



LINEAR GRILLE WITH FIXED BLADES

UF SERIES

OVERVIEW TECHNICAL CHARACTERISTICS

CHARACTERISTICS :

The UF linear grilles with fixed blades are used in the ventilation and air conditioning systems, both for ceiling and wall installation.

They are suitable for floor mounting and for application on fan-coils; as they are appropriate for both ventilation and aspiration, it is possible to maintain the same structure for each application. Moreover the possibility of composition is another important characteristic that permits to obtain continue air flow in large environments without changing the aesthetic figure. The grille door, which does not change the design of the grille, represents a simple way to access to the command keys.

TECHNICAL CHARACTERISTICS :

The fixed blades can have two different profiles: with 0° degree deflection or with 15° degree deflection, which permit to obtain different flow directions. For this reason this type of grilles can be furnished with a second row of individually adjustable blades. Moreover, MP3 can supply this product with or without frame which means only the core. Depending on the specific functional and application requirements, three types of frame profiles are available, each of them can be equipped with the grille door. The UF grilles are made of anodized extruded aluminium and the fixed blades are to be considered as horizontal and therefore parallel to the base (usually the upper measure). The position of the door has always to be considered as referred to the grille seen from a frontal view and with turned down 15° degree blades. This consideration is not necessary in case of grilles set of 0° pitch blades or with two doors.

CONSTRUCTION :

Here below are indicated the maximum and minimum built dimensions, available models and the relative technical draws.

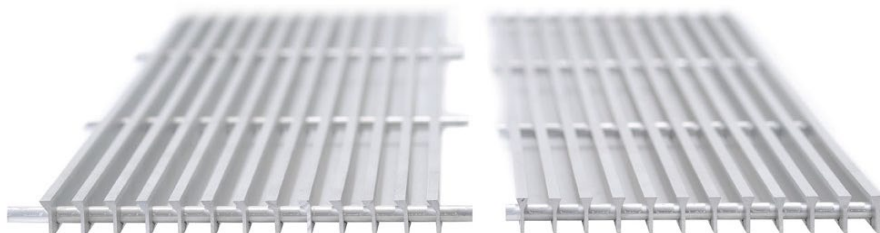
UNSUITABLE ENVIRONMENTS

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.

MINIMAL ASSEMBLY MEASUREMENTS	200 x 75 mm
MAXIMUM ASSEMBLY MEASUREMENTS	2,000 x 600 mm
2 PARTS ASSEMBLY	Height from 75 to 250 mm Base from 2,001 to 4,000 mm
MULTIPLE PARTS ASSEMBLY	Height from 75 to 250 mm Base more than 4,000 mm Minimum length of each part 400mm

STANDARD ASSEMBLE MEASUREMENTS

< 4.000 mm	In 2 equal parts
4.100 mm	1.500 + 1.100 + 1.500
.....	1.500 + + 1.500
5.000 mm	1.500 + 2.000 + 1.500
5.100 mm	2.000 + 1.100 + 2.000
.....	2.000 + + 2.000
6.000 mm	2.000 + 2.000 + 2.000
6.100 mm	2.000 + 1.000 + 1.100 + 2.000
6.200 mm	2.000 + 1.100 + 1.100 + 2.000
.....	2.000 + + + 2.000
7.000 mm	2.000 + 1.500 + 1.500 + 2.000
7.100 mm	2.000 + 2.000 + 1.100 + 2.000
.....	2.000 + 2.000 + + 2.000
8.000 mm	2.000 + 2.000 + 2.000 + 2.000
8.100 mm	2.000 + 2.000 + 1.000 + 1.100 + 2.000
.....	2.000 + 2.000 + 1.000 + + 2.000
9.000 mm	2.000 + 2.000 + 1.000 + 2.000 + 2.000
9.100 mm	2.000 + 2.000 + 1.100 + 2.000 + 2.000
.....	2.000 + 2.000 + + 2.000 + 2.000
10.000 mm	2.000 + 2.000 + 2.000 + 2.000 + 2.000





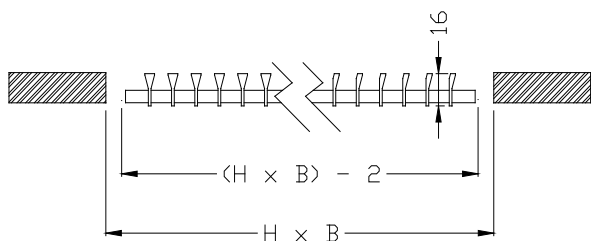
LINEAR GRILLE WITH FIXED BLADES

UF
SERIES

CONSTRUCTION

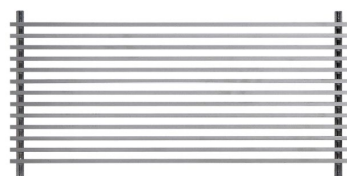
UF 0

Grille with horizontal fixed blades with deflection angle 0° without frame.



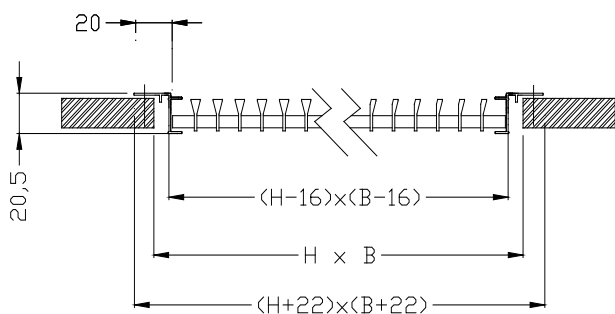
UF 1

Grille with horizontal fixed blades with deflection angle 15° without frame.



UF 0 B

Grille with horizontal fixed blades with deflection angle 0° with flat frame.



UF 1 B

Grille with horizontal fixed blades with deflection angle 15° with flat frame.

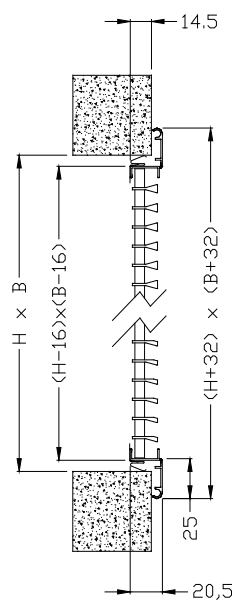


UF 0 A

Grille with horizontal fixed blades with deflection angle 0° with high frame.

UF 1 A

Grille with horizontal fixed blades with deflection angle 15° with high frame.





LINEAR GRILLE WITH FIXED BLADES

UF
SERIES

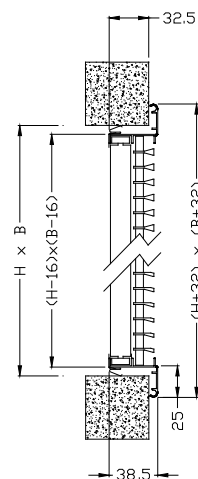
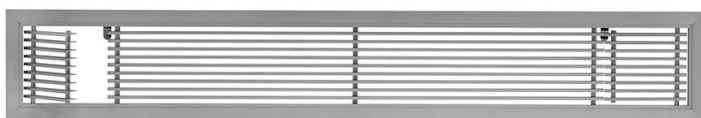
CONSTRUCTION

UF 0 AH

Grille with horizontal fixed blades with deflection angle 0° with high frame and back adjustable vertical blades.

UF 1 AH

Grille with fixed horizontal blades, deflection angle 15° with high frame and internal group of adjustable vertical blades.



UF 0 A P1

UF 1 A PD

UF 1 A PS

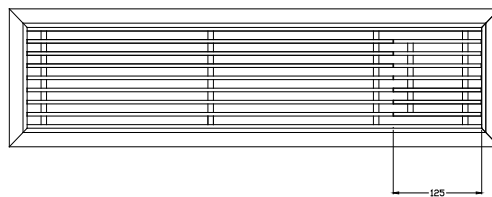
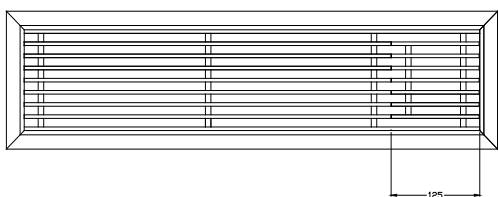
Grille with horizontal fixed blades and deflection angle $0^\circ/15^\circ$, with high frame and grille door. In case of fixed blades with deflection angle 15° the position of the door on the left or right side is to be considered as seen from a frontal point of view with turned down deflection.

UF 0 B P1

UF 1 B PD

UF 1 B PS

Grille with horizontal fixed blades and deflection angle $0^\circ/15^\circ$, with low frame and grille door. In case of fixed blades with deflection angle 15° the position of the door on the left or right side is to be considered as seen from a frontal point of view with turned down deflection.



UF 0 A P2

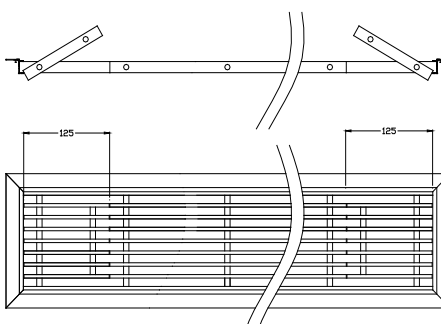
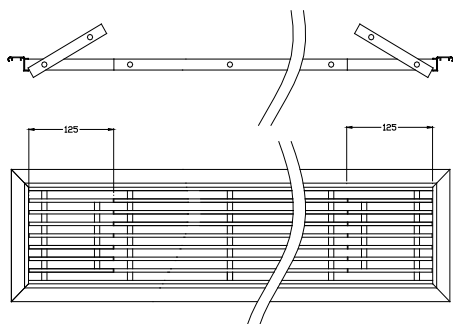
UF 1 A P2

Grille with fixed horizontal blades with deflection angle of $0^\circ/15^\circ$, with high frame and double gridded gate.

UF 0 B P2

UF 1 B P2

Grille with fixed horizontal bars, with deflection angle $0^\circ/15^\circ$, with flat frame and double gridded gate.





LINEAR GRILLE WITH FIXED BLADES

FILTERHOLDER
WASHABLE FILTER - COMPASS OPENING

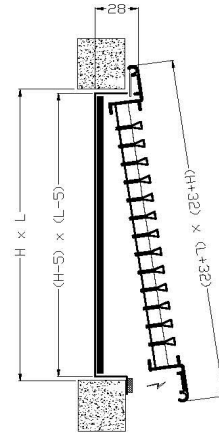
UF0A 2
UF0A 3
UF0A 4
UF0A 5
SERIES

UF0A 2: with filter holder for washable filter (initial thickness 15 mm), hinge opening system on top side (maximum angle 85°) and magnet on bottom side. Installation on wall, not ceiling-mounted

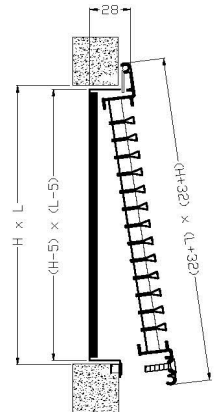
UF0A 3: with filter holder for washable filter (initial thickness 15 mm), hinge opening system on top side (maximum angle 85°) and screws on bottom side. Installation on wall or ceiling

UF0A 4: with filter holder for washable filter (initial thickness 15 mm), hinge opening system on top side (maximum angle 85°) and knobs on bottom side. Installation on wall or ceiling

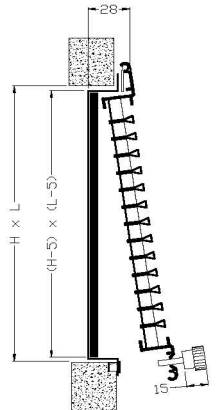
UF0A 5: with filter holder for washable filter (initial thickness 15 mm), Installation on false ceiling, opening system with knobs (optional with screws).



UF0A 2: closing with magnet
not ceiling mounted



UF0A 3: closing with screws



UF0A 4: closing with knobs



LINEAR GRILLE WITH FIXED BLADES

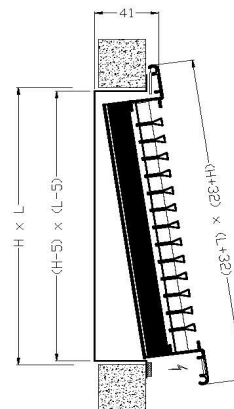
FILTERHOLDER
RIGID FILTER - COMPASS OPENING

UF0A 12
UF0A 13
UF0A 14
SERIES

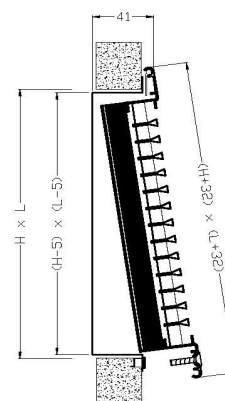
UF0A 12: with filter holder frame for rigid filter (thickness 15 mm), hinge opening system on top side (maximum angle 85°) and magnet on bottom side. Installation on wall, not ceiling-mounted

UF0A 13: with filter holder frame for rigid filter (thickness 15 mm), hinge opening system on top side (maximum angle 85°) and screws on bottom side. Installation on wall or ceiling

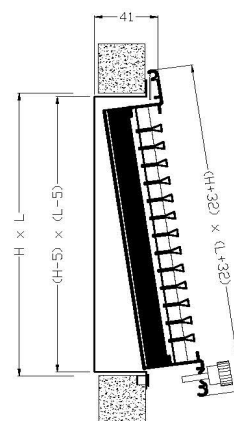
UF0A 14: with filter holder frame for rigid filter (thickness 15 mm), hinge opening system on top side (maximum angle 85°) and knobs on bottom side. Installation on wall or ceiling



UF0A 12: closing with magnet
not ceiling mounted



UF0A 13: closing with screw



UF0A 14: closing with knob



LINEAR GRILLE WITH FIXED BLADES

FILTERHOLDER
WASHABLE FILTER - PULL-OUT OPENING

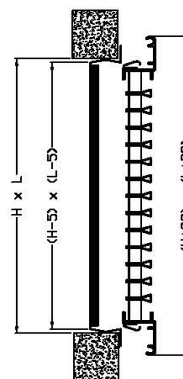
UF0A 21
UF0A 22
UF0A 23
UF0A 24
SERIES

UF0A 21: with filter holder for washable filter (initial thickness 15 mm),
opening system : clips on both sides.
Installation on wall, not ceiling-mounted

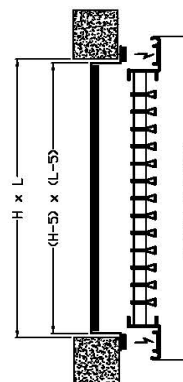
UF0A 22: with filter holder for washable filter (initial thickness 15 mm),
opening system : magnets on both sides.
Installation on wall, not ceiling-mounted

UF0A 23: with filter holder for washable filter (initial thickness 15 mm),
opening system : screws on both sides.
Installation on wall or ceiling.

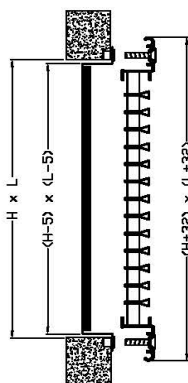
UF0A 24: with filter holder for washable filter (initial thickness 15 mm),
opening system : knobs on both sides.
Installation on wall or ceiling.



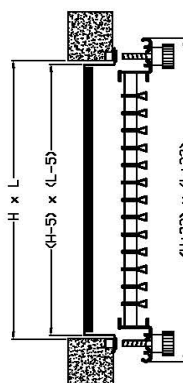
UF0A 21: closing with clips
not ceiling mounted



UF0A 22: closing with magnets
not ceiling mounted



UF0A 23: closing with screws



UF0A 24: closing with knobs



LINEAR GRILLE
WITH FIXED BLADES
WITHOUT FRAME

EFFECTIVE AREA a_k

UF
SERIES

		Base									
		200	250	300	350	400	450	500	550	600	650
Height	75	0,0140	0,0174	0,0209	0,0244	0,0279	0,0314	0,0349	0,0384	0,0419	0,0453
	100	0,0186	0,0233	0,0279	0,0326	0,0372	0,0419	0,0465	0,0512	0,0558	0,0605
	150	0,0279	0,0349	0,0419	0,0488	0,0558	0,0628	0,0698	0,0767	0,0837	0,0907
	200	0,0372	0,0465	0,0558	0,0651	0,0744	0,0837	0,0930	0,1023	0,1116	0,1209
	250	0,0465	0,0581	0,0698	0,0814	0,0930	0,1046	0,1163	0,1279	0,1395	0,1511
	300	0,0558	0,0698	0,0837	0,0977	0,1116	0,1256	0,1395	0,1535	0,1674	0,1814
	350	0,0651	0,0814	0,0977	0,1139	0,1302	0,1465	0,1628	0,1790	0,1953	0,2116
	400	0,0744	0,0930	0,1116	0,1302	0,1488	0,1674	0,1860	0,2046	0,2232	0,2418
	450	0,0837	0,1046	0,1256	0,1465	0,1674	0,1883	0,2093	0,2302	0,2511	0,2720
	500	0,0930	0,1163	0,1395	0,1628	0,1860	0,2093	0,2325	0,2558	0,2790	0,3023
	550	0,1023	0,1279	0,1535	0,1790	0,2046	0,2302	0,2558	0,2813	0,3069	0,3325
	600	0,1116	0,1395	0,1674	0,1953	0,2232	0,2511	0,2790	0,3069	0,3348	0,3627

		Base									
		700	750	800	850	900	950	1000	1050	1100	1200
Height	75	0,0488	0,0523	0,0558	0,0593	0,0628	0,0663	0,0698	0,0732	0,0767	0,0837
	100	0,0651	0,0698	0,0744	0,0791	0,0837	0,0884	0,0930	0,0977	0,1023	0,1116
	150	0,0977	0,1046	0,1116	0,1186	0,1256	0,1325	0,1395	0,1465	0,1535	0,1674
	200	0,1302	0,1395	0,1488	0,1581	0,1674	0,1767	0,1860	0,1953	0,2046	0,2232
	250	0,1628	0,1744	0,1860	0,1976	0,2093	0,2209	0,2325	0,2441	0,2558	0,2790
	300	0,1953	0,2093	0,2232	0,2372	0,2511	0,2651	0,2790	0,2930	0,3069	0,3348
	350	0,2279	0,2441	0,2604	0,2767	0,2930	0,3092	0,3255	0,3418	0,3581	0,3906
	400	0,2604	0,2790	0,2976	0,3162	0,3348	0,3534	0,3720	0,3906	0,4092	0,4464
	450	0,2930	0,3139	0,3348	0,3557	0,3767	0,3976	0,4185	0,4394	0,4604	0,5022
	500	0,3255	0,3488	0,3720	0,3953	0,4185	0,4418	0,4650	0,4883	0,5115	0,5580
	550	0,3581	0,3836	0,4092	0,4348	0,4604	0,4859	0,5115	0,5371	0,5627	0,6138
	600	0,3906	0,4185	0,4464	0,4743	0,5022	0,5301	0,5580	0,5859	0,6138	0,6696

		Base									
		1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
Height	75	0,0872	0,0907	0,0942	0,0977	0,1011	0,1046	0,1081	0,1116	0,1151	0,1186
	100	0,1163	0,1209	0,1256	0,1302	0,1349	0,1395	0,1442	0,1488	0,1535	0,1581
	150	0,1744	0,1814	0,1883	0,1953	0,2023	0,2093	0,2162	0,2232	0,2302	0,2372
	200	0,2325	0,2418	0,2511	0,2604	0,2697	0,2790	0,2883	0,2976	0,3069	0,3162
	250	0,2906	0,3023	0,3139	0,3255	0,3371	0,3488	0,3604	0,3720	0,3836	0,3953
	300	0,3488	0,3627	0,3767	0,3906	0,4046	0,4185	0,4325	0,4464	0,4604	0,4743
	350	0,4069	0,4232	0,4394	0,4557	0,4720	0,4883	0,5045	0,5208	0,5371	0,5534
	400	0,4650	0,4836	0,5022	0,5208	0,5394	0,5580	0,5766	0,5952	0,6138	0,6324
	450	0,5231	0,5441	0,5650	0,5859	0,6068	0,6278	0,6487	0,6696	0,6905	0,7115
	500	0,5813	0,6045	0,6278	0,6510	0,6743	0,6975	0,7208	0,7440	0,7673	0,7905
	550	0,6394	0,6650	0,6905	0,7161	0,7417	0,7673	0,7928	0,8184	0,8440	0,8696
	600	0,6975	0,7254	0,7533	0,7812	0,8091	0,8370	0,8649	0,8928	0,9207	0,9486

		Base					
		1750	1800	1850	1900	1950	2000
Height	75	0,1221	0,1256	0,1290	0,1325	0,1360	0,1395
	100	0,1628	0,1674	0,1721	0,1767	0,1814	0,1860
	150	0,2441	0,2511	0,2581	0,2651	0,2720	0,2790
	200	0,3255	0,3348	0,3441	0,3534	0,3627	0,3720
	250	0,4069	0,4185	0,4301	0,4418	0,4534	0,4650
	300	0,4883	0,5022	0,5162	0,5301	0,5441	0,5580
	350	0,5696	0,5859	0,6022	0,6185	0,6347	0,6510
	400	0,6510	0,6696	0,6882	0,7068	0,7254	0,7440
	450	0,7324	0,7533	0,7742	0,7952	0,8161	0,8370
	500	0,8138	0,8370	0,8603	0,8835	0,9068	0,9300
	550	0,8951	0,9207	0,9463	0,9719	0,9974	1,0230
	600	0,9765	1,0044	1,0323	1,0602	1,0881	1,1160





LINEAR GRILLE WITH FIXED BLADES WITH FRAME

EFFECTIVE AREA a_k

UF
SERIES

		Base									
		200	250	300	350	400	450	500	550	600	650
Height	75	0,0065	0,0085	0,0104	0,0124	0,0143	0,0163	0,0182	0,0202	0,0221	0,0241
	100	0,0104	0,0135	0,0166	0,0198	0,0229	0,0260	0,0291	0,0322	0,0353	0,0384
	150	0,0182	0,0236	0,0291	0,0345	0,0399	0,0454	0,0508	0,0563	0,0617	0,0671
	200	0,0259	0,0337	0,0415	0,0492	0,0570	0,0648	0,0725	0,0803	0,0881	0,0958
	250	0,0337	0,0438	0,0539	0,0640	0,0741	0,0842	0,0942	0,1043	0,1144	0,1245
	300	0,0415	0,0539	0,0663	0,0787	0,0911	0,1035	0,1160	0,1284	0,1408	0,1532
	350	0,0492	0,0640	0,0787	0,0935	0,1082	0,1229	0,1377	0,1524	0,1672	0,1819
	400	0,0570	0,0741	0,0911	0,1082	0,1253	0,1423	0,1594	0,1765	0,1935	0,2106
	450	0,0648	0,0842	0,1035	0,1229	0,1423	0,1617	0,1811	0,2005	0,2199	0,2393
	500	0,0725	0,0942	0,1160	0,1377	0,1594	0,1811	0,2028	0,2245	0,2463	0,2680
	550	0,0803	0,1043	0,1284	0,1524	0,1765	0,2005	0,2245	0,2486	0,2726	0,2967
	600	0,0881	0,1144	0,1408	0,1672	0,1935	0,2199	0,2463	0,2726	0,2990	0,3254

		Base									
		700	750	800	850	900	950	1000	1050	1100	1200
Height	75	0,0261	0,0280	0,0300	0,0319	0,0339	0,0358	0,0378	0,0397	0,0417	0,0456
	100	0,0416	0,0447	0,0478	0,0509	0,0540	0,0571	0,0603	0,0634	0,0665	0,0727
	150	0,0726	0,0780	0,0835	0,0889	0,0943	0,0998	0,1052	0,1107	0,1161	0,1270
	200	0,1036	0,1114	0,1191	0,1269	0,1347	0,1424	0,1502	0,1580	0,1657	0,1812
	250	0,1346	0,1447	0,1548	0,1649	0,1750	0,1851	0,1952	0,2052	0,2153	0,2355
	300	0,1656	0,1780	0,1905	0,2029	0,2153	0,2277	0,2401	0,2525	0,2649	0,2898
	350	0,1966	0,2114	0,2261	0,2409	0,2556	0,2703	0,2851	0,2998	0,3146	0,3440
	400	0,2277	0,2447	0,2618	0,2789	0,2959	0,3130	0,3300	0,3471	0,3642	0,3983
	450	0,2587	0,2781	0,2975	0,3168	0,3362	0,3556	0,3750	0,3944	0,4138	0,4526
	500	0,2897	0,3114	0,3331	0,3548	0,3765	0,3983	0,4200	0,4417	0,4634	0,5068
	550	0,3207	0,3447	0,3688	0,3928	0,4169	0,4409	0,4649	0,4890	0,5130	0,5611
	600	0,3517	0,3781	0,4044	0,4308	0,4572	0,4835	0,5099	0,5363	0,5626	0,6154

		Base									
		1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
Height	75	0,0475	0,0495	0,0514	0,0534	0,0553	0,0573	0,0593	0,0612	0,0632	0,0651
	100	0,0758	0,0789	0,0821	0,0852	0,0883	0,0914	0,0945	0,0976	0,1008	0,1039
	150	0,1324	0,1379	0,1433	0,1487	0,1542	0,1596	0,1651	0,1705	0,1759	0,1814
	200	0,1890	0,1968	0,2045	0,2123	0,2201	0,2278	0,2356	0,2434	0,2511	0,2589
	250	0,2456	0,2557	0,2658	0,2759	0,2860	0,2961	0,3061	0,3162	0,3263	0,3364
	300	0,3022	0,3146	0,3270	0,3394	0,3519	0,3643	0,3767	0,3891	0,4015	0,4139
	350	0,3588	0,3735	0,3883	0,4030	0,4177	0,4325	0,4472	0,4620	0,4767	0,4914
	400	0,4154	0,4324	0,4495	0,4666	0,4836	0,5007	0,5178	0,5348	0,5519	0,5690
	450	0,4720	0,4914	0,5107	0,5301	0,5495	0,5689	0,5883	0,6077	0,6271	0,6465
	500	0,5286	0,5503	0,5720	0,5937	0,6154	0,6371	0,6588	0,6806	0,7023	0,7240
	550	0,5851	0,6092	0,6332	0,6573	0,6813	0,7053	0,7294	0,7534	0,7775	0,8015
	600	0,6417	0,6681	0,6945	0,7208	0,7472	0,7736	0,7999	0,8263	0,8527	0,8790

		Base					
		1750	1800	1850	1900	1950	2000
Height	75	0,0671	0,0690	0,0710	0,0729	0,0749	0,0768
	100	0,1070	0,1101	0,1132	0,1163	0,1194	0,1226
	150	0,1868	0,1923	0,1977	0,2031	0,2086	0,2140
	200	0,2667	0,2744	0,2822	0,2900	0,2977	0,3055
	250	0,3465	0,3566	0,3667	0,3768	0,3869	0,3970
	300	0,4263	0,4388	0,4512	0,4636	0,4760	0,4884
	350	0,5062	0,5209	0,5357	0,5504	0,5652	0,5799
	400	0,5860	0,6031	0,6202	0,6372	0,6543	0,6714
	450	0,6659	0,6853	0,7047	0,7240	0,7434	0,7628
	500	0,7457	0,7674	0,7891	0,8109	0,8326	0,8543
	550	0,8256	0,8496	0,8736	0,8977	0,9217	0,9458
	600	0,9054	0,9318	0,9581	0,9845	1,0109	1,0372

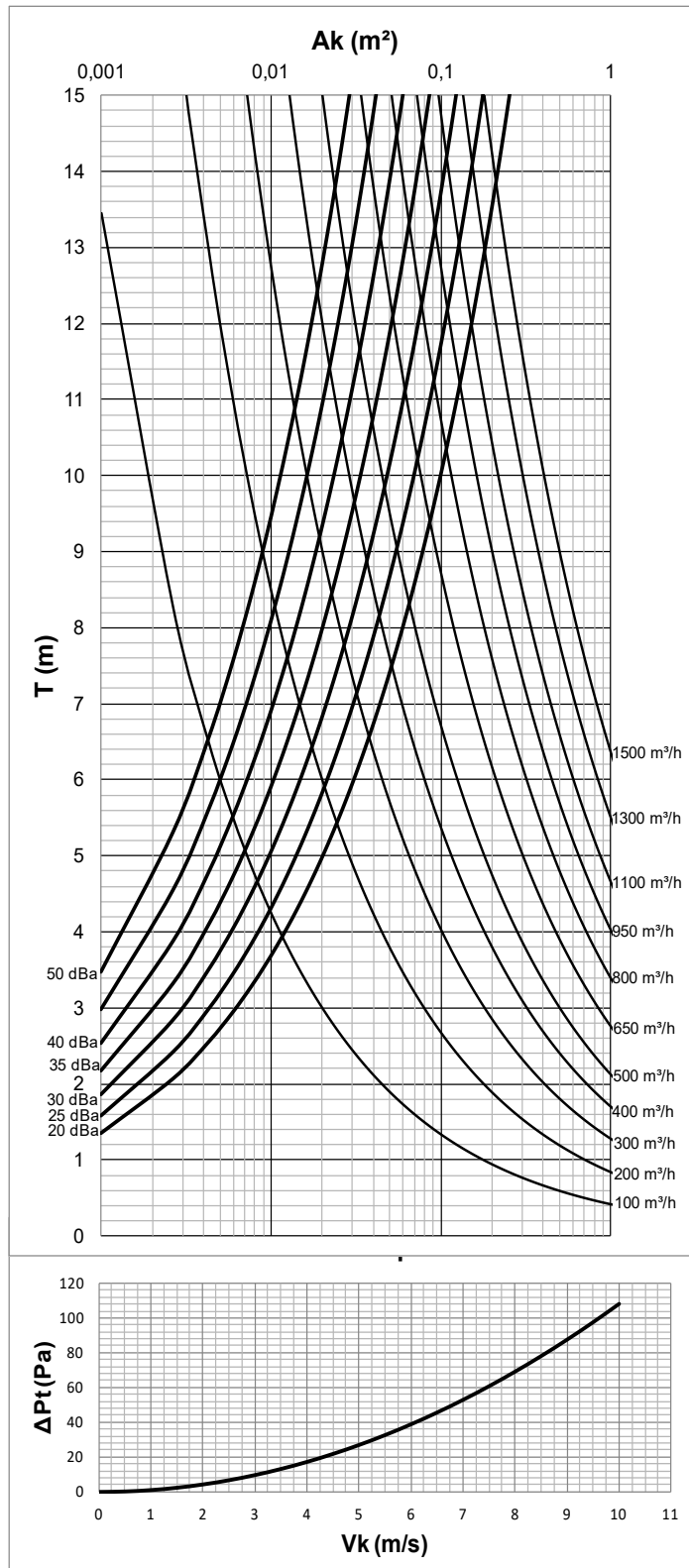




LINEAR GRILLE WITH FIXED BLADES VETICAL THROW - SUPPLY

PERFORMANCE

UFO
SERIES



Ak Effective area (m²)
Q Air Flow (m³/h)
T Throw (m) for Vt=0,2 m/s
Vk Velocity (m/s) in section Ak

$$V_k = Q/3600/A_k$$

Aeraulic data measured in isothermal conditions in accordance with international standard:
ISO 5219 1984: Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.

Acoustic data measured in reverberation room in accordance with international standard:
ISO 3741 1999: Acoustic - determination of sound power levels of noise sources using sound pressure - Precision methods for reverberation rooms

ISO 5135 1997: Acoustic - determination of sound power levels of noise from air-terminal devices; air terminal units; dampers and valves by measurement in a reverberation room.

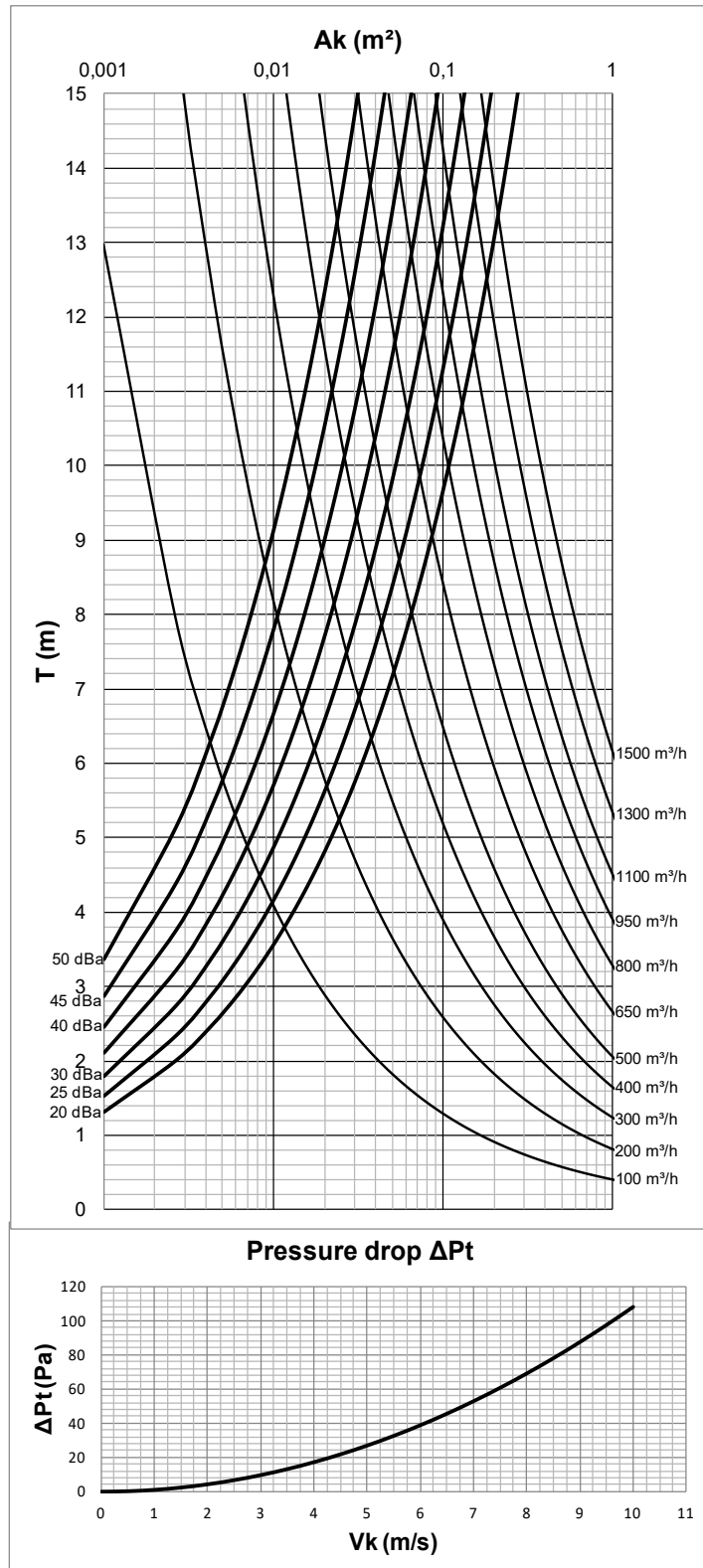
The data in the diagrams does not consider the attenuation due to the installation environment. This attenuation is usually between 6 and 10 dBA and is determined by the size and shape of the environment and the characteristics of the furnishings.



LINEAR GRILLE WITH FIXED BLADES ANGLED THROW - SUPPLY

PERFORMANCE

UF1
SERIES



Ak Effective area (m²)
Q Air Flow (m³/h)
T Throw (m) for Vt=0,2 m/s
Vk Velocity (m/s) in section Ak

$$V_k = Q/3600/Ak$$

Aeraulic data measured in isothermal conditions in accordance with international standard:
ISO 5219 1984: Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.

Acoustic data measured in reverberation room in accordance with international standard:
ISO 3741 1999: Acoustic - determination of sound power levels of noise sources using sound pressure - Precision methods for reverberation rooms

ISO 5135 1997: Acoustic - determination of sound power levels of noise from air-terminal devices; air terminal units; dampers and valves by measurement in a reverberation room.

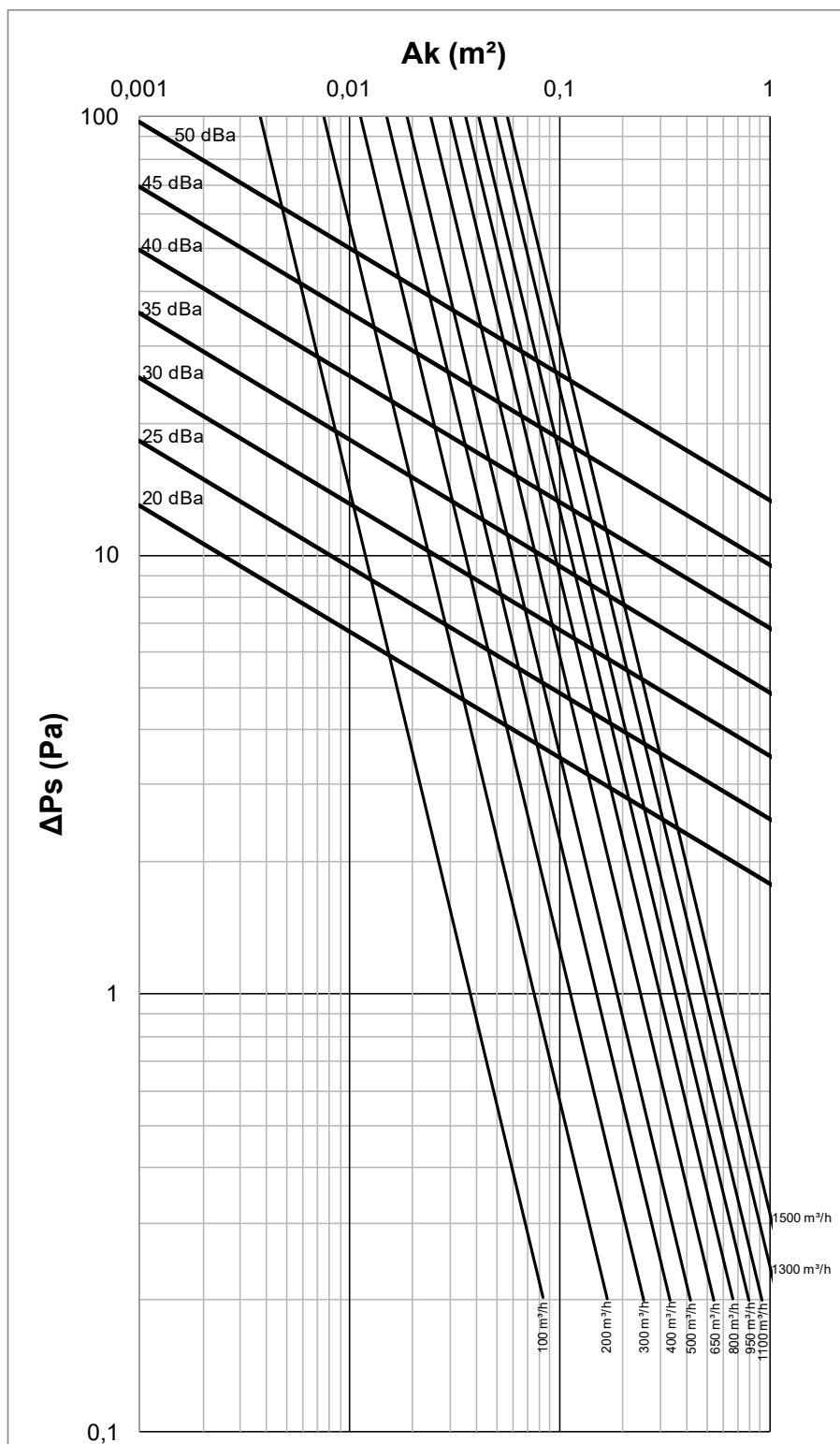
The data in the diagrams does not consider the attenuation due to the installation environment. This attenuation is usually between 6 and 10 dBA and is determined by the size and shape of the environment and the characteristics of the furnishings.



LINEAR GRILLE WITH FIXED BLADES EXTRACTION

PERFORMANCE

UF0-UF1
SERIES

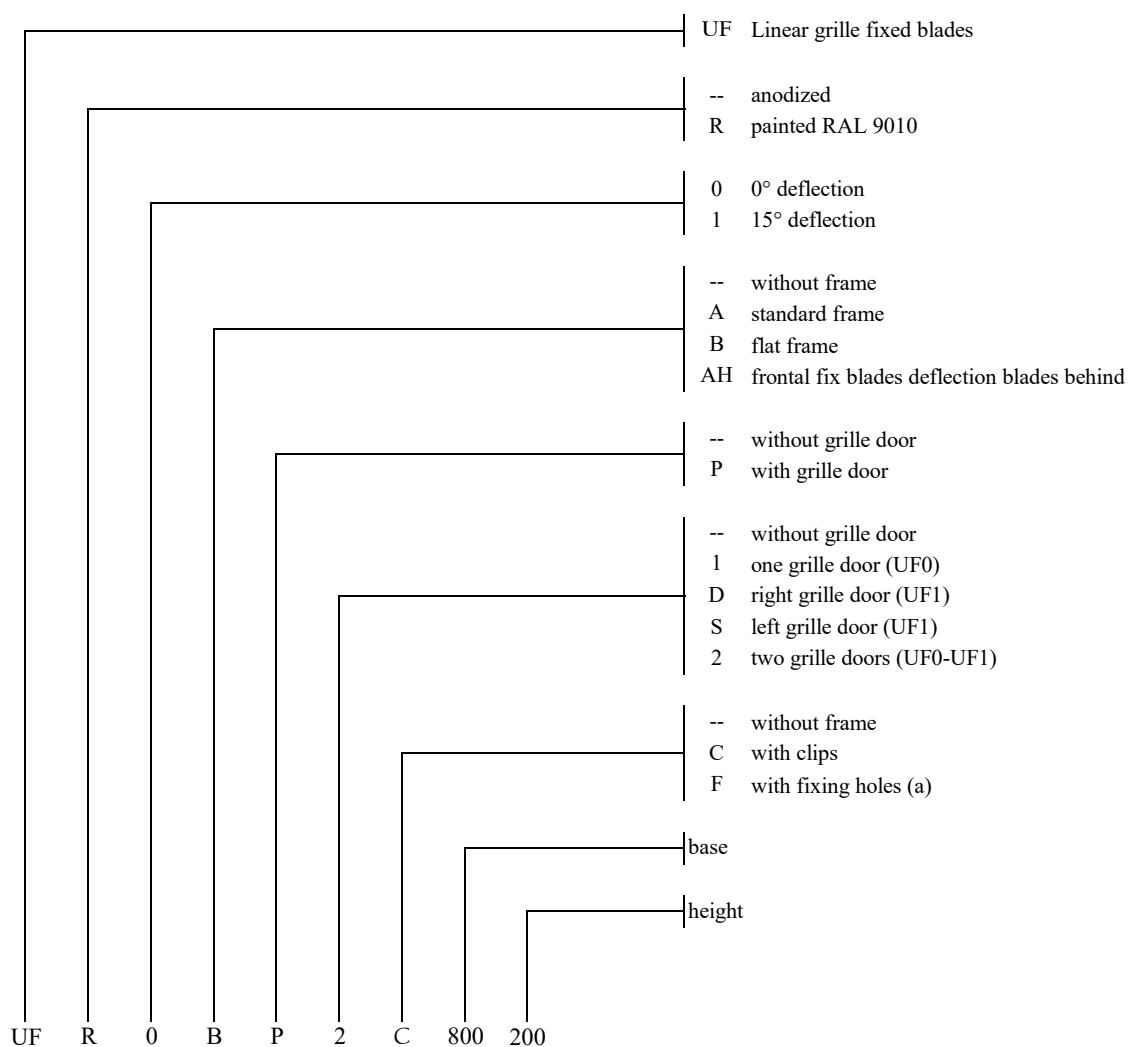




LINEAR GRILLE WITH FIXED BLADES

UF
SERIES

HOW TO ORDER



(a) not available for flat frame versions



VENTILATION GRILLES

UF
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 for UF with standard frame
UTCB Counterframe for UF with flat frame



U-FIX Quick installing



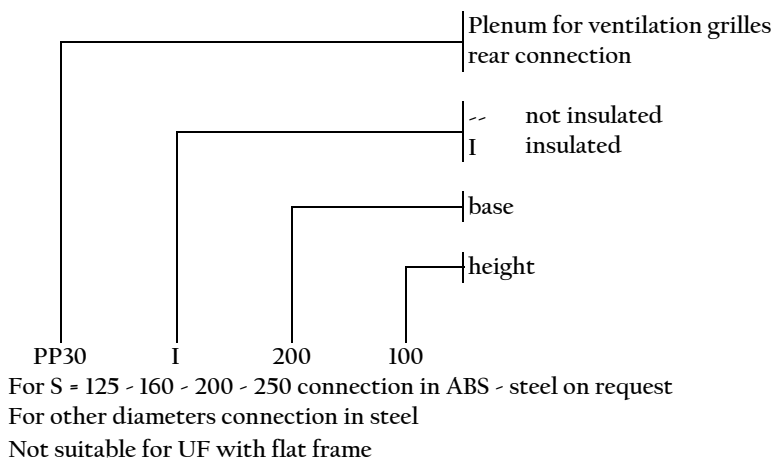
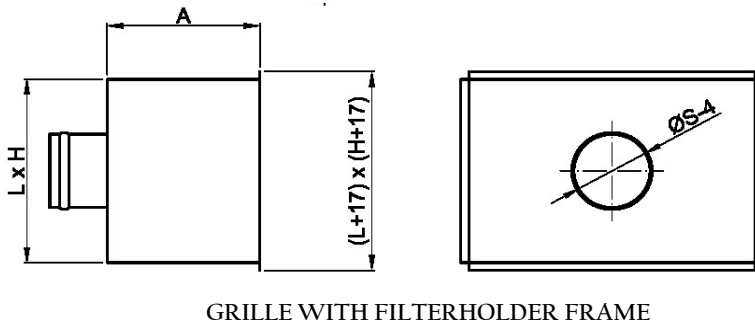
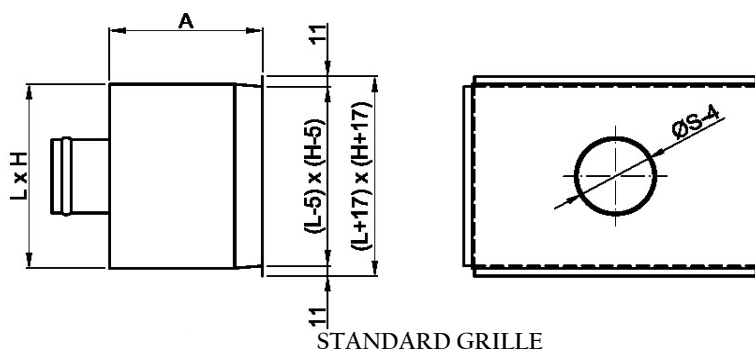
PLENUM FOR VENTILATION GRILLES

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

PP 30



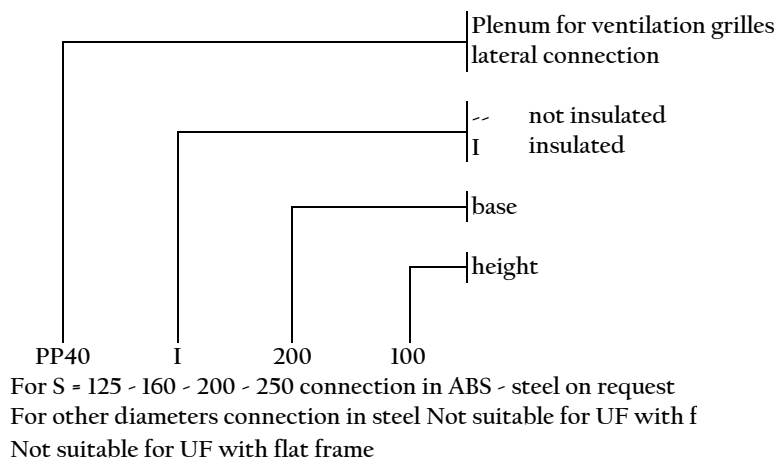
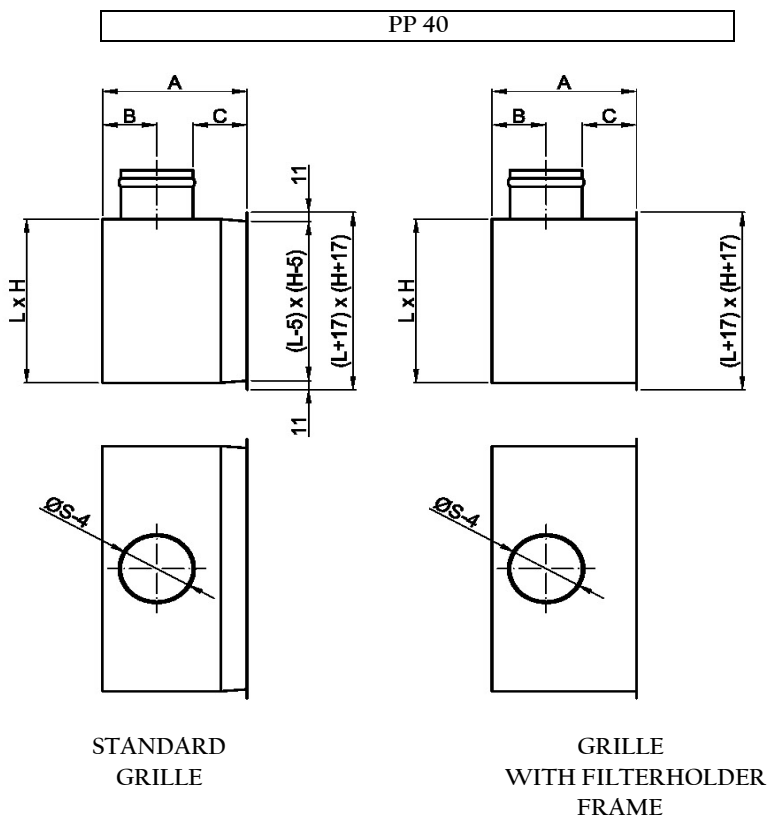


PLENUM FOR VENTILATION GRILLES

TECHNICAL CHARACTERISTICS

PP 40
SERIES

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





CONTROL DAMPERS

SC SERIES

OVERVIEW TECHNICAL CHARACTERISTICS

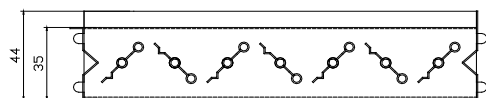
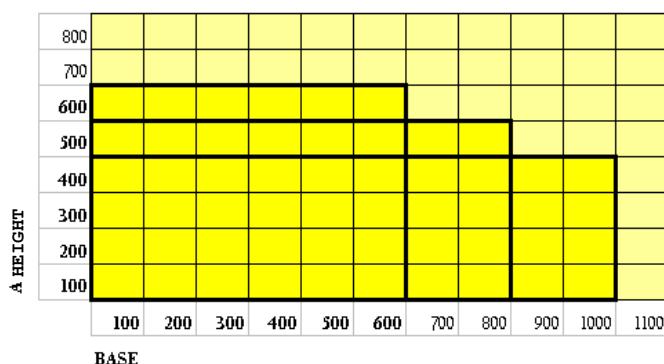
OVERVIEW AND CHARACTERISTICS :

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.

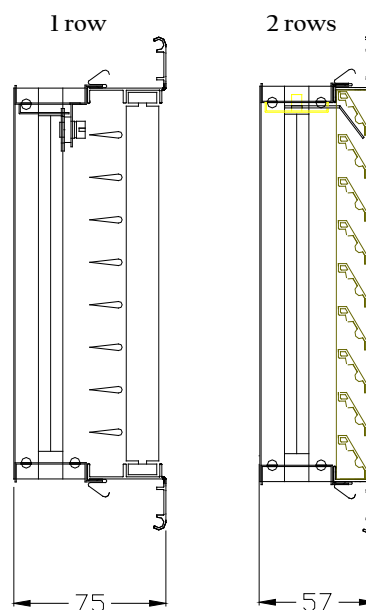
The SC series dampers are made entirely of galvanised steel and have a mechanism for moving and closing all the blades simultaneously.

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.

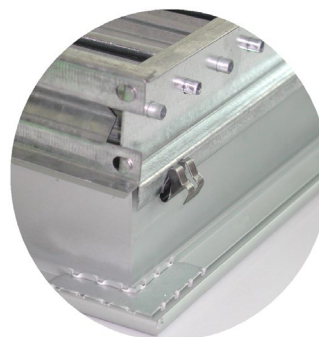
Contrast control damper- dimensions that can be created in a single solution

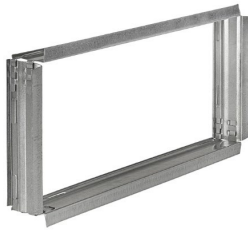


Contrast control damper - overall dimensions



Contrast control damper -detail of patented fixing clips





COUNTERFRAMES FOR SUPPLY AND RETURN GRILLES

OVERVIEW

UTC
UTCB
SERIES

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.

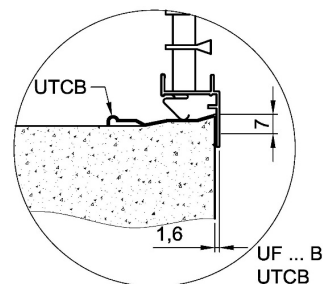
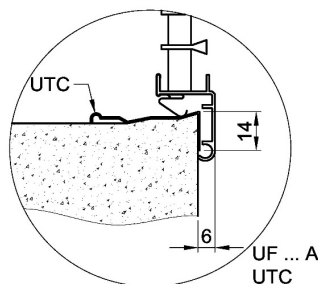
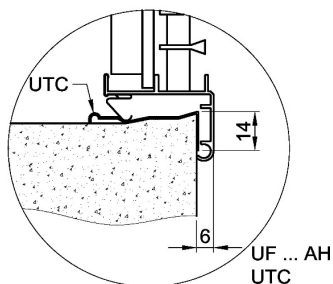
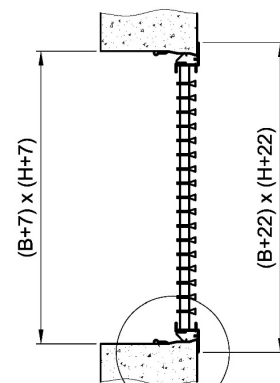
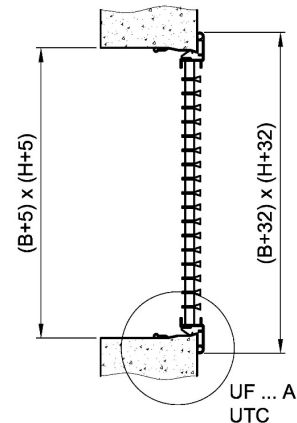
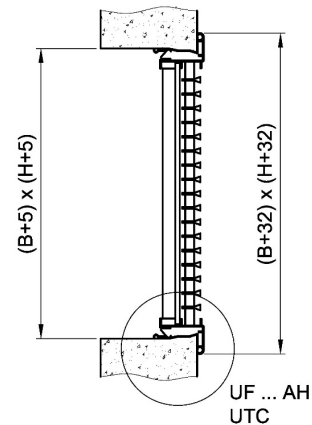
The parts are supplied unassembled, the complete inter-changeability helps to easily manage the parts kept in stock.

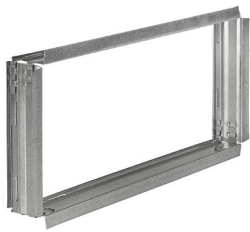
AVAILABLE SIZES

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.

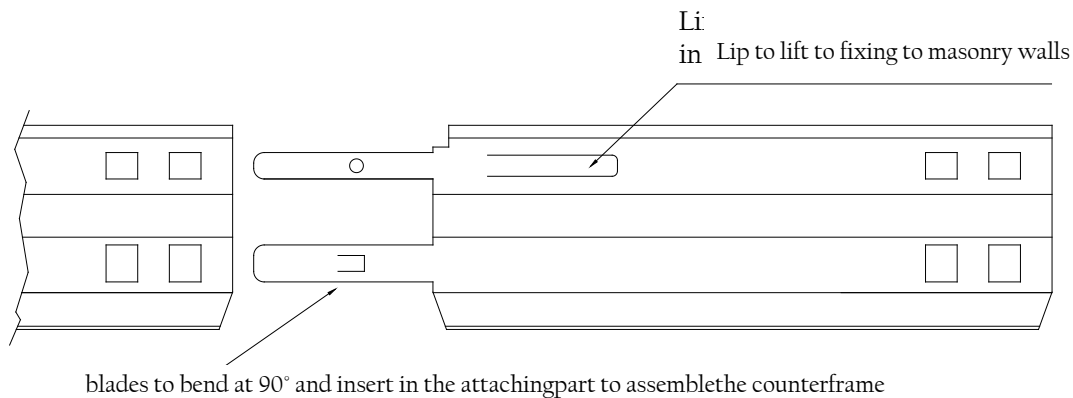




COUNTERFRAMES FOR SUPPLY AND RETURN GRILLES

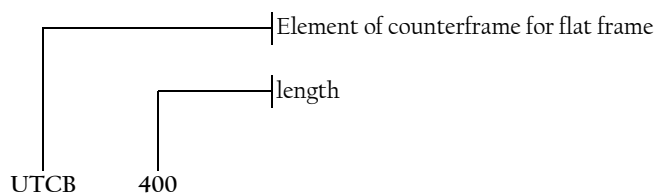
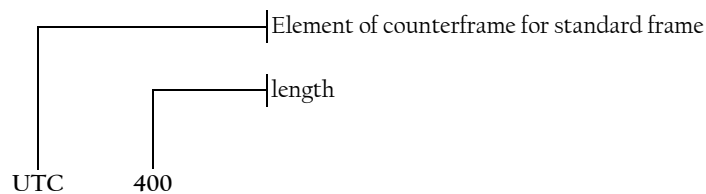
OVERVIEW

UTC
UTCB
SERIES



Detail of the fixing method between parts

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



Example

For the counterframe of a UF ... A o UF ... AH 400x200mm order:

UTC-400 - 2 pieces

UTC-200 - 2 pieces

Per il controtelaio di una UF ... A o UF ... AH 300x300mm ordinare:

UTC-300 - 4 pezzi

For the counterframe of a UF ... B 400x200mm order:

UTCB-400 - 2 pieces

UTCB-200 - 2 pieces

For the counterframe of a UF ... B 300x300mm order:

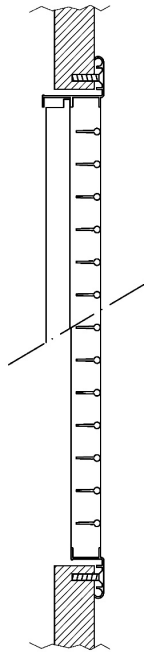
UTCB-300 - 4 pieces



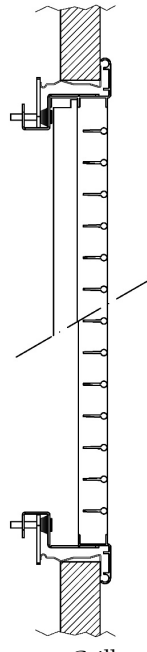
QUICK INSTALLING

U-FIX SERIES

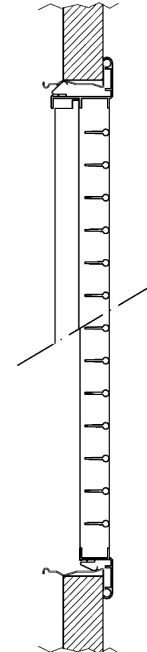
OVERVIEW



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.

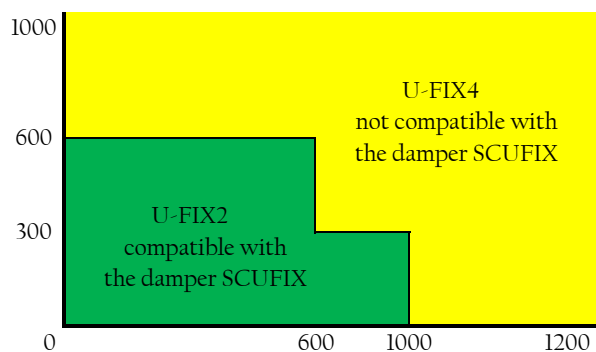
The kit is suitable for grilles with two rows or a single row of fins.

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.

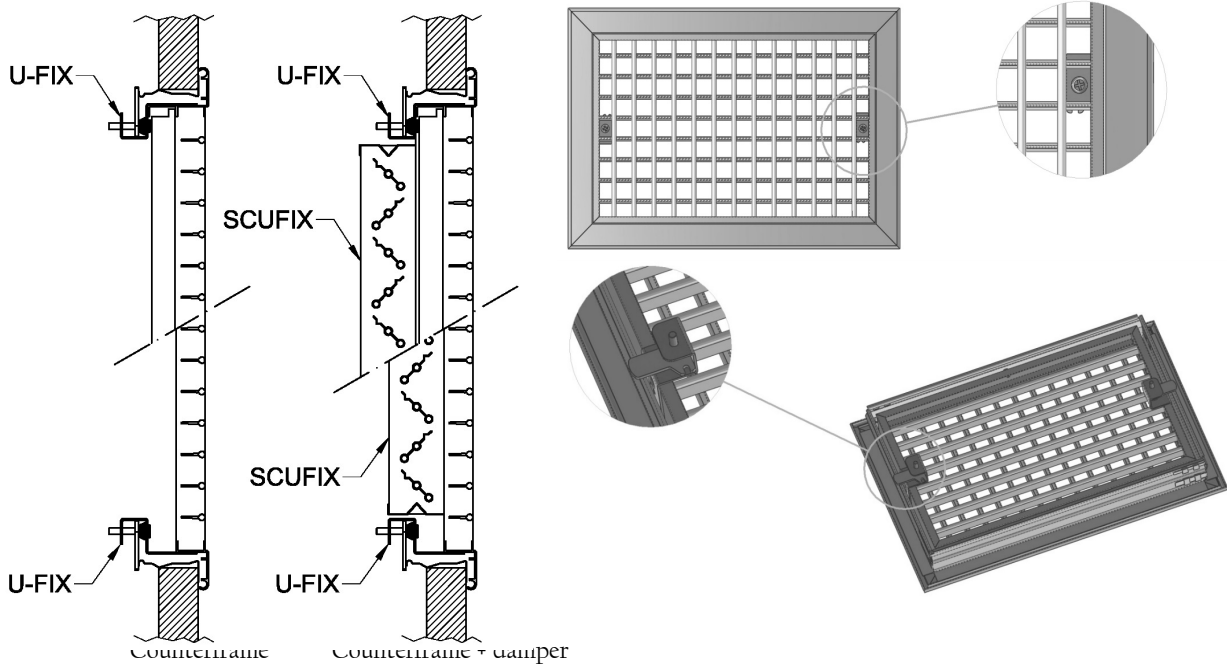




QUICK INSTALLING

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 |