



WHY AIREKA

AIREKA is the new brand under which Stima S.p.A. has decided to gather a series of diverse products that share the common feature of being simple and yet innovative solutions to long-standing and complex issues, for which we believe the market does not offer adequate answers. The simplicity is the result of creative work, know-how, and extensive experience that the designers instilled in these products. So, special features make them one-of-a-kind.

Always with a great focus on customers' demands.



Simian Project S.r.I. was started in 2007 as a result of the business flair and experience of Leonardo Lombardi as a designer in the automotive and packaging industries. Creativity, dynamism, and efficiency are the qualities that characterise both the products and the work methods of the company, by offering customers tailor-made solutions with quick turnaround time and high added value.

Made in italy



WHY CHOOSE AIREKA DEVICES

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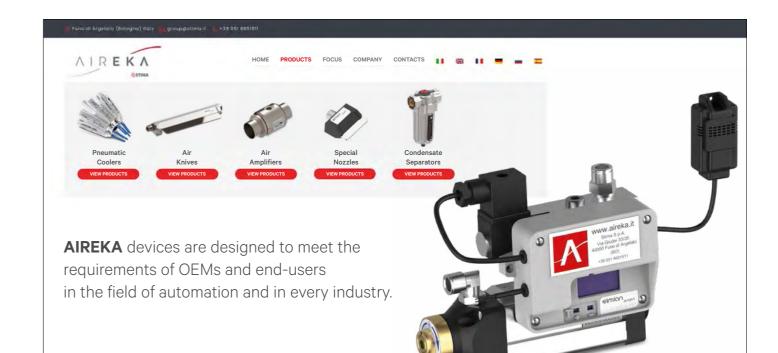
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■ CONDENSATE SEPARATORS

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They stand out in the market because of:

- Unique and innovative design;
- High performances;
- Robustness, simplicity of use, and high reliability;
- Customised versions (in dimensions and materials) easily available;
- High quality standards and scrupulous tests;
- Employ of electronics on many devices.

For more information, you can also check our website:

www.aireka.it



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EXAMPLES OF SECTORS OF APPLICATION



PNEUMATIC COOLERS

MACHINE TOOLS / MACHINING

Cooling of machined parts and of tools: milling, turning, cutting, etc.; cooling of blades and saws, etc.

AUTOMATIC MACHINERY / PACKAGING

Cooling of control cabinets, of closing points of bags, of welding points, of glues, of foils for packaging, of control displays, of touch panels, etc.

COMPOSITE MATERIALS

Tooling, machining, etc.; carbon fibres' processing.

MOULDING

Both for plastics and metals. Cooling of moulds, sprues, and moulded parts.

AUTOMOTIVE

Cooling of plastic components.

FOUNDRIES

Cooling of moulds and workpieces.

PRESSES

Cooling of electric motors and of parts of the press itself.

PAPER PROCESSING

Cooling of blades.

• TEXTILE

Cooling of needles.

- LASER CUTTING
- TUBES EXTRUSION
- LINEAR MOTORS.

AIR KNIVES

PACKAGING

Cleaning of parts on conveyor belts, opening of plastic bags, blowing plastic films, etc.

MACHINE TOOLS / MACHINING

To clean and dry machined parts, cleaning of machine windows, etc.

WOODWORKING

To clean panels, to blow-off chips, etc.

AUTOMOTIVE

Cleaning and drying of vehicles' bodies before finishing.

FINISHING

Drying of surfaces before painting.

- FOODSTUFFS
- Drying of bottles after filling, to clean vegetables, to clean photocells and optical sensors.
- PAPER PROCESSING

Sheeting, browsing of foils, to remove scraps, etc.

• TILES / CERAMICS

To dry and clean tiles.

INDUSTRIAL LAUNDERING

To dry parts.



AIR AMPLIFIERS

PACKAGING / AUTOMATIC MACHINERY

To convey granules, tobacco, coffee powder, etc., to either blow-off and suction shavings.

MACHINE TOOLS

To blow-off shavings and scraps, to empty tanks of emulsified water, etc.

WOODWORKING

To blow-off chips.

WELDING

Aspiration of fumes and gases

PHARMACEUTICAL

Conveying of pills.

WIRES EXTRUSION

To clean the wire.

• 3D PRINTERS

Conveying of plastic granules.

SPECIAL NOZZLES

• DEVICES FOR BLOW-OFF AND CLEANING

Automatic machinery, metal processing, plastic industry, woodworking, ceramic, marble processing.





PNEUMATIC COOLERS

SERIES VR / VRX / VR U-G

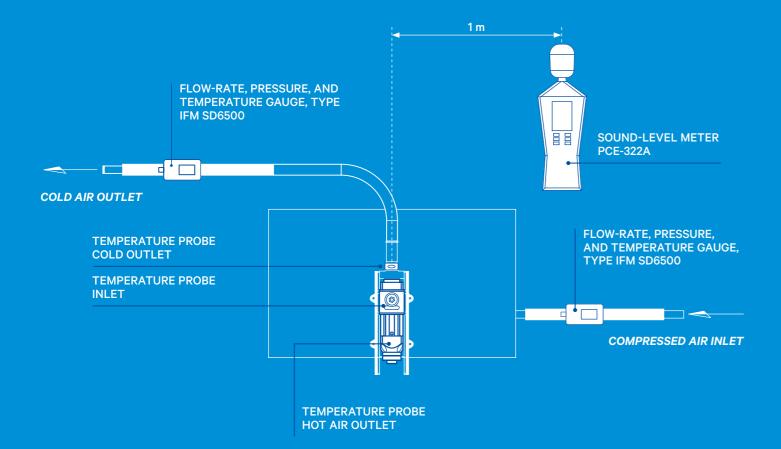
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Description of the set-up and instrumentation used for our tests on pneumatic coolers.



The VR / VRX / VR U-G SERIES

coolers are state-of-the-art solutions for compressed-air cooling based on the principle of the Vortex Tube. The excellent performances of flow-rate and ΔT generated, the design, the fastenings that make them extremely versatile to mount, and the possibility to combine them in a patented system with the air amplifiers (to use the hot air flow), offer customers an innovative, effective, and inexpensive solution to cool down metal and plastic parts, electric and electronic control cabinets, and mechanical applications. All this with a simple connection to the compressed-air line.

- Δ T up to -40°C for the cold flow and +60°C for the hot flow, in comparison to the temperature of air at inlet
- Easy to install, thanks to flanges and magnetic supports
- Patented system of hot air's recovery to actuate an amplifier/conveyor

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- Made of corrosion-resistant materials
- No moving part, so not subject to wear and tear
- No electricity or chemical substances required
- They do not cause either sparkles or interferences
- Instant operation
- Reliable and maintenance-free



VORTEX TUBES



COLD AIR OUTLET VORTEX TUBE COMPRESSED AIR INLET HOT AIR OUTLET ADJUSTMENT VALVE

Ranque-Hilsch tube (Vortex tube)

DESCRIPTION OF VORTEX TUBES

The Ranque-Hilsch tube, in the industrial sector better known as "Vortex tube", is a device that splits a compressed-air flow in 2 separate streams: one of cold air, and one of hot air.

The core of the system is the vortex chamber, which is connected to 2 opposed tubes, one of which features a valve. When the compressed air is injected tangentially in the chamber, this causes the rotary movement of air towards one of the exits. This vortex moves rotating at high speed and brushing against the inner side of the tube, increasing in temperature; the valve placed at the hot air outlet enables some of it to be exhausted. The remaining part goes back, creating a low pressure vortex moving towards the other exit and giving away heat to the first vortex. So, this flow is much colder.

The Δ T generated is inversely proportional to the volume of the flow. The differences in temperature are considerable and can reach -40°C for the cold flow and 60°C for the hot flow.

In the industrial field the Vortex tubes have been employed for a long time and have found a variety of applications in which they offer a major added value.

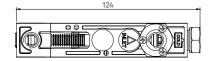
They have great cooling performances, are very easy to install and have instant operation, have no moving part and therefore are maintenance-free. Plus, they do not require electric power, so they are suitable for dangerous environments and humid areas.

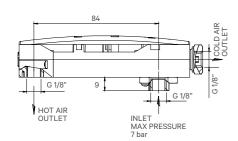
If the application enables their use, they are price-worthier than electric coolers. Our coolers SERIES VR and VRX, beside the excellent performances in comparison to the other products in the market, were designed to be easily customised according to customers' demands.









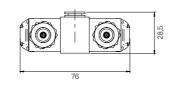


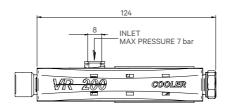
GENERAL FEATURES - VR-100	
Materials	Body and cover: Nylon 6.6
	Air connections and nozzles: brass
Air inlet port	G-1/8" F
Outlet port (cold flow)	G-1/8" F
Exhaust port (hot flow)	G-1/8" F
Recommended hose	Ø-8x1
Air supply pressure	3 ÷ 7 bar
Cooling power*	120 W - 100 Kcal/h - 400 BTUH
Optional magnetic support	KACM-VR100

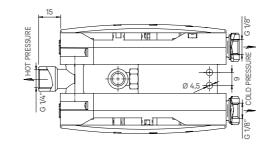
^{*}with inlet pressure 7 Bar and inlet temperature 20°C

PERFORMANCES AND CONSUMPTION TABLE (with air temperature at inlet 20°C)

Pressure bar	Outlet temperature cold flow °C	Consumption NL/min
1	-1.5	32
2	-8	53
3	-15	74
4	-21,5	94
5	-24,5	115
6	-26,5	135
7	-28	154







GENERAL FEATURES - VR-200	
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Materials	Body and cover: Nylon 6.6
	Air connections and nozzles: brass
Air inlet port	Push-in fitting Ø-8x6
Outlet port (cold flow)	2 x G-1/8" F
Exhaust port (hot flow)	2 x G-1/8" F
Recommended hose	Ø-8x1
Air supply pressure	3 ÷ 7 bar
Cooling power*	240 W - 200 Kcal/h - 800 BTUH
Optional magnetic support	KACM-VR200

^{*}with inlet pressure 7 Bar and inlet temperature 20°C

PERFORMANCES AND CONSUMPTION TABLE (with air temperature at inlet 20°C)

Pressure bar	Outlet temperature cold flow °C	Consumption NL/min
1	-1,5	64
2	-8	106
3	-15	148
4	-21,5	196
5	-24,5	230
6	-26,5	270
7	-28	308

SERIES VR-300T • 3 OUTLETS

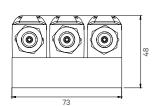
MODULAR PNEUMATIC COOLERS

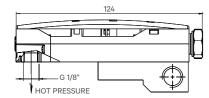
SERIES VR-300U · SINGLE OUTLET

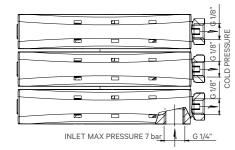
MODULAR PNEUMATIC COOLERS









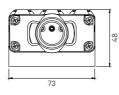


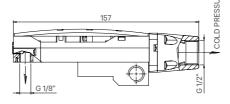
GENERAL FEATURES - VR-30	от
Materials	Body and cover: Nylon 6.6
	Air connections and nozzles: brass
Air inlet port	G-1/4" F
Outlet port (cold flow)	3 x G-1/8" F
Exhaust port (hot flow)	3 x G-1/8" F
Recommended hose	Ø-8x1
Air supply pressure	1 ÷ 7 bar
Cooling power*	360 W - 300 Kcal/h - 1200 BTUH
Optional magnetic support	KACM-VR300

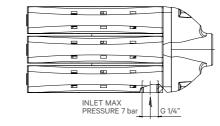
^{*}with inlet pressure 7 Bar and inlet temperature 20°C

PERFORMANCES AND CONSUMPTION TABLE (with air temperature at inlet 20°C)

Pressure bar	Outlet temperature cold flow °C	Consumption NL/min
1	-1,5	96
2	-8	159
3	-15	222
4	-21,5	282
5	-24,5	345
6	-26,5	405
7	-28	462







GENERAL FEATURES - VR-300U	
Materials	Body and cover: Nylon 6.6
	Air connections and nozzles: brass
Air inlet port	G-1/4" F
Outlet port (cold flow)	1 x G-1/2" F
Exhaust port (hot flow)	3 x G-1/8" F
Recommended hose	Ø-8x1
Air supply pressure	3 ÷ 7 bar
Cooling power*	360 W - 300 Kcal/h - 1200 BTUH
Optional magnetic support	KACM-VR300

^{*}with inlet pressure 7 Bar and inlet temperature 20°C

PERFORMANCES AND CONSUMPTION TABLE (with air temperature at inlet 20°C)

Pressure bar	Outlet temperature cold flow °C	Consumption NL/min
1	-1,5	96
2	-8	159
3	-15	222
4	-21,5	282
5	-24,5	345
6	-26,5	405
7	-28	462

SERIES VR-200U • SINGLE OUTLET

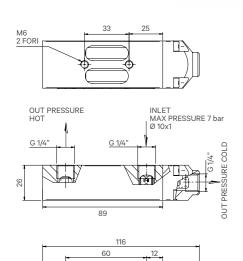
HIGH-PERFORMANCE COMPACT PNEUMATIC COOLERS

SERIES VR-400U • SINGLE OUTLET

HIGH-PERFORMANCE COMPACT PNEUMATIC COOLERS







GENERAL FEATURES - VR-2000	U
Materials	Body and cover: Delrin
	Ports and nozzles: Brass
Air inlet port	G-1/4" F
Outlet port (cold flow)	G-1/4" F
Exhaust port (hot flow)	G-1/4" F
Recommended hose	Ø-8x1
Air supply pressure	max 7 bar
Cooling power*	264 W - 220 Kcal/h - 880 BTUH
Optional magnetic support	By means of 2 threads M6 on the body
Weight	210 g

^{*} With inlet pressure 7 Bar and inlet temperature 20°C.

PERFORMANCES AND CONSUMPTION TABLE (with air temperature at inlet 20°C)

Pressure bar	Outlet temperature cold flow °C	Consumption NL/min	Noise level* dBA
1	-2	64	50
2	-12	106	54
3	-18	148	58
4	-23	188	61
5	-26	230	65
6	-28	270	68
7	-31	308	70

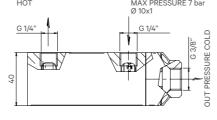
OUT PRESSURE
HOT

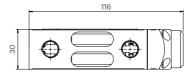
OUT PRESSURE
HOT

MAX PRESSURE 7 bar
Ø 10x1

G 1/4"

G 1/4"





GENERAL FEATURES - VR-400U	
Materials	Body and cover: Delrin
	Ports and nozzles: Brass
Air inlet port	G-1/4" F
Exhaust port (hot flow)	G-1/4" F
Recommended hose	Ø-10x1
Supply pressure	max 7 bar
Cooling power*	528 W - 440 Kcal/h - 1760 BTUH
Optional fixation of magnetic kit	By means of 2 threads M6 on body
Weight	285 g

^{*} With inlet pressure 7 Bar and inlet temperature 20°C..

PERFORMANCES AND CONSUMPTION TABLE (with air temperature at inlet 20°C)

Pressure bar	Outlet temperature cold flow °C	Consumption NL/min	Noise level* dBA
1	-2	128	55
2	-12	212	60
3	-18	296	64
4	-23	376	67
5	-26	460	70
6	-28	540	71
7	-31	616	73

^{*}Test made with insulated LOC-LINE flexible tube at cold outlet, and tube L= 1 m at hot air outlet.

^{*}Test made with insulated LOC-LINE flexible tube at cold outlet, and tube L= 1 m at hot air outlet.

SERIES VR-400G • TO COOL DOWN BLADES, BELTS, AND BANDS

HIGH-PERFORMANCE COMPACT PNEUMATIC COOLERS

OUT PRESSURE HOT G 1/4"

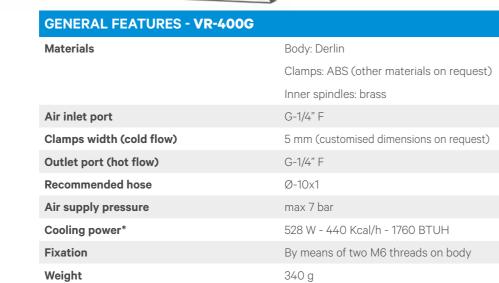
OUT PRESSURE HOT INLET PRESSURE MAX 7 bar Ø 10x1

G 1/4"

SERIES VR-600U - SINGLE OUTLET

HIGH-PERFORMANCE COMPACT PNEUMATIC COOLERS



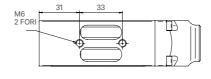


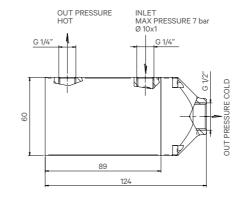
^{*} With inlet pressure 7 Bar and inlet temperature 20°C..

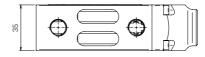
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Pressure bar	Outlet temperature cold flow °C	Consumption NL/min
1	-2	128
2	-12	212
3	-18	296
4	-23	376
5	-26	460
6	-28	540
7	-31	616









*Test made with insulated LOC-LINE flexible tube at cold outlet, and tube L= 1 m at hot air outlet.

GENERAL FEATURES - VR-60	DOU COMPANY OF THE PROPERTY OF
Materials	Body: Derlin
	Ports and nozzles: Brass
Air inlet port	G-1/4" F
Clamps width (cold flow)	G-1/2" F
Outlet port (hot flow)	G-1/4" F
Recommended hose	Ø-10x1
Air supply pressure	max 7 bar
Cooling power*	720 W - 600 Kcal/h - 2400 BTUH
Fixation	By means of two M6 threads on body
Weight	460 g

^{*} With inlet pressure 7 Bar and inlet temperature 20°C..

PERFORMANCES AND CONSUMPTION TABLE (with air temperature at inlet 20°C)

Pressure bar	Outlet temperature cold flow °C	Consumption NL/min	Noise level* dBA
1	-2	192	58
2	-12	318	64
3	-18	444	68
4	-23	564	72
5	-26	690	75
6	-28	810	78
7	-31	924	80

SERIES VR-600G • TO COOL DOWN BLADES, BELTS, AND BANDS

HIGH-PERFORMANCE COMPACT PNEUMATIC COOLERS

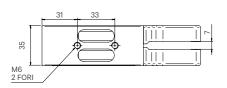
SERIES VRX-100

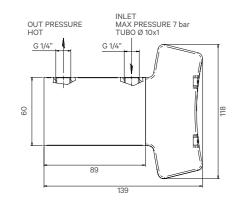
HIGH-PERFORMANCE PNEUMATIC COOLERS









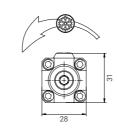


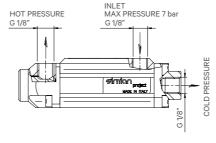
GENERAL FEATURES- VR-600G	
Materials	Body: Derlin
	Clamps: ABS (other materials on request)
	Inner spindles: Brass
Air inlet port	G-1/4" F
Clamps width (cold flow)	11 mm (customised dimensions on request)
Outlet port (hot flow)	G-1/4" F
Recommended hose	Ø-10x1
Air supply pressure	max 7 bar
Cooling power*	790 W - 660 Kcal/h - 2640 BTUH
Fixation	By means of two M6 threads on body
Weight	540 g

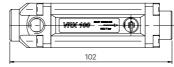
^{*} With inlet pressure 7 Bar and inlet temperature 20°C..

PERFORMANCES AND CONSUMPTION TABLE (with air temperature at inlet 20°C)

Pressure bar	Outlet temperature cold flow °C	Consumption NL/min
1	-2	192
2	-12	318
3	-18	444
4	-23	564
5	-26	690
6	-28	810
7	-31	924







*Test made with insulated LOC-LINE flexible tube at cold outlet, and tube $L=1\,\mathrm{m}$ at hot air outlet.

GENERAL FEATURES - VRX-100	
Materials	Sleeve: anodized aluminium
	Ends: Nylon 6.6
Air inlet port	G-1/8" F
Outlet port (cold flow)	G-1/8" F
Exhaust port (hot flow)	G-1/8" F
Recommended hose	Ø-8x1
Air supply pressure	1 ÷ 7 bar
Cooling power*	132 W - 110 Kcal/h - 440 BTUH
Optional magnetic support	KACM-VRX-100
Weight	170 g

^{*} With inlet pressure 7 Bar and inlet temperature 20°C..

PERFORMANCES AND CONSUMPTION TABLE (with air temperature at inlet 20°C)

Pressure bar	Outlet temperature cold flow °C	Consumption NL/min	Noise level* dBA
1	-2	32	54
2	-12	53	58
3	-18	74	62
4	-23	94	64
5	-26	115	64
6	-28	135	66
7	-31	154	68

SERIES VRX-300

HIGH-PERFORMANCE PNEUMATIC COOLERS

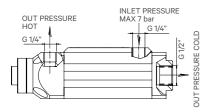
SERIES VRX-500

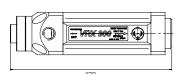
HIGH-PERFORMANCE PNEUMATIC COOLERS











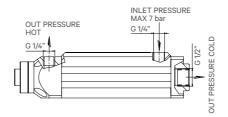
GENERAL FEATURES - VRX-300	
Materials	Sleeve: anodized aluminium
	Ends: Delrin100
Air inlet port	G-1/4" F
Outlet port (cold flow)	G-1/2" F
Exhaust port (hot flow)	G-1/4" F
Recommended hose	Ø 10x1
Air supply pressure	1 ÷ 7 bar
Cooling power*	600 W - 523 Kcal/h - 2075 BTUH
Optional magnetic support	KACM-VRX500
Weight	740 g

^{*} With inlet pressure 7 Bar and inlet temperature 20°C..

PERFORMANCES AND CONSUMPTION TABLE (with air temperature 20°C)

Pressure bar	Outlet temperature cold flow °C	Consumption NL/min	Noise level* dBA
1	-3	50	67
2	-7	170	72
3	-10	290	74
4	-13	410	76
5	-16	525	78
6	-17	650	80
7	-19	750	82







Materials Sleeve: anodized aluminium Ends: Delrin100 Air inlet port G-1/4" F Outlet port (cold flow) G-1/2" F Exhaust port (hot flow) G-1/4" F Recommended hose Ø 10x1 Air supply pressure 1 ÷ 7 bar Cooling power* 730 W - 630 Kcal/h - 2500 BTUH Optional magnetic support KACM-VRX500 Weight 860 g	GENERAL FEATURES - VRX-50	00
Air inlet port G-1/4" F Outlet port (cold flow) G-1/2" F Exhaust port (hot flow) G-1/4" F Recommended hose Ø 10x1 Air supply pressure 1 ÷ 7 bar Cooling power* 730 W - 630 Kcal/h - 2500 BTUH Optional magnetic support KACM-VRX500	Materials	Sleeve: anodized aluminium
Outlet port (cold flow) G-1/2" F Exhaust port (hot flow) G-1/4" F Recommended hose Ø 10x1 Air supply pressure 1 ÷ 7 bar Cooling power* 730 W - 630 Kcal/h - 2500 BTUH Optional magnetic support KACM-VRX500		Ends: Delrin100
Exhaust port (hot flow) G-1/4" F Recommended hose Ø 10x1 Air supply pressure 1 ÷ 7 bar Cooling power* 730 W - 630 Kcal/h - 2500 BTUH Optional magnetic support KACM-VRX500	Air inlet port	G-1/4" F
Recommended hose Ø 10x1 Air supply pressure 1 ÷ 7 bar Cooling power* 730 W − 630 Kcal/h − 2500 BTUH Optional magnetic support KACM-VRX500	Outlet port (cold flow)	G-1/2" F
Air supply pressure 1 ÷ 7 bar Cooling power* 730 W - 630 Kcal/h - 2500 BTUH Optional magnetic support KACM-VRX500	Exhaust port (hot flow)	G-1/4" F
Cooling power* 730 W - 630 Kcal/h - 2500 BTUH Optional magnetic support KACM-VRX500	Recommended hose	Ø 10x1
Optional magnetic support KACM-VRX500	Air supply pressure	1 ÷ 7 bar
	Cooling power*	730 W - 630 Kcal/h - 2500 BTUH
Weight 860 a	Optional magnetic support	KACM-VRX500
	Weight	860 g

^{*} With inlet pressure 7 Bar and inlet temperature 20°C..

PERFORMANCES AND CONSUMPTION TABLE (with air temperature 20°C)

Pressure bar	Outlet temperature cold flow °C	Consumption NL/min	Noise level* dBA
1	-3	120	66
2	-7	250	71
3	-10	380	72
4	-13	500	75
5	-16	633	77
6	-17	783	78
7	-19	900	80

^{*}Test made with insulated LOC-LINE flexible tube at cold outlet, and tube L= 1 m at hot air outlet.

^{*}Test made with insulated LOC-LINE flexible tube at cold outlet, and tube L= 1 m at hot air outlet.

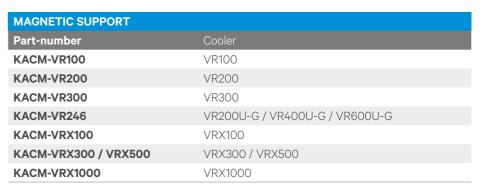
SERIES VRX-1000

HIGH-PERFORMANCE PNEUMATIC COOLERS

ACCESSORIES PNEUMATIC COOLERS

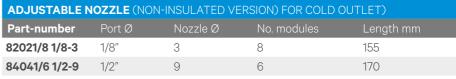












Other configurations available on request





STRAIGHT PUSH-IN FITTING FOR AIR SUPPLY

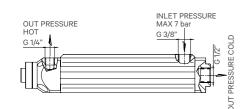
ELBOW PUSH-IN FITTING FOR AIR SUPPLY			
Part-number	Hose Ø	Size	Cooler
S6520	8	1/8"	VR-100 / VR-200 / VR-300 / VRX-100
S6520	10	1/4"	VRX-300 / VRX-500
S6520	12	1/4"	VRX-1000
S6520	10	3/8"	VR-600

SII FNCER FOR	SILENCER FOR HOT FLOW EXHAUST				
Part-number Size Noise at 6 bar dBA					
SC 1/8	1/8"	70			
SC 1/4	1/4"	67			
SC 3/8	3/8"	67			

In sintered bronze.

SILENCER F	OR COLD FLOW OUTLET (ITEM FOR VRX-30	00/VRX-500)
Codice	Size	
AC25	1/2"	







GENERAL FEATURES - VRX-1000	
Materials	Sleeve: anodized aluminium
	Ends: Delrin100
Air inlet port	G-3/8" F
Outlet port (cold flow)	G-1/2" F
Exhaust port (hot flow)	G-1/4" F
Recommended hose	Ø 12x1
Air supply pressure	1 ÷ 7 bar
Cooling power*	1650 W - 1417 Kcal/h - 5600 BTUH
Optional magnetic support	KACM-VRX1000
Weight	1060 g

^{*} With inlet pressure 7 Bar and inlet temperature 20°C..

PERFORMANCES AND CONSUMPTION TABLE (with air temperature at inlet 20°C)

Pressure bar	Outlet temperature cold flow °C	Consumption NL/min	Noise level* dBA
1	-3	230	70
2	-7	500	73
3	-10	800	75
4	-13	1100	77
5	-16	1424	79
6	-17	1760	81
7	-19	2025	83

^{*}Test at cold

	3	-10	1424	79	Codice Size
est made with insulated LOC-LINE flexible tube cold outlet, and tube L= 1 m at hot air outlet.	6	-17	1760	81	AC25 1/2"
	7	-10	2025	83	

CONTROL UNITS XTRONIC2

1/2/3 SOLENOID VALVES



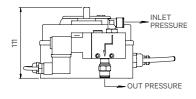
PNEUMATIC COOLERS





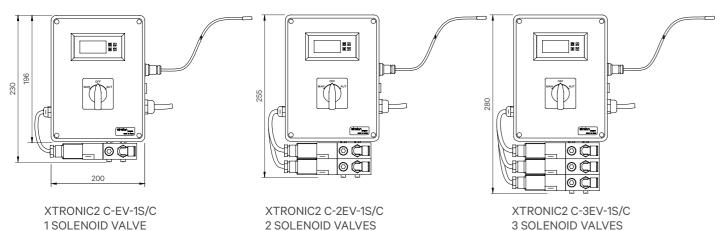
Control box featuring:

- 1. Switch for automatic/manual operation
- 2. Solenoid valve
- **3.** Electronic kit with 7-segment display
- **4.** Temperature probe and safety fuses (high-temperature kit available on request).



GENERAL FEATURES - XTRONIC2 (1/2/3 SOLENOID VALVES)

Supply voltage	220 V AC
Recommended hose	Ø 10x1
Supply pressure	max 7 bar
Probe length	1 m
Application	Outside of cabinets
Weight	
XTRONIC2 C-EV-1S/C (1 solenoid valve)	1300 g
XTRONIC2 C-2EV-1S/C (2 solenoid valves)	1600 g
XTRONIC2 C-3EV-1S/C (3 solenoid valves)	1900 g



GENERAL FEATURES - XTRONIC 345 B

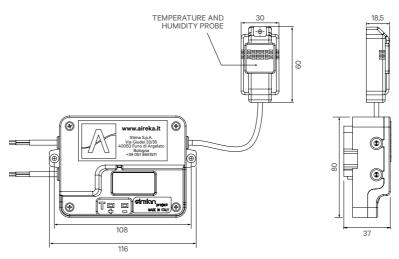
simion project

www.aireka.it

Stima S.p.A. Via Giudei 33/35 40050 Funo di Argelato

+39 051 8651511

Supply voltage	24 V DC
Probe length	1 m
Temperature range	-20°C +60°C
Humidity range	00% 100% RH
Accuracy	0.1°C , 0.1 % RH
Current capacity	max 10 A
Coil voltage and power	24 V - 3.1 W
Electric wires' section	0.75 mm
Supply cable length	1.5 m
Application	Inside cabinets



CONTROL UNITS XTRONIC 345 T

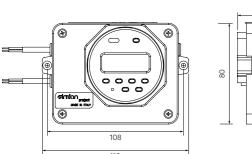
PNEUMATIC COOLERS

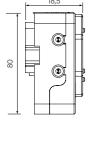
EXAMPLES OF INSTALLATION

PNEUMATIC COOLERS



GENERAL FEATURES - XTRONIC 345 T			
Supply	24 V DC		
Probe length	1 m		
Time setting	Weekly / h24		
Humidity range	0% - 100% RH		
Accuracy	0.1°C , 0.1 % RH		
Current capacity	max 10 A		
Coil power	24 V - 3.1 W		
Electric wires' section	0.75 mm		
Application	Inside / outside		



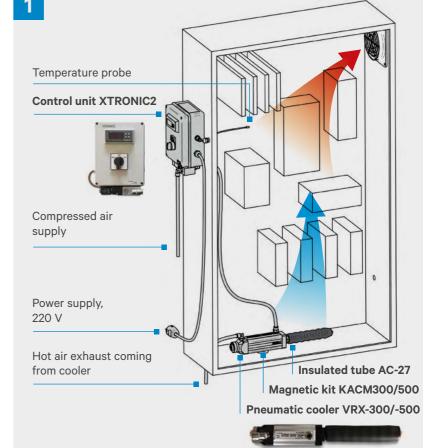


The installation of coolers in control cabinets can be of 3 types:

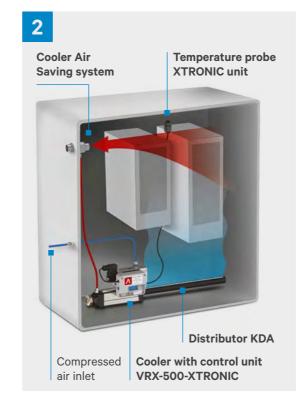
EXTERNAL unit
 to have the inner temperature of the cabinet displayed directly;

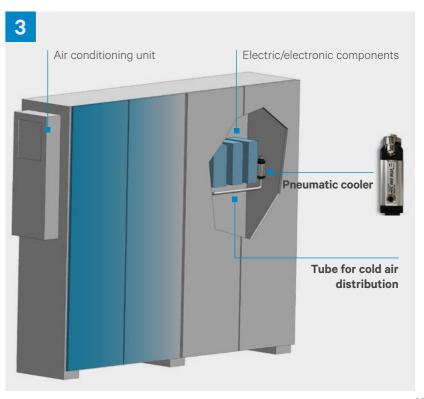
2. INTERNAL unit so that to have a compact solution;

HYBRID systems where the pneumatic cooler works in combination with an already existing air conditioning unit.



Hot airCold air





ELECTRONICALLY-CONTROLLED PNEUMATIC COOLERS

STAND-ALONE SERIES VRX-100-XTRONIC

ELECTRONICALLY-CONTROLLED PNEUMATIC COOLERS



STAND-ALONE SERIES

These are pneumatic coolers with temperature-control device, in a single unit. The market increasingly demands stand-alone devices, which are able to function autonomously, based on the parameters of the ambient temperature.

Therefore, we designed and developed the **XTRONIC** temperature-control units, which are available both for remote control and installed on pneumatic coolers.

So, it will be enough to place one of these electronically-controlled devices inside the enclosure that has to be cooled, connect the pneumatic hoses and the electric wires, and set the desired temperature range on the display of the unit.

This way, the cooler will start working only when it is necessary, it will maintain the required refrigeration, and it will make it possible to save compressed air and energy.

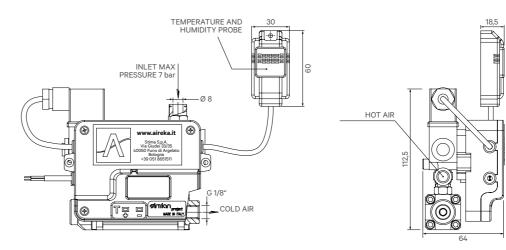
Our XTRONIC control units can be customised too.

Λ I R E K Λ

GENERAL FEATURES - VRX-100 XTRONIC

Supply voltage	24 V DC
Recommended hose	Ø 8x1
Supply pressure	max 7 bar
Cooling power and performances	See VRX-100 (page 21)
Probe length	1 m
Temperature range	-20°C +60°C
Humidity range	00% 100% RH
Accuracy	0.1°C , 0.1 % RH
Current capacity	max 10 A
Coil voltage and power	24 V - 3.1 W
Electric wires' section	0.75 mm
Weight	760 g



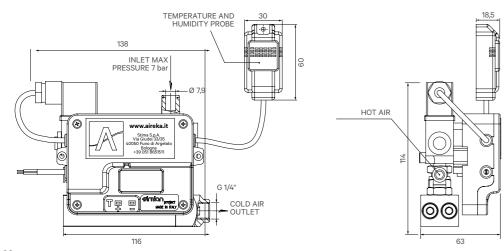


STAND-ALONE SERIES VR-200U-XTRONIC



	_			IDEA 1	ID AAAI	IVTRALIA
м,	_	V 1 - 1 V V -	_			J XTRONIC

Supply voltage	24 V DC
Recommended hose	Ø 8x1
Supply pressure	max 7 bar
Cooling power and performances	See VR-200U (page 16)
Probe length	1 m
Temperature range	-20°C +60°C
Humidity range	00% 100% RH
Accuracy	0.1°C , 0.1 % RH
Current capacity	max 10 A
Coil voltage and power	24 V - 3.1 W
Electric wires' section	0.75 mm
Weight	770 g



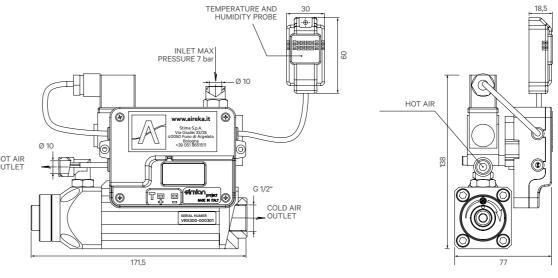
STAND-ALONE SERIES VRX-300 XTRONIC

ELECTRONICALLY-CONTROLLED PNEUMATIC COOLERS



GENERAL FEATURES - VRX-300 XTRONIC

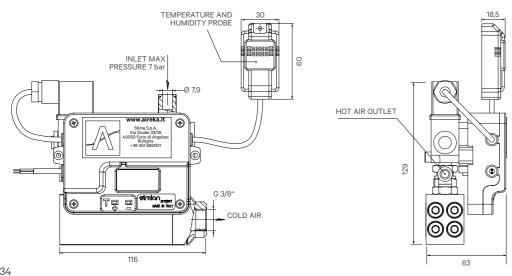
Supply voltage	24 V DC
Recommended hose	Ø 10x1
Supply pressure	max 7 bar
Cooling power and performances	See VRX-300 (page 22)
Probe length	1 m
Temperature range	-20°C +60°C
Humidity range	00% 100% RH
Accuracy	0.1°C , 0.1 % RH
Current capacity	max 10 A
Coil voltage and power	24 V - 3.1W
Electric wires' section	0.75 mm
Weight	1310 a





GENERAL FEATURES - VR-400U XTRONIC

Power supply	24 V DC
Recommended hose	Ø 8x1
Supply pressure	max 7 bar
Cooling power and performances	See VR-400U (page 16)
Probe length	1 m
Temperature range	-20°C +60°C
Humidity range	00% 100% RH
Accuracy	0.1°C , 0.1 % RH
Current capacity	max 10 A
Coil voltage and power	24 V - 3.1 W
Electric wires' section	0.75 mm
Weight	845 g





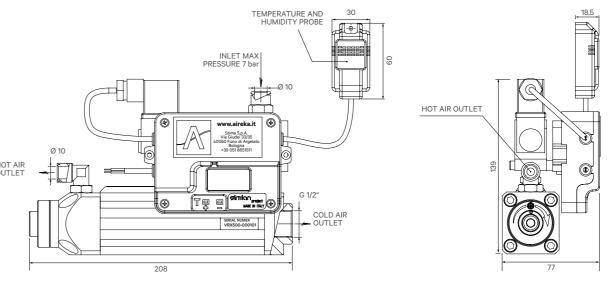
STAND-ALONE SERIES VRX-500 XTRONIC

ELECTRONICALLY-CONTROLLED PNEUMATIC COOLERS

GENERAL FEATURES - VRX-500 XTRONIC

Supply voltage	24 V DC
Recommended hose	Ø 10x1
Supply pressure	max 7 bar
Cooling power and performances	See VR-400U (pag. 23)
Probe length	1 mt
Temperature range	-20°C +60°C
Humidity range	00% 100% RH
Accuracy	0.1°C , 0.1 % RH
Current capacity	max 10 A
Coil voltage and power	24 V - 3.1 W
Electric wires' section	0.75 mm
Weight	1430 g

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SPECIAL APPLICATIONS





VRX500 MOTION

PILRROR X"

COOLER WITH ADJUSTMENT CONTROLLABLE BY PLC

GENERAL FEATURES - VRX-1000 XTRONIC

Power supply	24 V DC
Recommended hose	Ø 12x1
Supply pressure	Max 7 bar
Cooling power and performances	Vedi VRX-1000 (pag. 24)
Probe length	1 m
Temperature range	-20°C +60°C
Humidity range	00% 100% RH
Accuracy	0.1°C , 0.1 % RH
Current capacity	max 10 A
Coil voltage and power	24 V - 3.1 W
Electric wires' section	0.75 mm
Weight	1630 g



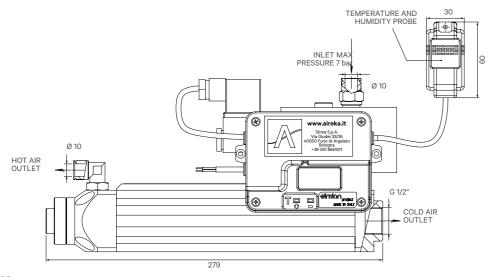
WITH DISTRIBUTOR OF COLD AIR

VRX300 + KDA



RING-COOLING SYSTEM





COOLER AIR SAVING

PATENTED SYSTEM



The best practice in cooling down enclosures involves also a correct distribution of the cold air, after it has been produced.

To make it possible, we supply air-blowing modules, connection fittings to meet your specific demands. in technopolymer, and tubes with double insulation.

All this to have zero losses of cold energy and to get the highest effectiveness in your application.

All these accessories are customisable,



Filter against impurities, for the fixation of the hot air extractor









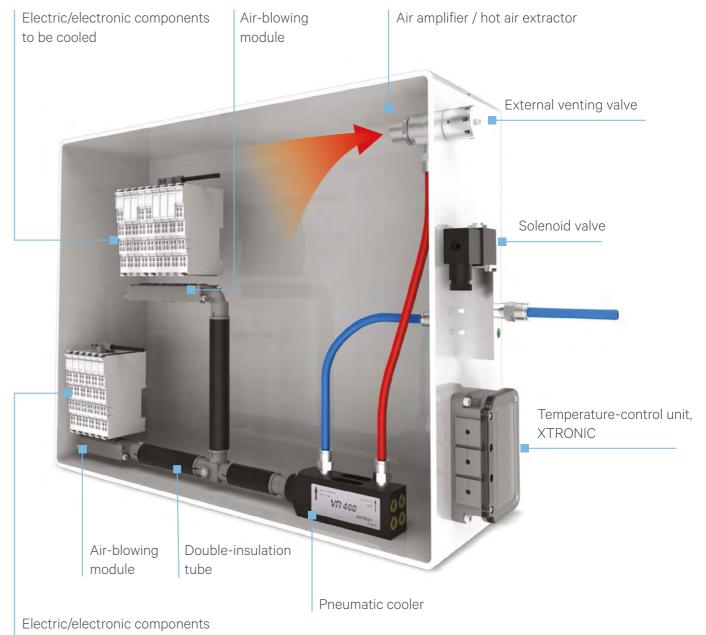
Fittings for cold air distribution



Customisable air-blowing module



Single air-blowing module



to be cooled

COOLER AIR SAVING

PATENTED SYSTEM



VR Series coolers and **AM Series** amplifiers used together to introduce cold air and extract hot air from electrical cabinets at the same time, using a single compressed air supply.

- Effective ventilation of the electrical cabinet
- Reduction of compressed air consumption
- Optimisation of cooling results

No matter how much cold air is introduced into an electrical cabinet, the effectiveness and efficiency of cooling will never be optimal unless the hot air generated by the electrical components is properly ventilated at the same time. With ventilation we mean both the creation of convection flows inside the cabinet which effectively distribute the air around the components, and the actual extraction of hot air from the cabinet itself.

By using the Cooler Air Saving patented system by Simian Project, two results are obtained: the first, using the VR Series coolers, is the prompt and precise cooling of the components that heat the cabinet the most. This thanks to the flexibility of installation (brackets and magnets) and the fact that the flow of cold air can be precisely directed on the main heat sources (by using adjustable nozzles). The second result is the proper ventilation of the electrical cabinet, thanks to the extraction power generated by the AM Series air amplifier, which is actuated by the hot air exhausted from the cooler.

The picture shows the system set up inside an electrical cabinet:

The VRX-500 cooler (fig.1) is actuated with compressed air from outside; the flow of cold air is directed, by using adjustable nozzles, on the electrical components that give off the most heat, while the exhaust of hot air is channelled by the red hose (fig. 3) to actuate the AM Series amplifier

The amplifier (fig.2) is mounted on the top right-hand side of the electrical cabinet; the pass-through installation allows it to suction and extract air from the cabinet; in the example of the picture, its position in the upper part of the cabinet ensures that the extraction occurs where most of the hot air accumulates and that even the electrical components located on the opposite side of the source of cold air remain at a temperature suitable for optimal functioning.

Even where pass-through mounting is not possible (for example in the event of installations in cabinets where IP protection must be guaranteed), the fitting of the amplifier inside the cabinet ensures forced recycling of air, which eliminates the concentration of hot air in the areas located furthest away from sources of cold air.

The patented system also works well together with industrial air-conditioners in electrical cabinets with the following characteristics:

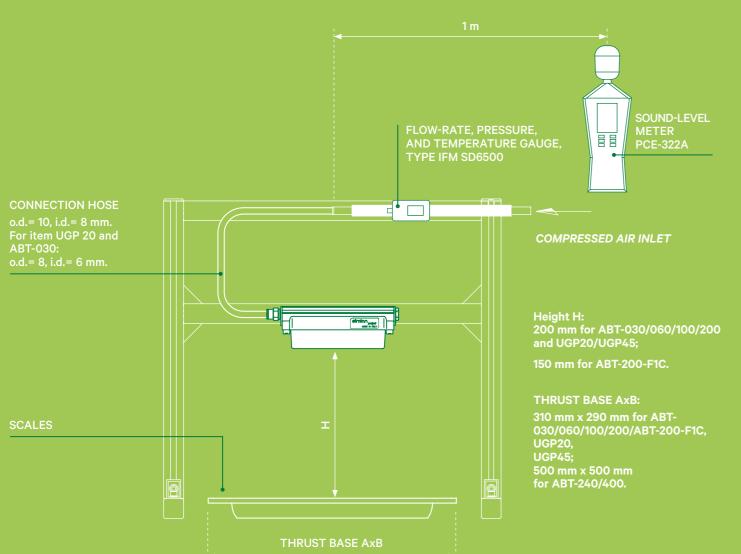
- Large electrical cabinets where the cold air generated by the air-conditioner has trouble in reaching all parts of the cabinet;
- Electrical cabinets with electrical components laid out in such a way that the convection of air around the components is tricky;
- Electrical cabinets where the heat is generated by a few components that are located far from the area where the air-conditioner introduces the cold air.

N.B.: The Cooler Air Saving system works with VRX-300, VRX-500, and VRX-1000 coolers together with AM-20ES and AM-40ES amplifiers.



SERIES ABT / ABX / ABZ







kind, thanks to their high blowing power, which is a result of the air flow on both sides of the blade, and thanks to their easy installation, by means of two neodymium magnets and of brackets, which make it possible to direct the knife according to all demands. These products are very effective for cleaning, drying, and cooling.

- Design geometries optimised to maximise the Coanda effect
- Double blow-off flow (both sides of the blade)
- Powerful, uniform flow, suitable for cleaning small and large surfaces
- Modular design and possibility of customisation
- No moving parts, so maintenance-free



SERIES ABT-030

DOUBLE-SLOT AIR KNIVES

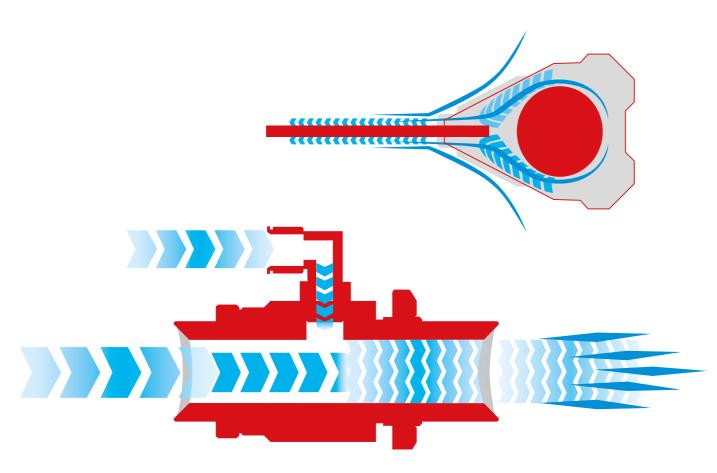


DESCRIPTION OF THE COANDA EFFECT

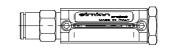
The air amplifiers and the air knives exploit the Coanda effect.

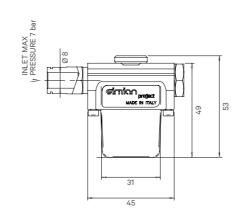
This phenomenon can be explained as the tendency of a fluid to follow the contour of a surface nearby. It is named after the pioner of aerodynamics Henri Coanda, who in 1936 patented some instruments that exploited the capacity to deviate a flow.

The compressed air introduced in an amplifier or in an air knife is forced to pass through a reduced section, from 0.02 mm to 0.08 mm, and, by lapping the surface nearby, the surrounding air is attracted towards the flow's direction, so that the volume of air becomes from 5 to 20 times bigger than it was at the inlet.







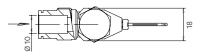


GENERAL FEATURES - ABT-030				
Materials	Anodized aluminium and AISI304 s.s.			
Air supply port	Fitting Ø-8			
Fixation	Optional angular bracket			
Blade length	32 mm			
Air supply pressure	1-7 bar			
Optional magnetic support	KACM-ABT030			
Weight	110 g			

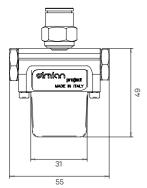
PERFORMANCES AND CONSUMPTION TABLE

Pressure bar	Consumption NI/min	Thrust a 200 mm in g	Noise level dBA
1	150	97	70
2	255	213	76
3	346	330	79
4	433	450	82
5	516	590	84
6	599	720	85
7	666	850	86







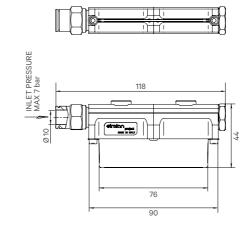


GENERAL FEATURES - ABT-030 PLUS	
Materials	Anodized aluminium and AISI304 s.s.
Air supply port	Fitting Ø-10
Fixation	Optional angular bracket
Blade length	32 mm
Air supply pressure	1-7 bar
Optional magnetic support	KACM-ABT030
Weight	130 g



Pressure bar	Consumption NI/min	Thrust a 200 mm in g	Noise level dBA
1	166	120	70
2	266	230	76
3	366	360	78
4	458	500	81
5	549	640	82,5
6	633	780	84
7	716	940	86





GENERAL FEATURES - ABT-060	
Materials	Anodized aluminium and AISI304 s.s
Air supply port	Fitting Ø-10
Fixation	Optional angular bracket
Blade length	76 mm
Air supply pressure	1-7 bar
Optional magnetic support	KACM-ABT030

170 g

PERFORMANCES AND CONSUMPTION TABLE

Weight

Pressure bar	Consumption NI/min	Thrust a 200 mm in g	Noise level dBA
1	283	170	72
2	449	340	77
3	629	570	80
4	816	810	83
5	982	1090	85
6	1166	1400	86
7	1350	1700	87

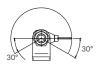
SERIES ABT-100

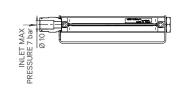
DOUBLE-SLOT AIR KNIVES

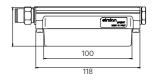
SERIES ABT-200

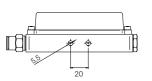
DOUBLE-SLOT AIR KNIVES









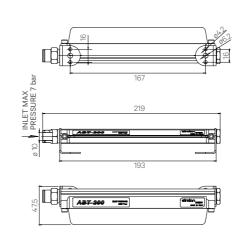


GENERAL FEATURES - ABT-100	
Materials	Anodized aluminium and AISI304 s.s.
Air supply port	Fitting Ø-10
Fixation	Integrated feet
Blade length	100 mm
Air supply pressure	1-7 bar
Optional magnetic support	KACM-ABT100
Weight	200 g

PERFORMANCES AND CONSUMPTION TABLE

Pressure bar	Consumption NI/min	Thrust a 200 mm in g	Noise level dBA
1	366	216	75
2	558	450	79
3	724	690	82
4	899	930	84
5	1082	1210	85
6	1233	1530	87
7	1410	1800	88





GENERAL FEATURES - ABT-200

Materials	Anodides aluminium and AISI304 s.s.
Air supply port	Fitting Ø-10
Fixation	Integrated feet
Blade length	170 mm
Air supply pressure	1-7 bar
Optional magnetic support	KACM-ABT200
Weight	290 g

PERFORMANCES AND CONSUMPTION TABLE

Pressure bar	Consumption NI/min	Thrust a 200 mm in g	Noise level dBA
1	499	245	75
2	940	570	80
3	1582	1030	84
4	2082	1450	87
5	2665	2000	90
6	3248	2400	93

SERIES ABT-240

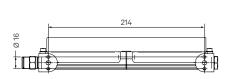
SERIES ABT-400

DOUBLE-SLOT AIR KNIVES

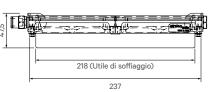










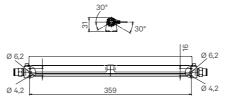


GENERAL FEATURES - ABT-240	
Materials	Anodized aluminium and AISI304 s.s.
Air supply port	Fitting Ø 10
Fixation	Integrated feet
Flow width	218 mm
Supply pressure	1-7 bar
Optional magnetic support	KACM-ABT100
Weight	300 g

PERFORMANCES AND CONSUMPTION TABLE

Pressure bar	Consumption NI/min	Thrust a 200 mm in g	Noise level dBA
1	283	190	72
2	449	350	77
3	629	515	80
4	816	730	83
5	982	990	85
6	1166	1260	86







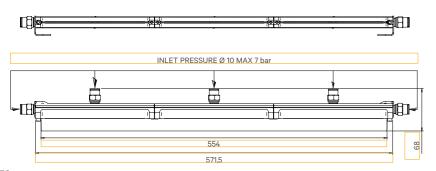
PERFORMANCES AND CONSUMPTION TABLE

Pressure bar	Consumption NI/min
1	1530
2	1956
3	2720
4	3146
5	3910
6	4760
7	5326



PERFORMANCES AND CONSUMPTION TABLE

Pressure bar	Consumption NI/min
1	2295
2	2934
3	4080
4	4719
5	5865
6	7140
7	7989



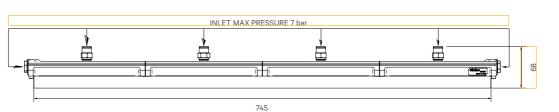
8 6

PERFORMANCES AND CONSUMPTION TABLE

Pressure bar	Consumption NI/min
1	2295
2	2934
3	4080
4	4719
5	5865
6	7140
7	7989

53





ACCESSORIES AND SPECIAL VERSIONS

AIR KNIVES

SERIES ABT-F1C

CALIBRATED SINGLE-SLOT AIR KNIVES







ABT 030 PLUS WITH TUBE FOR CONNECTION TO MACHINE TOOL



ABT 200	
WITH CONCAVE AND CONVEX LIP	

(6	
	7	
	1	

MAGNETIC SUPPORT	
PART-NUMBER	AIR KNIFE
KACM-ABT030	ABT-030 / ABT-060
KACM-ABT100	ABT-100
KACM-ABT200	ABT-200 / ABT-240 / ABT-400 / ABT-600 / ABT-800



FIXATION BRACKET	
PART-NUMBER	AIR KNIFE
ABT-05	ABT-030 / ABT-060

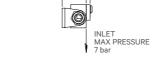
CUSTOMISED VERSIONS

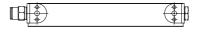
On request we can supply versions customised in shape and/or material.

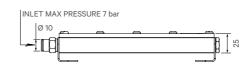


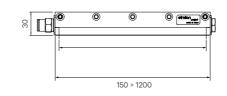
GENERAL FEATURES - ABT-F1C

Materials	Aluminium and Delrin
Air supply port	Fitting Ø 10
Fixation	Integrated feet
Flow width	From 150 mm to 1200 mm
Supply pressure	max 7 bar
Noise level for every 200 mm length	Range from 62 to 82 dBA
Optional magnetic kit	KACM-ABT200









PERFORMANCE AND CONSUMPTION TABLE (For length 100 mm)

Pressure bar	Consumption NI/min	Thrust force at 150 mm, in g
1	109	61
2	195	135
3	279	220
4	341	310
5	416	400
6	483	520
7	566	635

SERIES ABX-1000

LONG AIR KNIVES SUPPLIED BY AIR AMPLIFIER

SERIES ABX-1500

LONG AIR KNIVES SUPPLIED BY AIR AMPLIFIER





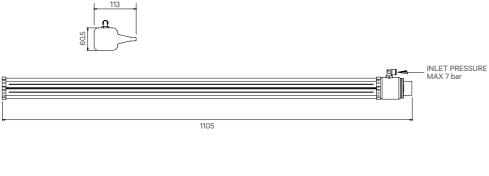
GENERAL FEATURES - ABX-1000	
Materials	Anodised aluminium / Stainless steel
Fixation	On request
Flow width	1000 mm
Supply pressure	Based on the type of air supply

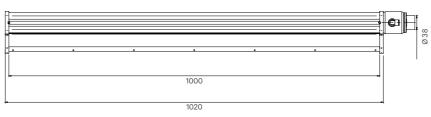
On request: supply connection at 90°.

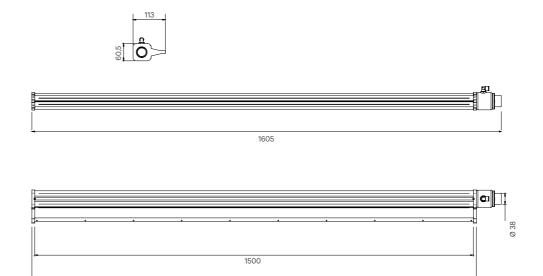


ENERAL FEATURES - ABX-1500	
laterials	Anodised aluminium / Stainless steel
ixation	On request
low width	1500 mm
upply pressure	Based on the type of air supply

On request: supply connection at 90°.







1520



LONG AIR KNIVES SUPPLIED BY AIR AMPLIFIER

SERIES ABZ-1000

LONG AIR KNIVES TO BE SUPPLIED BY ELECTRIC BLOWER



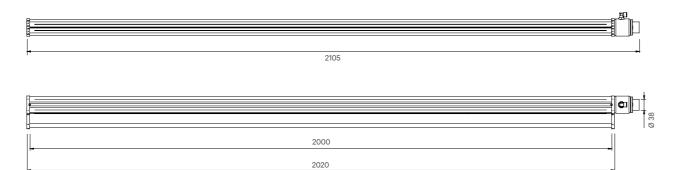


GENERAL FEATURES - ABX-2000	
Materials	Anodised aluminium / Stainless steel
Fixation	On request
Flow width	2000 mm
Supply pressure	Based on the type of air supply

On request: supply connection at 90°.

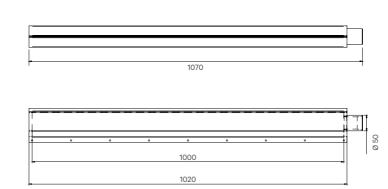








On request: supply connection at 90°.



SERIES ABZ-1500

LONG AIR KNIVES TO BE SUPPLIED BY ELECTRIC BLOWER

SERIES ABZ-2000

LONG AIR KNIVES TO BE SUPPLIED BY ELECTRIC BLOWER



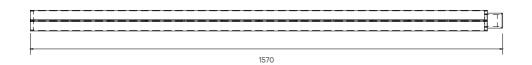
GENERAL FEATURES - ABZ-1500	
Materials	Zinc-plated metal sheet
Fixation	On request
Flow width	1500 mm
Supply pressure	Based on the type of air supply

On request: heated air flow.

GENERAL FEATURES - ABZ-2000	
Materials	Zinc-plated metal sheet
Fixation	On request
Flow width	2000 mm
Supply pressure	Based on the type of air supply

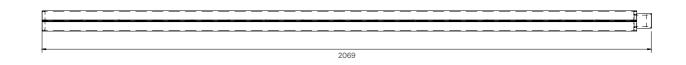
On request: heated air flow.

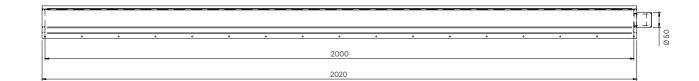




											
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					1500						
					1520						





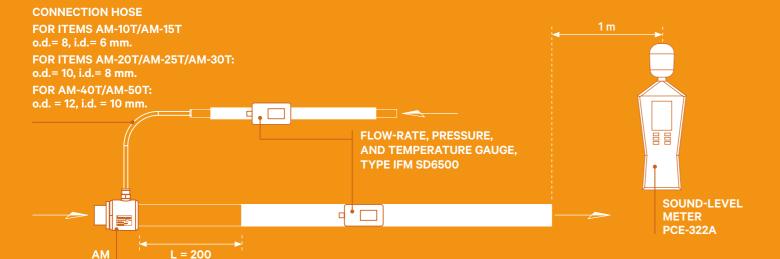


AIR AMPLIFIERS

SERIES AM-T



Description of the set-up and instrumentation used for our tests on air amplifiers.



VACUUM GAUGE

FLOW-RATE, PRESSURE,
AND TEMPERATURE GAUGE,
TYPE IFM SD6500

CONNECTION HOSE
FOR ITEMS AM-10T/AM-15T
O.D.= 8, I.D.= 6 MM.
FOR ITEMS AM-20T/AM-25T/AM-30T:
O.D.= 10, I.D.= 8 MM.
FOR AM-40T/AM-50T:
O.D. = 12, I.D. = 10 MM.



The AM-T Series air amplifiers offer excellent performance for both suction and blow-off. The quality of design and construction optimises the Coanda effect, so they use a small amount of compressed air to generate a powerful, high-speed flow. Their capability to perform both functions of suction and blow-off make them useful for many applications, including ventilating electric cabinets, conveying fumes and lightweight particles produced by machining, conveying and handling of light parts, drying, and cooling. When combined with the VR Series coolers, they create an effective patented system where, by conveying the hot air flow exhausted by the cooler to actuate an AM Series amplifier, the cooling power is optimised, so that to make it possible to drawn hot air out of enclosures and ventilate closed areas to be cooled. The flow-rate can be adjusted by simply turning the nut.

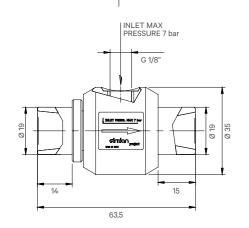
- Design geometries optimised to maximise the Coanda effect
- Adjustable flow-rate
- Wide section for suction and blow-off, suitable for a variety of applications
- Instant operation
- No moving part, so not subject to wear and tear
- No electricity or chemical substances required
- More efficient than venturis and ejectors
- It does not cause neither sparks nor interferences
- Reliable and maintenance-free



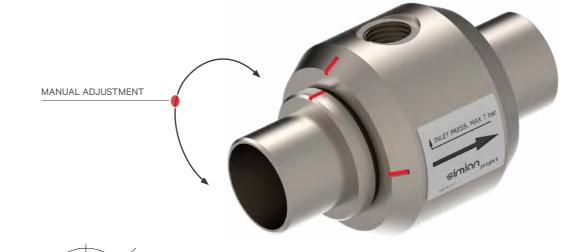
SERIES AM-15T

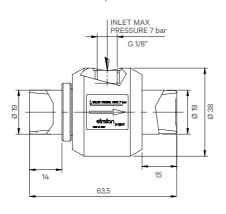
AIR AMPLIFIERS





GENERAL FEATURES - AM-10T				
Materials	Aluminium			
Air inlet port	G-1/8" F			
Inlet diameter	Ø 19			
Outlet diameter	Ø 19			
Air supply pressure	max 7 bar			
Recommended hose	Ø 6x1 - Ø 8x1			
Weight	95 g			





GENERAL FEATURES - AM-15T				
Materials	Aluminium			
Air inlet port	G-1/8" F			
Inlet diameter	Ø 19			
Outlet diameter	Ø 19			
Air supply pressure	max 7 bar			
Recommended hose	Ø 8x1 - Ø 10x1			
Weight	100 g			

PERFORMANCES AND CONSUMPTION TABLE

	OPENING 90°						
SUPPLY PRESSURE bar	CONSUMPTION NI/min	FLOW-RATE NI/min	AMPLIFICATION RATIO	VACUUM mbar	NOISE LEVEL dBA		
2	76	349,9	4,6	65	63		
3	101	449,8	4,4	100	65		
4	126	506,4	4,0	130	66		
5	153	558,1	3,6	155	68		
6	178	621,4	3,5	185	70		
	OPENING 180°						
2	158	533,12	3,4	100	76		
3	216	643	3,0	155	80		
4	283	741,4	2,6	190	85		
5	341	816,34	2,4	220	90		
6	391	849,6	2,2	240	92		

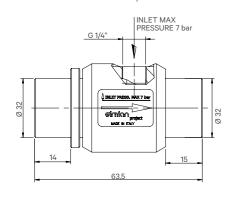
PERFORMANCES AND CONSUMPTION TABLE

	OPENING 90°						
SUPPLY PRESSURE bar	CONSUMPTION NI/min	FLOW-RATE NI/min	AMPLIFICATION RATIO	VACUUM mbar	NOISE LEVEL dBA		
2	100	899,6	9,0	30	70		
3	133	1132,9	8,5	45	74		
4	168	1332,8	7,9	60	76		
5	204	1516	7,4	75	78		
6	244	1649,3	6,8	90	79		
		OPENING 1	80°				
2	225	1366	6,1	60	80		
3	299	1666	5,6	95	84		
4	373	1949,2	5,2	130	88		
5	443	2165,8	4,9	160	89		
6	509	2265,8	4,4	180	90		

SERIES AM-25T

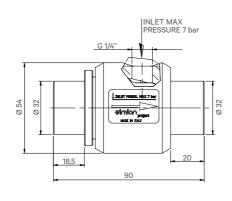
AIR AMPLIFIERS





GENERAL FEATURES - AM-20T	
Materials	Aluminium
Air inlet port	G-1/4" F
Inlet diameter	Ø 32
Outlet diameter	Ø 32
Air supply pressure	max 7 bar
Recommended hose	Ø 8x1 - Ø 10x1
Weight	240 g





GENERAL FEATURES - AM-25T				
Materials	Aluminium			
Air inlet port	G-1/4			
Inlet diameter	Ø 32			
Outlet diameter	Ø 32			
Air supply pressure	max 7 bar			
Recommended hose	Ø 10x1 - Ø 12x1			
Weight	280 g			

PERFORMANCES AND CONSUMPTION TABLE

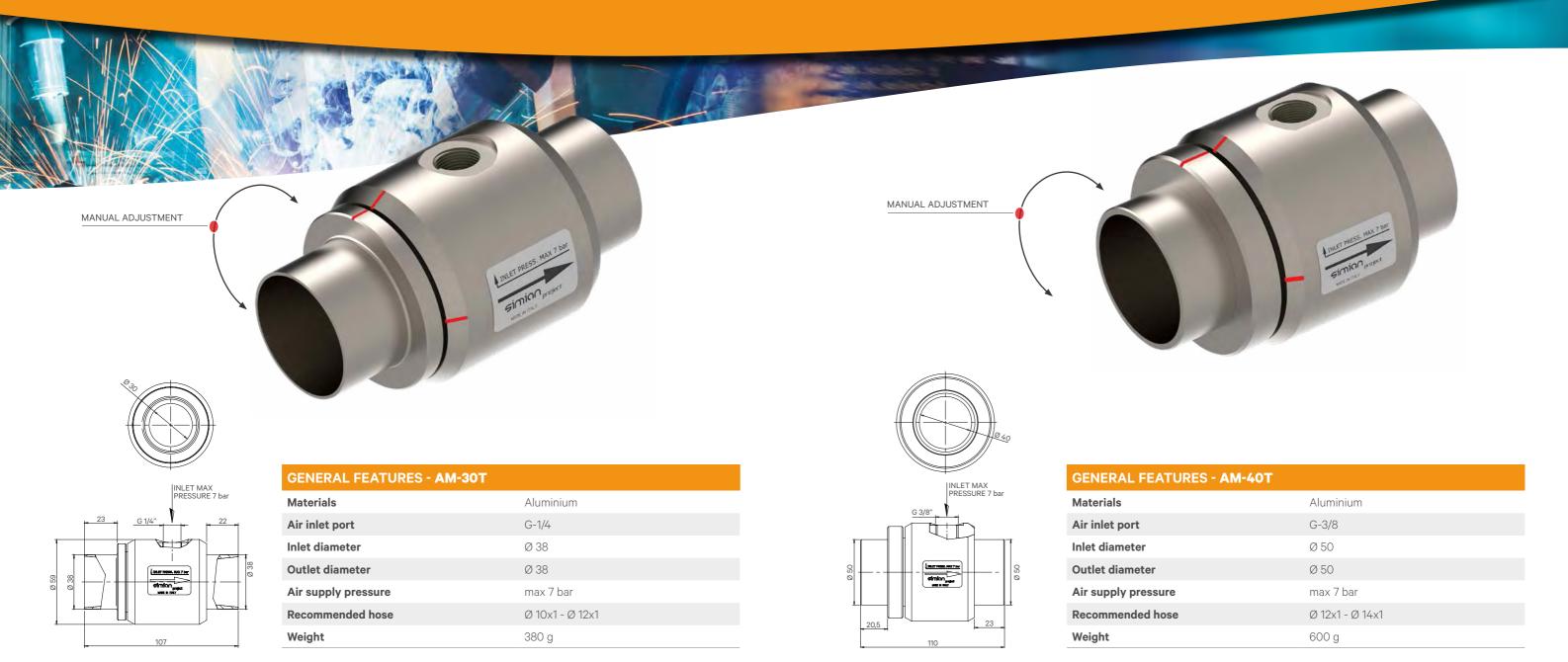
		OPENING S	90°				
SUPPLY PRESSURE bar	CONSUMPTION NI/min	FLOW-RATE NI/min	AMPLIFICATION RATIO	VACUUM mbar	NOISE LEVEL dBA		
2	186	1499,4	8,0	10	68		
3	266	1832,6	6,9	15	72		
4	333	2199,1	6,6	22	74		
5	391	2532,3	6,5	29	75		
6	458	2798,9	6,1	35	77		
	OPENING 180°						
2	391	2132,5	5,4	20	75		
3	519	2699	5,2	32	78		
4	646	3115,4	4,8	45	80		
5	771	3582	4,6	58	82		
6	899	3965	4,4	70	85		

PERFORMANCES AND CONSUMPTION TABLE

		OPENING	90°		
SUPPLY PRESSURE bar	CONSUMPTION NI/min	FLOW-RATE NI/min	AMPLIFICATION RATIO	VACUUM mbar	NOISE LEVEL dBA
2	283	1549,4	5,5	15	74
3	366	1992,2	5,4	24	75
4	466	2364,7	5,1	32	77
5	583	2665,6	4,6	41	78
6	699	2998,8	4,3	50	80
		OPENING	180°		
2	583	2582,3	4,4	35	78
3	850	3165,4	3,7	55	81
4	1100	3615,2	3,3	75	84
5	1350	4031,7	3,0	95	86
6	1649	4414,9	2,7	110	88

SERIES AM-40T

AIR AMPLIFIERS



PERFORMANCES AND CONSUMPTION TABLE

		OPENING S	90°		
SUPPLY PRESSURE bar	CONSUMPTION NI/min	FLOW-RATE NI/min	AMPLIFICATION RATIO	VACUUM mbar	NOISE LEVEL dBA
2	333	3415	10,2	15	80
3	483	4081,7	8,5	24	82
4	610	4581,5	7,5	32	84
5	730	4998	6,8	41	86
6	833	5497,8	6,6	50	88
		OPENING 1	80°		
2	766	4165	5,4	40	84
3	1116	4998	4,5	52	88
4	1416	5664,4	4,0	65	91
5	1790	6414	3,6	80	93
6	2200	6830,6	3,1	100	94

PERFORMANCES AND CONSUMPTION TABLE

OPENING 90°					
SUPPLY PRESSURE bar	CONSUMPTION NI/min	FLOW-RATE NI/min	AMPLIFICATION RATIO	VACUUM mbar	NOISE LEVEL dBA
2	483	3332	6,9	12	80
3	660	4248	6,4	20	83
4	850	4998	5,9	25	85
5	1025	5831	5,7	30	87
6	1210	6297	5,2	35	89
		OPENING '	180°		
2	1082	4998	4,6	28	87
3	1566	5831	3,7	38	91
4	2082	6580	3,2	50	93
5	2600	7663	2,9	63	95
6	3048	8663	2,8	75	97

AIR AMPLIFIERS

ACCESSORIES

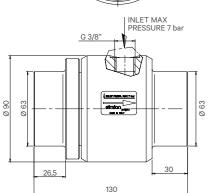
AIR AMPLIFIERS





STRAIGHT PUSH-IN FITTING FOR AIR SUPPLY					
Part Number	Hose Ø	Thread	Air amplifier		
S6510	6	1/8"	AM10-T		
S6510	8	1/8"	AM10-T / AM15-T		
S6510	10	1/8"	AM15-T		
S6510	8	1/4"	AM20-T		
S6510	10	1/4"	AM20-T / AM25-T / AM30-T		
S6510	12	1/4"	AM25-T / AM30-T		
S6510	12	3/8"	AM40-T / AM50-T		
S6510	14	3/8"	AM40-T / AM50-T		





GENERAL FEATURES - AM-50T	
Materials	Aluminium
Air inlet port	G-3/8
Inlet diameter	Ø 63
Outlet diameter	Ø 63
Air supply pressure	max 7 bar
Recommended hose	Ø 12x1 - Ø 14x1
Weight	950 a



ELBOW PUSH-IN FITTING FOR AIR SUPPLY			
Part Number	Hose Ø	Thread	Air amplifier
S6520	6	1/8"	AM10-T
S6520	8	1/8"	AM10-T / AM15-T
S6520	10	1/8"	AM15-T
S6520	8	1/4"	AM20-T
S6520	10	1/4"	AM20-T / AM25-T / AM30-T
S6520	12	1/4"	AM25-T / AM30-T
S6520	12	3/8"	AM40-T / AM50-T
S6520	14	3/8"	AM40-T / AM50-T



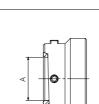


* FIXATION HOLES

FIXATION BRACKET	
Part Number	Air amplifier
ABT-05T	AM-10T / AM-15T
ABT-05	AM-20T / AM-25T
On request, with fixation holes*.	

PERFORMANCES AND CONSUMPTION TABLE

	OPENING 90°					
SUPPLY PRESSURE bar	CONSUMPTION NI/min	FLOW-RATE NI/min	AMPLIFICATION RATIO	VACUUM mbar	NOISE LEVEL dBA	
2	900	2700	3,0	0	-	
3	1100	3300	3,0	0	-	
4	1300	3800	2,9	0	-	
5	1470	4250	2,9	0	-	
6	1650	4700	2,8	25	-	
APERTURA 180°						
2	1450	3700	2,6	0	-	
3	1700	4500	2,6	19	-	
4	1950	5300	2,7	36	-	
5	2200	5900	2,7	55	-	
6	2450	6500	2,7	75	-	

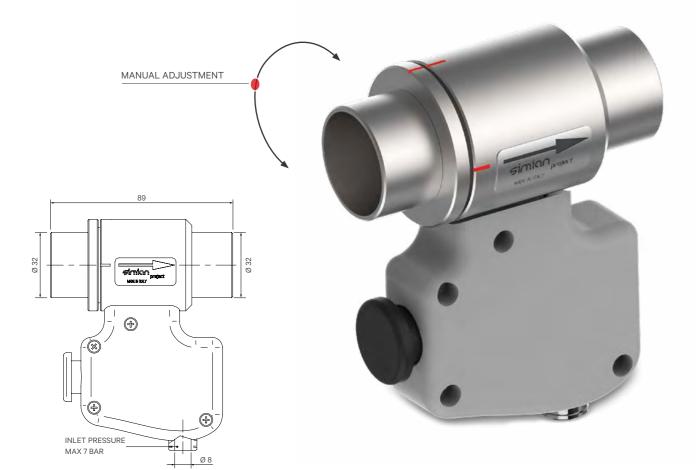


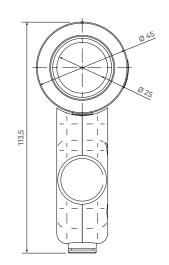


FILTERS FOR I	FILTERS FOR FIXATION TO CABINETS		
Part Number	Air amplifier	ΑØ	
AC32	AM-10T / AM-15T	19	
AC31	AM-20T / AM-25T	32	
AC26	AM-30T	38	
AC43	AM-40T	50	
AC44	AM-50T	63	

SPECIAL APPLICATIONS AIR-SPEED 25 · SUCTION GUN

SPECIAL APPLICATIONS AIRCLEAN 30





GENERAL FEATURES - AIR-SPEED 25		
Materials	Aluminium	
Supply connection	Ø 8 x 1	
Inlet diameter	Ø 32	
Outlet diameter	Ø 32	
Air supply pressure	max 7 bar	

On request, available in version for blowing.

FUNCTIONING PRINCIPLE

By opening the rear ball valve, the compressed air activates the **AM-30T** amplifier (recommended pressure: 3 - 5 bar), whose amplified and powerful flow gets out from the tapered outlet. The handle has length 1 m.

BENEFITS

- Manageability and robustness, as it is made of aluminium.
- Reduction of consumption, thanks to the air amplifier.
- High power of the air flow.





- Cleaning of large conveyor belts (waste sector, mining sector, etc.);
- Cleaning of hoppers in the construction industry, etc.;
- Cleaning of large components in the aeronautic, rail, and marine sectors;
- Cleaning of silos, metallic carpentry, etc.

SERIES UGP 20A - UGP 20B

FLAT-FLOW NOZZLES



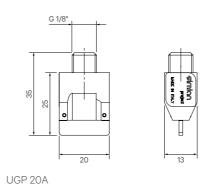


Delrin and AISI304 stainless steel

DEVICES DESIGNED TO RESPOND TO VARIOUS REQUIREMENTS IN THE AUTOMATION FIELD, **AS LISTED BELOW:**

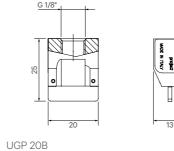
- Nozzles series UGP In-line blowing
- Nozzles series UGL Cleaning of rectangular photocells
- Nozzles series UGD Cleaning of optical sensors and photocells
- **Nozzles series UGF** Cleaning of optical fibers
- Nozzles series UGF Cleaning of optical fibers

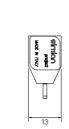
Possibility of customisation, both in terms of materials and dimensions



UGP 20A







Material

Inlet port G 1/8" M (UGP 20A) G 1/8" F (UGP 20B) Flow width 20 mm

UGP 20B

Supply pressure 1 ÷ 7 bar 18 g (UGP 20A) Weight 12 g (UGP 20B)

PERFORMANCES AND CONSUMPTION TABLE

GENERAL FEATURES - UGP 20A - UGP 20B

PRESSURE	AIR CONSUMPTION	THRUST*	NOISE LEVEL
bar	NI/min	Grams	dBA
1	95	50	62
2	154	130	67
3	220	200	71
4	286	290	75
5	345	370	78
6	404	460	80
7	460	550	83

^{*}Thrust force (in grams) measured at a distance of 200 mm.

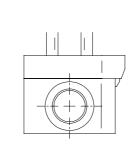


SERIES UGL

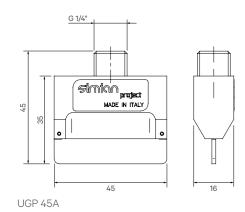
NOZZLE FOR RECTANGULAR PHOTOCELLS





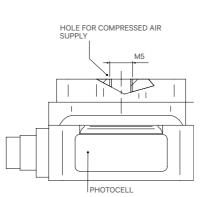






UGP 45A

GENERAL FEATURES - UGP 45A - UGP 45B		
Material	Delrin and AISI304 s.s.	
Inlet port	G 1/4" M (UGP 45A)	
	G 1/4" F (UGP 45B)	
Flow width	45 mm	
Supply pressure	1 ÷ 7 bar	
Weight	32 g (UGP 45A)	
	25 g (UGP 45B)	



GENERAL FEATURES - UGL	
Material	On request
Inlet port	Not included
Dimensions	On request
	<u>'</u>

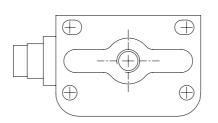
PERFORMANCES AND CONSUMPTION TABLE

	G 1/4"	PRE I
Similar project MADE IN ITALY		
45 UGP 45B		*

PRESSURE	AIR CONSUMPTION	THRUST*	NOISE LEVEL
bar	NI/min	Grams	dBA
1	130	80	65
2	231	180	70
3	340	290	73
4	436	410	77
5	540	550	80
6	650	700	82
7	780	850	83

^{*}Thrust force (in grams) measured at a distance of 200 mm.

PERFORMANCES AND CONSUMPTION TABLE



PRESSURE	CONSUMPTION
bar	NL/MIN
0,2	13

SERIES UGD 08 / UGD 12 / UGD 18 / UGD 30

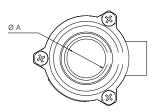
NOZZLE FOR CLEANING



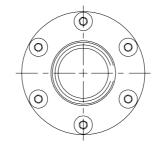




UGD-27 FOR VIDEO-CAMERAS

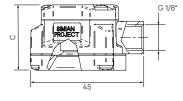


Material Moulded Nylon	DIMENSIONS - L	IGD 18-I		
Type A B C	Naterial		Moulded Nylon	
Type A B	уре	Α	В	С
UGD-18I M18x1 42 26	IGD-18I	M18x1	42	26



DIMENSIONS - UGD 08 / UGD 12 / UGD 18 / UGD 30			
Material	Aluminium		
Туре	Α	В	С
UGD-08	M8x1	27	9
UGD-12	M12x1	32	11,5
UGD-18	M18x1	38	11,5
UGD-30	M30x1,5	50	13,5

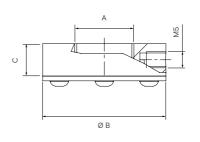
Other dimensions on request.





PERFORMANCES AND CONSUMPTION TABLE

PRESSURE bar	CONSUMPTION NI/min
0,2	21
0,3	28
0,4	40
0,5	48



PERFORMANCES AND CONSUMPTION TABLE (ONLY VERSION UGD-18)

PRESSURE bar	CONSUMPTION NI/min
0,2	21
0,3	28
0,4	40
0,5	48

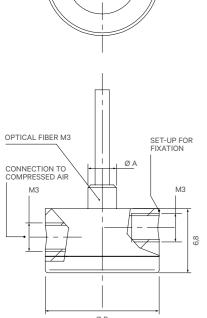
SERIES UGF 03 / UGF 04 / UGF 05 / UGF 06

NOZZLE FOR OPTICAL FIBER CLEANING

SERIES UGB 100 / UGB 300

AIR-KNIFE FOR LIGHT CURTAINS





GENERAL FEATURES - UGF 03 / UGF 04 / UGF 05 / UGF 06			
Material	Anodized alum	Anodized aluminium	
Inlet fitting	Not included	Not included	
Dimensions	Ø A	ØB	
UGF 03	M3	12 mm	
UGF 04	M4	15 mm	
UGF 05	M5	15 mm	
UGF 06	M6	16 mm	

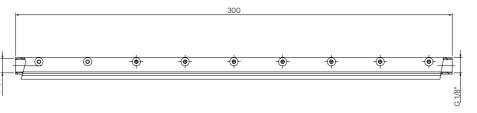


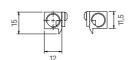
Curtain width

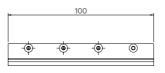
PERFORMANCES AND CONSUMPTION TABLE

Pressione	Consumptio	n L = 300 mm	Consumption x 100 mm
Bar	m³/h	NI/min	NI/min
0,3	4	82	27
0,5	6	114	38
0,7	8	138	46
1	10	175	58
1,5	14	238	79
2	18	305	102
2,5	21	358	119
3	24	408	136
4	30	508	169

100 mm / 300 mm







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CONDENSATE SEPARATORS

SERIES HSC



Series HSC

Effective, maintenance-free, and suitable for any flow-rate and application

The main strengths of the condensate separators **Series HSC** are effectiveness, reliability, and versatility.

The effectiveness in the removal of condensate is obtained through the particular design of the **DRYVOLUTION** system: thanks to a series of concentric flanges, assembled with a precise angle of incidence with respect to the direction of inlet flow, they generate a compressed air expansion (which takes place inside a chamber downstream of the flanges) that brings about a considerable decrease in the temperature and consequently the condensation of humidity.

The reliability derives from the fact that no electric power and no chemical

substance is used, and moreover there is no moving part (with the exception of the sole automatic drain): the performance is steady and maintenance is practically zero.

The versatility is guaranteed by the performances and the technical features: the range covers a wide spectrum of flow-rates and the materials used, together with the assembly, make it a very sturdy product. Therefore it perfectly suits many different applications at the end of the compressed air line and close to the point of use: on board of automatic machinery, before pneumatic tools, on board of trucks and agricultural machines, etc..

- Water separation through the decrease in the temperature of compressed air
- No moving part, except for the automatic drain
- Easy to install
- Made in technopolymer and brass OT58
- One size, with 3 possible flow-rate settings
- Maintenance-free
- Neither electricity nor chemical substances required
- Neither sparks nor interferences caused
- Instant operation



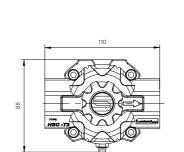
SERIES - HSC - T2 - HIGH SEPARATOR CONDENSE

ACCESSORIES

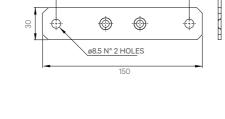
THERMODYNAMIC DRYER THERMODYNAMIC DRYER



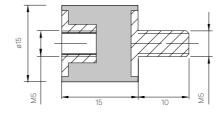
GENERAL FEATURES - HSC - T2	
Type of functioning	Thermodynamic
Materials	Technopolymer
Ports	1/2" G (with bushings in brass)
Weight	500 g
Installation	Vertical
Operating temperature	-10°C + 50°C
Condensate drain	Automatic, by float
Medium	Compressed air
Operating pressure	Max. 12 Bar
Max. flow-rate (3 possible settings)	1266* NI/min at max. opening
Factory setting	Intermediate opening (1100 NI/min)



*HSC-02-38-SCC **HSC-02-12-SCC



WALL BRACKET	
PART-NUMBER	DIMENSIONS
HSC-13	150 x 30 x 2,50



ANTI-VIBRATION SUPPORT	
PART-NUMBER	DIMENSIONS
HSC-17	15 x 15 M5

SOME EXAMPLES OF APPLICATIONS



SOME EXAMPLES OF APPLICATIONS







