



SUPPLY DIFFUSERS WITH CURVED BLADES

KG
SERIES

OVERVIEW TECHNICAL CHARACTERISTICS

OVERVIEW AND CHARACTERISTICS :

The KG series is made up of a range of fully adjustable inlets, with curved blades that can be oriented individually, arranged in one or two ranks. The first horizontal rank of curved blades is used to control the way the air is emitted, and controls the angle the airflow is deflected. The second horizontal rank with straight blades, when fitted, is used to correct the lateral direction in which the air moves.

Frame: In extruded aluminium, 25 mm in width, with rounded edges and made up in four parts, which are connected to one another invisibly using a mechanical assembly system.

Blades: In extruded aluminium at 20 mm centres, hinged on a self-locking polypropylene track, which is inserted into the frame.

Transverse reinforcing: Included for all the diffusers which are longer than 600 mm.

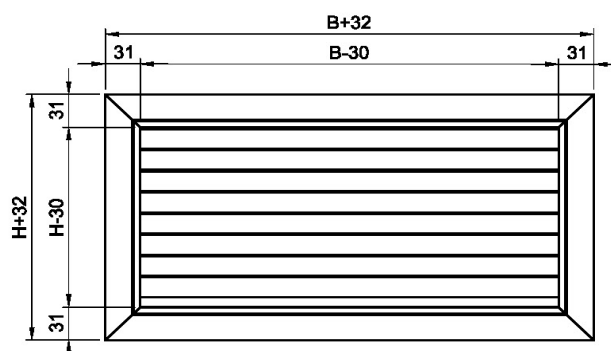
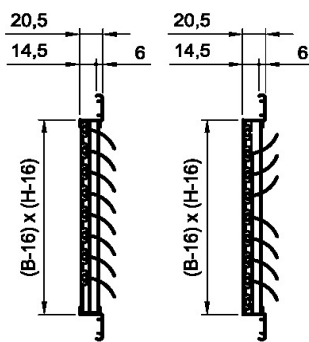
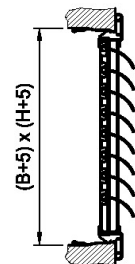
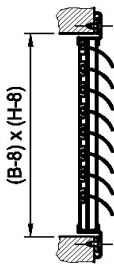
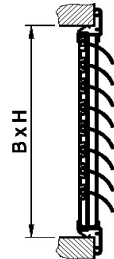
Damper: Made entirely of steel, with multiple fins that move in opposite directions.

Counterframe: Rigid structure in steel sheet suitable for installing using exposed screws and hidden clips. Installing the diffuser on a wall or ceiling: Done using a system without screws and with clips and a counterframe, with the screw system traditionally used directly on the ducting or wall, or using clips or screws directly into the plenum chamber.

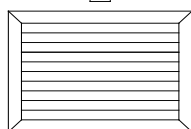
Finish: The KG series is made in natural anodised aluminium or with an epoxy powder coating finish - colour RAL 9010.

UNSUITABLE ENVIRONMENTS

The aluminum products are not suitable for installation in environments with an atmosphere containing corrosive substances for this material and in particular containing chlorine, such as swimming pools, spas and some types of food industries.

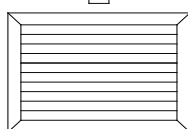


KG 1 L



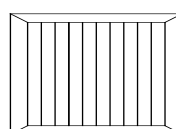
min 200x100

KG 2 L



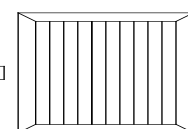
min 200x100

KG 1 C



min 200x150

KG 2 C



min 200x150

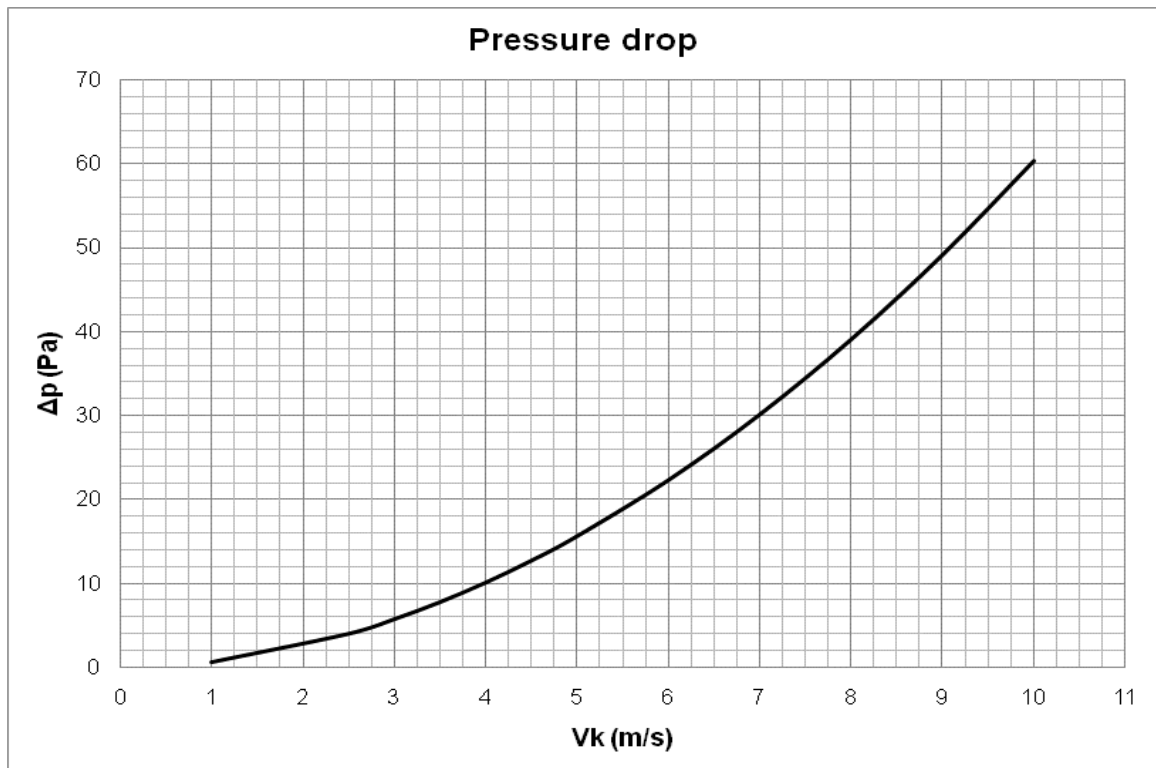


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TECHNICAL DATA

EFFECTIVE SECTION Ak										
	base									
	200	250	300	350	400	450	500	550	600	
haight	100	0,006096	0,007806	0,009516	0,011226	0,012936	0,014646	0,016356	0,018066	0,019776
150	0,009846	0,012556	0,015266	0,017976	0,020686	0,023396	0,026106	0,028816	0,031526	
200	0,013596	0,017306	0,021016	0,024726	0,028436	0,032146	0,035856	0,039566	0,043276	
250	0,017346	0,022056	0,026766	0,031476	0,036186	0,040896	0,045606	0,050316	0,055026	
300	0,021096	0,026806	0,032516	0,038226	0,043936	0,049646	0,055356	0,061066	0,066776	
350	0,024846	0,031556	0,038266	0,044976	0,051686	0,058396	0,065106	0,071816	0,078526	
400	0,028596	0,036306	0,044016	0,051726	0,059436	0,067146	0,074856	0,082566	0,090276	
450	0,032346	0,041056	0,049766	0,058476	0,067186	0,075896	0,084606	0,093316	0,102026	
500	0,036096	0,045806	0,055516	0,065226	0,074936	0,084646	0,094356	0,104066	0,113776	
550	0,039846	0,050556	0,061266	0,071976	0,082686	0,093396	0,104106	0,114816	0,125526	
600	0,043596	0,055306	0,067016	0,078726	0,090436	0,102146	0,113856	0,125566	0,137276	



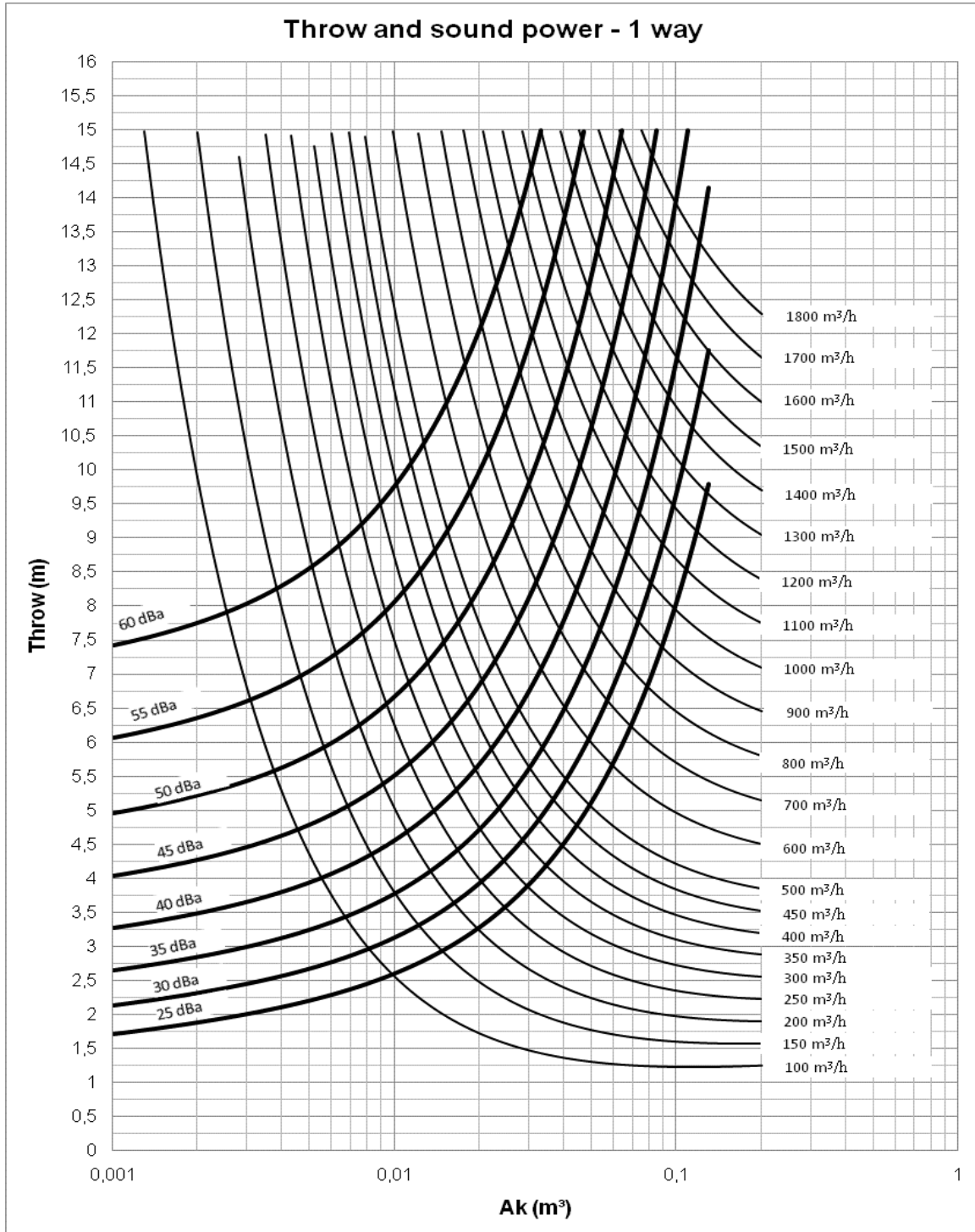
$$V_k \text{ (m/s)} = Q \text{ (m}^3\text{/h)} / 3600 / A_k \text{ (m}^2\text{)}$$



SUPPLY DIFFUSERS
WITH CURVED BLADES

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SERIES

TECHNICAL DATA

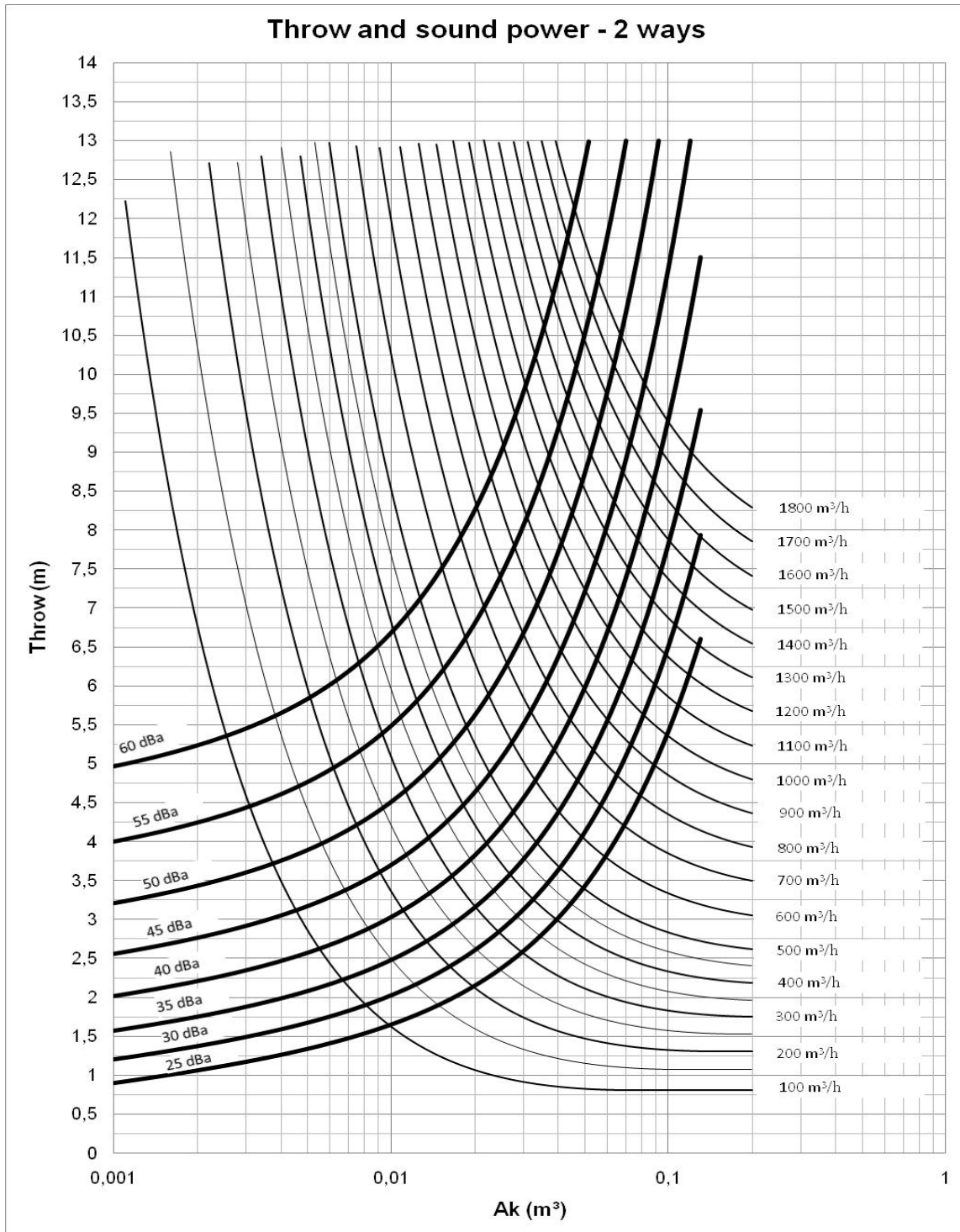




SUPPLY DIFFUSERS WITH CURVED BLADES

TECHNICAL DATA

KG
SERIES

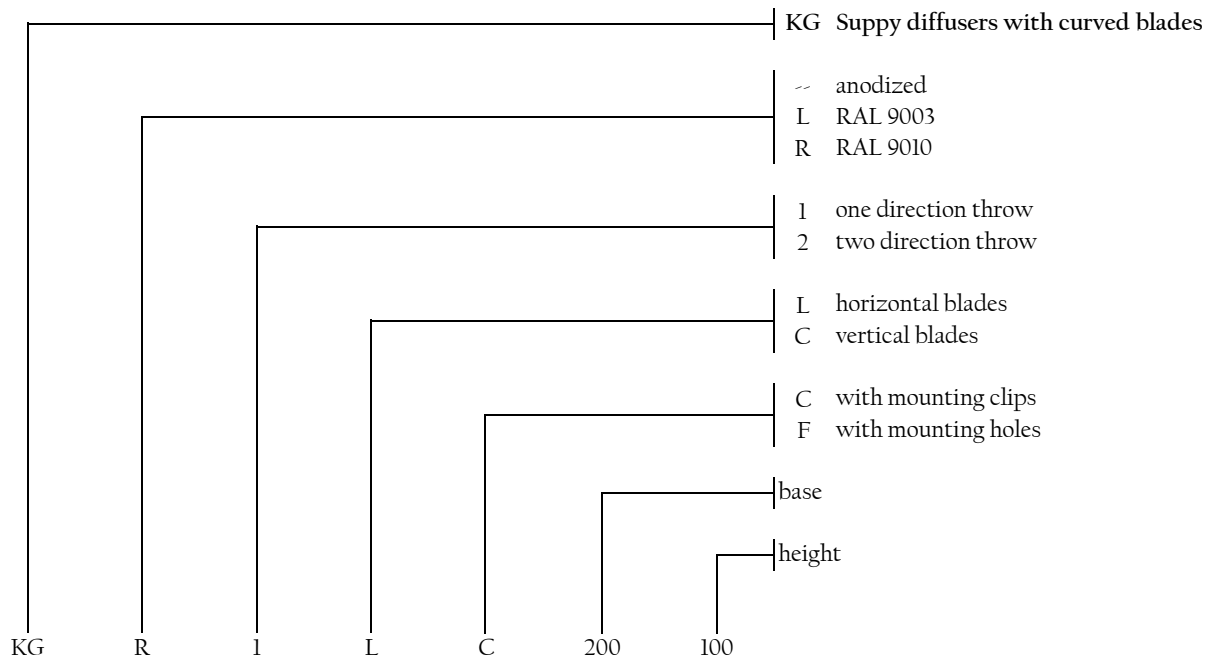




SUPPLY DIFFUSERS WITH CURVED BLADES

KG
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HOW TO ORDER





SUPPLY DIFFUSERS WITH CURVED BLADES

KG
SERIES

ACCESSORIES



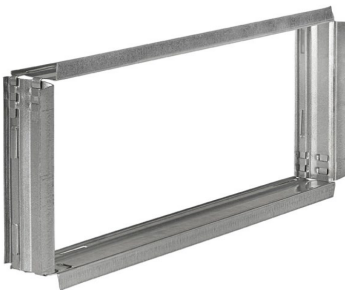
PP30 Plenum with rear connection
insulated and non insulated version



PP30 Plenum with lateral connection
insulated and non insulated version



SC Standard control damper
SCUFIX Control damper for grilles equipped with U-FIX



UTC Counterframe



U-FIX Quick installing

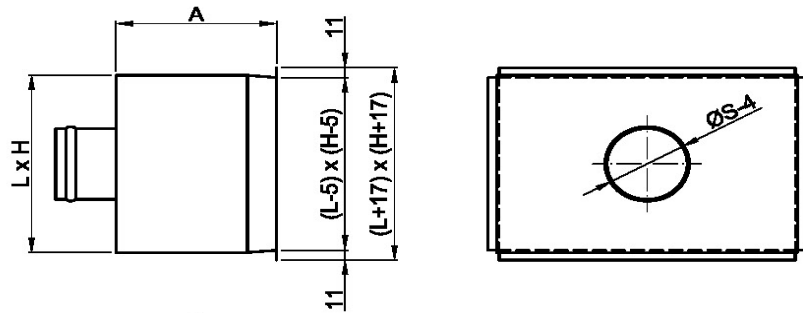
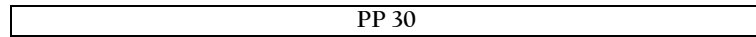


PLENUM FOR VENTILATION GRILLES

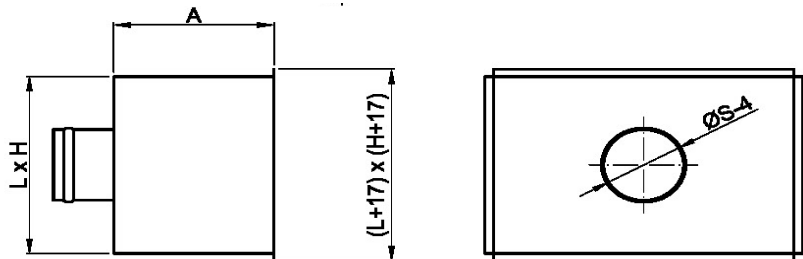
PP 30
SERIES

TECHNICAL CHARACTERISTICS

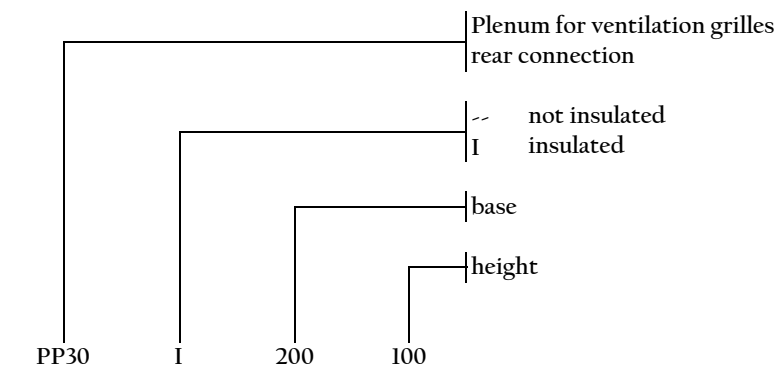
L	H	A	N°	S
200	100	140	1	80
300	100	140	1	80
400	100	140	1	80
500	100	140	2	80
600	100	140	2	80
700	100	140	2	80
800	100	140	2	80
200	150	180	1	127
300	150	180	1	127
400	150	180	1	127
500	150	180	2	127
600	150	180	2	127
700	150	180	2	127
800	150	180	2	127
900	150	180	2	127
1000	150	180	2	127
200	200	220	1	150
300	200	220	1	150
400	200	220	1	180
500	200	220	1	180
600	200	220	2	150
700	200	220	2	150
800	200	220	2	150
900	200	220	2	180
1000	200	220	2	180
200	250	220	1	200
300	250	220	1	200
400	250	220	1	200
500	250	220	1	200
600	250	220	2	150
700	250	220	2	150
800	250	220	2	150
900	250	220	2	180
1000	300	220	2	180
300	300	260	1	250
400	300	260	1	250
500	300	260	1	250
600	300	260	2	160
700	300	260	2	160
800	300	260	2	160
900	300	260	2	200
1000	300	260	2	200
400	400	260	1	350
500	400	260	1	350
600	400	260	2	160
700	400	260	2	160
800	400	260	2	160
900	400	260	2	200
1000	400	260	2	200
515	515	150	1	250
563	563	270	1	350



STANDARD GRILLE



GRILLE WITH FILTERHOLDER FRAME



For S = 125 - 160 - 200 - 250 connection in ABS - steel on request
For other diameters connection in steel

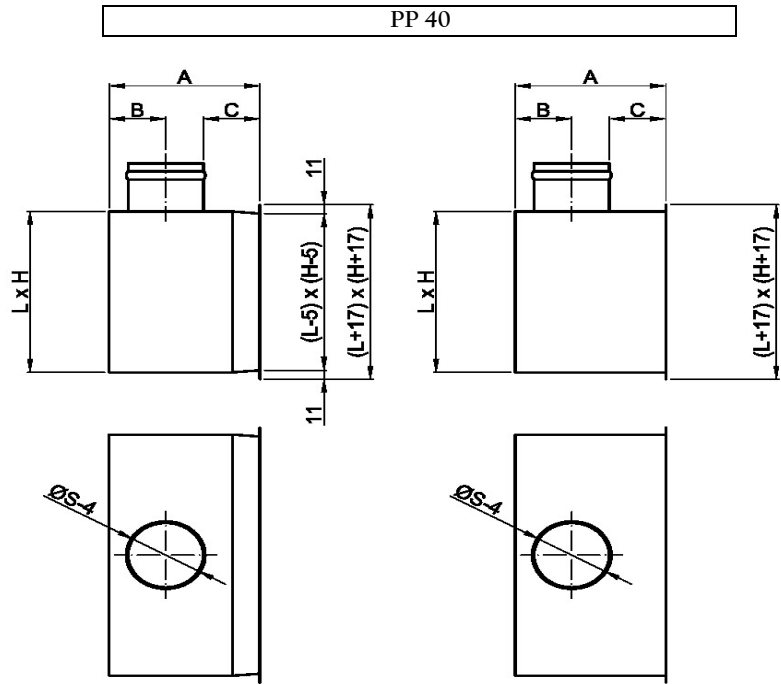


PLENUM FOR
VENTILATION GRILLES

PP 40
SERIES

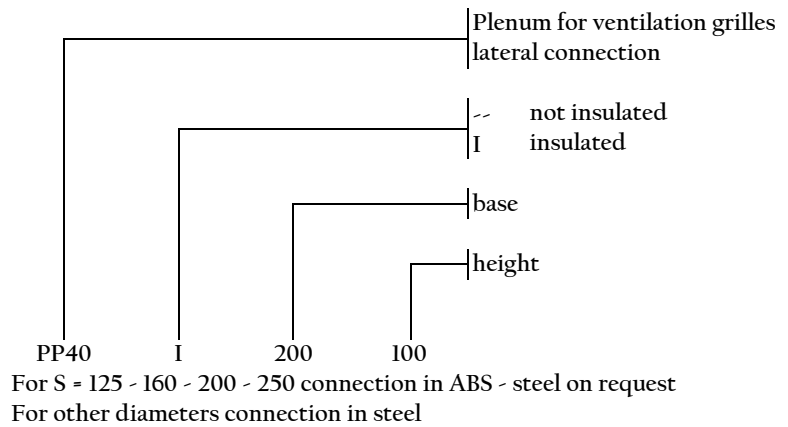
TECHNICAL CHARACTERISTICS

L	H	A	B	C	N°	S
200	100	200	70	80	1	100
300	100	250	95	80	1	150
400	100	250	95	80	1	150
500	100	300	120	80	1	200
600	100	300	120	80	1	200
700	100	350	145	80	1	250
800	100	350	145	80	1	250
200	150	250	95	80	1	150
300	150	300	120	80	1	200
400	150	300	120	80	1	200
500	150	350	145	80	1	250
600	150	350	145	80	1	250
700	150	350	145	80	1	250
800	150	415	178	80	1	315
900	150	415	178	80	1	315
1000	150	415	178	80	1	315
200	200	250	95	80	1	150
300	200	250	95	80	1	150
400	200	350	145	80	1	250
500	200	350	145	80	1	250
600	200	415	178	80	1	315
700	200	415	178	80	1	315
800	200	415	178	80	1	315
900	200	450	195	80	1	350
1000	200	450	195	80	1	350
200	250	300	120	80	1	200
300	250	300	120	80	1	200
400	250	350	145	80	1	250
500	250	350	145	80	1	250
600	250	415	178	80	1	315
700	250	415	178	80	1	315
800	250	415	178	80	1	315
900	250	450	195	80	1	350
1000	250	450	195	80	1	350
300	300	350	145	80	1	250
400	300	415	178	80	1	315
500	300	450	195	80	1	350
600	300	450	195	80	1	350
700	300	450	195	80	1	350
800	300	450	195	80	1	350
900	300	500	220	80	1	400
1000	300	500	220	80	1	400
400	400	450	195	80	1	350
500	400	450	195	80	1	350
600	400	450	195	80	1	350
700	400	450	195	80	1	350
800	400	450	195	80	1	350
900	400	500	220	80	1	400
1000	400	500	220	80	1	400
515	515	320	145	50	1	250
563	563	450	195	80	1	350



STANDARD
GRILLE

GRILLE
WITH FILTERHOLDER
FRAME





CONTROL DAMPERS

SC SERIES

OVERVIEW TECHNICAL CHARACTERISTICS

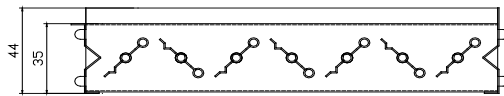
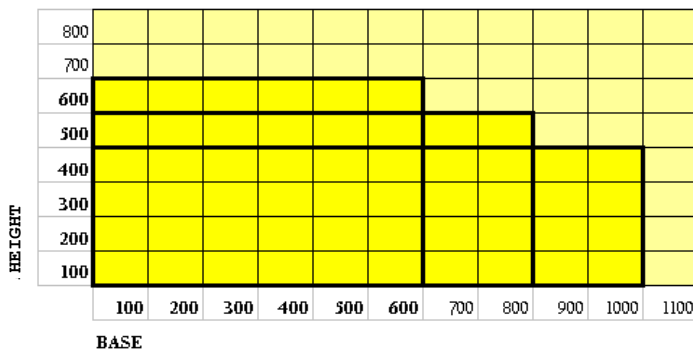
OVERVIEW AND CHARACTERISTICS :

The contrast control dampers of SC series can be fitted to UF KG UM UR GI KN e CR-KN series . They are held in place by special patented clips, designed both for fitting the damper to the grill and for fitting it on a false frame.

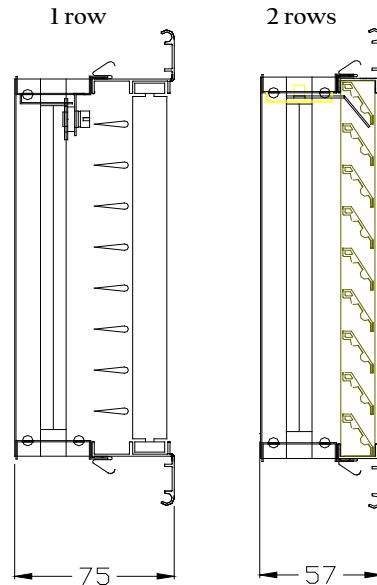
The SC series dampers are made entirely of galvanised steel and have a mechanism for moving and closing all the blades simultaneously.

This mechanism is a simple longitudinal plate that links all the blades, and can be removed by unscrewing a nut using a screwdriver. The careful design, precise assembly, and the quality of the materials used, make this an economical, practical, and efficient component.

Contrast control damper- dimensions that can be created in a single solution



Contrast control damper - overall dimensions



Contrast control damper -detail of patented fixing clips





COUNTERFRAMES FOR SUPPLY AND RETURN GRILLES

UTC
SERIES

OVERVIEW

OVERVIEW

The UTC series counterframes used for supply and return grilles are a strong frame on which the fixing clips can rest. They are required if the grilles need to be frequently removed for cleaning, inspection, filter changing and other similar jobs.

The UTC counterframes can be installed both next to steel ducts and on masonry walls.

Bendable parts are placed inside the fixing agent of the wall and a frame that will be completely hidden from the frame of the grille itself, for fixing by means of screws or rivets to the duct wall.

The use of the counterframe on the side of the steel duct allows the use of grilles with fixing clips rather than with screws, therefore allowing to undertake jobs that require removing and reinstalling the grille with the up most simplicity without the need of tools.

The use of the counterframe on masonry walls allows for an almost unlimited number of removals and replacements of the grille without ever damaging or wearing-out the border of the hole made in the wall. The position of the grille can therefore be maintained, precise and secure.

TECHNICAL CHARACTERISTICS

The UTC Series counterframes are made of four separate parts, of galvanized carbon steel sheet, fixable to each other without the need of tools. The parts are completely interchangeable as the particular system of connection eliminated the need to distinguish between horizontal and vertical parts and with between left and right parts.

As shown in the illustration, the necessary space for the counterframe needs to be 5mm more than the nominal size of the grille.

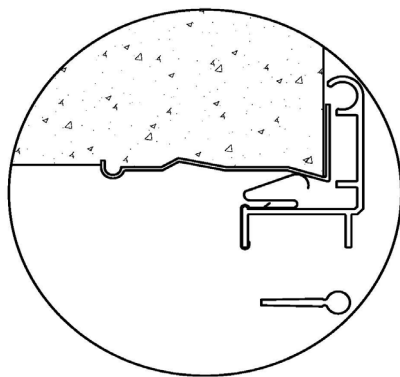
The parts are supplied unassembled, the complete interchangeability helps to easily manage the parts kept in stock.

AVAILABLE SIZES

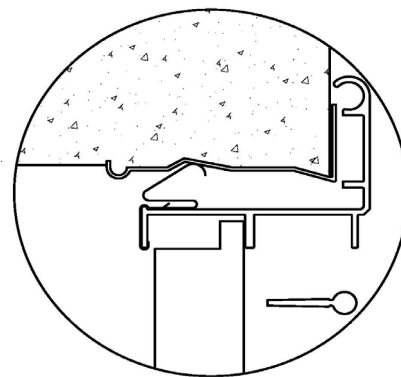
The available sizes for each part range from 100mm up to a maximum of 1400mm, in multiples of 50mm.

Special sizes are also available on request.

By composing the various sizes, all the necessary sizes are achievable.



Mounting with single deflection grille



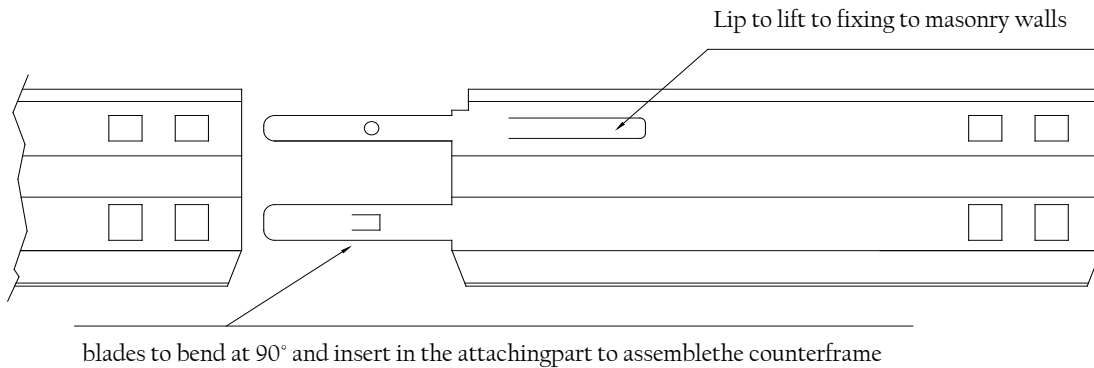
Mounting with double deflection grille



COUNTERFRAMES FOR SUPPLY AND RETURN GRILLES

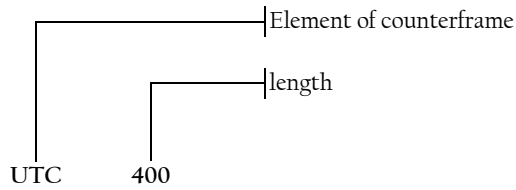
UTC
SERIES

OVERVIEW



Detail of the fixing method between parts

This system allows to quickly assemble the counterframe, even during the construction phase.



Example:

To order a counterframe for a 400x200mm grille, request:

UTC-400 - 2 pieces

UTC-200 - 2 pieces

To order a counterframe for a 300x300 grille, request:

UTC-300 - 4 pieces

COUNTERFRAME SIZES WITH AVAILABLE PARTS KEPT IN STOCK																
HEIGHT H																
	1000															
	900															
	800															
	700															
	600															
	563															
	500															
	450															
	400															
	350															
	300															
	250															
	200															
	150															
	100															
		100	150	200	250	300	350	400	450	500	563	600	700	800	900	1000
		BASE B														

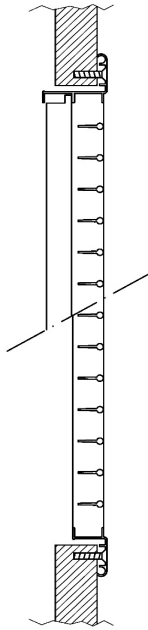
The 563x563 size is for grilles with a 595x595mm outside frame measurement, used for modular counterceilings.



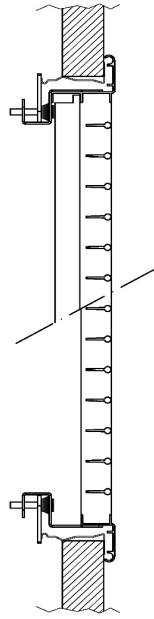
QUICK INSTALLING

U-FIX SERIES

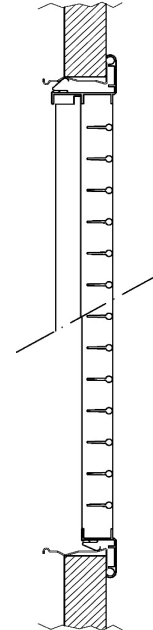
OVERVIEW



Grille with
visible screw fixing



Grille with
hidden screw fixing



Grille with
friction springs

All the fixing methods are available for all the models of grille, with one or two rows of fins

UM	
UF	
UQ	
UH	
KG	

New fixing with hidden screw

The new U-FIX kit allows a quick fixing of the shown grids to the counterframe simply rotating a hidden screw behind the front fins.

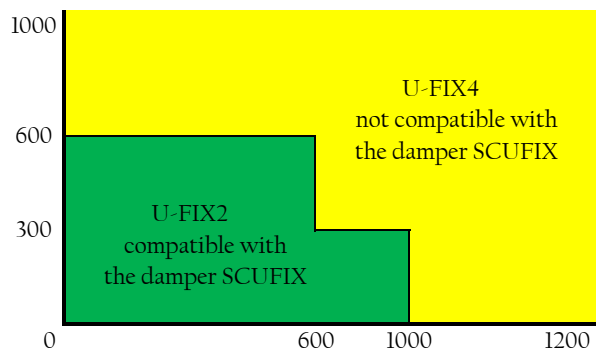
The kit is suitable for grilles with two rows or a single row of fins.

This solution allows you to quickly disassemble and reassemble the grid for any cleaning or maintenance.

The kit consists of two or four hardware, depending on the size of the grid.

The kit comes already assembled on the grid.

For the sizes up to 1000x300 and 600x600 it is possible to provide an SC damper mounted during manufacturing on the grid frame.

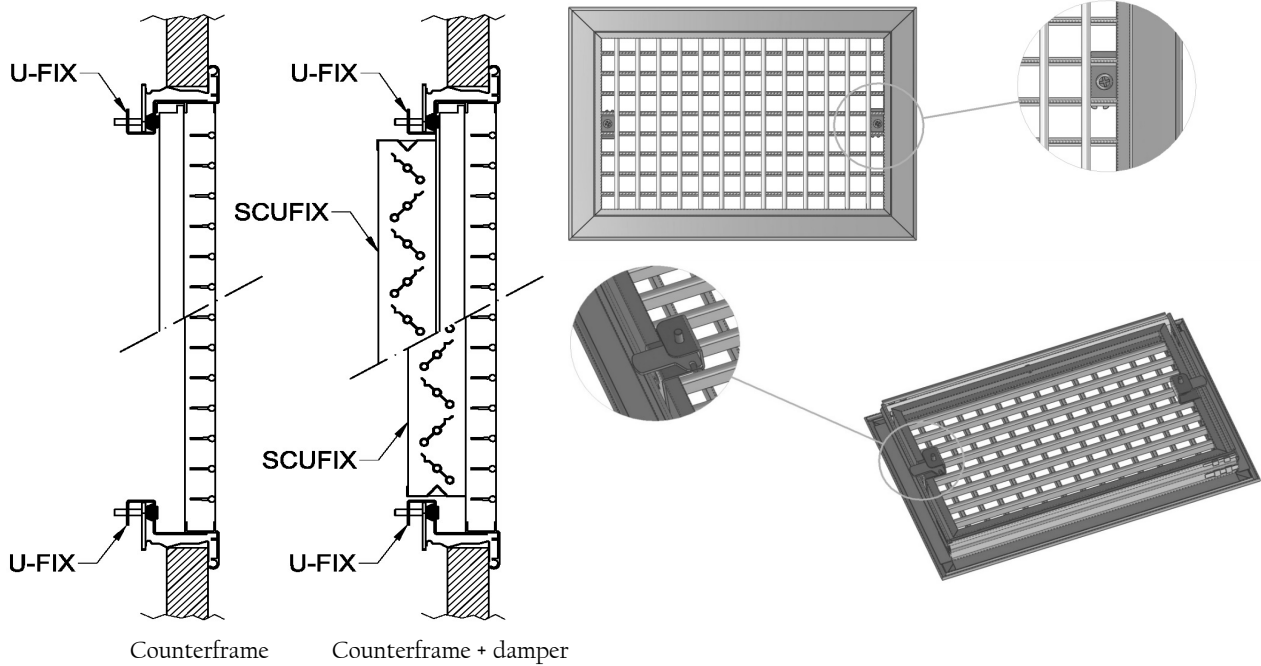




QUICK INSTALLING

U-FIX SERIES

OVERVIEW



HOW TO ORDER

The code of the grid must be with "clips configuration" (not with "holes configuration").

Standard clips will not be provided in presence of U-FIX kit mounted.

The counterframe must be ordered according to standard counterframe dimension.

In case of regulation damper request, please use the specific code SCUFIX

ORDER EXAMPLES

Grid UM 400x200mm with U-FIX and counterframe

- | | | | |
|----|-------------|------|---|
| 1) | UMIHC400200 | q.ty | 1 |
| 2) | U-FIX2 | q.ty | 1 |
| 3) | UTCC0400200 | q.ty | 1 |

Grid UM 700x400mm with U-FIX and counterframe

- | | | | |
|----|-------------|------|---|
| 1) | UMIHC700400 | q.ty | 1 |
| 2) | U-FIX4 | q.ty | 1 |
| 3) | UTCC0700400 | q.ty | 1 |

Grid UM 400x200mm with U-FIX, counterframe and regulation damper

- | | | | |
|----|--------------|------|---|
| 1) | UMIHC400200 | q.ty | 1 |
| 2) | U-FIX2 | q.ty | 1 |
| 3) | UTCC0400200 | q.ty | 1 |
| 4) | SCUFIX400200 | q.ty | 1 |