"Simplicity is the most difficult thing to secure in this world: it is the last limit of experience and the last effort of genius"

George Sand







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.l. 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



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SPECIAL NOZZLES

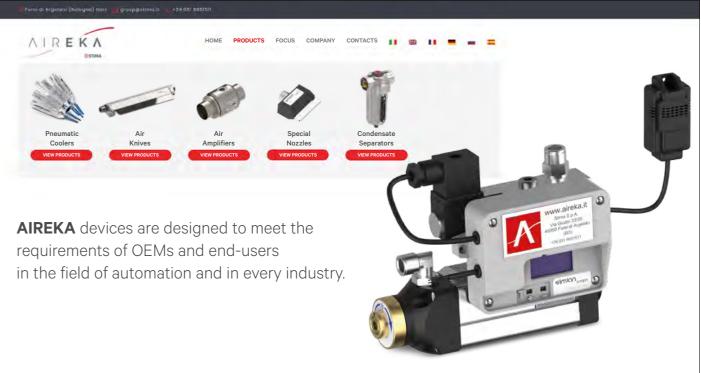
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They stand out in the market because of:

- 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



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

- blow-off and suction shavings.
- MACHINE TOOLS 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



PACKAGING / AUTOMATIC MACHINERY

To convey granules, tobacco, coffee powder, etc., to either

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

DEVICES FOR BLOW-OFF AND CLEANING

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



PNEUMATIC COOLERS

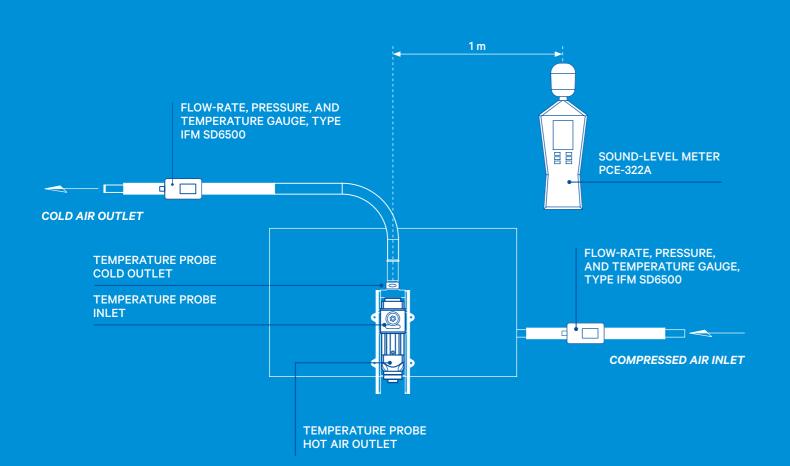
SERIES VR / VRX / VR U-G

MULTI COOLER

_operation == "MIRROR Z": mirror mod.use x = False mirror_mod.use_y = False mirror mod.use z = True

mirror_ob.select= 1 modifier_ob.select=1 xt.scene.objects.acti bpy

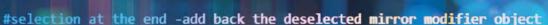
Description of the set-up and instrumentation used for our tests on pneumatic coolers.



the temperature of air at inlet

- Made of corrosion-resistant materials
- No electricity or chemical substances required
- Instant operation
- Reliable and maintenance-free

A I R E K A





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.

- \blacksquare Δ T up to -40°C for the cold flow and +60°C for the hot flow, in comparison to
- Easy to install, thanks to flanges and magnetic supports
- Patented system of hot air's recovery to actuate an amplifier/conveyor
- No moving part, so not subject to wear and tear
- They do not cause either sparkles or interferences

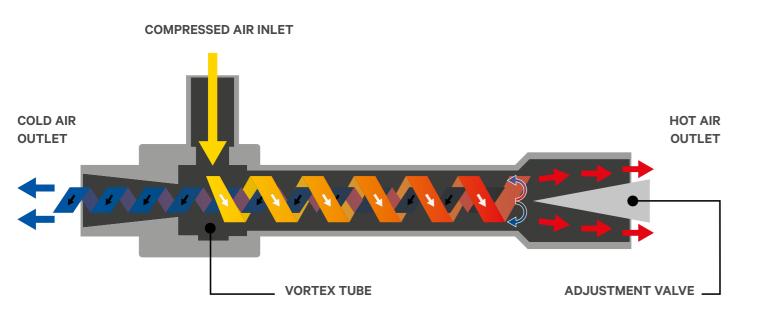


PNEUMATIC COOLERS

VORTEX TUBES

ILLRROR Y

or mod.use x



Ranque-Hilsch tube (Vortex tube)

DESCRIPTION OF VORTEX TUBES

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 ΔT 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.

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.

The Rangue-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,

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.

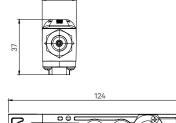
They have great cooling performances, are very easy to install and have instant operation, have no moving part and therefore are maintenance-free. Plus, they do not require electric power, so they are suitable for dangerous environments and

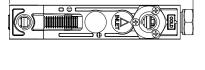


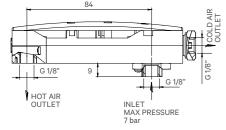
SERIES VR-100 MODULAR PNEUMATIC COOLERS

SERIES VR-200 MODULAR PNEUMATIC COOLERS







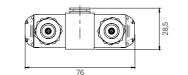


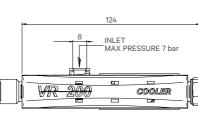
GENERAL FEATURES - VR-100	
Materials	Body and cover: Nylon 6.6
	Air connections and nozzles: brass
Air inlet port	G-1/8" F
Outlet port (cold flow)	G-1/8" F
Exhaust port (hot flow)	G-1/8" F
Recommended hose	Ø-8x1
Air supply pressure	3 ÷ 7 bar
Cooling power*	120 W - 100 Kcal/h - 400 BTUH
Optional magnetic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

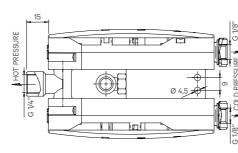
*with inlet pressure 7 Bar and inlet temperature 20°C

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 FEATU

Materials

Air inlet port Outlet port (cold flow) Exhaust port (hot flow Recommended hose

Air supply pressure

Cooling power*

Optional magnetic sup

*with inlet pressure 7 Bar and inlet temperature 20°C

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

Pressure bar	
1	
2	
3	
4	
5	
6	
7	



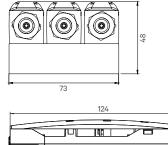
RES - VR-200	
	Body and cover: Nylon 6.6
	Air connections and nozzles: brass
	Push-in fitting Ø-8x6
<i>i</i>)	2 x G-1/8" F
w)	2 x G-1/8" F
	Ø-8x1
	3 ÷ 7 bar
	240 W - 200 Kcal/h - 800 BTUH
pport	KACM-VR200

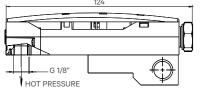
Outlet temperature cold flow °C	Consumption NL/min
-1,5	64
-8	106
-15	148
-21,5	196
-24,5	230
-26,5	270
-28	308

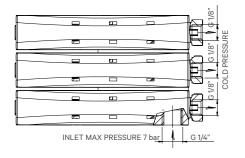
SERIES VR-300T • 3 OUTLETS MODULAR PNEUMATIC COOLERS

SERIES VR-300U . SINGLE OUTLET MODULAR PNEUMATIC COOLERS









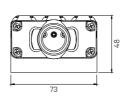
GENERAL FEATURES - VR-300T	
Materials	Body and cover: Nylon 6.6
	Air connections and nozzles: brass
Air inlet port	G-1/4" F
Outlet port (cold flow)	3 x G-1/8" F
Exhaust port (hot flow)	3 x G-1/8" F
Recommended hose	Ø-8x1
Air supply pressure	1 ÷ 7 bar
Cooling power*	360 W - 300 Kcal/h - 1200 BTUH
Optional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

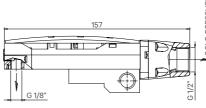
*with inlet pressure 7 Bar and inlet temperature 20°C

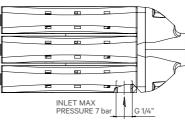
COOLER

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 FEATU

Materials

Air inlet port Outlet port (cold flow) Exhaust port (hot flow **Recommended hose** Air supply pressure Cooling power*

Optional magnetic sup

*with inlet pressure 7 Bar and inlet temperature 20°C

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

Pressure bar	
1	
2	
3	
4	
5	
6	
7	





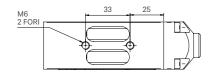
RES - VR-300U	
	Body and cover: Nylon 6.6
	Air connections and nozzles: brass
	G-1/4" F
)	1 x G-1/2" F
w)	3 x G-1/8" F
	Ø-8x1
	3 ÷ 7 bar
	360 W - 300 Kcal/h - 1200 BTUH
pport	KACM-VR300

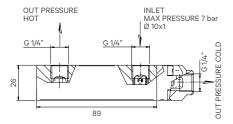
Outlet temperature cold flow °C	Consumption NL/min
-1,5	96
-8	159
-15	222
-21,5	282
-24,5	345
-26,5	405
-28	462

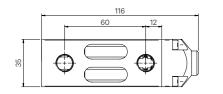
SERIES VR-200U . SINGLE OUTLET HIGH-PERFORMANCE COMPACT PNEUMATIC COOLERS

SERIES VR-400U . SINGLE OUTLET HIGH-PERFORMANCE COMPACT PNEUMATIC COOLERS







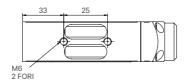


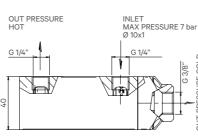
MaterialsBody and cover: Delrin Ports and nozzles: BrassAir inlet portG-1/4" FOutlet port (cold flow)G-1/4" FExhaust port (hot flow)G-1/4" FRecommended hoseØ-8x1Air supply pressuremax 7 barCooling power*264 W - 220 Kcal/h - 880 BTUHWeight210 g	GENERAL FEATURES - VR-200U		
Air inlet portG-1/4" FOutlet port (cold flow)G-1/4" FExhaust port (hot flow)G-1/4" FRecommended hoseØ-8x1Air supply pressuremax 7 barCooling power*264 W - 220 Kcal/h - 880 BTUHOptional magnetic supportBy means of 2 threads M6 on the body	Materials	Body and cover: Delrin	
Outlet port (cold flow)G-1/4" FExhaust port (hot flow)G-1/4" FRecommended hoseØ-8x1Air supply pressuremax 7 barCooling power*264 W - 220 Kcal/h - 880 BTUHOptional magnetic supportBy means of 2 threads M6 on the body		Ports and nozzles: Brass	
Exhaust port (hot flow)G-1/4" FRecommended hoseØ-8x1Air supply pressuremax 7 barCooling power*264 W - 220 Kcal/h - 880 BTUHOptional magnetic supportBy means of 2 threads M6 on the body	Air inlet port	G-1/4" F	
Recommended hoseØ-8x1Air supply pressuremax 7 barCooling power*264 W - 220 Kcal/h - 880 BTUHOptional magnetic supportBy means of 2 threads M6 on the body	Outlet port (cold flow)	G-1/4" F	
Air supply pressuremax 7 barCooling power*264 W - 220 Kcal/h - 880 BTUHOptional magnetic supportBy means of 2 threads M6 on the body	Exhaust port (hot flow)	G-1/4" F	
Cooling power*264 W - 220 Kcal/h - 880 BTUHOptional magnetic supportBy means of 2 threads M6 on the body	Recommended hose	Ø-8x1	
Optional magnetic support By means of 2 threads M6 on the body	Air supply pressure	max 7 bar	
	Cooling power*	264 W - 220 Kcal/h - 880 BTUH	
Weight 210 g	Optional magnetic support	By means of 2 threads M6 on the body	
	Weight	210 g	

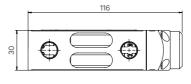
* With inlet pressure 7 Bar and inlet temperature 20°C.

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







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

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		
	1	
	2	
	3	
	4	
	5	
	6	
	7	

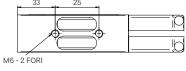
*Test made with insulated LOC-LINE flexible tube at cold outlet, and tube L= 1 m at hot air outlet.

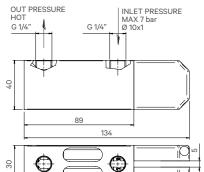
Outlet temperature cold flow °C	Consumption NL/min	Noise level* dBA
-2	128	55
-12	212	60
-18	296	64
-23	376	67
-26	460	70
-28	540	71
-31	616	73

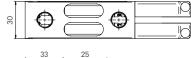
SERIES VR-400G • TO COOL DOWN BLADES, BELTS, AND BANDS HIGH-PERFORMANCE COMPACT PNEUMATIC COOLERS

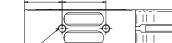
SERIES VR-600U . SINGLE OUTLET HIGH-PERFORMANCE COMPACT PNEUMATIC COOLERS

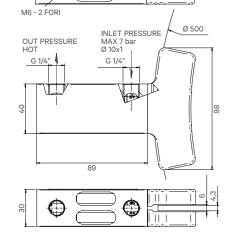










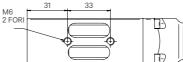


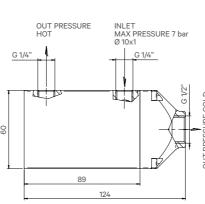
GENERAL FEATURES - VR-400G			
Materials	Body: Derlin		
	Clamps: ABS (other materials on request)		
	Inner spindles: brass		
Air inlet port	G-1/4" F		
Clamps width (cold flow)	5 mm (customised dimensions on request)		
Outlet port (hot flow)	G-1/4" F		
Recommended hose	Ø-10x1		
Air supply pressure	max 7 bar		
Cooling power*	528 W - 440 Kcal/h - 1760 BTUH		
Fixation	By means of two M6 threads on body		
Weight	340 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	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 FEATUR

Mater	ial	s

Air inlet port
Clamps width (cold f
Outlet port (hot flow)
Recommended hose
Air supply pressure
Cooling power*
Fixation
Weight

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

Pressure bar		
1		
2		
3		
4		
5		
6		
7		

RES - VR-600U	
	Body: Derlin
	Ports and nozzles: Brass
	G-1/4" F
ow)	G-1/2" F
1	G-1/4" F
	Ø-10x1
	max 7 bar
	720 W - 600 Kcal/h - 2400 BTUH
	By means of two M6 threads on body
	460 g

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

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

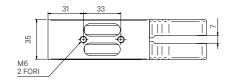
SERIES VR-600G • TO COOL DOWN BLADES, BELTS, AND BANDS HIGH-PERFORMANCE COMPACT PNEUMATIC COOLERS

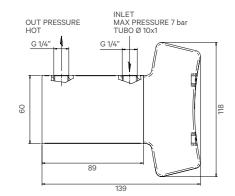
SERIES VRX-100

HIGH-PERFORMANCE PNEUMATIC COOLERS







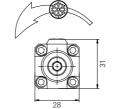


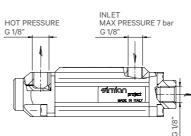
GENERAL FEATURES- VR-600G	
Materials Body: Derlin	
	Clamps: ABS (other materials on request)
	Inner spindles: Brass
Air inlet port	G-1/4" F
Clamps width (cold flow)	11 mm (customised dimensions on request)
Outlet port (hot flow)	G-1/4" F
Recommended hose	Ø-10x1
Air supply pressure	max 7 bar
Cooling power*	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 m at hot air outlet.

GENERAL FEATUR

Materials

Air inlet port Outlet port (cold flow) Exhaust port (hot flow **Recommended hose** Air supply pressure Cooling power*

Optional magnetic su Weight

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

ssure Dar
1
2
3
4
5
6
7

RES - VRX-100	
	Sleeve: anodized aluminium
	Ends: Nylon 6.6
	G-1/8" F
i)	G-1/8" F
w)	G-1/8" F
	Ø-8x1
	1 ÷ 7 bar
	132 W - 110 Kcal/h - 440 BTUH
ipport	KACM-VRX-100
	170 g

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

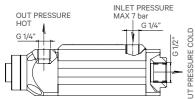
Outlet temperature cold flow °C	Consumption NL/min	Noise level* dBA
-2	32	54
-12	53	58
-18	74	62
-23	94	64
-26	115	64
-28	135	66
-31	154	68

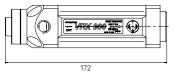
SERIES VRX-300 HIGH-PERFORMANCE PNEUMATIC COOLERS

SERIES VRX-500 HIGH-PERFORMANCE PNEUMATIC COOLERS









*Test made with insulated LOC-LINE flexible tube

at cold outlet, and tube L= 1 m at hot air outlet.

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

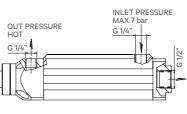


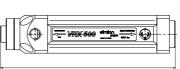
* With inlet pressure 7 Bar and inlet temperature 20°C.

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







208

Pressure bar		
	1	
	2	
	3	
	4	
	5	
	6	
	7	

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



GENERAL FEATURES - VRX-500	
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

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

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

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

SERIES VRX-1000 HIGH-PERFORMANCE PNEUMATIC COOLERS

ACCESSORIES PNEUMATIC COOLERS

MAGNETIC SUPPORT Part-number

KACM-VR100 KACM-VR200 KACM-VR300 KACM-VR246 KACM-VRX100 KACM-VRX300 / VRX KACM-VRX1000

ADJUSTABLE NOZZLE (INSULATED VERSION) FOR COLD OUTLET)				
Part-number	Port Ø	Nozzle Ø	No. modules	Length mm
AC28	1/8"	3	4	100
AC34	1/4"	3	4	100
AC47	3/8"	6	6	180
AC27	1/2"	6	6	180

Part-number Port Ø Nozzle Ø No. modules Length mm 82021/8 1/8-3 1/8" 3 8 155	ADJUSTABLE N	IOZZLE (NON	I-INSULATED VI	ERSION) FOR COLD	OUTLET)
82021/8 1/8-3 1/8" 3 8 155	Part-number	Port Ø	Nozzle Ø	No. modules	Length mm
	82021/8 1/8-3	1/8"	3	8	155
84041/61/2-9 1/2" 9 6 170	84041/6 1/2-9	1/2"	9	6	170

Other configurations available on request

STRAIGHT PUSH-IN FITTING FOR AIR SUPPLY			
Part-number	Hose Ø	Size	Cooler
S6510	8	1/8"	VR-100 / VR-200 / VR-300 / VRX-100
S6510	10	1/4"	VRX-300 / VRX-500
S6510	12	1/4"	VRX-1000
S6510	10	3/8"	VR-600

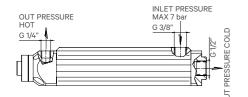
ELBOW PUSH-IN FITTING FOR AIR SUPPLY			
Part-number	Hose Ø	Size	Cooler
S6520	8	1/8"	VR-100 / VR-200 / VR-300 / VRX-100
S6520	10	1/4"	VRX-300 / VRX-500
S6520	12	1/4"	VRX-1000
S6520	10	3/8"	VR-600

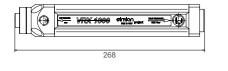
SILENCER FOR	HOT F
Part-number	Size
SC 1/8	1/8"
SC 1/4	1/4"
SC 3/8	3/8"
In sintered bronze.	

	OR COLI
Codice	Siz
AC25	1/2









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

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÷7bar
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





24



l de la companya de l	
	Cooler
	VR100
	VR200
	VR300
	VR200U-G / VR400U-G / VR600U-G
	VRX100
(500	VRX300 / VRX500
	VRX1000

FLOW EXHAUST		
	Noise at 6 bar dBA	
	70	
	67	
,	67	

CONTROL UNITS XTRONIC2 1/2/3 SOLENOID VALVES

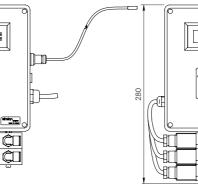
CONTROL UNITS XTRONIC 345 B

PNEUMATIC COOLERS



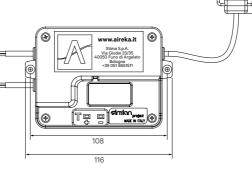
XTRONIC2 C-EV-1S/C **1 SOLENOID VALVE**

200



XTRONIC2 C-2EV-1S/C 2 SOLENOID VALVES

© Ĉ∏ XTRONIC2 C-3EV-1S/C **3 SOLENOID VALVES**





RES - XTRONIC 345 B	
	24 V DC
	1 m
	-20°C +60°C
	00% 100% RH
	0.1°C , 0.1 % RH
	max 10 A
er	24 V - 3.1 W
n	0.75 mm
	1.5 m
	Inside cabinets



CONTROL UNITS XTRONIC 345 T

PNEUMATIC COOLERS

EXAMPLES OF INSTALLATION

PNEUMATIC COOLERS



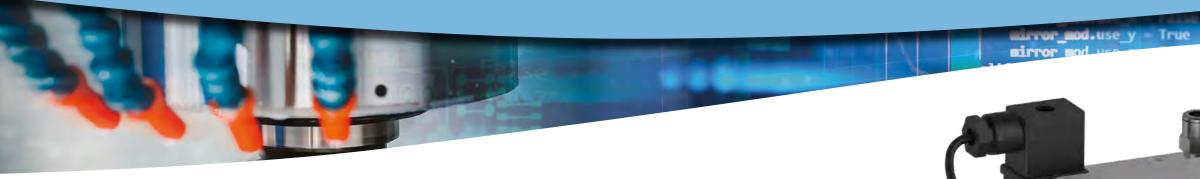
ELECTRONICALLY-CONTROLLED PNEUMATIC COOLERS

STAND-ALONE SERIES, VRX-100-XTRONIC ELECTRONICALLY-CONTROLLED PNEUMATIC COOLERS

GENERAL FEATU

Recommended hose

Supply voltage



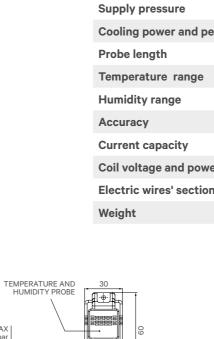
STAND-ALONE SERIES

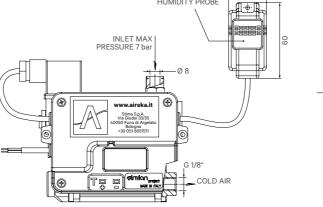
These are pneumatic coolers with temperature-control device, in a single unit. The market increasingly demands stand-alone devices, which are able to function autonomously, based on the parameters of the ambient temperature. Therefore, we designed and developed the **XTRONIC** temperature-control units,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

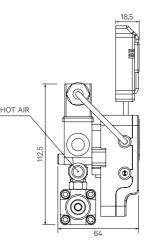








RES - VRX-100 XTRONIC		
	24 V DC	
	Ø 8x1	
	max 7 bar	
erformances	See VRX-100 (page 21)	
	1 m	
	-20°C +60°C	
	00% 100% RH	
	0.1°C , 0.1 % RH	
	max 10 A	
er	24 V - 3.1 W	
n	0.75 mm	
	760 g	



STAND-ALONE SERIES, VR-200U-XTRONIC

ELECTRONICALLY-CONTROLLED PNEUMATIC COOLERS

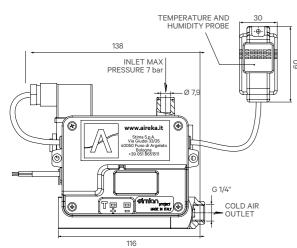
STAND-ALONE SERIES, VRX-300 XTRONIC ELECTRONICALLY-CONTROLLED PNEUMATIC COOLERS

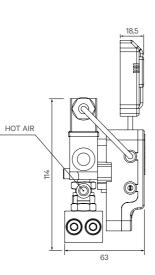


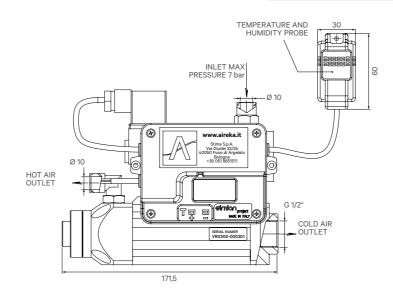
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GENERAL FEATURES - VR-200U XTRONIC

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



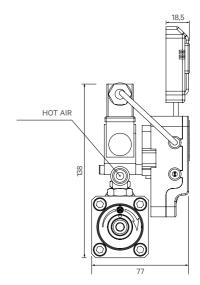






GENERAL FEATURES - VRX-300 XTRONIC

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 g



STAND-ALONE SERIES, VR-400U-XTRONIC

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ELECTRONICALLY-CONTROLLED PNEUMATIC COOLERS

STAND-ALONE SERIES, VRX-500 XTRONIC ELECTRONICALLY-CONTROLLED PNEUMATIC COOLERS

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

0

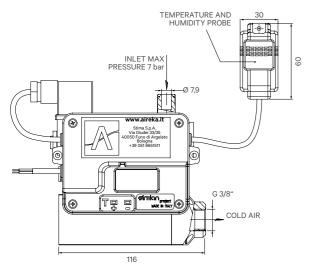
www.aireka.it

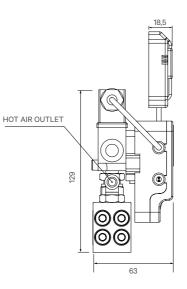
Stima S.p.A. Via Giudei 33/35 40050 Funo di Argelato (BO)

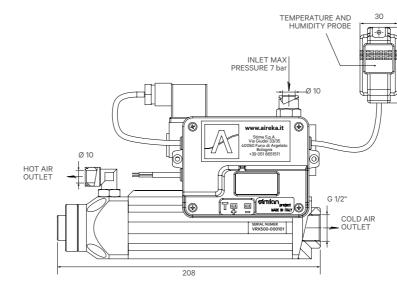
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simion project

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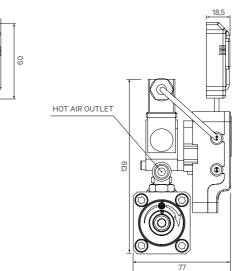




GENERAL FEATORES	
Supply voltage	24 V DC
Recommended hose	Ø 10x1
Supply pressure	max 7 bar
Cooling power and performa	See VR-400U (pag. 23)
Probe length	1 mt
Temperature range	-20°C +60°C
Humidity range	00% 100% RH
Accuracy	0.1°C , 0.1 % RH
Current capacity	max 10 A
Coil voltage and power	24 V - 3.1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



GENERAL FEATURES - VRX-500 XTRONIC



STAND-ALONE SERIES VRX-1000-XTRONIC

ELECTRONICALLY-CONTROLLED PNEUMATIC COOLERS

APPLICAZIONI SPECIALI

-use

VRX300 + KDA HEATER VERSION

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simion



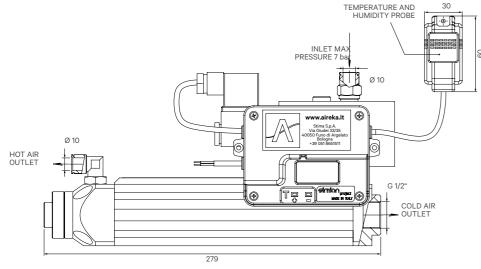
VRX300 + KDA WITH DISTRIBUTOR OF COLD AIR

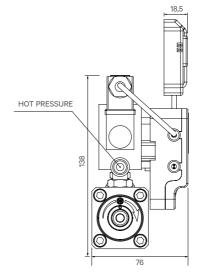


RING-COOLING SYSTEM

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







LIRROR X"

VRX500 MOTION COOLER WITH ADJUSTMENT CONTROLLABLE BY PLC



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







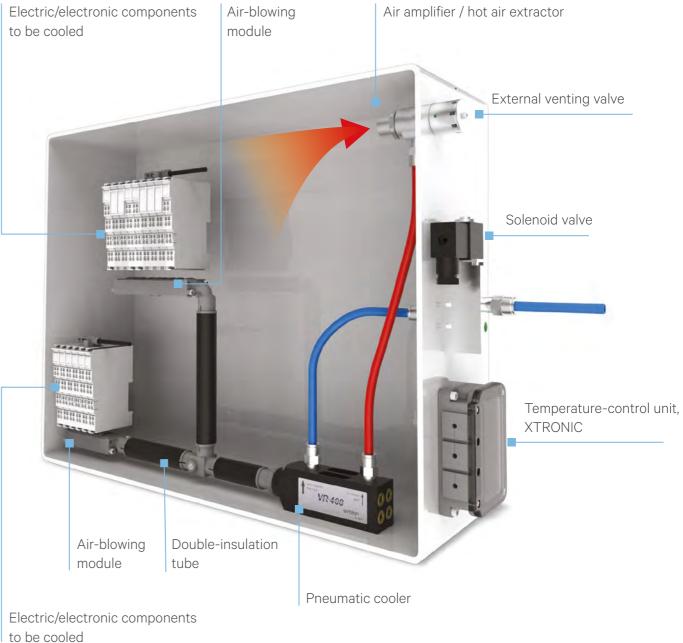
Fittings for cold air distribution



Customisable air-blowing module



Single air-blowing module



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.

No matter how much cold air is

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

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.

introduced into an electrical cabinet, the

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.



AIR KNIVES

THRUST BASE AxB

SERIES ABT / ABX / ABZ





COANDA-EFFECT AIR KNIVES

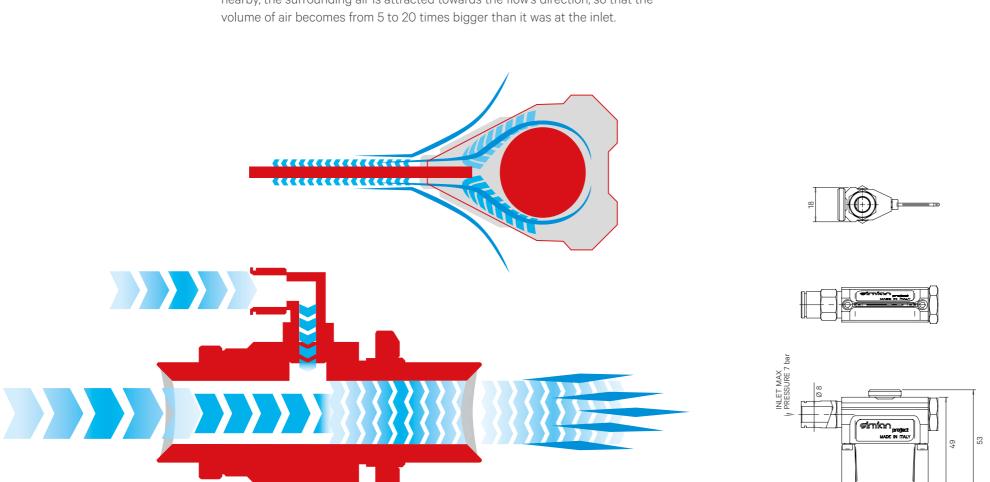
SERIES ABT-030 DOUBLE-SLOT AIR KNIVES

DESCRIPTION OF THE COANDA EFFECT

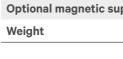
The air amplifiers and the air knives exploit the Coanda effect.

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 FEATUR

Materials Air supply port

Fixation

Blade length

Air supply pressure

Pressure bar	
1	
2	
3	
4	
5	
6	
7	



RES - ABT-030	
	Anodized aluminium and AISI304 s.s.
	Fitting Ø-8
	Optional angular bracket
	32 mm
	1-7 bar
ipport	KACM-ABT030
	110 g

Consumption NI/min	Thrust a 200 mm in g	Noise level dBA
150	97	70
255	213	76
346	330	79
433	450	82
516	590	84
599	720	85
666	850	86

SERIES ABT-030 PLUS

DOUBLE-SLOT AIR KNIVES

SERIES ABT-060 DOUBLE-SLOT AIR KNIVES

76 90

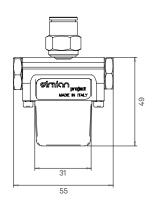
INLET PRE MAX 7 bar



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









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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





ssure Dar
1
2
3
4
5
6
7

RES - ABT-060	
	Anodized aluminium and AISI304 s.s
	Fitting Ø-10
	Optional angular bracket
	76 mm
	1-7 bar
ipport	KACM-ABT030
	170 g

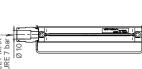
Consumption NI/min	Thrust a 200 mm in g	Noise level dBA
283	170	72
449	340	77
629	570	80
816	810	83
982	1090	85
1166	1400	86
1350	1700	87

SERIES ABT-100 DOUBLE-SLOT AIR KNIVES

SERIES ABT-200 DOUBLE-SLOT AIR KNIVES

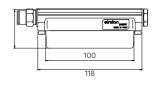


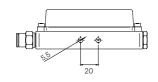
GENERAL FEATURES - ABT-10	0
Materials	Anodized aluminium and AISI304 s.s.
Air supply port	Fitting Ø-10
Fixation	Integrated feet
Blade length	100 mm
Air supply pressure	1-7 bar
Optional magnetic support	KACM-ABT100
Weight	200 g



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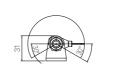






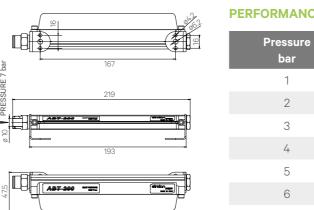


Pressure bar	Consumption NI/min	Thrust a 200 mm in g	Noise level dBA
1	366	216	75
2	558	450	79
3	724	690	82
4	899	930	84
5	1082	1210	85
6	1233	1530	87
7	1410	1800	88



¥¥.





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

Consumption NI/min	Thrust a 200 mm in g	Noise level dBA
499	245	75
940	570	80
1582	1030	84
2082	1450	87
2665	2000	90
3248	2400	93

SERIES ABT-240 DOUBLE-SLOT AIR KNIVES

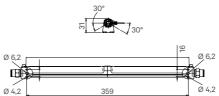
SERIES ABT-400 DOUBLE-SLOT AIR KNIVES



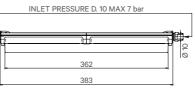
GENERAL FEATURES - ABT-240	
Materials	Anodized aluminium and AISI304 s.s.
Air supply port	Fitting Ø 10
Fixation	Integrated feet
Flow width	218 mm
Supply pressure	1-7 bar
Optional magnetic support	KACM-ABT100
Weight	300 g



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





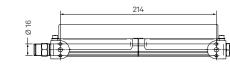


GENERAL FEATUR

Materials
Air supply port
Fixation
Flow width
Supply pressure
Optional magnetic s
Weight

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









RES - ABT-400	
	Anodized aluminium and AISI304 s.s.
	Fitting Ø 10
	Integrated feet
	362 mm
	7 bar
ipport	KACM-ABT200
	450 g

SERIES ABT-600 DOUBLE-SLOT AIR KNIVES

SERIES ABT-800

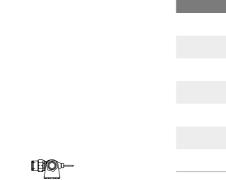
DOUBLE-SLOT AIR KNIVES



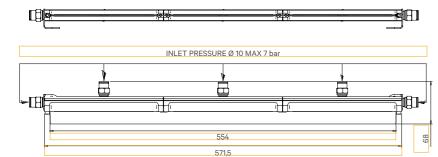
GENERAL FEATURES - ABT-600	
Materials	Anodized aluminium and AISI304 s.s.
Air supply port	Fitting Ø 10
Fixation	Integrated feet
Flow width	554 mm
Supply pressure	max 7 bar
Optional magnetic support	KACM-ABT200
Weight	690 g

PERFORMANCES AND CONSUMPTION TABLE

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

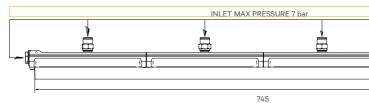






Pressure bar	Consumption NI/min
1	2295
2	2934
3	4080
4	4719
5	5865
6	7140
7	7989

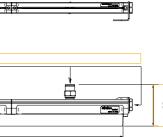






GENERAL FEATURES - ABT-800

Materials	Anodized aluminium and AISI304 s.s.
Air supply port	Fitting Ø 10
Fixation	Integrated feet
Flow width	745 mm
Supply pressure	max 7 bar
Optional magnetic support	KACM-ABT200
Weight	900 g



ACCESSORIES AND SPECIAL VERSIONS AIR KNIVES

SERIES ABT-F1C CALIBRATED SINGLE-SLOT AIR KNIVES





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.

54

150 > 1200

8 **E**

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7

RES - ABT-F1C	
	Aluminium and Delrin
	Fitting Ø 10
	Integrated feet
	From 150 mm to 1200 mm
	max 7 bar
200 mm length	Range from 62 to 82 dBA
t	KACM-ABT200

Consumption NI/min	Thrust force at 150 mm, in g
109	61
195	135
279	220
341	310
416	400
483	520
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°.	



GENERAL FEATUR

Materials	
-----------	--

Fixation

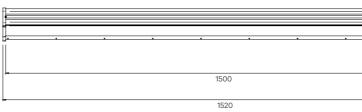
Flow width

Supply pressure

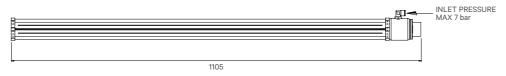
On request: supply connection at 90°.

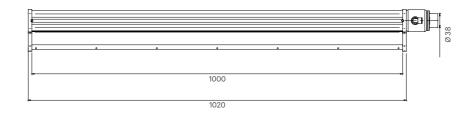




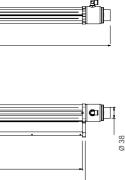








RES - ABX-1500	
	Anodised aluminium / Stainless steel
	On request
	1500 mm
	Based on the type of air supply



SERIES ABX-2000

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°				

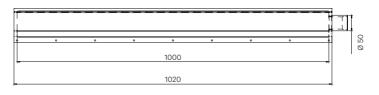
GENERAL FEATUR
Materials
Fixation
Flow width

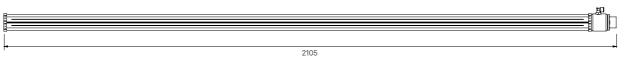
Supply pressure

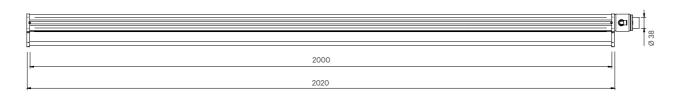
On request: supply connection at 90°.











RES - ABZ-1000	
	Zinc-plated metal sheet
	On request
	1000 mm
	Based on the type of air supply

SERIES ABZ-1500

LONG AIR KNIVES TO BE SUPPLIED BY ELECTRIC BLOWER

SERIES ABZ-2000 LONG AIR KNIVES TO BE SUPPLIED BY ELECTRIC BLOWER



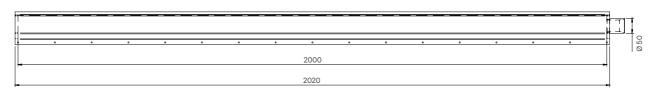
GENERAL FEATURES - ABZ-150	0
Materials	Zinc-plated metal sheet
Fixation	On request
Flow width	1500 mm
Supply pressure	Based on the type of air supply
On request: heated air flow.	

GENERAL FEATURES - ABZ-2	2000
Materials	Zinc-plated metal sheet
Fixation	On request
Flow width	2000 mm
Supply pressure	Based on the type of air supply
On request bosts dair flow	

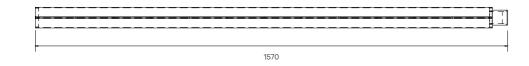
On request: heated air flow.

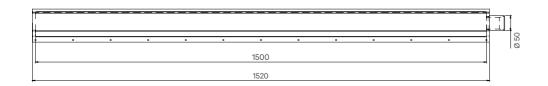


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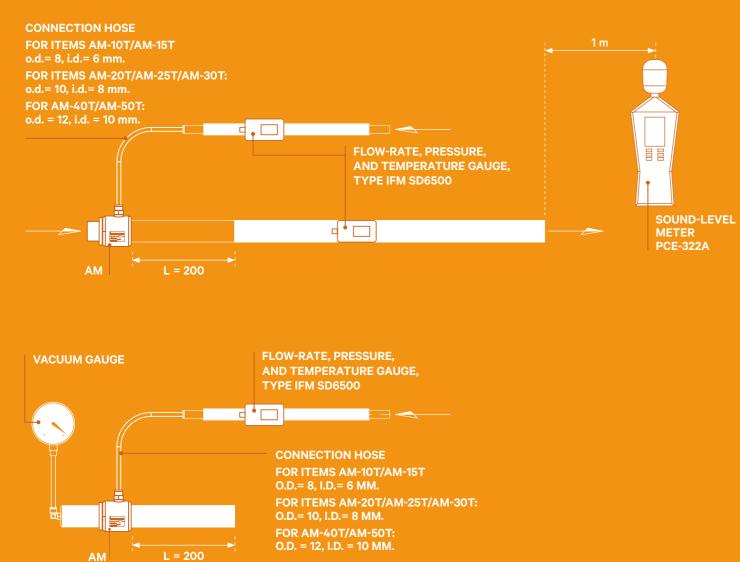


AIR AMPLIFIERS

SERIES AM-T



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





- Adjustable flow-rate
- Instant operation
- No electricity or chemical substances required
- More efficient than venturis and ejectors
- It does not cause neither sparks nor interferences
- Reliable and maintenance-free

ΛΙ R **Ε Κ Λ**

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

Wide section for suction and blow-off, suitable for a variety of applications

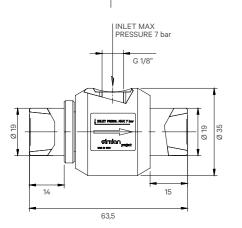
No moving part, so not subject to wear and tear



SERIES AM-10T AIR AMPLIFIERS

SERIES AM-15T AIR AMPLIFIERS

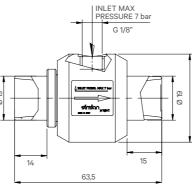




GENERAL FEATURES - AM-10T			
Materials	Aluminium		
Air inlet port	G-1/8" F		
Inlet diameter	Ø 19		
Outlet diameter	Ø 19		
Air supply pressure	max 7 bar		
Recommended hose	Ø 6x1 - Ø 8x1		
Weight	95 g		

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 1	80°			
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	



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

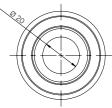
OPENING 90°						
SUPPLY PRESSURE bar	CONSUMPTION NI/min	FLOW-RATE NI/min	AMPLIFICATION RATIO	VACUUM mbar	NOISE LEVEL dBA	
2	100	899,6	9,0	30	70	
3	133	1132,9	8,5	45	74	
4	168	1332,8	7,9	60	76	
5	204	1516	7,4	75	78	
6	244	1649,3	6,8	90	79	
		OPENING 1	80°			
2	225	1366	6,1	60	80	
3	299	1666	5,6	95	84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

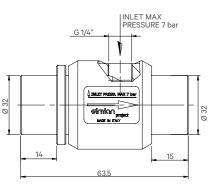


SERIES AM-20T AIR AMPLIFIERS

SERIES AM-25T AIR AMPLIFIERS

MANUAL ADJUSTMENT





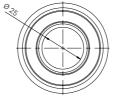
GENERAL FEATURES - AM-20T			
Materials	Aluminium		
Air inlet port	G-1/4" F		
Inlet diameter	Ø 32		
Outlet diameter	Ø 32		
Air supply pressure	max 7 bar		
Recommended hose	Ø 8x1 - Ø 10x1		
Weight	240 g		

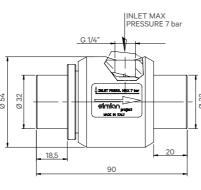
INLET PRESS. MAX 7 bar

PERFORMANCES AND CONSUMPTION TABLE

OPENING 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 1	80°			
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	

MANUAL ADJUSTMENT





GENERAL FEATUR Materials Air inlet port Inlet diameter Outlet diameter

Air supply pressure Recommended hose Weight

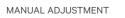
		OPENING	90°		
SUPPLY PRESSURE bar	CONSUMPTION NI/min	FLOW-RATE NI/min	AMPLIFICATION RATIO	VACUUM mbar	NOISE LEVEL dBA
2	283	1549,4	5,5	15	74
3	366	1992,2	5,4	24	75
4	466	2364,7	5,1	32	77
5	583	2665,6	4,6	41	78
6	699	2998,8	4,3	50	80
OPENING 180°					
2	583	2582,3	4,4	35	78
3	850	3165,4	3,7	55	81
4	1100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



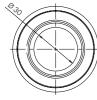
Aluminium	
G-1/4	
Ø 32	
Ø 32	
max 7 bar	
Ø 10x1 - Ø 12x1	
280 g	

SERIES AM-30T AIR AMPLIFIERS

SERIES AM-40T AIR AMPLIFIERS



MANUAL ADJUSTMENT

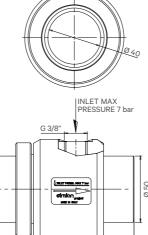


INLET MAX PRESSURE 7 bar 23 G 1/4" A THE JET PRESS. MAX 7 Inc 107

GENERAL FEATURES - AM-30T	
Materials	Aluminium
Air inlet port	G-1/4
Inlet diameter	Ø 38
Outlet diameter	Ø 38
Air supply pressure	max 7 bar
Recommended hose	Ø 10x1 - Ø 12x1
Weight	380 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	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



GENERAL FEATURES - AM-40T	
Materials	Aluminium
Air inlet port	G-3/8
Inlet diameter	Ø 50
Outlet diameter	Ø 50
Air supply pressure	max 7 bar
Recommended hose	Ø 12x1 - Ø 14x1
Weight	600 g

PERFORMANCES AND CONSUMPTION TABLE

110

		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



MANUAL ADJUSTMENT

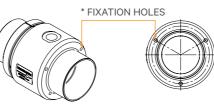
ACCESSORIES AIR AMPLIFIERS

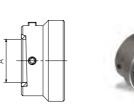
992) - **3**46

STRAIGHT PUS	SH-IN
Part Number	Hos
S6510	6
S6510	8
S6510	10
S6510	8
S6510	10
S6510	12
S6510	12
S6510	14

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

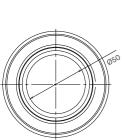
Part Number	Air amplifier
ABT-05T	AM-10T / AM-15T
ABT-05	AM-20T / AM-25T

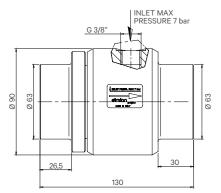




ILTERS FOR I	FIXATIC
Part Number	Air am
000	ANA 10

FILTERS FOR FIXATIO		
Part Number	Air am	
AC32	AM-10	
AC31	AM-20	
AC26	AM-30	
AC43	AM-40	
AC44	AM-50	





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 g

Lintermess was

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	-

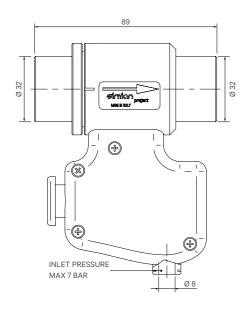
FITTING FOR AIR SUPPLY				
ie Ø	Thread	Air amplifier		
	1/8"	AM10-T		
	1/8"	AM10-T / AM15-T		
	1/8"	AM15-T		
	1/4"	AM20-T		
	1/4"	AM20-T / AM25-T / AM30-T		
	1/4"	AM25-T / AM30-T		
	3/8"	АМ40-Т / АМ50-Т		
	3/8"	AM40-T / AM50-T		

ON TO CABINETS	
nplifier	AØ
DT / AM-15T	19
0T / AM-25T	32
ОТ	38
OT	50
ОТ	63

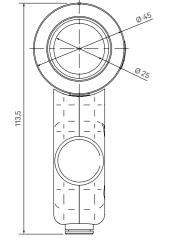
SPECIAL APPLICATIONS AIR-SPEED 25 • SUCTION GUN

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.





FIELDS OF USE

- Cleaning of silos, metallic carpentry, etc.



• 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;

SPECIAL NOZZLES

SERIES UGP 20A - UGP 20B

FLAT-FLOW NOZZLES



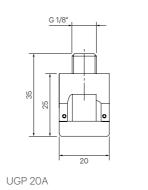
Simian Project Moe IN ITALY

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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



G 1/8"

UGP 20B

UGP 20A

Material
Inlet port

Flow width

Supply pressure

Weight

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







UGP 20B

GENERAL FEATURES - UGP 20A - UGP 20B

Delrin and AISI304 stainless steel
G 1/8" M (UGP 20A)
G 1/8" F (UGP 20B)
20 mm
1÷7bar
18 g (UGP 20A)
12 g (UGP 20B)

PERFORMANCES AND CONSUMPTION TABLE

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

SERIES UGP 45A - UGP 45B

FLAT-FLOW NOZZLES

SERIES UGL NOZZLE FOR RECTANGULAR PHOTOCELLS

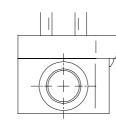


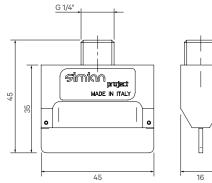




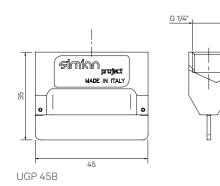
UGP 45A







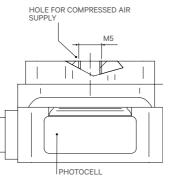
UGP 45A



GENERAL FEATURES - U	GP 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÷7bar
Weight	32 g (UGP 45A)
	25 g (UGP 45B)

PERFORMANCES AND CONSUMPTION TABLE

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



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Material
Inlet port
Dimensions

PERFORMANCES AND CONSUMPTION TABLE

PRESSURE bar	CONSUMPTION NL/MIN
0,2	13
0,2	13

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

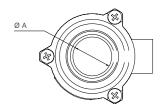


S - UGL	
	On request
	Not included
	On request

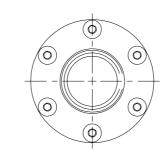
SERIES UGD 08 / UGD 12 / UGD 18 / UGD 30

NOZZLE FOR CLEANING





DIMENSIONS - UGD 18-I				
Material	Moulded Nylon			
Туре	A B C			
UGD-18I	M18x1	42	26	



ØВ

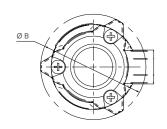
C

Material	Aluminium		
Туре	А	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.



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



PERFORMANCES AND CONSUMPTION TABLE

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



UGD-27 FOR VIDEO-CAMERAS

DIMENSIONS - UGD 08 / UGD 12 / UGD 18 / UGD 30

PERFORMANCES AND CONSUMPTION TABLE (ONLY VERSION UGD-18)

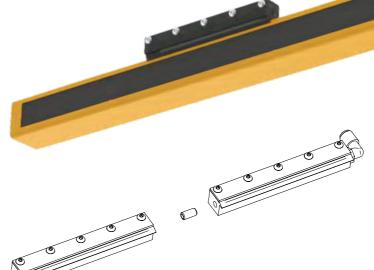
SERIES UGF 03 / UGF 04 / UGF 05 / UGF 06

NOZZLE FOR OPTICAL FIBER CLEANING

SERIES UGB 100 / UGB 300

AIR-KNIFE FOR LIGHT CURTAINS





MULTIPLE SOLUTION

-@

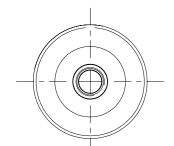
100

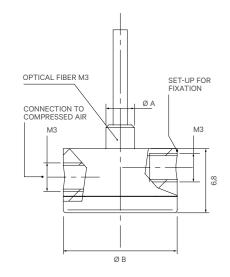
GENERAL FEATURES - UGB 100 / UGB 300

Material Inlet fitting

Curtain width

Pressione Bar	
0,3	
0,5	
0,7	
1	
1,5	
2	
2,5	
3	
4	
300	





GENERAL FEATURES - UGF 03 / UGF 04 / UGF 05 / UGF 06

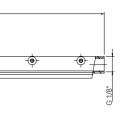
ial	Anodized aluminium	
itting	Not included	
nsions	Ø A Ø B	
03	M3 12 mm	
)4	M4 15 mm	
05	M5 15 mm	
06	M6 16 mm	
itting nsions 03 04 05	Not included Ø A Ø B M3 12 mm M4 15 mm M5 15 mm	





Alluminio anodizzato / Delrin
Not included
100 mm / 300 mm

Consumption L = 300 mm		Consumption x 100 mm
m³/h	NI/min	NI/min
4	82	27
6	114	38
8	138	46
10	175	58
14	238	79
18	305	102
21	358	119
24	408	136
30	508	169



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. This is then directed to the bottom of

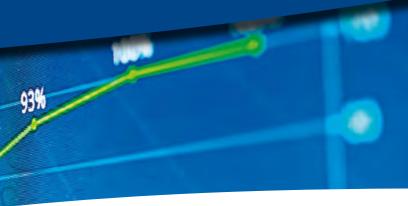
the bowl.

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

- Easy to install

- Maintenance-free

- Instant operation



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: upstream of coalescing filters (cleaning of air inside clean rooms), downstream of big compressors for air distribution inside factories, on board of trucks and agricultural machines, upstream of pneumatic tools, etc.

Water separation through the decrease in the temperature of compressed air No moving part, except for the automatic drain

Made in technopolymer and brass OT58 One size, with 3 possible flow-rate settings

No electricity or chemical substances required

No sparks or interferences caused

Possibility of combination with cooler VR50 to further lower temperatures



SERIES - HSC - T2 - HIGH SEPARATOR CONDENSE

THERMODYNAMIC DRYER

ACCESSORIES THERMODYNAMIC DRYER

11

	GENERAL FEATURES - HSC - T2	
0	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* NII/min at max opening

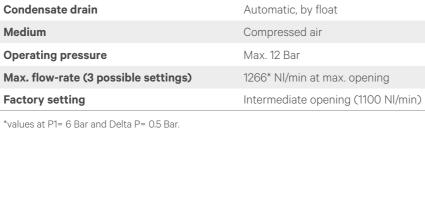
ø8.5 N° 2 HOLES	
150	-

125

2,5

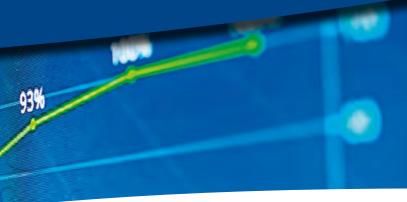


ANTI-VIBRATION SUPPORT PART-NUMBER HSC-17











DIMENSIONS

150 x 30 x 2,50



DIMENSIONS

15 x 15 M5

SOME EXAMPLES OF APPLICATIONS



Cooler for machine-tool

Cooling of moulds in foundries

Cooling of sprues - Moulding sector

Cooling of grinder

Cabinet cooling - Ceramic industry

SOME EXAMPLES OF APPLICATIONS



Air-knife to stretch films

Cooling of cabinets

Cooling of junction boxes

Cooling of a tool - Plastics sector

Air knives to detach metal sheets







