LINEAR GRILLES
THIN FRAME
WITH FIXED BLADES

UF6 UF9
SERIES

OVERVIEW
TECHNICAL CHARACTERISTICS

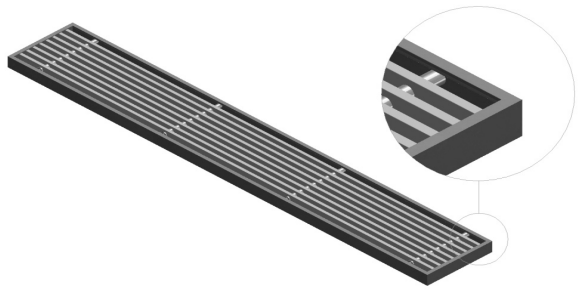
CHARACTERISTICS :
The **UF6 and UF9** linear grilles with fixed blades are used in the ventilation and air conditioning systems, both for ceiling and wall installation.
They are suitable for floor mounting and for application on fan-coils as they are appropriate for both ventilation and extraction, it is possible to maintain the same structure for each application. Moreover, the possibility of composition for versions with non-removable blades, is another important characteristic that allows to obtain continuous air flow in large environments without changing the aesthetic figure.

TECHNICAL CHARACTERISTICS :
The fixed blades of the UF6 and UF9 linear grilles can have two different profiles: with 0°degree deflection or 15° degree deflection, which allow to obtain different air flows. For this reason this type of grille can be furnished with a second row of individually adjustable blades.

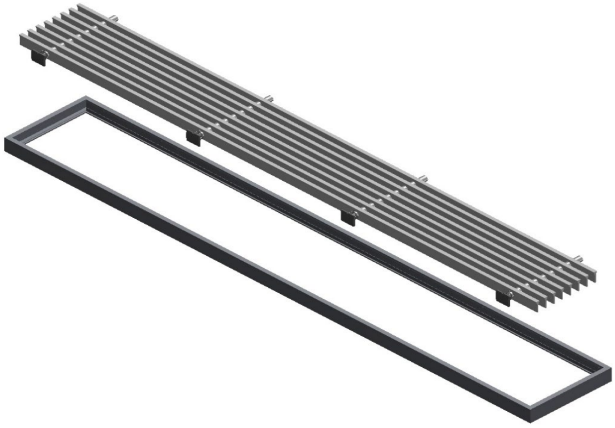
REMOVABLE BLADES:
The UF6 series grilles can have the row of fixed removable blades for inspection and cleaning.

POSSIBLE DIMENSIONS :
Base from 200mm up to 1500mm
Height from 50mm up to 400mm

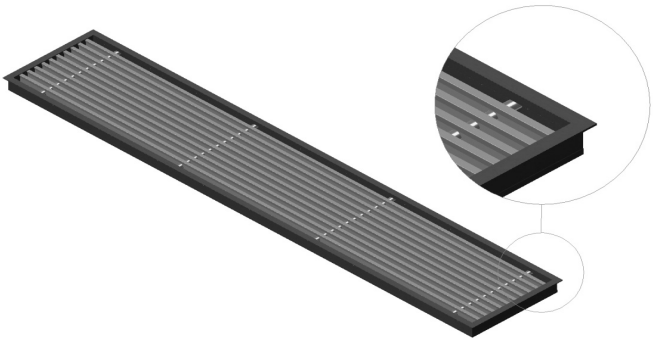
UNSUITABLE ENVIROMENTS
The aluminum products are not suitable for installation in environments with an atmosphere containing corrosive substances for this material and in particular containing chlorine, such as swimming pools, spas and some types of food industries.



UF6 frame without border



UF6 frame without border and removable blades



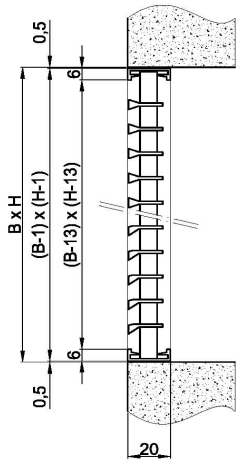
UF9 frame with border

LINEAR GRILLES
THIN FRAME
WITH FIXED BLADES

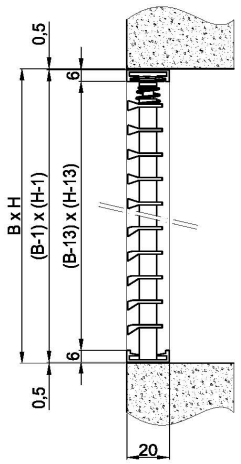
UF6 UF9
SERIES

POSSIBLE VERSIONS

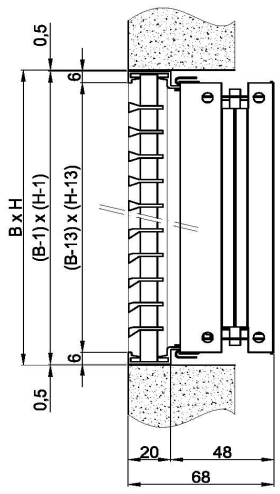
UF6 ... SF ... N
Grille with frame without border
one row of non removable fixed blades



UF6 ... SE ... N
Grille with frame without border
one row of removable fixed blades



UF6 ... DF ... S
Grille with frame without border
one row of non removable fixed blades
prepared for damper

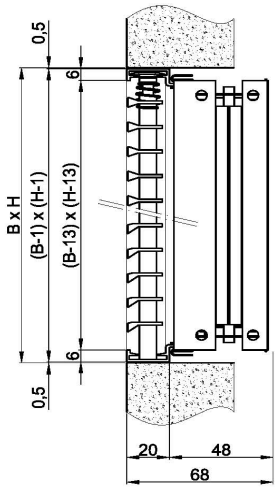


LINEAR GRILLES
THIN FRAME
WITH FIXED BLADES

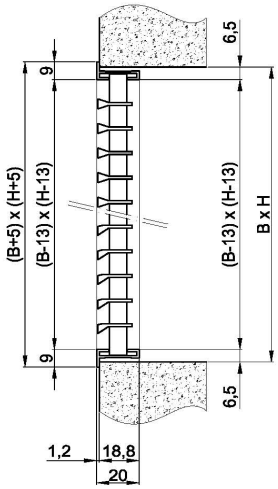
UF6 UF9
SERIES

POSSIBLE VERSIONS

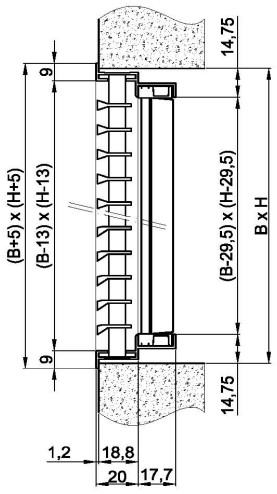
UF6 ... DE ... S
Grille with frame without border
one row of removable fixed blades
prepared for damper



UF9 ... SF ... N
Grille with frame with border
one row of non removable fixed blades



UF9 ... VF ... N
Grille with frame with border
one row of non removable fixed blades
second row of individually adjustable blades
prepared for damper

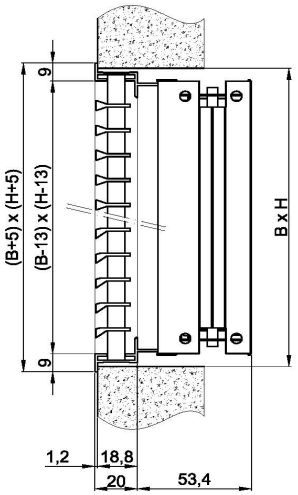


LINEAR GRILLES
THIN FRAME
WITH FIXED BLADES

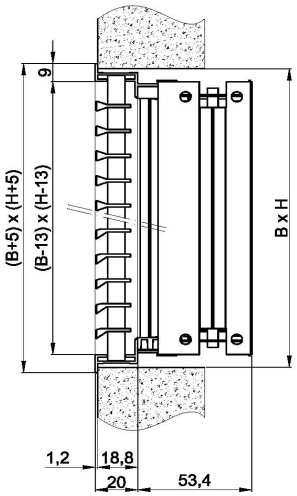
UF6 UF9
SERIES

POSSIBLE VERSIONS

UF9 ... DF ... S
Grille with frame with border
one row of non removable fixed blades
prepared for damper



UF9 ... VF ... S
Grille with frame with border
one row of non removable fixed blades
and second row of individually adjustable blades
with damper



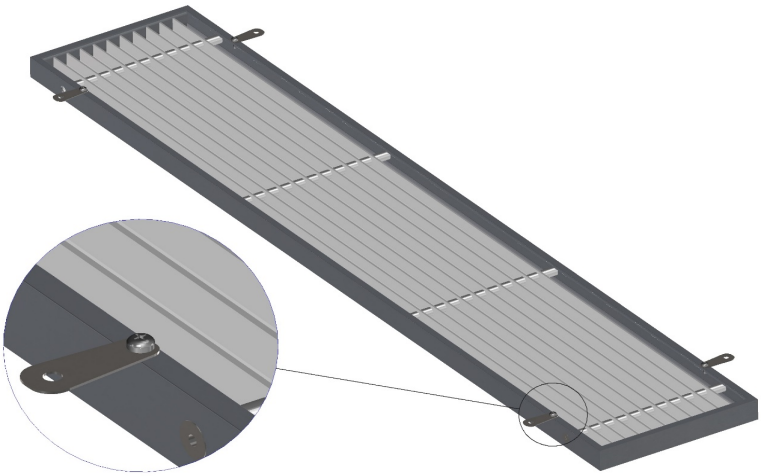
LINEAR GRILLES
THIN FRAME
WITH FIXED BLADES

UF6
SERIES

FIXING METODS

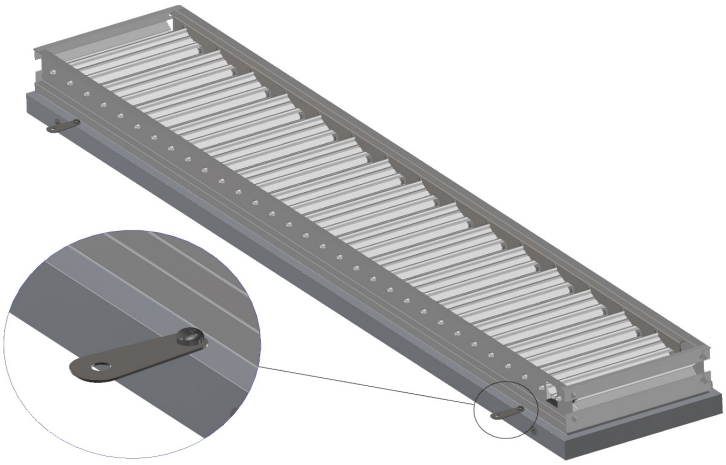
UF6 ... SFNN non removable blades
UF6 ... SENN removable blades
with fixing brakets

Kit 4 fixing brakets code UF6-9FIX



UF6 ... DFNS non removable blades
UF6 ... DENS removable blades
with regulation damper
with fixing brakets

Kit 4 fixing brakets code UF6-9FIX



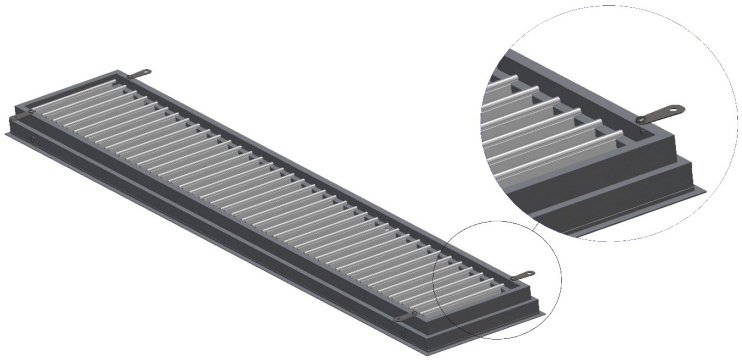
LINEAR GRILLES
THIN FRAME
WITH FIXED BLADES

UF9
SERIES

FIXING METODS

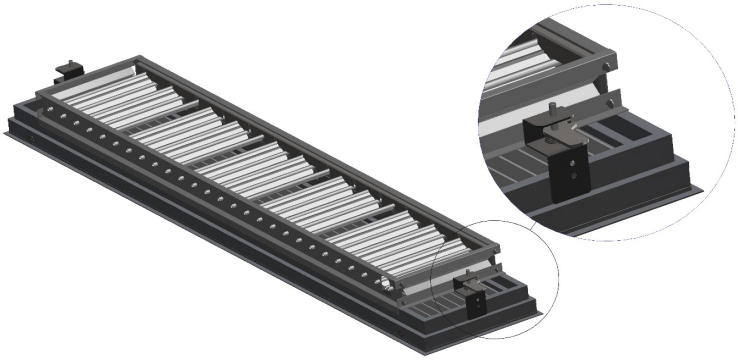
UF9 ... SFNN single row
UF9 ... VFNN two rows
with fixing brakets

Kit 4 fixing brakets code UF6-9FIX



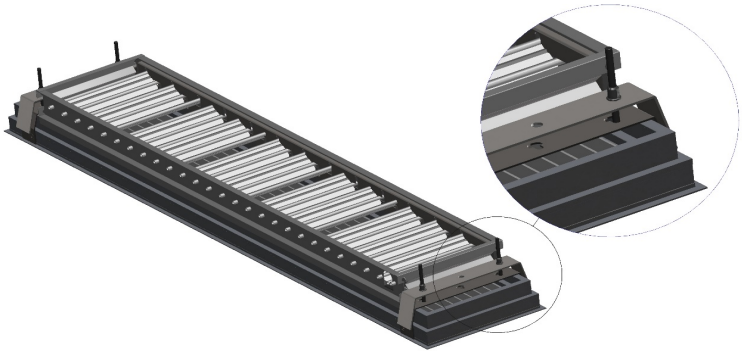
UF9 ... DFUN single row
UF9 ... VFUN two rows
UF9 ... DFUU sinle row and damper
UF9 ... VFUU two rows and damper

with U-FIX joust mounted



UF9 ... SFPN single row
UF9 ... VFPN two rows
UF9 ... DFPU single row and damper
UF9 ... VFPU two rows and damper

with mounting bridges jous mounted



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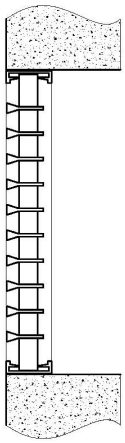
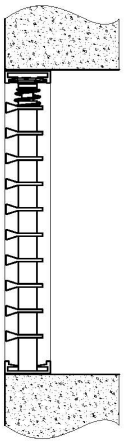
THIN FRAME
WITH FIXED BLADES

UF6
SERIES

EFFECTIVE AREA Ak





UF6 ... SF ... N

UF6 ... SE ... N

Height	Base 200	250	300	350	400	450	500	550	600	650
50	0,0064	0,0082	0,0099	0,0116	0,0133	0,0150	0,0168	0,0185	0,0202	0,0219
75	0,0108	0,0137	0,0165	0,0194	0,0223	0,0252	0,0281	0,0310	0,0338	0,0367
100	0,0151	0,0192	0,0232	0,0273	0,0313	0,0354	0,0394	0,0434	0,0475	0,0515
150	0,0238	0,0302	0,0366	0,0429	0,0493	0,0557	0,0620	0,0684	0,0748	0,0812
200	0,0325	0,0412	0,0499	0,0586	0,0673	0,0760	0,0847	0,0934	0,1021	0,1108
250	0,0412	0,0522	0,0633	0,0743	0,0853	0,0963	0,1073	0,1184	0,1294	0,1404
300	0,0499	0,0633	0,0766	0,0899	0,1033	0,1166	0,1300	0,1433	0,1567	0,1700
350	0,0586	0,0743	0,0899	0,1056	0,1213	0,1370	0,1526	0,1683	0,1840	0,1996
400	0,0673	0,0853	0,1033	0,1213	0,1393	0,1573	0,1753	0,1933	0,2113	0,2293

Height	Base 700	750	800	850	900	950	1000	1050	1100	1200
50	0,0236	0,0254	0,0271	0,0288	0,0305	0,0322	0,0340	0,0357	0,0374	0,0408
75	0,0396	0,0425	0,0454	0,0483	0,0511	0,0540	0,0569	0,0598	0,0627	0,0684
100	0,0556	0,0596	0,0637	0,0677	0,0718	0,0758	0,0799	0,0839	0,0879	0,0960
150	0,0875	0,0939	0,1003	0,1066	0,1130	0,1194	0,1258	0,1321	0,1385	0,1512
200	0,1195	0,1282	0,1369	0,1456	0,1543	0,1630	0,1716	0,1803	0,1890	0,2064
250	0,1514	0,1624	0,1735	0,1845	0,1955	0,2065	0,2175	0,2286	0,2396	0,2616
300	0,1834	0,1967	0,2101	0,2234	0,2367	0,2501	0,2634	0,2768	0,2901	0,3168
350	0,2153	0,2310	0,2467	0,2623	0,2780	0,2937	0,3093	0,3250	0,3407	0,3720
400	0,2473	0,2653	0,2832	0,3012	0,3192	0,3372	0,3552	0,3732	0,3912	0,4272

Height	Base 1250	1300	1350	1400	1450	1500
50	0,0426	0,0443	0,0460	0,0477	0,0494	0,0512
75	0,0713	0,0742	0,0771	0,0800	0,0829	0,0857
100	0,1001	0,1041	0,1082	0,1122	0,1163	0,1203
150	0,1576	0,1640	0,1703	0,1767	0,1831	0,1895
200	0,2151	0,2238	0,2325	0,2412	0,2499	0,2586
250	0,2726	0,2837	0,2947	0,3057	0,3167	0,3277
300	0,3302	0,3435	0,3569	0,3702	0,3835	0,3969
350	0,3877	0,4034	0,4190	0,4347	0,4504	0,4660
400	0,4452	0,4632	0,4812	0,4992	0,5172	0,5352

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UF6
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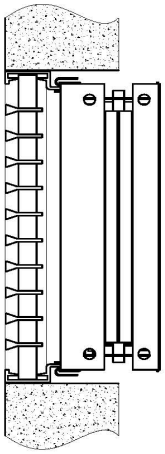
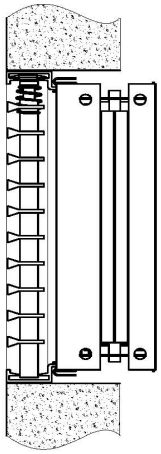
EFFECTIVE AREA Ak





UF6 ... DF ... S

UF6 ... DE ... S

The values of pressure drop and sound power shown in the diagrams refer to the condition of completely open damper

Height	Base 200	250	300	350	400	450	500	550	600	650
50	0,0053	0,0068	0,0083	0,0097	0,0112	0,0127	0,0142	0,0156	0,0171	0,0186
75	0,0096	0,0122	0,0148	0,0175	0,0201	0,0227	0,0254	0,0280	0,0306	0,0332
100	0,0138	0,0176	0,0214	0,0252	0,0290	0,0328	0,0365	0,0403	0,0441	0,0479
150	0,0222	0,0283	0,0345	0,0406	0,0467	0,0528	0,0589	0,0651	0,0712	0,0773
200	0,0307	0,0391	0,0476	0,0560	0,0644	0,0729	0,0813	0,0898	0,0982	0,1067
250	0,0391	0,0499	0,0607	0,0714	0,0822	0,0930	0,1037	0,1145	0,1253	0,1360
300	0,0476	0,0607	0,0737	0,0868	0,0999	0,1130	0,1261	0,1392	0,1523	0,1654
350	0,0560	0,0714	0,0868	0,1023	0,1177	0,1331	0,1485	0,1639	0,1794	0,1948
400	0,0644	0,0822	0,0999	0,1177	0,1354	0,1532	0,1709	0,1887	0,2064	0,2241

Height	Base 700	750	800	850	900	950	1000	1050	1100	1200
50	0,0200	0,0215	0,0230	0,0244	0,0259	0,0274	0,0288	0,0303	0,0318	0,0347
75	0,0359	0,0385	0,0411	0,0438	0,0464	0,0490	0,0517	0,0543	0,0569	0,0622
100	0,0517	0,0555	0,0593	0,0631	0,0669	0,0707	0,0745	0,0783	0,0821	0,0897
150	0,0834	0,0895	0,0957	0,1018	0,1079	0,1140	0,1201	0,1263	0,1324	0,1446
200	0,1151	0,1236	0,1320	0,1404	0,1489	0,1573	0,1658	0,1742	0,1827	0,1996
250	0,1468	0,1576	0,1683	0,1791	0,1899	0,2007	0,2114	0,2222	0,2330	0,2545
300	0,1785	0,1916	0,2047	0,2178	0,2309	0,2440	0,2571	0,2702	0,2833	0,3094
350	0,2102	0,2256	0,2410	0,2565	0,2719	0,2873	0,3027	0,3181	0,3336	0,3644
400	0,2419	0,2596	0,2774	0,2951	0,3129	0,3306	0,3484	0,3661	0,3838	0,4193

Height	Base 1250	1300	1350	1400	1450	1500
50	0,0362	0,0377	0,0391	0,0406	0,0421	0,0435
75	0,0648	0,0675	0,0701	0,0727	0,0754	0,0780
100	0,0935	0,0973	0,1011	0,1048	0,1086	0,1124
150	0,1507	0,1569	0,1630	0,1691	0,1752	0,1813
200	0,2080	0,2164	0,2249	0,2333	0,2418	0,2502
250	0,2653	0,2760	0,2868	0,2976	0,3083	0,3191
300	0,3225	0,3356	0,3487	0,3618	0,3749	0,3880
350	0,3798	0,3952	0,4106	0,4261	0,4415	0,4569
400	0,4371	0,4548	0,4726	0,4903	0,5081	0,5258

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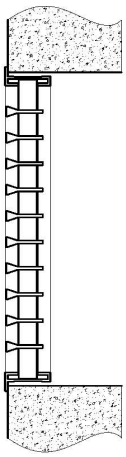
EFFECTIVE AREA Ak



UF9 ... SF ... N

Height	Base 200	250	300	350	400	450	500	550	600	650
50	0,0065	0,0082	0,0099	0,0117	0,0134	0,0151	0,0169	0,0186	0,0203	0,0220
75	0,0108	0,0137	0,0166	0,0195	0,0224	0,0253	0,0282	0,0311	0,0340	0,0369
100	0,0152	0,0192	0,0233	0,0273	0,0314	0,0355	0,0395	0,0436	0,0476	0,0517
150	0,0239	0,0303	0,0366	0,0430	0,0494	0,0558	0,0622	0,0685	0,0749	0,0813
200	0,0326	0,0413	0,0500	0,0587	0,0674	0,0761	0,0848	0,0935	0,1022	0,1109
250	0,0413	0,0523	0,0634	0,0744	0,0854	0,0964	0,1075	0,1185	0,1295	0,1406
300	0,0500	0,0634	0,0767	0,0901	0,1034	0,1168	0,1301	0,1435	0,1568	0,1702
350	0,0587	0,0744	0,0901	0,1057	0,1214	0,1371	0,1528	0,1685	0,1841	0,1998
400	0,0674	0,0854	0,1034	0,1214	0,1394	0,1574	0,1754	0,1934	0,2114	0,2295

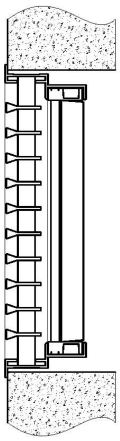
Height	Base 700	750	800	850	900	950	1000	1050	1100	1200
50	0,0238	0,0255	0,0272	0,0290	0,0307	0,0324	0,0342	0,0359	0,0376	0,0411
75	0,0398	0,0426	0,0455	0,0484	0,0513	0,0542	0,0571	0,0600	0,0629	0,0687
100	0,0557	0,0598	0,0638	0,0679	0,0719	0,0760	0,0801	0,0841	0,0882	0,0963
150	0,0877	0,0941	0,1004	0,1068	0,1132	0,1196	0,1260	0,1323	0,1387	0,1515
200	0,1196	0,1283	0,1370	0,1458	0,1545	0,1632	0,1719	0,1806	0,1893	0,2067
250	0,1516	0,1626	0,1737	0,1847	0,1957	0,2067	0,2178	0,2288	0,2398	0,2619
300	0,1835	0,1969	0,2103	0,2236	0,2370	0,2503	0,2637	0,2770	0,2904	0,3171
350	0,2155	0,2312	0,2469	0,2625	0,2782	0,2939	0,3096	0,3253	0,3409	0,3723
400	0,2475	0,2655	0,2835	0,3015	0,3195	0,3375	0,3555	0,3735	0,3915	0,4275

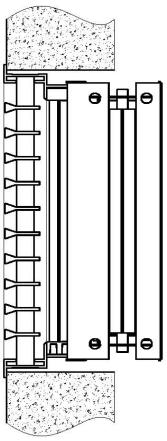
Height	Base 1250	1300	1350	1400	1450	1500
50	0,0428	0,0445	0,0463	0,0480	0,0497	0,0515
75	0,0716	0,0745	0,0774	0,0802	0,0831	0,0860
100	0,1003	0,1044	0,1084	0,1125	0,1166	0,1206
150	0,1579	0,1642	0,1706	0,1770	0,1834	0,1898
200	0,2154	0,2241	0,2328	0,2415	0,2502	0,2589
250	0,2729	0,2840	0,2950	0,3060	0,3170	0,3281
300	0,3305	0,3438	0,3572	0,3705	0,3839	0,3972
350	0,3880	0,4037	0,4193	0,4350	0,4507	0,4664
400	0,4455	0,4635	0,4815	0,4995	0,5175	0,5355

LINEAR GRILLES
THIN FRAME
WITH FIXED BLADES

UF9
SERIES

EFFECTIVE AREA Ak





UF9 ... DF ... S

UF9 ... VF ... S

The values of pressure drop and sound power shown in the diagrams refer to the condition of completely open damper and second row og blades in vertical position

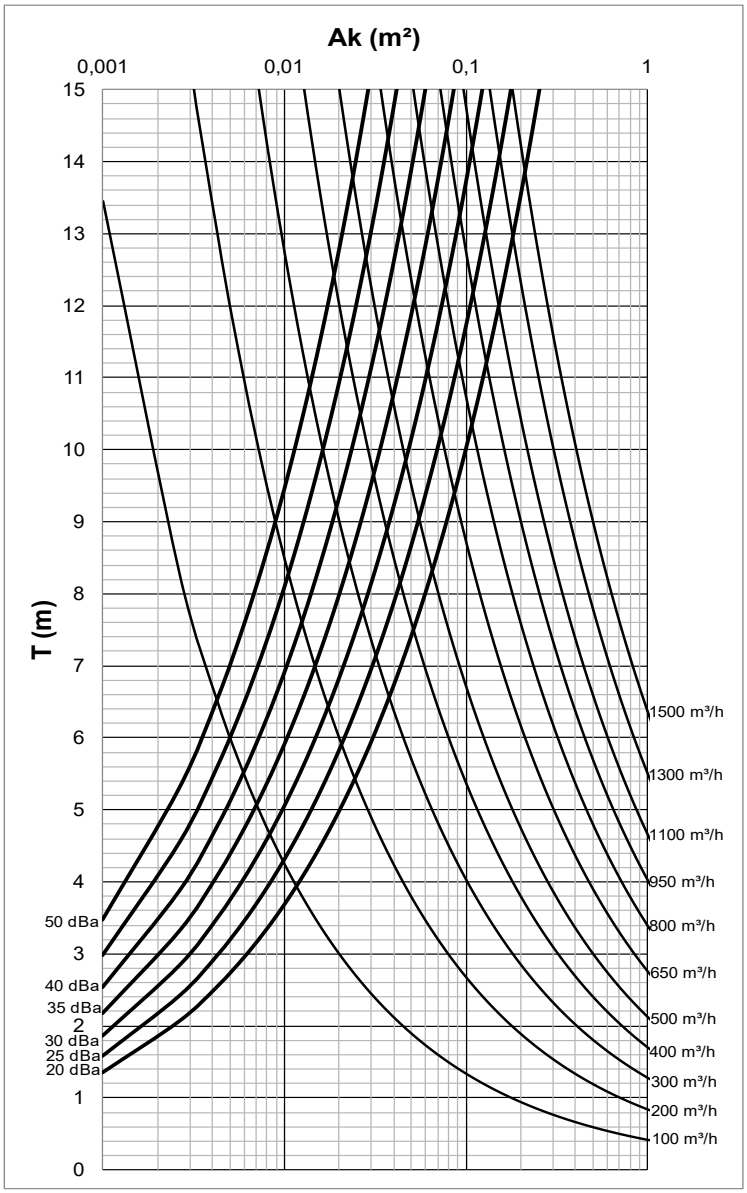
Height	Base 200	250	300	350	400	450	500	550	600	650
50	0,0033	0,0042	0,0052	0,0061	0,0071	0,0081	0,0090	0,0100	0,0109	0,0119
75	0,0072	0,0094	0,0115	0,0136	0,0157	0,0178	0,0200	0,0221	0,0242	0,0263
100	0,0112	0,0145	0,0178	0,0210	0,0243	0,0276	0,0309	0,0342	0,0375	0,0407
150	0,0191	0,0247	0,0303	0,0360	0,0416	0,0472	0,0528	0,0584	0,0640	0,0696
200	0,0271	0,0350	0,0429	0,0509	0,0588	0,0667	0,0747	0,0826	0,0905	0,0985
250	0,0350	0,0453	0,0555	0,0658	0,0760	0,0863	0,0965	0,1068	0,1171	0,1273
300	0,0429	0,0555	0,0681	0,0807	0,0933	0,1058	0,1184	0,1310	0,1436	0,1562
350	0,0509	0,0658	0,0807	0,0956	0,1105	0,1254	0,1403	0,1552	0,1701	0,1850
400	0,0588	0,0760	0,0933	0,1105	0,1277	0,1450	0,1622	0,1794	0,1967	0,2139

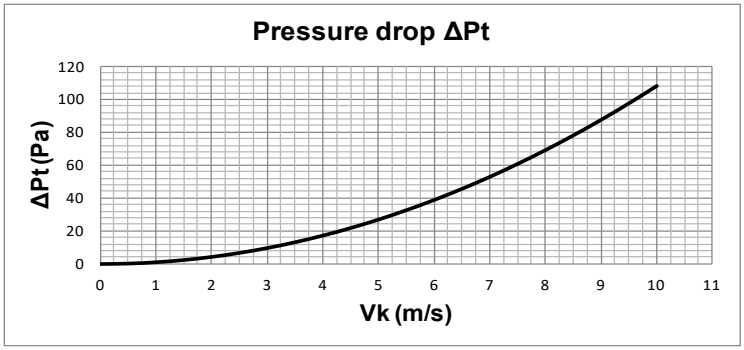
Height	Base 700	750	800	850	900	950	1000	1050	1100	1200
50	0,0128	0,0138	0,0148	0,0157	0,0167	0,0176	0,0186	0,0196	0,0205	0,0224
75	0,0284	0,0306	0,0327	0,0348	0,0369	0,0390	0,0412	0,0433	0,0454	0,0496
100	0,0440	0,0473	0,0506	0,0539	0,0572	0,0604	0,0637	0,0670	0,0703	0,0769
150	0,0752	0,0808	0,0864	0,0920	0,0976	0,1033	0,1089	0,1145	0,1201	0,1313
200	0,1064	0,1143	0,1223	0,1302	0,1381	0,1461	0,1540	0,1619	0,1699	0,1857
250	0,1376	0,1478	0,1581	0,1684	0,1786	0,1889	0,1991	0,2094	0,2196	0,2402
300	0,1688	0,1813	0,1939	0,2065	0,2191	0,2317	0,2443	0,2568	0,2694	0,2946
350	0,1999	0,2149	0,2298	0,2447	0,2596	0,2745	0,2894	0,3043	0,3192	0,3490
400	0,2311	0,2484	0,2656	0,2828	0,3001	0,3173	0,3345	0,3518	0,3690	0,4035

Height	Base 1250	1300	1350	1400	1450	1500
50	0,0234	0,0243	0,0253	0,0263	0,0272	0,0282
75	0,0518	0,0539	0,0560	0,0581	0,0602	0,0624
100	0,0801	0,0834	0,0867	0,0900	0,0933	0,0966
150	0,1369	0,1425	0,1481	0,1537	0,1593	0,1649
200	0,1937	0,2016	0,2095	0,2175	0,2254	0,2333
250	0,2504	0,2607	0,2709	0,2812	0,2914	0,3017
300	0,3072	0,3198	0,3323	0,3449	0,3575	0,3701
350	0,3639	0,3788	0,3937	0,4087	0,4236	0,4385
400	0,4207	0,4379	0,4552	0,4724	0,4896	0,5069

LINEAR GRILLES
THIN FRAME
WITH FIXED BLADES
VERTICAL THROW - SUPPLY
PERFORMANCE

UF6 UF9
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

Vk = 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.*

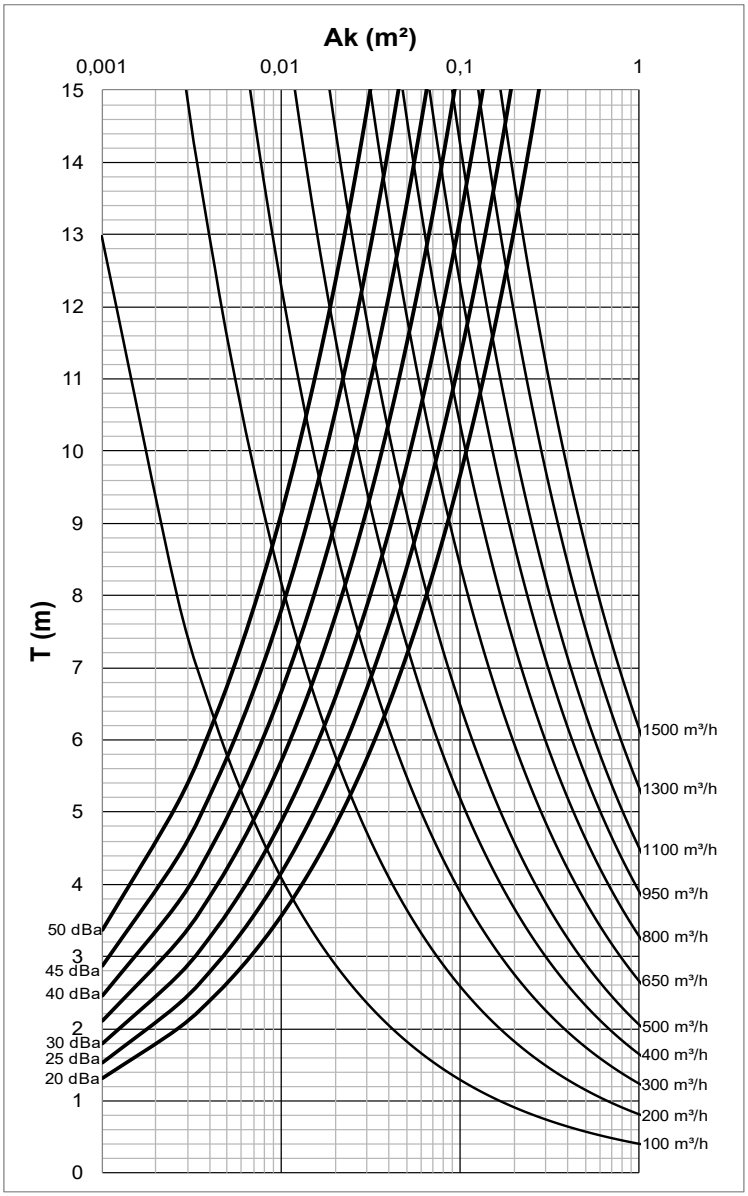
Acoustic data measured in reverberation room in accordance with international standard:
ISO 3741 1999: *Acoustic - determination of sound power levels of noise sources using sound pressure - Precision methods for reverberation rooms*

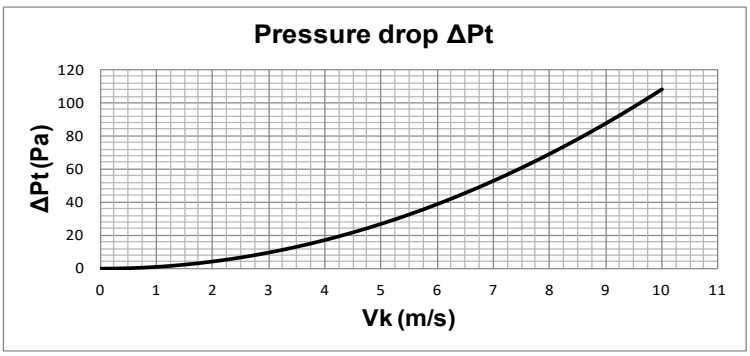
ISO 5135 1997: *Acoustic - determination of sound power levels of noise from air-terminal devices ; air terminal units; dampers and valves by measurement in a reverberation room.*

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 GRILLES
THIN FRAME
WITH FIXED BLADES
ANGLED THROW - SUPPLY
PERFORMANCE

UF6 UF9
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

Vk = Q/3600/Ak

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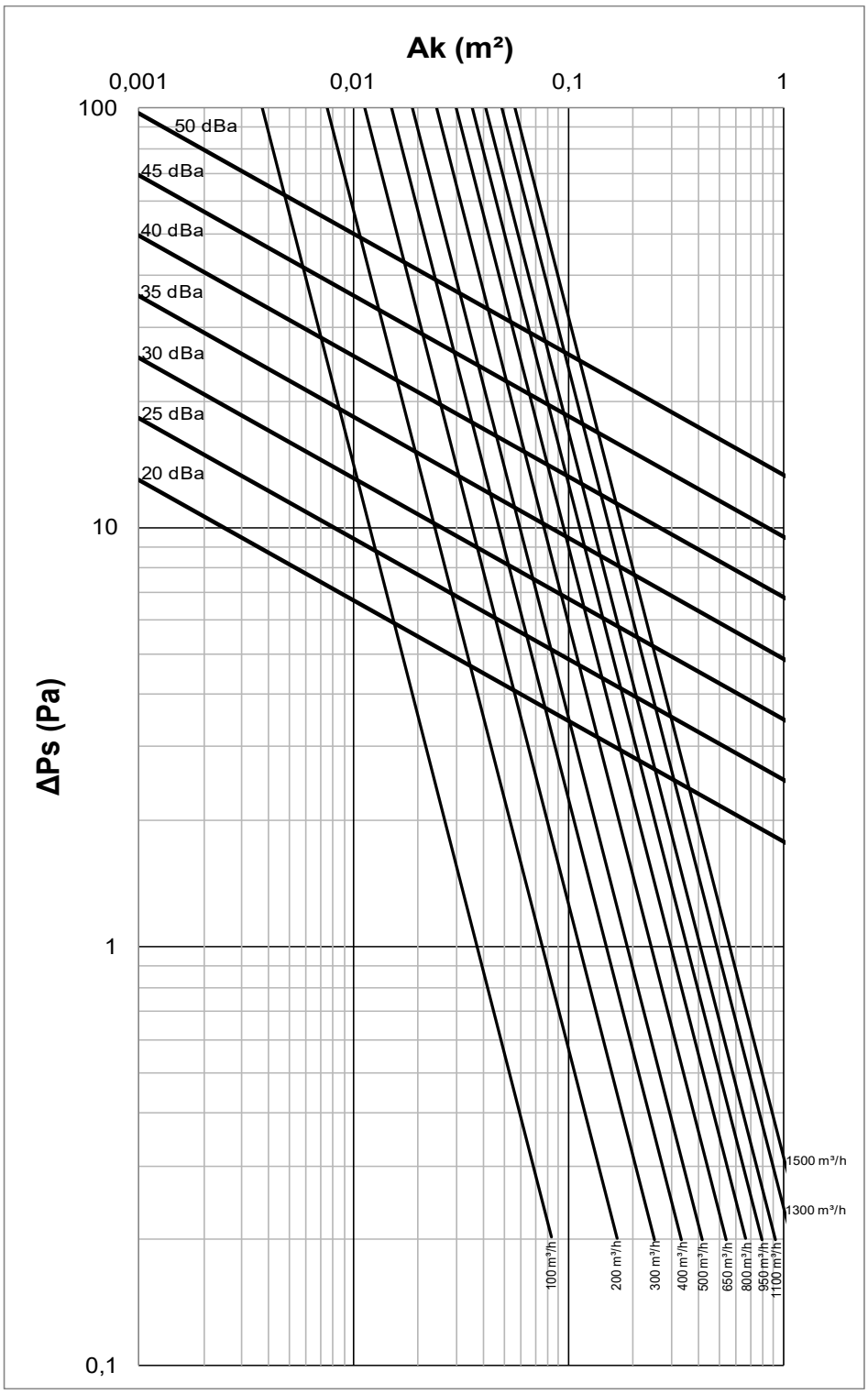
LINEAR GRILLES
THIN FRAME
WITH FIXED BLADES
ANGLED THROW - EXTRACTION
PERFORMANCE

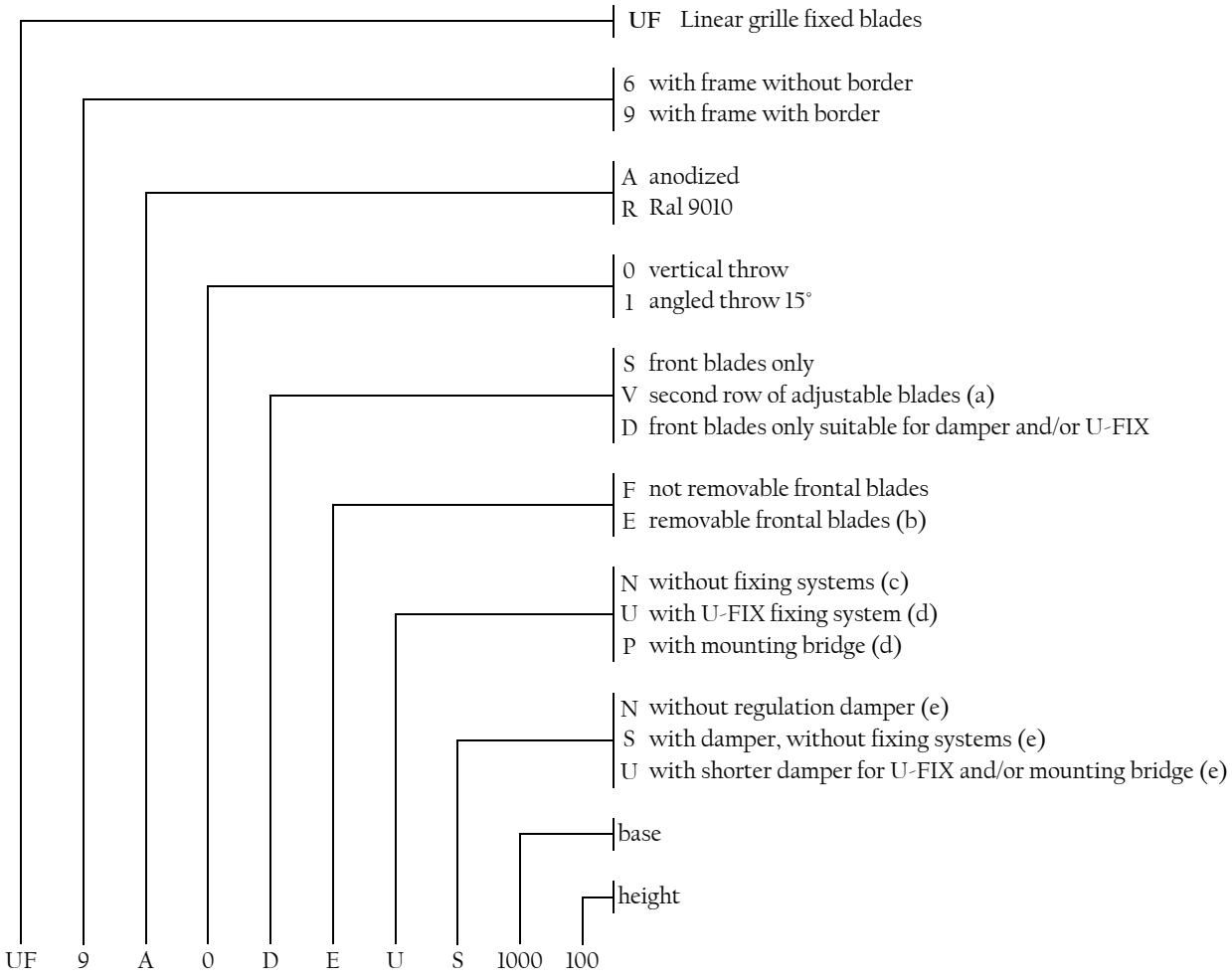
UF60 UF90
UF61 UF91
SERIES



LINEAR GRILLES
THIN FRAME
WITH FIXED BLADES

UF6 UF9
SERIES

HOW TO ORDER



UF6-9FIX Kit 4 fixing brakets

Standard base length from 200mm to 1500mm step 50mm
Standard height length from 50mm to 150mm step 25mm - from 150mm to 400mm step 50mm

(a) UF9 model only minimum height 75mm

(b) UF6 model only - for installation in vertical wall - springs on the upper side
minimum height 100mm maximum size 1200x300

(c) fixing systems, except brackets UF6-9FIX, cannot be supplied after the delivery of the grille

(d) UF9 model only - fixing systems cannot be supplied after the delivery of the grille

(e) the regulation damper cannot be supplied after the delivery of the grille
minimum height version with damper 75mm