR KNIFE SHIM SETS
38037644	6" (15cm) Aluminum Air Knife Shim Set
38037651	12" (30cm) Aluminum Air Knife Shim Set
38037669	18" (46cm) Aluminum Air Knife Shim Set
38037677	24" (61cm) Aluminum Air Knife Shim Set

PERFORMANCE - EXAMPLE OF A 12" (30CM) AIR KNIFE

Pressure Supply		Air Consumption per Inch (25 mm)		Velocity at 6" (15cm) from target		Sound Level @ 3' (91 cm)	Force per inch (2.5 cm) @ 6" (15 cm) from target	
PSIG	BAR	SCFM	SLPM	FPM	M/S	dBA	OUNCES	GRAMS
20	1.4	1.1	31	5000	25.4	57	0.6	17
40	2.8	1.7	48	7000	35.6	61	1.1	31
60	4.7	2.3	65	9600	48.8	65	1.8	51
80	5.5	2.9	82	11,800	57.9	69	2.5	71
100	6.9	3.5	99	13,500	66	72	3.2	91

NOTE: For all other models offered, the above numbers decrease or increase proportionally to the size of the air knife. If the above sample is for a 12", then to calculate a 6", simply divide all numbers by 2.

APPLICATIONS

- Part drying after wash
- Sheet cleaning in strip mills
- Conveyor cleaning
- Part or component cooling
- Web drying or cleaning
- Environmental separation
- Pre-paint blowoff
- Bag opening/fill operations
- Scrap removal on converting operations

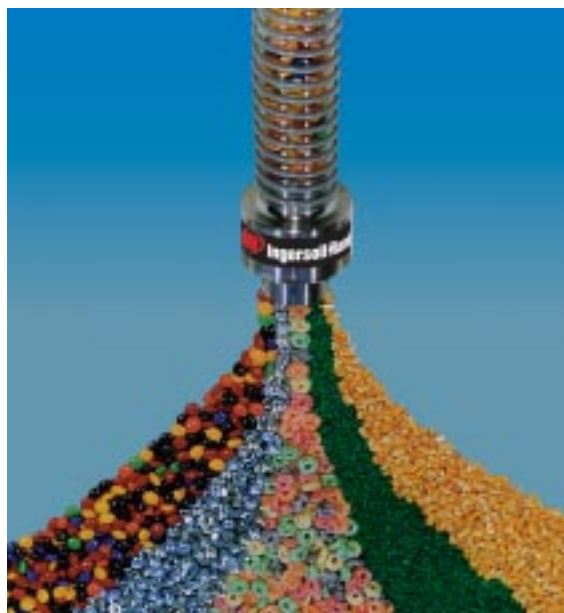
ADVANTAGES

- Quiet - 69 dBA for most applications
- Minimal air consumption
- 40:1 air amplification
- Uniform airflow across entire length
- Variable force and flow
- No moving parts - maintenance free
- Easy mounting - compressed air inlets on each end and bottom
- Compact, rugged, easy to install



LINE VACUUMS

Line vacuum conveyors are ideal for moving large volumes of material over long distances. A small amount of compressed air is injected through directed nozzles to produce a vacuum on one end and high output flows on the other, with instantaneous response. The material flow rate is controlled with a pressure regulator.



APPLICATIONS

- Hopper loading
- Fiber tensioning
- Material conveying
- Waste/trim removal
- Chip removal
- Part transfer
- Filling operations

ADVANTAGES

- Compact
- Quiet
- No moving parts
- Fits standard hose or tube
- Aluminum or stainless steel
- Five sizes
- High throughput capability

PRODUCT SPECIFICATIONS

CCN#	Description	Air Consumption		Vacuum	
		SCFM	SLPM	H ₂ O	kPa
ALUMINUM LINE VACUUMS - 80PSIG (5.5 BAR)					
38037685	3/4" (19mm) Aluminum Line Vacuum	10.7	303	-72	-18
38037693	1" (25mm) Aluminum Line Vacuum	14.7	416	-42	-11
38037701	1-1/4" (32mm) Aluminum Line Vacuum	25.9	733	-42	-11
38037719	1-1/2" (38mm) Aluminum Line Vacuum	33	934	-36.8	-9
38037727	2" (51mm) Aluminum Line Vacuum	45	1274	-28.5	-7

AIR AMPLIFIERS

Air amplifiers are a simple, low cost way to move air, smoke, fumes, and light materials. Using a small amount of compressed air as their power source, air amplifiers pull in large volumes of surrounding air to produce high volume and high velocity outlet flows. Quiet and efficient air amplifiers, create output flows up to 25 times their consumption rate.

APPLICATIONS

- Vent welding smoke
- Cool hot parts
- Dry wet parts
- Clean machined parts
- Distribute heat in molds/ovens
- Ventilate confined areas
- Wipe hose, wire, fiber optics
- Exhaust tank fumes

ADVANTAGES

Compared to Fans:

- Compact, lightweight, portable
- No electricity
- No moving parts – no maintenance
- Ends are easily ducted
- Instant on/off
- Variable force and flow

AIR AMPLIFIERS CONT'D

PRODUCT SPECIFICATIONS

CCN#	Description	Air Consumption			Vacuum	
		SCFM	SLPM	RATIO	SCFM	SLPM
AIR AMPLIFIERS - 80 PSIG (5.5 BAR)						
38037743	3/4" (19mm) Air Amplifier	6.1	173	12	73	2,066
38038030	1-1/4" (32mm) Air Amplifier	8.1	229	18	146	4,132
38038048	2" (51mm) Air Amplifier	15.5	439	22	341	9,650

CCN#	Description
AIR AMPLIFIER SHIM SETS	
38038055	3/4" (19mm) Air Amplifier Shim Set
38038063	1-1/4" (32mm) Air Amplifier Shim Set
38038071	2" (51mm) Air Amplifier Shim Set



ADJUSTABLE SPOT COOLER

This spot cooler is a low cost, reliable, maintenance free solution to a variety of industrial spot cooling problems. With the turn of a knob, you can select the temperature best suited to your application.

It can produce:

- Temperatures from -30° to + 70°F (-34° to 21°C)
- Flow rates from 15 to 30 SCFM (425 to 825 SLPM)
- Refrigeration up to 2000 Btu/hr. (504 Kcal/hr.)



PRODUCT SPECIFICATIONS

CCN#	Description
ADJUSTABLE SPOT COOLER	
38037735	Adjustable Spot Cooler (one cold outlet)

APPLICATIONS

- Adjusting thermostats
- Cooling solder
- Cooling machined plastics
- Setting hot melts
- Cooling welding horns
- Cooling molded plastics
- Electronic component cooling
- Cooling gas samples
- Cooling environmental chambers

ADVANTAGES

- No moving parts
- No electricity or chemicals
- Small, lightweight
- Low cost
- Maintenance free
- Instant cold air
- Quiet - less than 75 dBA
- Swivel magnetic base
- Interchangeable generators



AIR JETS AND AIR NOZZLES

Air Jets and Air Nozzles are a simple solution to excessive air consumption and noise level on compressed air blow-off operations. Using a small amount of compressed air as a power source, Air Jets and Nozzles produce outlet flows up to 25 times compressed air consumption.

- Safe and efficient use of compressed air
- Reduce energy costs
- Reduce noise levels
- Eliminate harmful dead ended pressures



APPLICATIONS

- Part cleaning
- Chip removal
- Part drying
- Liquid blowoff
- Part cooling
- Material conveying
- Part ejection
- Fiber conveying
- Air assist

ADVANTAGES

- Reduced compressed air cost
- 10 dBA average noise reduction
- Improved blowoff performance
- Compact
- Meet OSHA noise level requirements
- Meet OSHA pressure requirements

PRODUCT SPECIFICATIONS

CCN#	Description	Air Consumption		Vacuum	
		SCFM	SLPM	Ounces	Grams
AIR JETS					
38038089	High Velocity Air Jet, 1/2" (13mm) dia. outlet	16.5	467	14	396
38038097	Adjustable Air Jet, 1/2" (13mm) dia. outlet	18	509	16	453
38038105	Air Jet Shim Set				
AIR NOZZLES					
38038113	Safety Air Nozzle, 1/8 NPTF	10	283	9	257
38038121	Safety Air Nozzle, 1/4 NPTF	17	481	16	453
38038139	Adjustable Air Nozzle, 1/8 NPTM	13	368	12	340
38038147	Air Nozzle, 1/4 NPTF	14.7	416	13	368

All measurements taken at 80 PSIG (5.5 BAR)

Force measured at 12" (30cm) from target with a .006" (.15mm) factory setting

SOFT GRIP SAFETY AIR GUNS

These products are ideal for hours of continuous use without fatigue. The ergonomic design keeps the hand in a comfortable position and incorporates a large trigger that permits operation with one or more fingers. The durable cast aluminum body is suited for rugged industrial use and includes a convenient hanger hook for storage. The inlet is ¼ NPT.



PRODUCT SPECIFICATIONS

CCN#	Description
SAFETY AIR GUNS with CCN# 38038147 Air Nozzle	
38038154	Soft Grip Safety Air Gun With Air Nozzle and 24" Aluminum Extension
38038162	Soft Grip Safety Air Gun With Air Nozzle and 36" Aluminum Extension
38038170	Soft Grip Safety Air Gun With Air Nozzle and 48" Aluminum Extension
38038188	Soft Grip Safety Air Gun with Air Nozzle and 60" Aluminum Extension



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