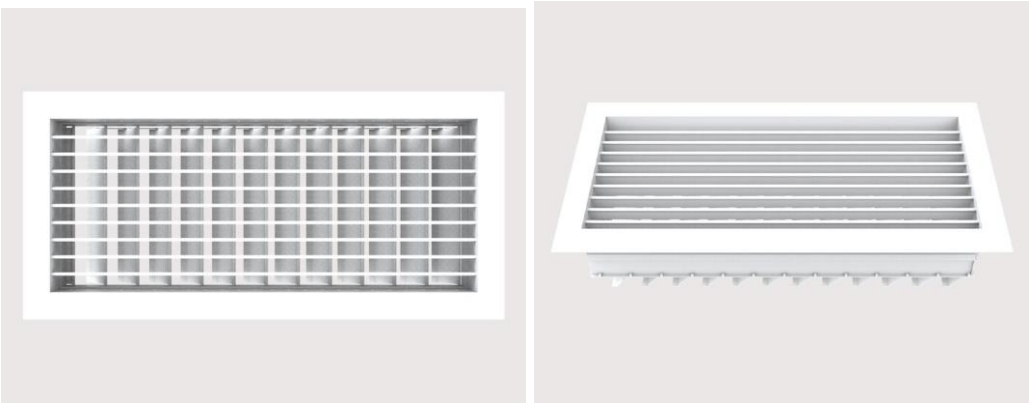
CENKAY TEKNİK

SINGLE DEFLECTION GRILLES – RETURN –EXHAUST AIR GRILLES –CKM-01



AREA OF USAGE AND FEATURES: Return grilles used in Duct and ceiling applications in HVAC systems. It is used as. Wings can be adjustable thru the front side of grilles. Standard production is with a screw. The way of assembling can be adjustable depends upon requirements.

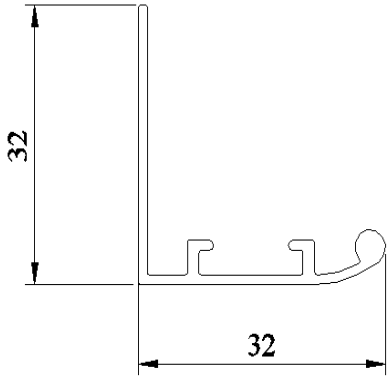
MATERIAL: Aluminum profile produced the extrusion method

SURFACE COATING : Product can be manufactured in requested colour by electrostatic powder paint, eloksal coating or without paint.

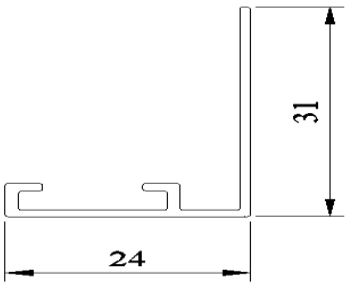
ACCESSORIES : Air vent Damper, Air vent box, Installation blind case

FRAME TYPES

STANDART FRAME



NARROW FRAME

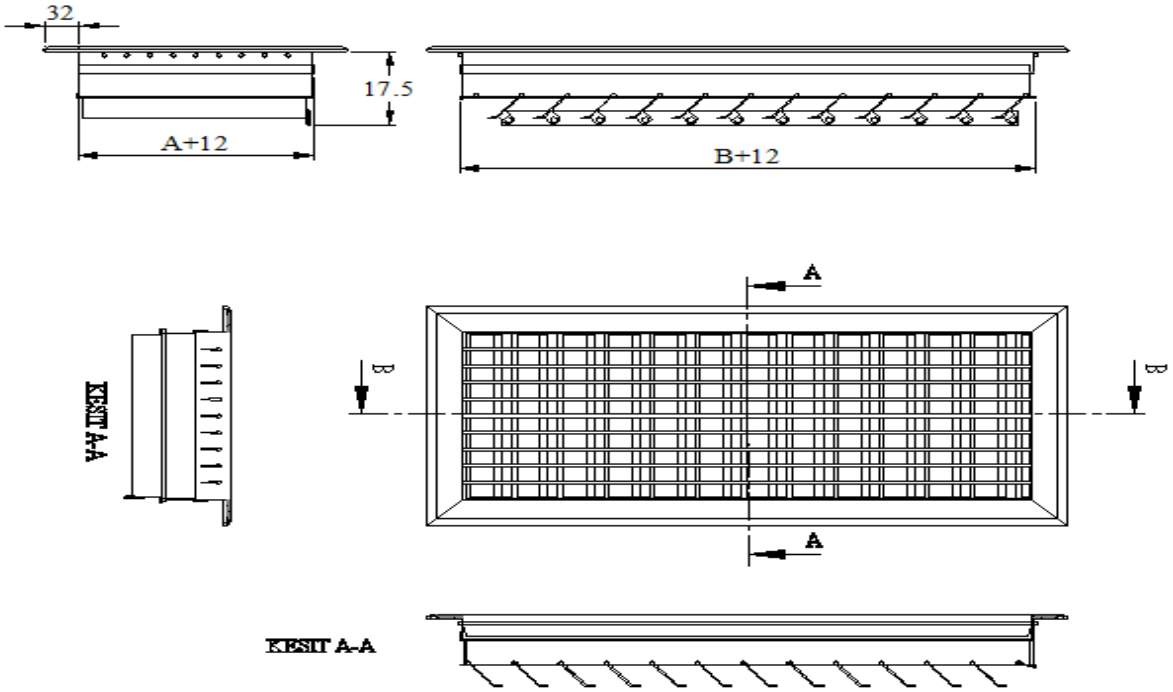


TECHNICAL MEASUREMENT

CENKAY TEKNİK

W **100-150-200-250-300-350-400-450- 500-600-700-800-900-1000-1100-1200**
H **100-150-200-250-300-350-400-450-500-600-700-800-900-1000**

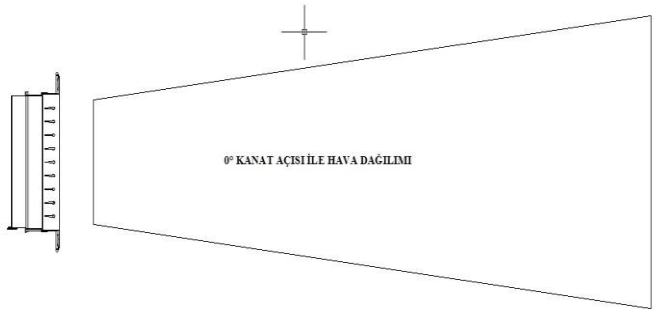
COMBINATION CAN BE DONE IN REQUESTED MEASUREMENTS.



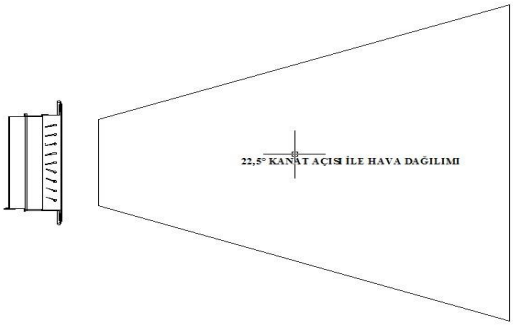
SOME APLLICATION AREAS	Speed of Blower(m/s)
Radio and film studios, Surgery rooms	1,5 – 2,5
Bedrooms, Hotel Rooms,Offices,Residances, Hospitals, Mosques,Churchs etc.	2 – 4
Concert Halls, Dining Rooms, Classrooms,Banks,Libraries,Game Rooms,Conference Halls	2,5 – 5
Restaurants, Cafeteries, Hotel Lobbies, Theaters,Cinemas, Shopping Malls, Ball Rooms	2,5 – 6
Supermarkets, Factories, Gym, Industrial Kitchens/ Warehouses	5 – 10

AIR STREAM REGARDS TO WINGS POSITION

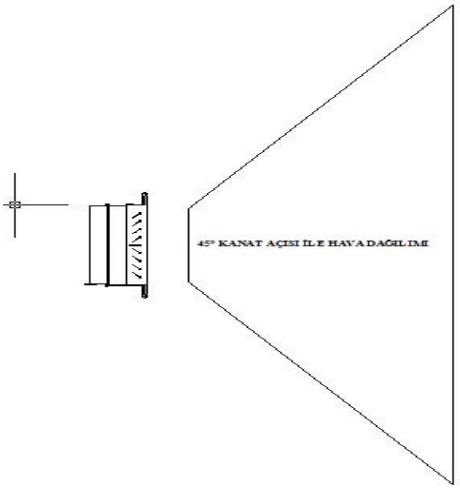
CENKAY TEKNİK



SHOOTING RANGE MAX AT 0° POSITION. STATIC PRESSURE TO BE MIN.

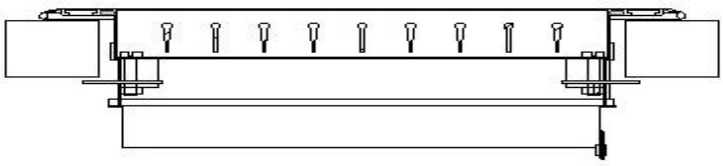


SHOOTING RANGE DECREASES DIFUSION INCRESE. STATIC PRESSURE INCRESES IN A RATIO OF ANGLES AT 22.5° WINGS POSITION

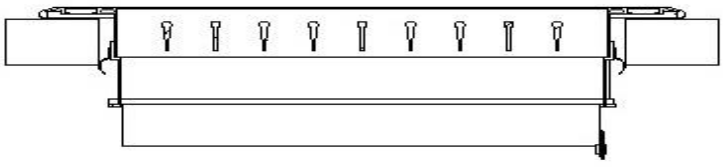


SHOOTING RANGE TO BE MIN. AT 45° WING POSITION. DIFUSION MAX. STATIC PRESSURE TO BE MAX.

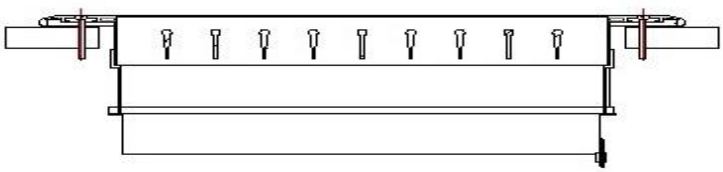
MOUNTING METHOD



LATCH ASSEMBLY



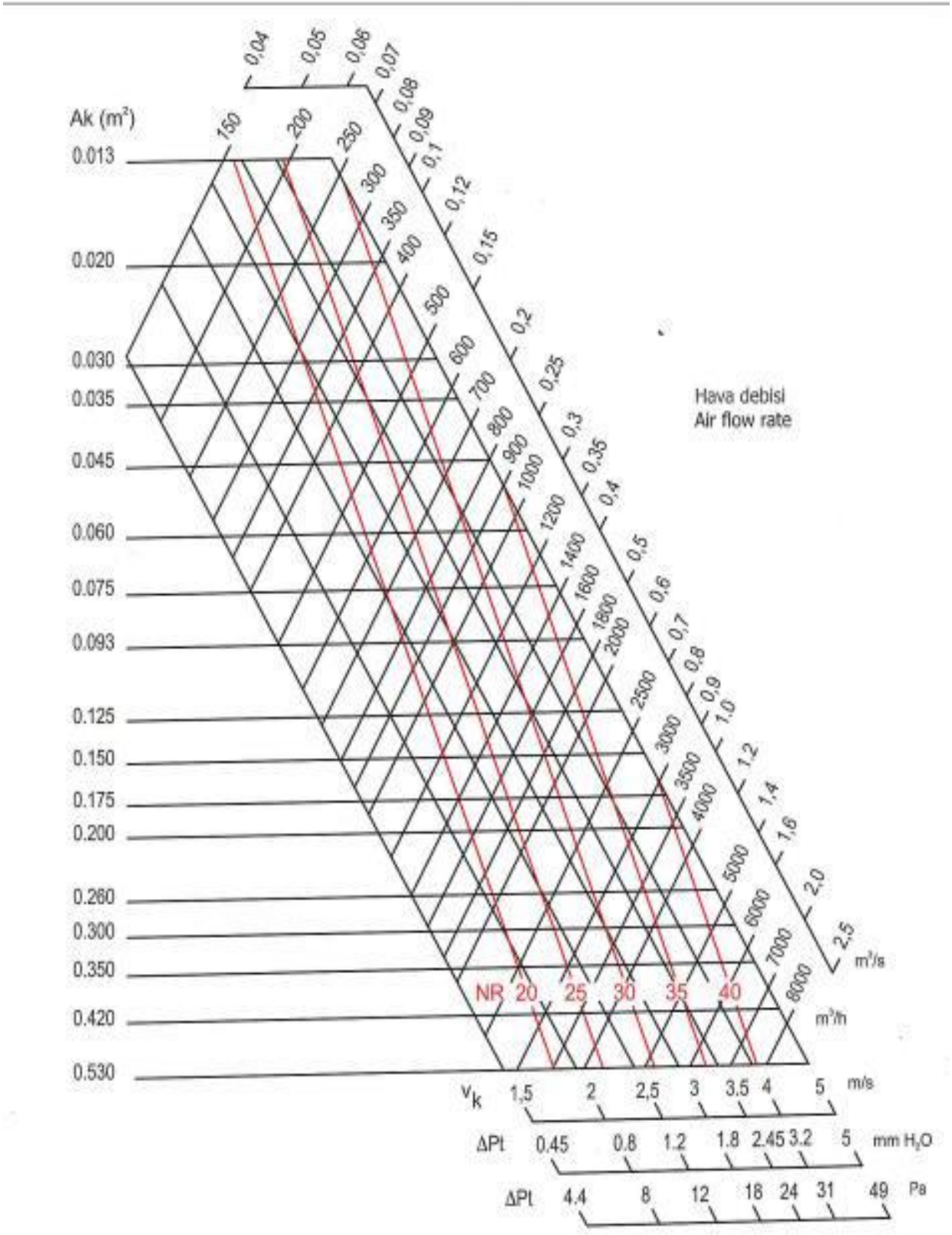
CLIP ASSEMBLY



SCREW ASSEMBLY

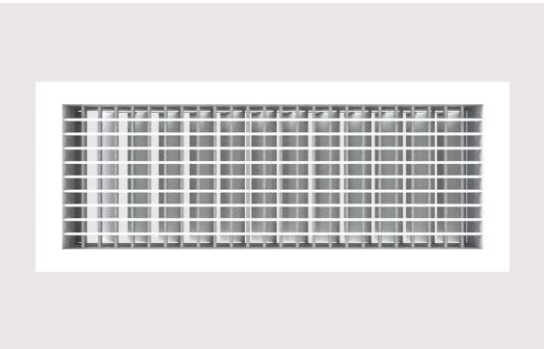
CENKAY TEKNİK

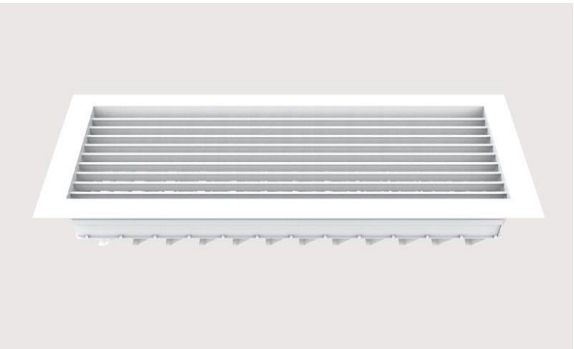
SELECTION DİYAGRAM



CENKAY TEKNİK

SUPPLY AIR GRILLES - DOUBLE DEFLECTION GRILLES –CKM-02





AREA OF USAGE AND FEATURES: Supply grilles used in Duct and ceiling applications in HVAC systems. It is used as. Wings can be adjustable thru the front side of grilles. Standard production is with the screw. The way of assembling can be adjustable depends upon the requirement.

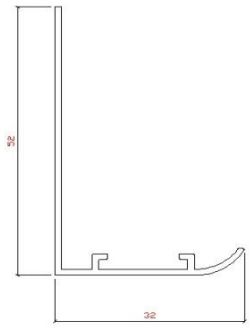
MATERIAL: Aluminium profile produced by the extrusion method

SURFACE COATING: Product can be manufactured in requested colour by electrostatic powder paint, eloksal coating or without paint.

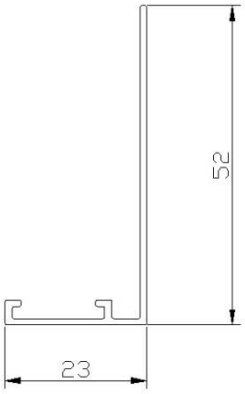
ACCESSORIES: Airvent Damper, Airvent box, Installation blind case

FRAME TYPES

STANDART FRAME



NARROW FRAME

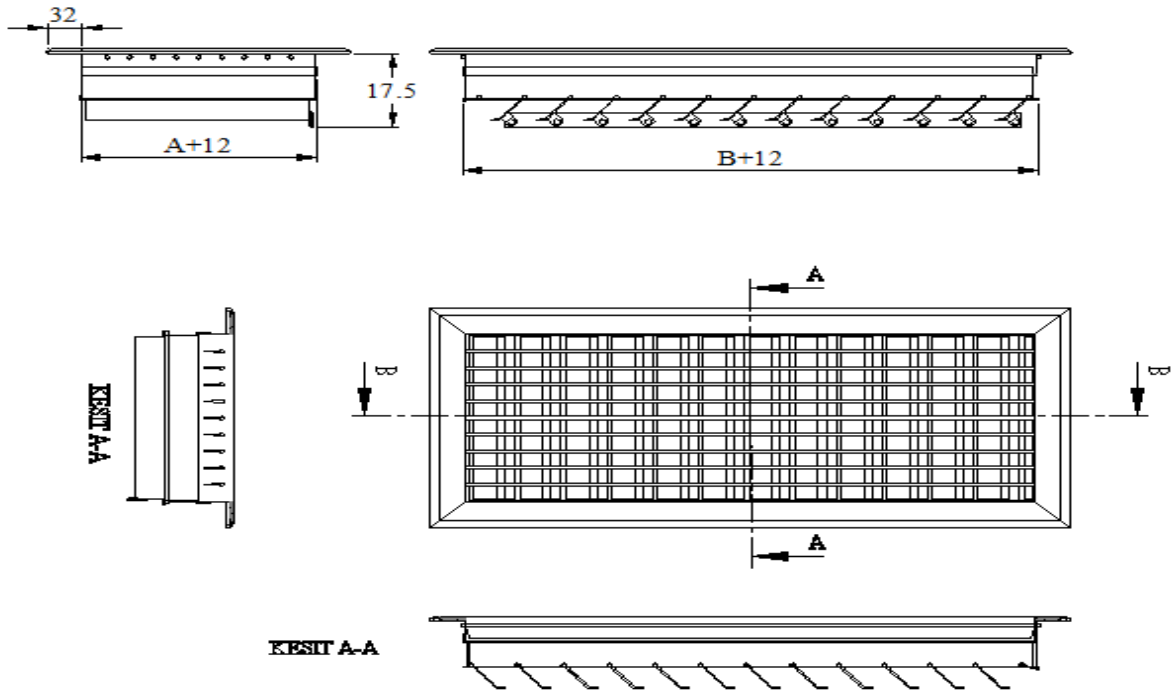


TECHNICAL MEASUREMENT

CENKAY TEKNİK

W 100-150-200-250-300-350-400-450- 500-600-700-800-900-1000-1100-1200
H 100-150-200-250-300-350-400-450-500-600-700-800-900-1000

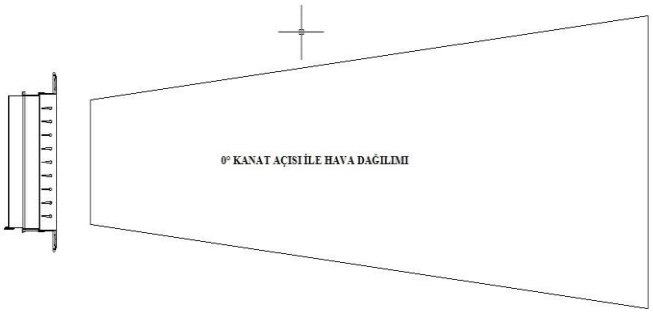
COMBINATION CAN BE DONE IN REQUESTED MEASUREMENTS.



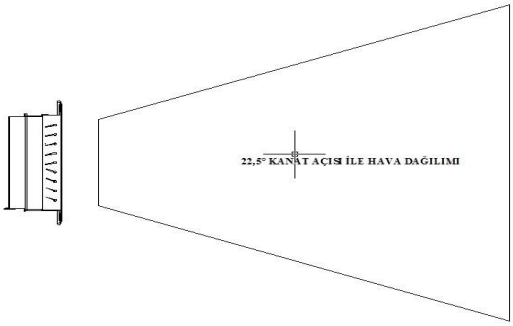
SOME APLLICATION AREAS	Speed of Blower(m/s)
Radio and film studios, Surgery rooms	1,5 – 2,5
Bedrooms, Hotel Rooms,Offices,Residances, Hospitals, Mosques,Churchs etc.	2 – 4
Concert Halls, Dining Rooms, Classrooms,Banks,Libraries,Game Rooms,Conference Halls	2,5 – 5
Restaurants, Cafeteries, Hotel Lobbies, Theaters, Cinemas, Shopping Malls, Ball Rooms	2,5 – 6
Supermarkets, Factories, Gym, Industrial Kitchens/ Warehouses	5 – 10

AIR STREAM REGARDS TO WINGS POSITION

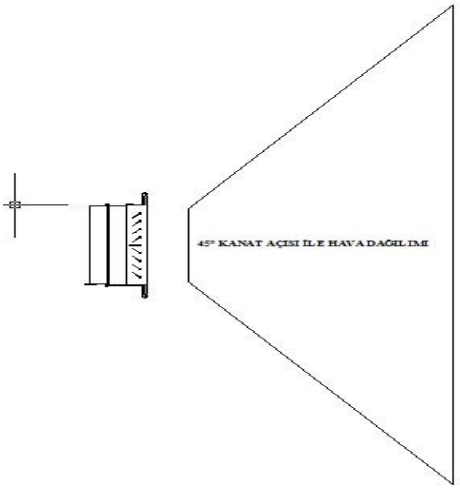
CENKAY TEKNİK



SHOOTING RANGE MAX AT 0° POSITION. STATIC PRESSURE TO BE MIN.

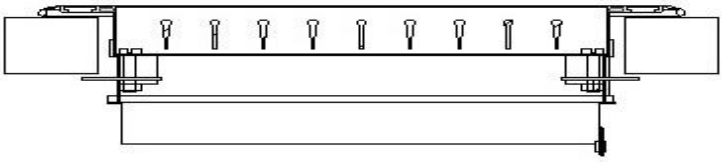


SHOOTING RANGE DECREASES DIFUSION INCRESE. STATIC PRESSURE INCRESES IN A RATIO OF ANGLES AT 22.5° WINGS POSITION

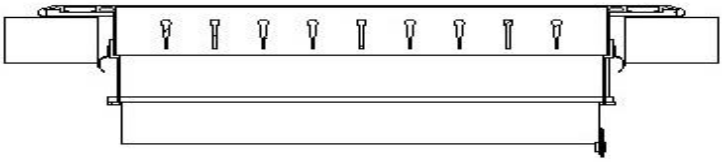


SHOOTING RANGE TO BE MIN. AT 45° WING POSITION. DIFUSION MAX. STATIC PRESSURE TO BE MAX.

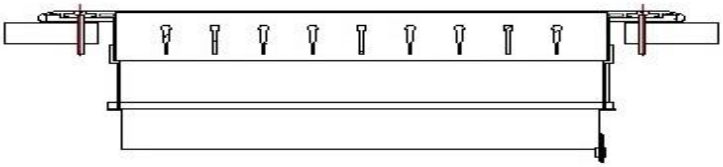
MOUNTING METHOD



LATCH ASSEMBLY



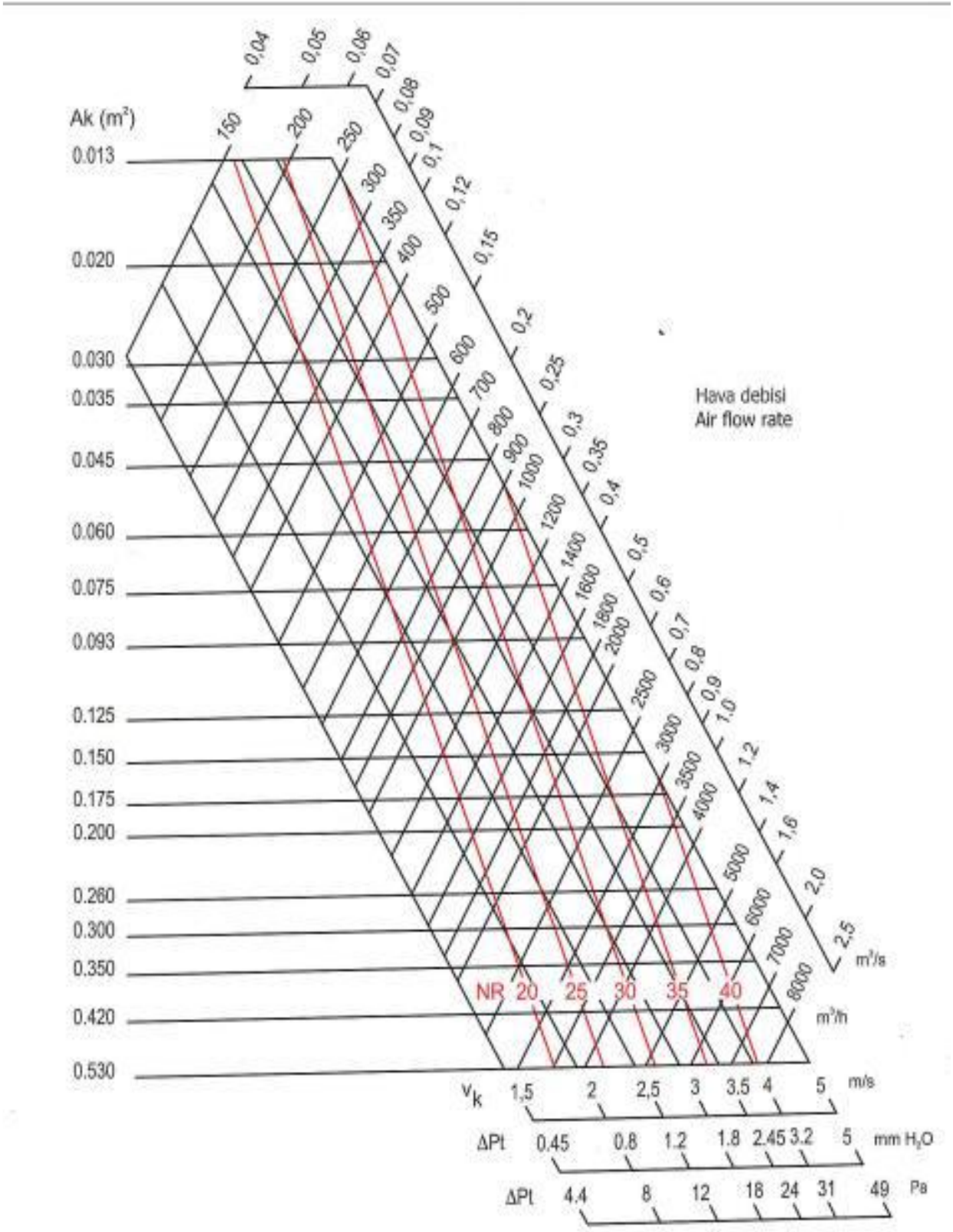
CLIP ASSEMBLY



SCREW ASSEMBLY

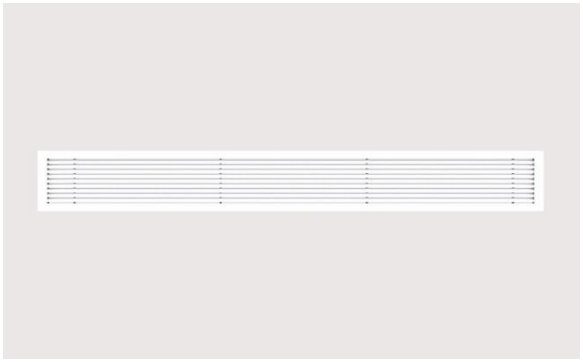
CENKAY TEKNİK

SELECTION DİYAGRAM



CENKAY TEKNİK

LINEER GRILLES –CKM-03



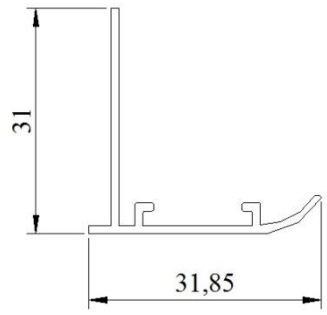
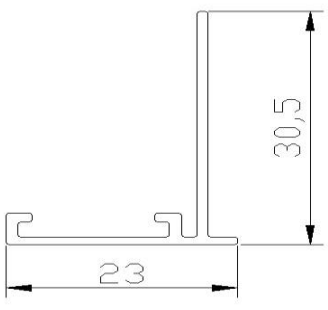
AREA OF USAGE AND FEATURES: It is used as a blower and sucks air vents in HVAC systems. To be used for blowing and sucking purposes for ceiling applications.at fan-coil applications, it can be used as sucking air vent standard manufacturing is without screw. The way of assembling can be adjustable depends upon the requirement.

MATERIAL: Aluminium profile produced by the extrusion method

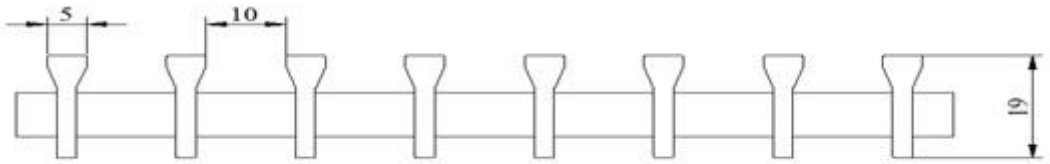
SURFACE COATING: Product can be manufactured in requested colour by electrostatic powder paint, eloksal coating or without paint.

ACCESSORIES: Menfez Airvent Damper, Airvent box, Installation blind case

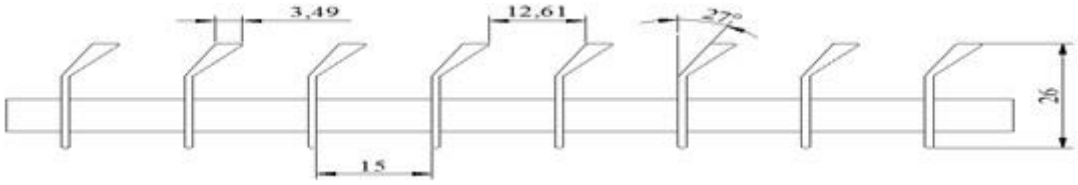
FRAME TYPES

STANDART FRAME	NARROW FRAME
	

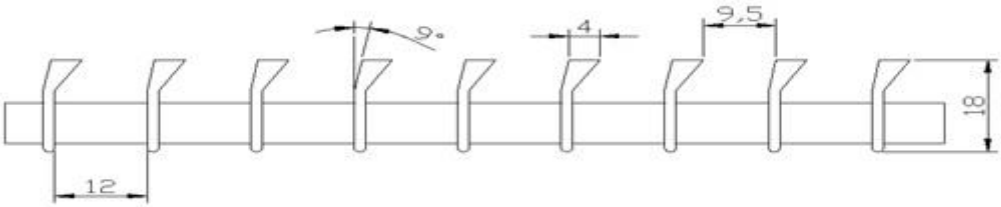
WING STRUCTURE :



WING ANGLE: 0°
USAGE AREAS: RAISED FLOOR FLOOR CONVECTOR ,IN WALL AND POOL APPLICA



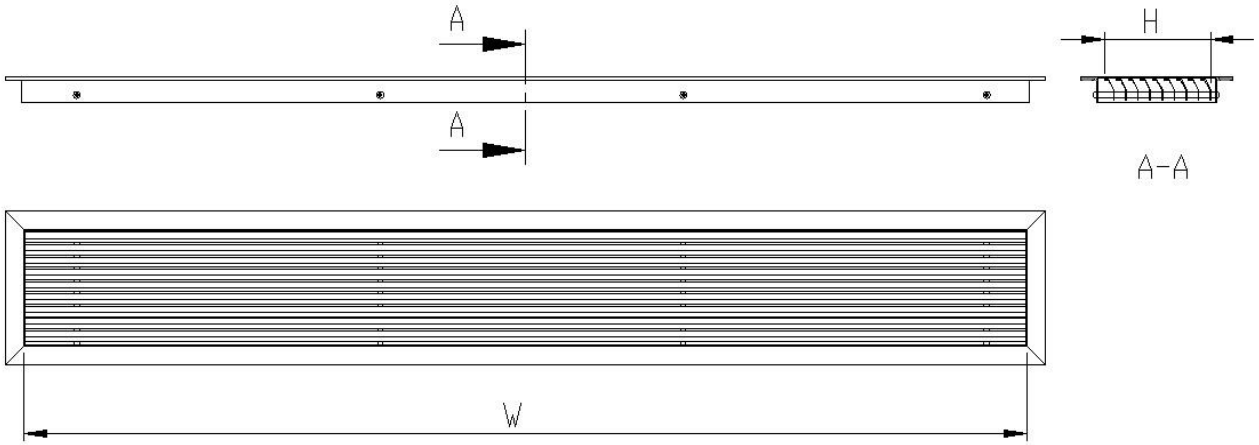
WING ANGLE: 27°
USAGE AREAS: RAISED FLOOR FLOOR CONVECTOR, IN WALL AND POOL APPLICA



WING ANGLE: 9°
USAGE AREAS: RAISED FLOOR FLOOR CONVECTOR, IN WALL AND POOL APPLICA

TECHNICAL MEASUREMENT

W	**200-250-300-350-400-450-500-600-700-800-900-1000-1100-1200-1300-1400-1500-2000**
H	**50-75-100-150-200-250-300-350-400-450-500**
COMBINATION CAN BE DONE IN REQUESTED MEASUREMENTS	



CENKAY TEKNİK

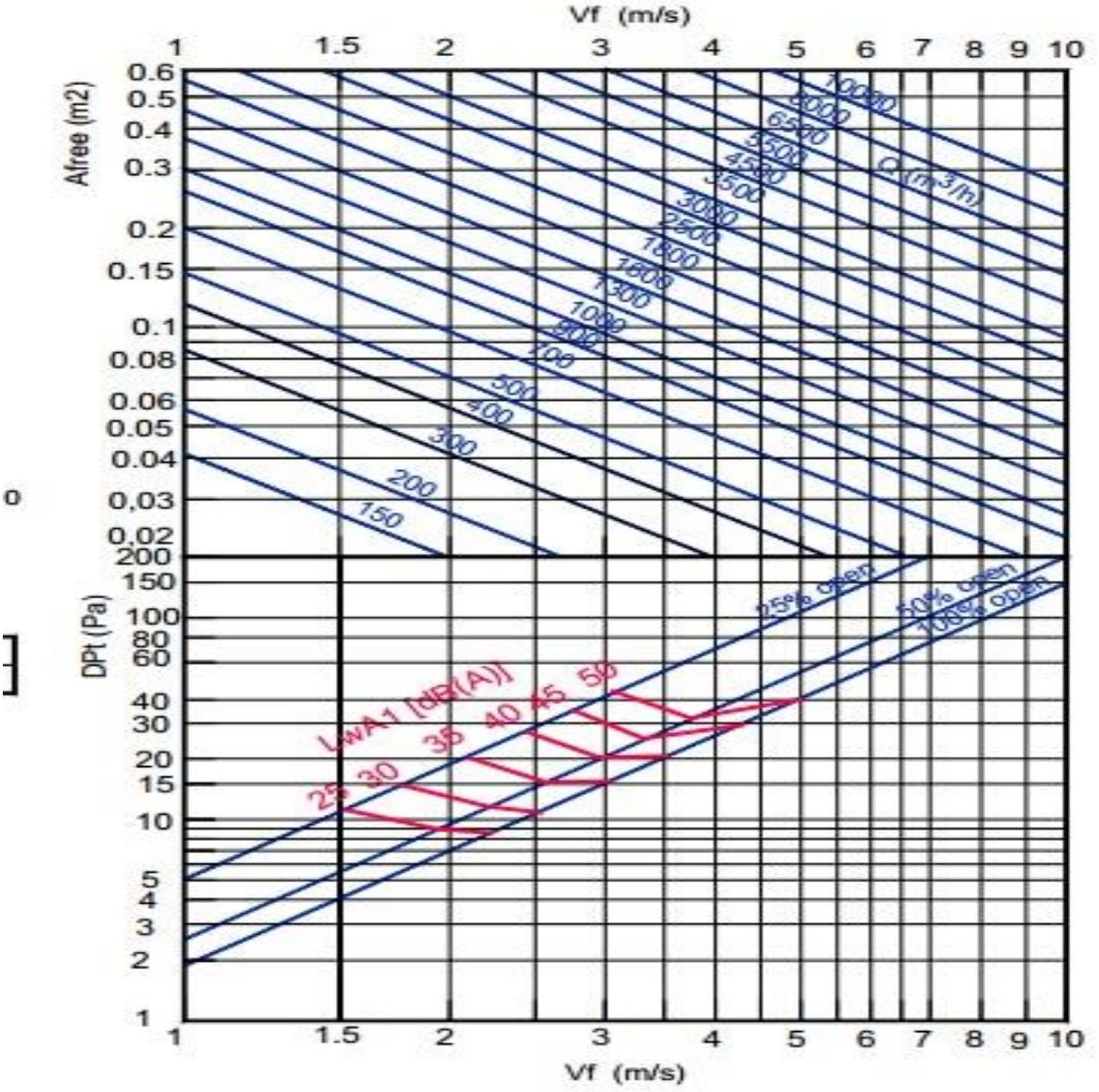
O ^{0} WING ANGLE LINEER GRILLES EFECTİVE AREA m2

W+H	50	75	100	125	150	175	200	250	300	350	400	450	500
200	0,0067	0,0101	0,0134	0,0168	0,0201	0,0235	0,0003						
250	0,0083	0,0125	0,0167	0,0208	0,025	0,0292	0,0333	0,0417					
300	0,0100	0,0150	0,0200	0,0250	0,0300	0,0350	0,0400	0,0500	0,0600				
350	0,0117	0,0175	0,0233	0,0292	0,0350	0,0408	0,0467	0,0583	0,0700	0,0817			
400	0,0133	0,0200	0,0267	0,0333	0,0400	0,0467	0,0533	0,0667	0,0800	0,0933	0,1067		
450	0,0150	0,0225	0,0300	0,0375	0,0450	0,0525	0,0600	0,0750	0,0900	0,1050	0,1200	0,2025	
500	0,0167	0,0250	0,0333	0,0417	0,0500	0,0583	0,0667	0,0833	0,1000	0,1167	0,1333	0,1500	0,1667
600	0,0167	0,0300	0,0400	0,0500	0,0600	0,0700	0,0800	0,1000	0,1200	0,1400	0,1600	0,1800	0,2000
700	0,0200	0,0350	0,0467	0,0583	0,0700	0,0817	0,0933	0,1167	0,1400	0,1633	0,1867	0,2100	0,2333
800	0,0233	0,0400	0,0533	0,0667	0,0800	0,0933	0,1067	0,1333	0,1600	0,1867	0,2133	0,2400	0,2667
900	0,0267	0,0450	0,0600	0,0750	0,0900	0,1050	0,1200	0,1500	0,1800	0,2100	0,2400	0,2700	0,3000
1000	0,0300	0,0500	0,0667	0,0833	0,1000	0,1167	0,1333	0,1667	0,2000	0,2333	0,2667	0,3000	0,3333
1100	0,0333	0,0550	0,0733	0,0917	0,1100	0,1283	0,1467	0,1833	0,2200	0,2567	0,2933	0,3300	0,3667
1200	0,0367	0,0600	0,0800	0,1000	0,1200	0,1400	0,1600	0,2000	0,2400	0,2800	0,3200	0,3600	0,4000
1300	0,0400	0,0650	0,0867	0,1083	0,1300	0,1517	0,1733	0,2167	0,2600	0,3033	0,3467	0,3900	0,4333
1400	0,0433	0,0700	0,0933	0,1167	0,1400	0,1633	0,1867	0,2333	0,2800	0,3267	0,3733	0,4200	0,4667
1500	0,0467	0,0750	0,1000	0,1250	0,1500	0,1750	0,2000	0,2500	0,3000	0,3500	0,4000	0,4500	0,5000

1O ^{0} , 27^{0} WING ANGLE LINEER GRILLES EFECTİVE AREA m2

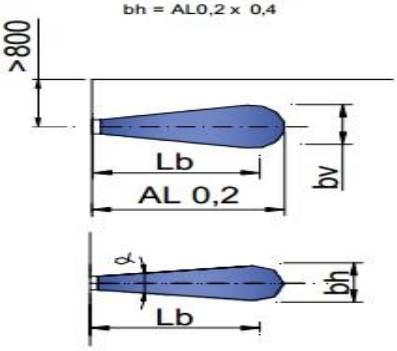
W+H	50	75	100	125	150	175	200	250	300	350	400	450	500
200	0,0076	0,0115	0,1530	0,0191	0,0229	0,0268	0,0306						
250	0,0101	0,0190	0,0253	0,0254	0,0304	0,0355	0,0406	0,0507					
300	0,0126	0,0150	0,0200	0,0316	0,0379	0,0443	0,0506	0,0632	0,0759				
350	0,0151	0,0227	0,0303	0,0379	0,0454	0,0530	0,0606	0,0757	0,0909	0,1060			
400	0,0176	0,0265	0,0353	0,0441	0,0529	0,0618	0,0706	0,0882	0,1059	0,1235	0,1412		
450	0,0201	0,0302	0,0403	0,5040	0,0604	0,0705	0,0806	0,1007	0,1209	0,1410	0,1612	0,1813	
500	0,0226	0,0340	0,0453	0,0566	0,0679	0,0793	0,0906	0,1132	0,1359	0,1585	0,1812	0,2038	0,2265
600	0,0276	0,0415	0,0553	0,0691	0,0829	0,0968	0,1106	0,1382	0,1659	0,1935	0,2212	0,2488	0,2765
700	0,0326	0,0490	0,0653	0,0816	0,0979	0,1143	0,1306	0,1632	0,1959	0,2285	0,2612	0,2938	0,3265
800	0,0376	0,0565	0,0753	0,0941	0,1129	0,1318	0,1506	0,1882	0,2259	0,2635	0,3012	0,3388	0,3765
900	0,0426	0,0640	0,0853	0,1066	0,1279	0,1493	0,1706	0,2132	0,2559	0,2985	0,3412	0,3838	0,4265
1000	0,0476	0,0715	0,0953	0,1191	0,1429	0,1668	0,1906	0,2382	0,2859	0,3335	0,3812	0,4288	0,4765
1100	0,0526	0,0790	0,1053	0,1316	0,1579	0,1843	0,2106	0,2632	0,3159	0,3685	0,4212	0,4738	0,5265
1200	0,0576	0,0865	0,1153	0,1441	0,1729	0,2018	0,2306	0,2882	0,3459	0,4035	0,4612	0,5188	0,5765
1300	0,0626	0,0940	0,1253	0,1566	0,1879	0,2193	0,2506	0,3132	0,3759	0,4385	0,5012	0,5638	0,6265
1400	0,0676	0,1015	0,1353	0,1691	0,2029	0,2368	0,2706	0,3382	0,4059	0,4735	0,5412	0,6088	0,6765
1500	0,0073	0,1090	0,1453	0,1816	0,2179	0,2543	0,2906	0,3632	0,4359	0,5085	0,5812	0,6538	0,7265

CENKAY TEKNİK



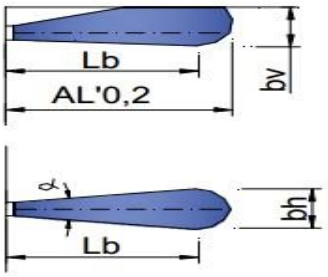
POSITION OF BLADES 0°
WITHOUT CEILING EFFECT.

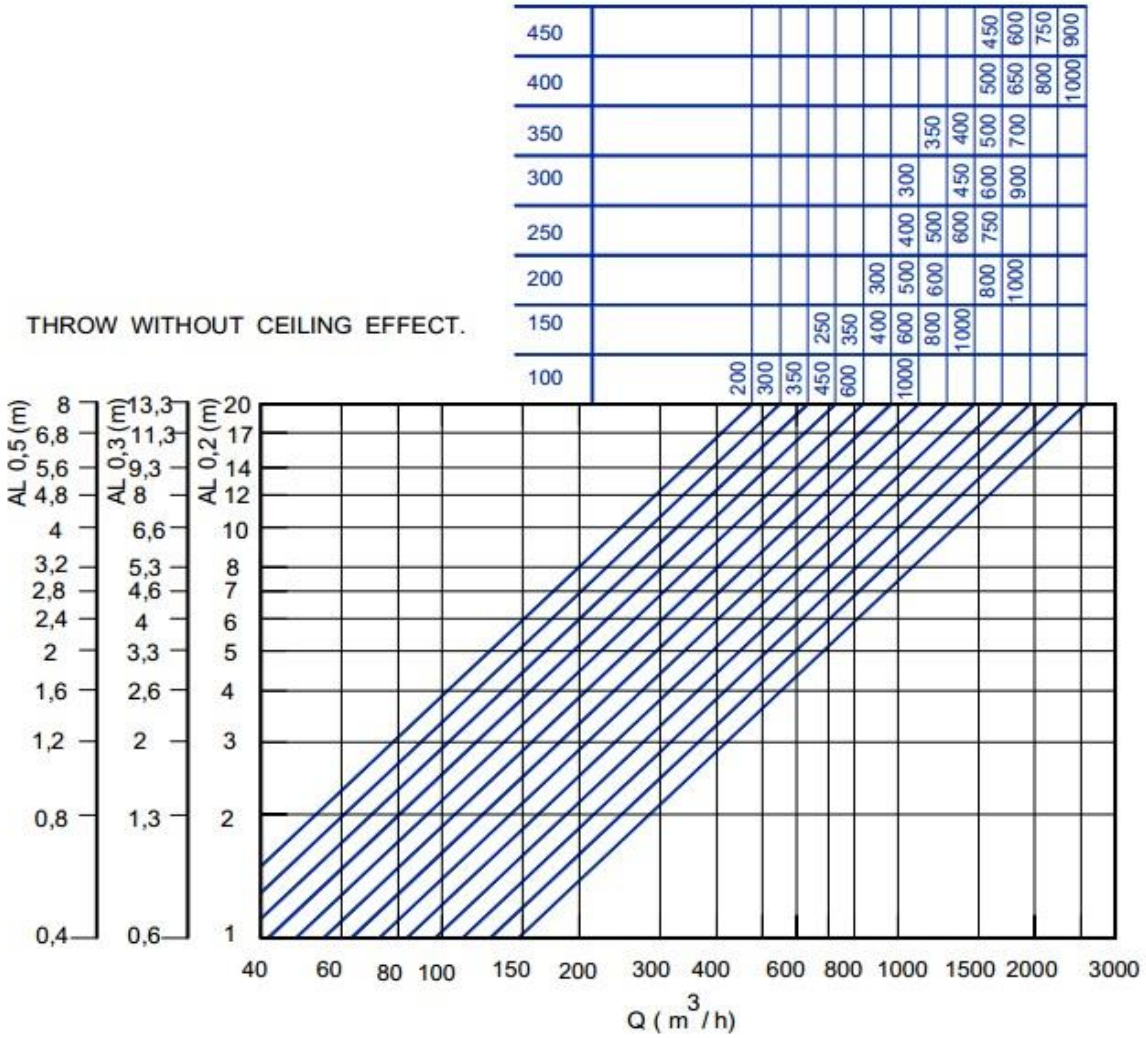
AL0,2
Lb = AL0,2 x 0,53
bv = AL0,2 x 0,12
bh = AL0,2 x 0,4



POSITION OF BLADES 0°
WITH CEILING EFFECT.

AL'0,2 = AL0,2 x 1,33
Lb = AL0,2 x 0,7
bv = Al0,2 x 0,106
bh = Al0,2 x 0,53

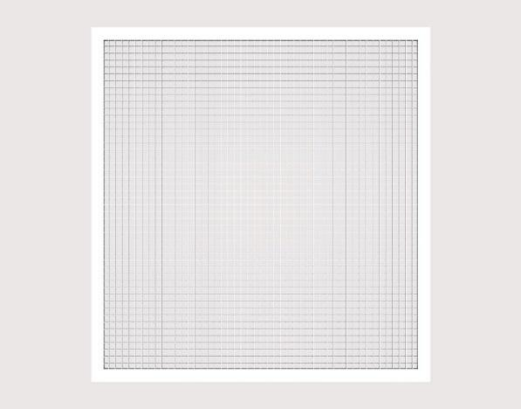


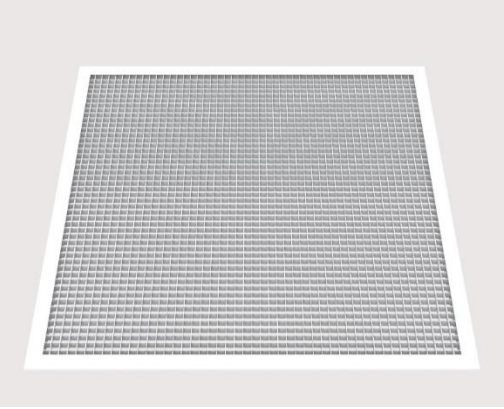


SOME APLLICATION AREAS	Speed of Blower(m/s)
Radio and film studios, Surgery rooms	1,5 – 2,5
Bedrooms, Hotel Rooms,Offices,Residances, Hospitals, Mosques,Churchs etc.	2 – 4
Concert Halls, Dining Rooms, Classrooms,Banks,Libraries,Game Rooms,Conference Halls	2,5 – 5
Restaurants, Cafeteries, Hotel Lobbies, Theaters,Cinemas, Shopping Malls, Ball Rooms	2,5 – 6
Supermarkets, Factories, Gym, Industrial Kitchens/ Warehouses	5 – 10

CENKAY TEKNİK

EGG CRATE GRILLES – RETURN GRILLES –CKM-04





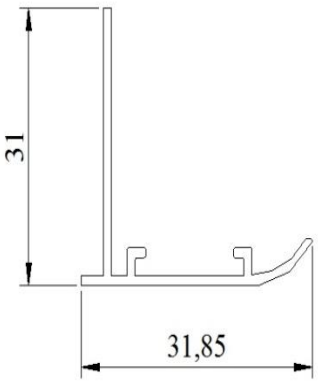
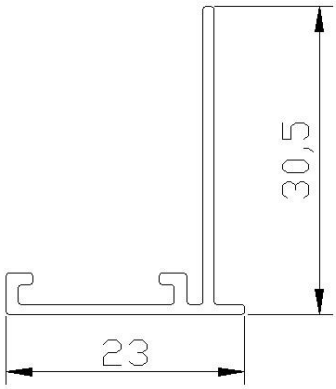
AREA OF USAGE AND FEATURES: It is used as a blower and air vents in hvac systems. To be used for blowing and sucking purposes for ceiling applications. At fan-coil applications, it can be used as sucing air vent. Standard manufacturing is screwless. Installation way depends on the adjustable requirement

MATERIAL: Aluminium profile produced by the extrusion method

SURFACE COATING: Product can be manufactured in requested colour by electrostatic powder paint, eloksal coating or without paint.

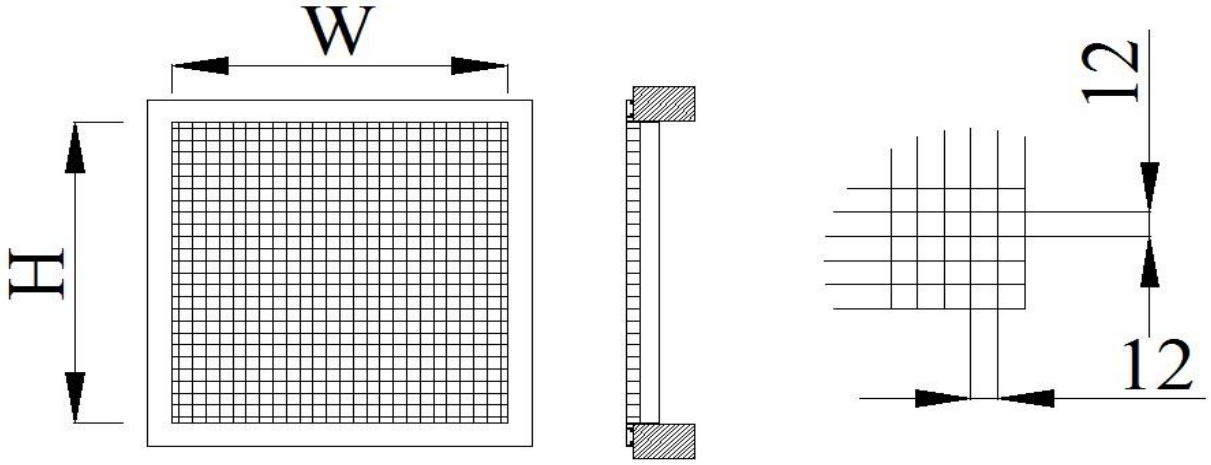
ACCESSORIES: Air damper, plenum box, mounting blind case.

FRAME TYPES

STANDARD FRAME	NARROW FRAME
	

TECHNICAL DIMENSIONS

W	**100-150-200-250-300-350-400-450-500-600-700-800-900-1000-1100-1200**
H	**100-150-200-250-300-350-400-450-500-600-700-800-900-1000**
COMBINATION CAN BE DONE IN REQUESTED DIMENS	



SOME APPLICATION AREAS	**Air velocity (m/s)**
Radio and film studios, Surgery rooms	**1,5 – 2,5**
Bedrooms, Hotel Rooms,Offices,Residances, Hospitals, Mosques,Churchs etc.	**2 – 4**
Concert Halls, Dining Rooms, Classrooms,Banks,Libraries,Game Rooms,Conferenece Halls	**2,5 – 5**
Restaurants, Cafeteries, Hotel Lobbies, Theaters,Cinemas, Shopping Malls, Ballroooms	**2,5 – 6**
Supermakets, Factories, Gym, Industrial Kitchens/ Warehouses	**5 – 10**

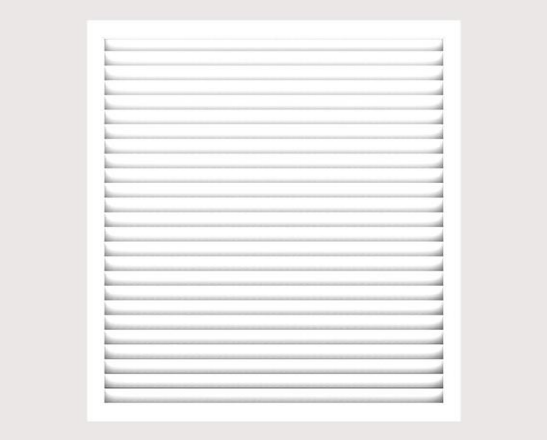
CENKAY TEKNİK

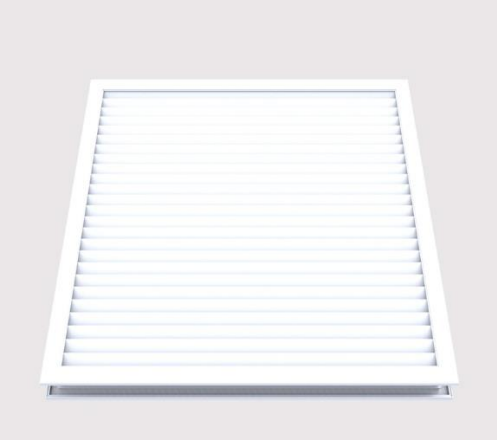
SELECTION DIAGRAM :

EFFECTIVE AREA m2	DIMENSION W*H (mm)	AIR VELOCITY m/s	1,5	2	2,5	3	3,5	4	5
		PRESSURE LOSS (Pa)	4	6	9	13	18	22	35
0,017	200*100 150*150	m³/h dBA	90 -	126 -	151 -	187 -	220 21	256 25	313 31
0,024	200*150 350*100	m³/h dBA	136 -	180 -	220 -	263 16	306 23	360 26	450 32
0,033	250*150 200*200	m³/h dBA	180 -	237 -	299 -	360 17	414 25	475 27	594 34
0,042	350*150 250*200	m³/h dBA	234 -	306 -	378 -	450 18	540 26	612 28	756 35
0,051	400*150 300*200 250*250	m³/h dBA	288 -	378 -	468 -	558 19	648 26	756 28	936 37
0,065	300*250 500*150 350*200	m³/h dBA	360 -	486 -	594 -	720 20	828 27	954 30	1188 38
0,079	350*250 300*300 450*200	m³/h dBA	432 -	576 -	720 15	864 21	1010 28	1152 31	1400 40
0,093	400*250 350*300 500*200	m³/h dBA	504 -	684 -	846 16	1026 22	1188 28	1361 31	1692 41
0,111	500*250 350*350 400*300	m³/h dBA	612 -	810 -	1026 16	1224 23	1440 29	1638 33	2034 42
0,125	400*350 450*300 550*250	m³/h dBA	684 -	918 -	1152 17	1368 23	1602 30	1836 33	2286 44
0,144	450*350 400*400 550*300	m³/h dBA	792 -	1062 -	1332 18	1584 24	1854 30	2124 34	2646 44
0,165	500*350 450*400 600*300	m³/h dBA	900 -	1206 -	1512 19	1800 24	2106 30	2412 35	3010 44
0,186	500*400 450*450 700*300	m³/h dBA	1026 -	1350 -	1710 19	2034 25	2376 32	2719 35	3400 45
0,231	550*450 500*550 650*400	m³/h dBA	1278 -	1692 -	2124 20	2556 26	2970 33	3402 36	4248 46
0,251	600*450 700*400 900*300	m³/h dBA	1368 -	1536 -	2286 20	2754 26	3204 33	3672 36	4590 46
0,301	750*450 800*400 600*550	m³/h dBA	1638 -	2178 -	2718 22	3258 27	3798 34	4356 38	5436 48
0,335	800*450 600*600 900*400	m³/h dBA	1836 -	2448 -	3060 22	3672 27	4284 25	4914 38	6120 50
0,391	900*450 1200*350 700*600	m³/h dBA	2140 -	2860 -	3582 23	4284 29	5004 35	5724 39	7128 52
0,511	1200*450 900*600 750*750	m³/h dBA	2790 -	3726 -	4662 24	5600 29	6520 36	7450 40	9310 -
0,571	1200*500 1000*600	m³/h dBA	3132 -	4176 15	5220 24	6264 30	7310 37	8350 41	10370 -
0,686	1200*600 900*800	m³/h dBA	3760 -	5040 16	6300 25	7560 32	8820 40	10080 43	12600 -

CENKAY TEKNİK

DOOR TRANSFER GRILLES –CKM-05



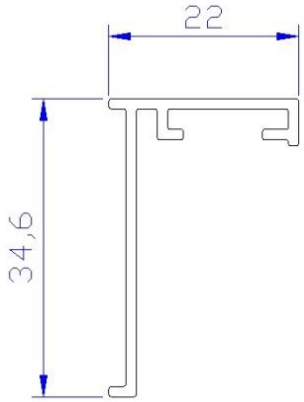
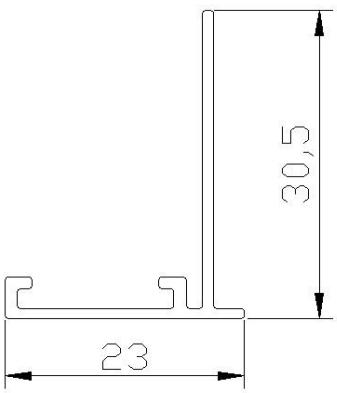


AREA OF USAGE AND FEATURES: It is used as air transfer grilles between neighbouring locations. Door transfer grilles are manufactured with fixed wings. Transfer grilles can be used for a minimum of 40 mm thickness. Image is the same on the front and back. Standard manufacturing is screwless. Installation way depends on the adjustable requirement.

MATERIAL: Aluminium profile produced by the extrusion method

SURFACE COATING: Product can be manufactured in requested colour by electrostatic powder paint, eloksal coating or without colour.

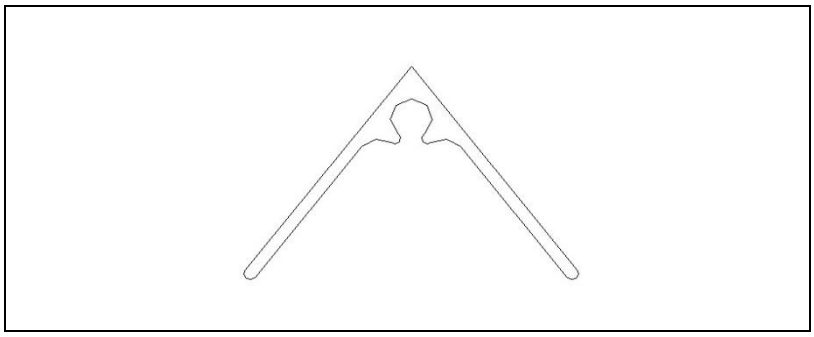
FRAME TYPES

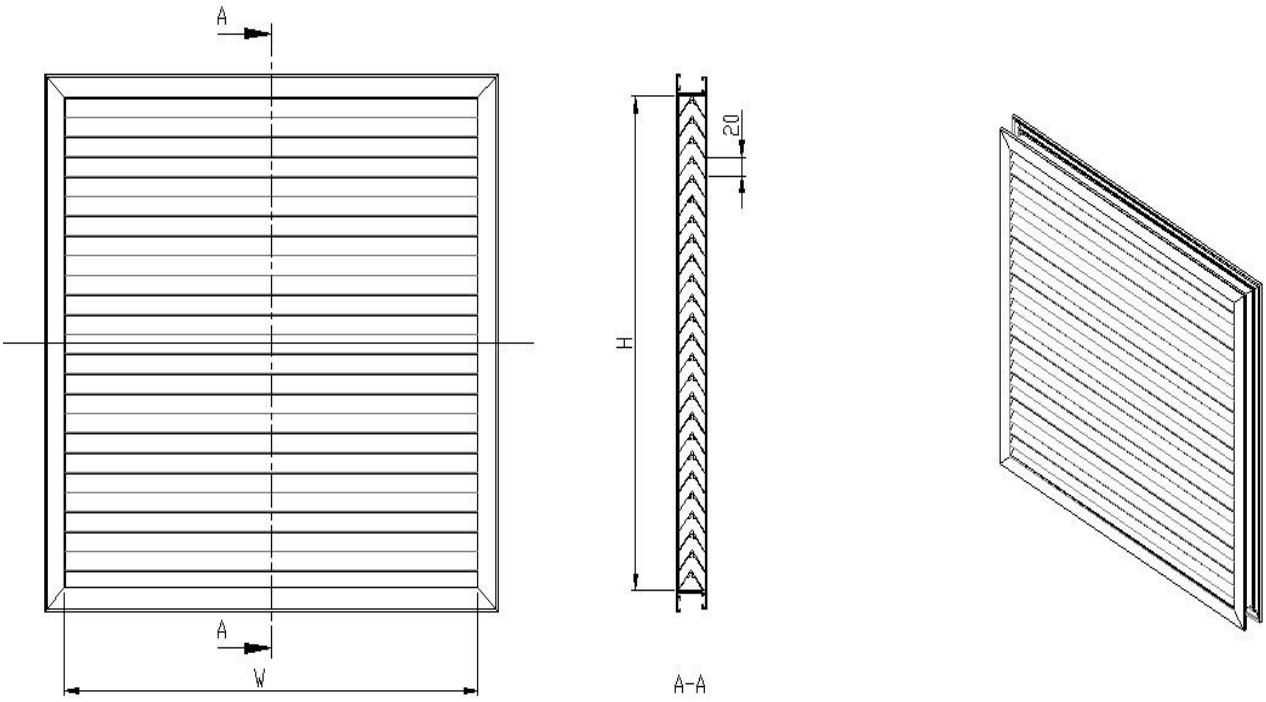
STANDARD FRAME	NARROW FRAME
	

TECHNICAL DIMENSIONS

W	**100-150-200-250-300-350-400-450-500-600-700-800-900-1000-1100-1200**
H	**100-150-200-250-300-350-400-450-500-600-700-800-900-1000**
COMBINATION CAN BE DONE IN REQUESTED DIMENS	

WING PROFILE





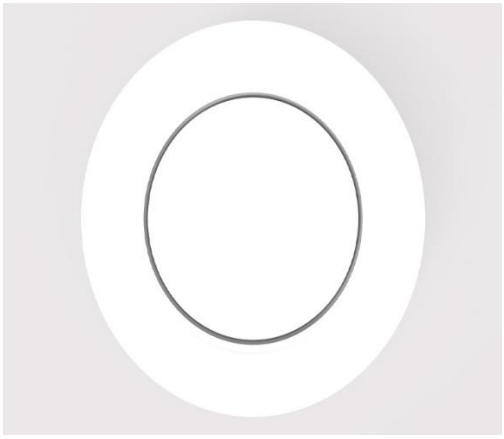
CENKAY TEKNİK

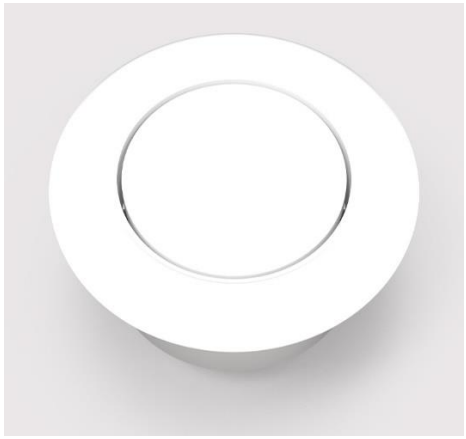
SELECTION DIAGRAM :

EFFECTIVE AREA m2	DIMENSION W*H (mm)	AIR VELOCITY m/s	1,5	2	2,5	3	3,5	4	5
		PRESSURE LOSS (Pa)	4	6	9	13	18	22	35
0,017	200*100 150*150	m³/h dBA	90 -	126 -	151 -	187 -	220 21	256 25	313 31
0,024	200*150 350*100	m³/h dBA	136 -	180 -	220 -	263 16	306 23	360 26	450 32
0,033	250*150 200*200	m³/h dBA	180 -	237 -	299 -	360 17	414 25	475 27	594 34
0,042	350*150 250*200	m³/h dBA	234 -	306 -	378 -	450 18	540 26	612 28	756 35
0,051	400*150 300*200 250*250	m³/h dBA	288 -	378 -	468 -	558 19	648 26	756 28	936 37
0,065	300*250 500*150 350*200	m³/h dBA	360 -	486 -	594 -	720 20	828 27	954 30	1188 38
0,079	350*250 300*300 450*200	m³/h dBA	432 -	576 -	720 15	864 21	1010 28	1152 31	1400 40
0,093	400*250 350*300 500*200	m³/h dBA	504 -	684 -	846 16	1026 22	1188 28	1361 31	1692 41
0,111	500*250 350*350 400*300	m³/h dBA	612 -	810 -	1026 16	1224 23	1440 29	1638 33	2034 42
0,125	400*350 450*300 550*250	m³/h dBA	684 -	918 -	1152 17	1368 23	1602 30	1836 33	2286 44
0,144	450*350 400*400 550*300	m³/h dBA	792 -	1062 -	1332 18	1584 24	1854 30	2124 34	2646 44
0,165	500*350 450*400 600*300	m³/h dBA	900 -	1206 -	1512 19	1800 24	2106 30	2412 35	3010 44
0,186	500*400 450*450 700*300	m³/h dBA	1026 -	1350 -	1710 19	2034 25	2376 32	2719 35	3400 45
0,231	550*450 500*550 650*400	m³/h dBA	1278 -	1692 -	2124 20	2556 26	2970 33	3402 36	4248 46
0,251	600*450 700*400 900*300	m³/h dBA	1368 -	1536 -	2286 20	2754 26	3204 33	3672 36	4590 46
0,301	750*450 800*400 600*550	m³/h dBA	1638 -	2178 -	2718 22	3258 27	3798 34	4356 38	5436 48
0,335	800*450 600*600 900*400	m³/h dBA	1836 -	2448 -	3060 22	3672 27	4284 25	4914 38	6120 50
0,391	900*450 1200*350 700*600	m³/h dBA	2140 -	2860 -	3582 23	4284 29	5004 35	5724 39	7128 52
0,511	1200*450 900*600 750*750	m³/h dBA	2790 -	3726 -	4662 24	5600 29	6520 36	7450 40	9310 -
0,571	1200*500 1000*600	m³/h dBA	3132 -	4176 15	5220 24	6264 30	7310 37	8350 41	10370 -
0,686	1200*600 900*800	m³/h dBA	3760 -	5040 16	6300 25	7560 32	8820 40	10080 43	12600 -

CENKAY TEKNİK

DISK VALVES-CKM-06





AREA OF USAGE AND FEATURES: Bathroom and WC. They are used as air suction and disk vents. Thanks to the moving hubs of the disk valves, they adjust the amount of air and can be easily mounted. Standard manufacturing is screwless. The way of mounting can be changed optionally.

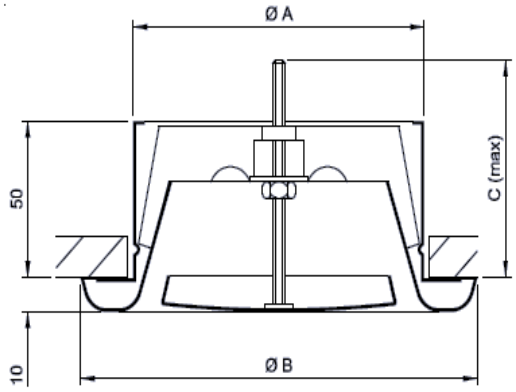
MATERIAL: It is manufactured from the galvanized plate by the spinning method.

SURFACE COATING: The standard colour of the product is 9010 painted. It can also be manufactured in any colour with electrostatic powder paint.

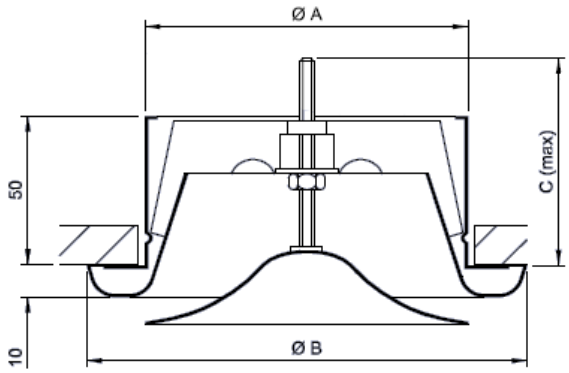
CENKAY TEKNİK

TECHNICAL INFORMATION

SUPPLY DISK VALVE



RETURN DISK VALVE

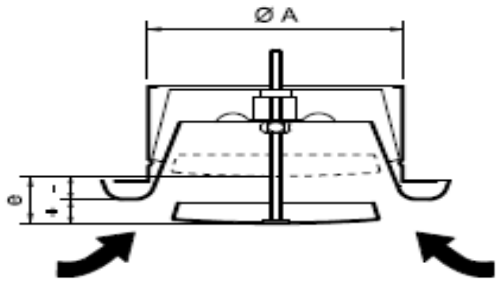


STANDARD DIMENSION :

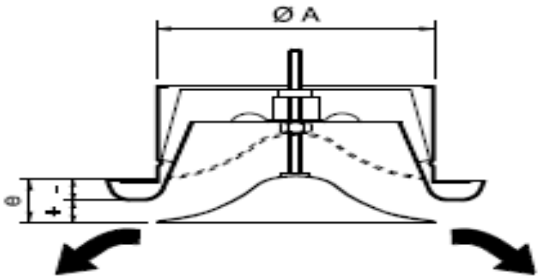
DISK VALVES STANDART DIMENSION (SUPPLY - RETURN)			
MODEL	DIMENSION (mm)		
	Ø A	Ø B	Ø C
∅ 80	79	115	70
∅ 100	99	137	70
∅ 125	124	161	85
∅150	149	202	85
∅ 160	159	212	85
∅ 200	199	248	110

AIR DIRECTIONS:

RETURN DISK VALVES



SUPPLY DISK VALVES



CENKAY TEKNİK

SELECTION TABLE:

Ø 80		Air Flow (m3/h)					
		29	36	43	54	65	72
e = +12mm	Presure loss Ps (Pa)	-	13	20	26	38	50
	Noise level NC (dB)	-	-	-	-	-	16
e = +6mm	Presure loss Ps (Pa)	12	22	35	44	70	-
	Noise level NC (dB)	-	-	-	-	20	-
e = 0mm	Presure loss Ps (Pa)	23	42	65	-	-	-
	Noise level NC (dB)	_	-	15	-	-	-
e = -6mm	Presure loss Ps (Pa)	75	-	-	-	-	-
	Noise level NC (dB)	15	-	-	-	-	-

Ø 100		Air Flow (m3/h)					
		36	43	54	65	72	83
e = +12mm	Presure loss Ps (Pa)	7	13	19	28	35	46
	Noise level NC (dB)	-	-_	-_	-_	-_	15
e = +6mm	Presure loss Ps (Pa)	15	22	32	47	56	78
	Noise level NC (dB)	-	-	-	-	15	20
e = 0mm	Presure loss Ps (Pa)	30	47	66	-	-	-
	Noise level NC (dB)	,	-	16	-	-	-
e = -6mm	Presure loss Ps (Pa)	77	-	-	-	-	-
	Noise level NC (dB)	15	-	-	-	-	-

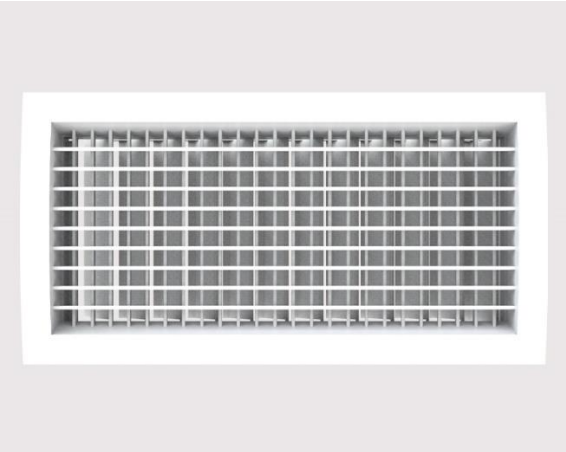
Ø 125		Air Flow (m3/h)					
		43	54	65	72	83	90
e = +12mm	Presure loss Ps (Pa)	-	7	12	18	26	32
	Noise level NC (dB)	-	-	-	-	-	-
e = +6mm	Presure loss Ps (Pa)	13	17	22	30	37	48
	Noise level NC (dB)	-	-_	-	-	-	-
e = 0mm	Presure loss Ps (Pa)	18	25	31	43	55	70
	Noise level NC (dB)	-	-	-	-	-	20
e = -6mm	Presure loss Ps (Pa)	35	47	56	80	-	-
	Noise level NC (dB)	-	-	15	19	-	-

Ø 150		Air Flow (m3/h)					
		54	65	72	83	90	101
e = +12mm	Presure loss Ps (Pa)	-	-	-	-	-	19
	Noise level NC (dB)	-	-	-	-	-	-
e = +6mm	Presure loss Ps (Pa)	6	g	14	18	22	27
	Noise level NC (dB)	-	-	-	-	-	-
e = 0mm	Presure loss Ps (Pa)	11	14	20	26	32	39
	Noise level NC (dB)	-	-	-	-	-	16
e = -9mm	Presure loss Ps (Pa)	50	62	80	-	-	-
	Noise level NC (dB)	15	16	22	-	-	-

Ø 200		Air Flow (m3/h)					
		108	144	180	216	252	288
e = +25mm	Presure loss Ps (Pa)	-	-	11	17	23	33
	Noise level NC (dB)	-	-	-	-	-	15
e = +10mm	Presure loss Ps (Pa)	8	17	27	40	52	70
	Noise level NC (dB)	-	-	-	16	21	26
e = 0mm	Presure loss Ps (Pa)	17	33	50	75	95	-
	Noise level NC (dB)	_	14	18	24	28	-
e = -10mm	Presure loss Ps (Pa)	50	90	-	-	-	-
	Noise level NC (dB)	15	25	-	-	-	-

CENKAY TEKNİK

RETURN AIR GRILLES - SINGLE DEFLECTION GRILLES (CYLINDER DUCT) — CKM-07



AREA OF USAGE AND FEATURES: Return air grilles used in cylindrical duct applications in air conditions systems. It used is as. Wings can be adjustable thru the front side of grilles. Standard production is with the screw.

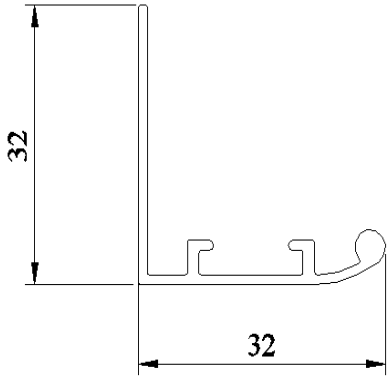
MATERIAL: Aluminium profile produced by the extrusion method

SURFACE COATING: Product can be manufactured in a requested colour by electrostatic powder paint.

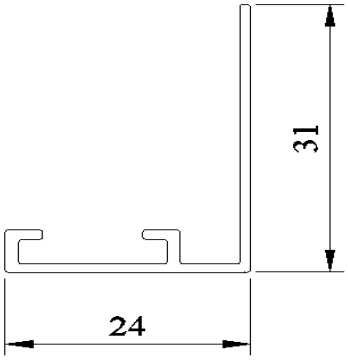
ACCESSORIES: Air vent Damper

FRAME TYPES

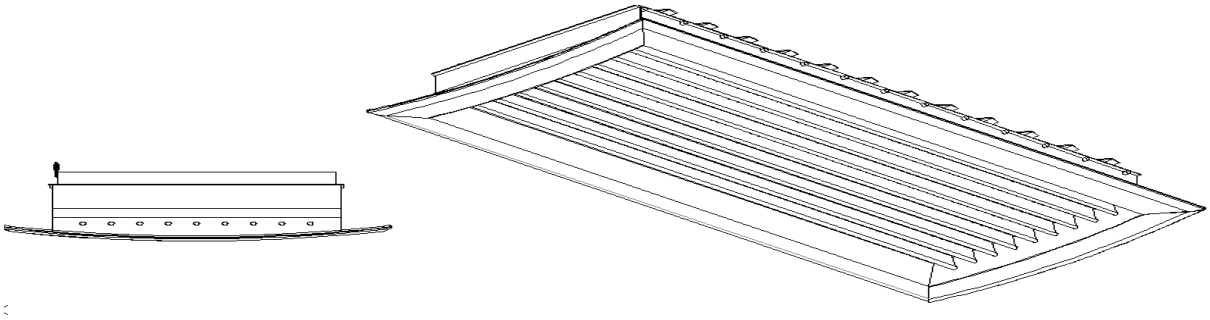
STANDART FRAME

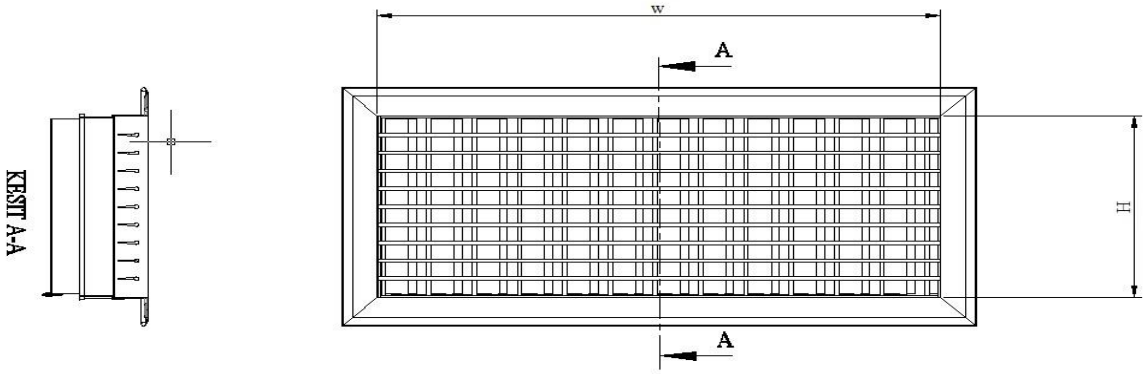


NARROW FRAME



CENKAY TEKNİK



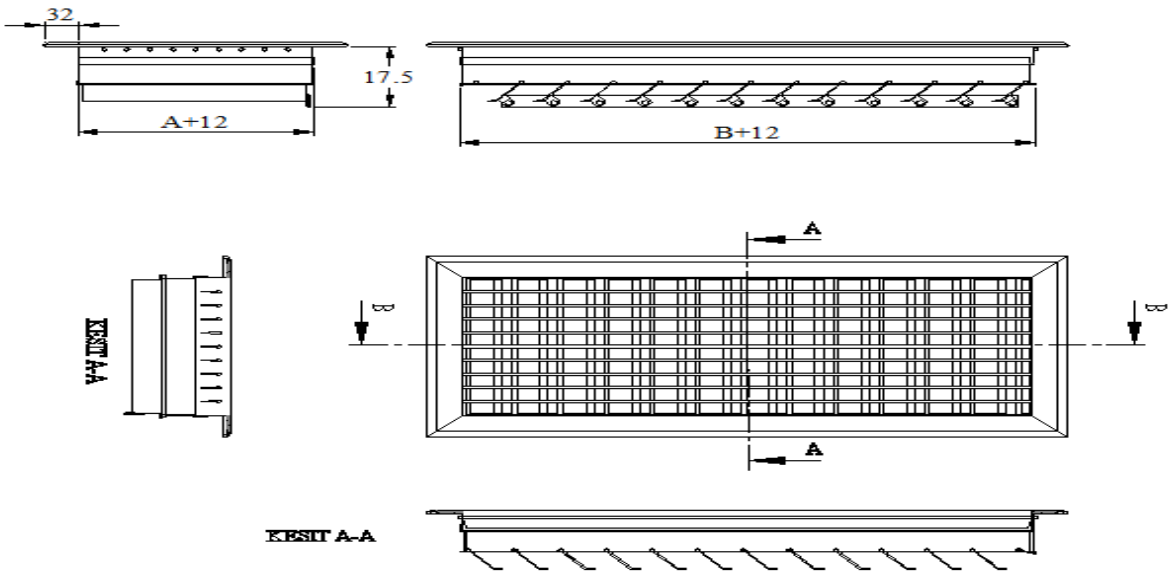


TECHNICAL MEASUREMENT

W **100-150-200-250-300-350-400-450- 500-600-700-800-900-1000-1100-1200**
H **100-150-200-250-300-350-400-450-500-600-700-800-900-1000**

The dimension H must be the max. of the duct radius 1/2 diameter

COMBINATION CAN BE DONE IN REQUESTED MEASUREMENTS.

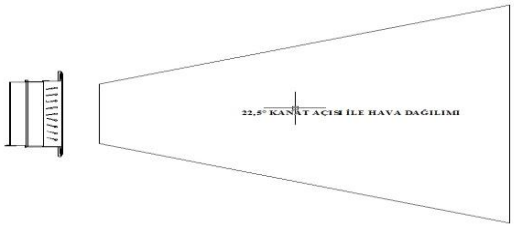


CENKAY TEKNİK

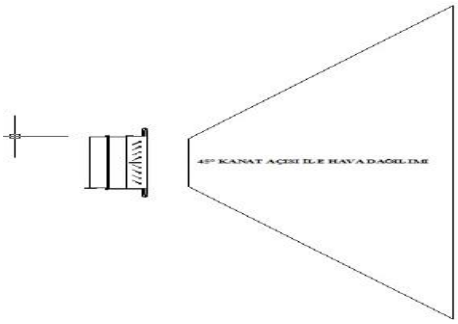
SOME APLLICATION AREAS	Speed of Blower (m/s)
Radio and film studios, Surgery rooms	1,5 – 2,5
Bedrooms, Hotel Rooms,Offices,Residances, Hospitals, Mosques,Churchs etc.	2 – 4
Concert Halls, Dining Rooms, Classrooms,Banks,Libraries,Game Rooms,Confenece Halls	2,5 – 5
Restaurants, Cafeteries, Hotel Lobbies, Theaters,Cinemas, Shopping Malls, Ball Roooms	2,5 – 6
Supermakets, Factories, Gym, Industrial Kitchens/ Warehouses	5 – 10

AIR STREAM REGARDS TO WINGS POSITION

SHOOTING RANGE MAX AT 0° POSITION. STATIC PRESSURE TO BE MIN.

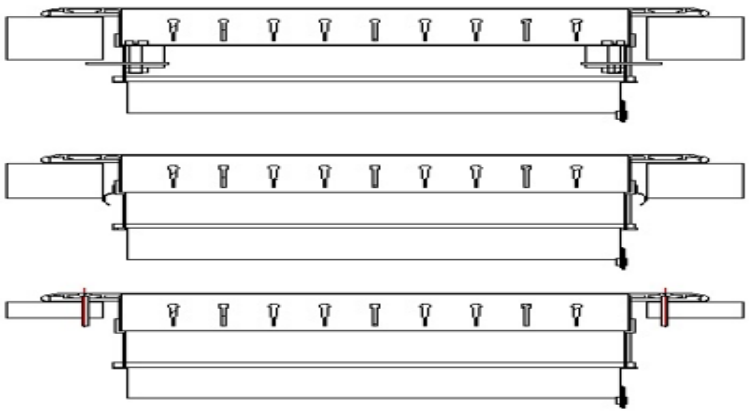


SHOOTING RANGE DECREASES DIFUSION INCRESE. STATIC PRESSURE INCRESES IN A RATIO OF ANGLES AT 22.5° WINGS POSITION



SHOOTING RANGE TO BE MIN. AT 45° WING POSITION. DIFUSION MAX. STATIC PRESSURE TO BE MAX.

MOUNTING METHOD



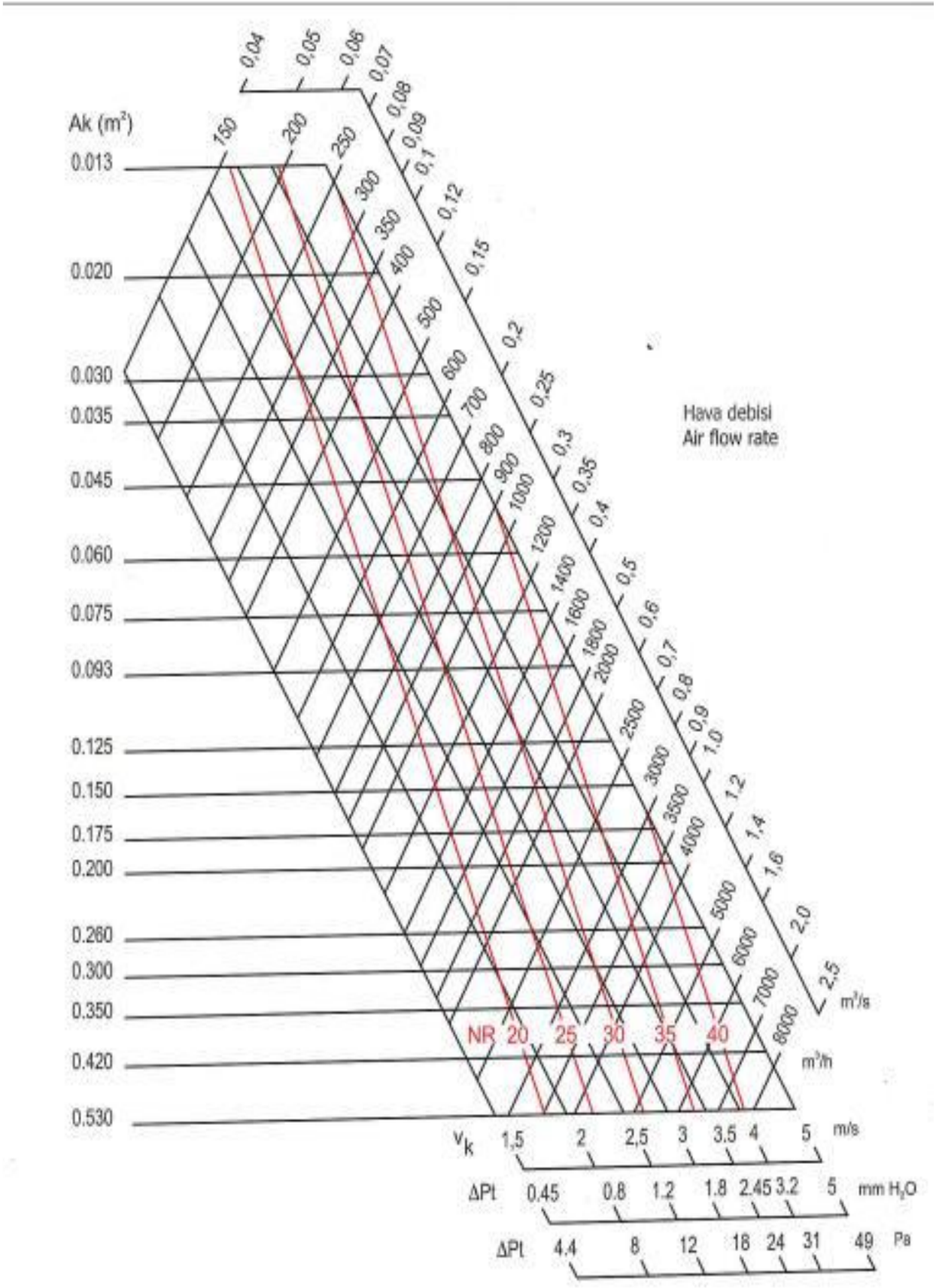
LATCH ASSEMBLY

CLIP ASSEMBLY

SCREW ASSEMBLY

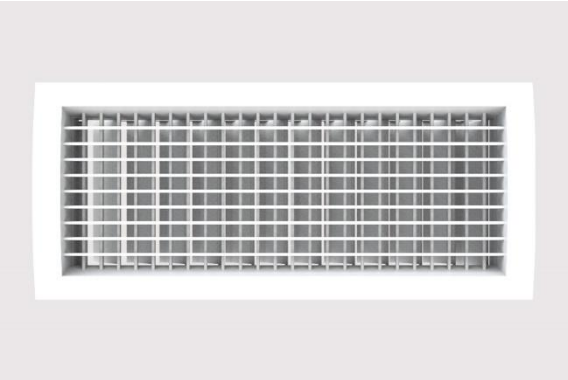
CENKAY TEKNİK

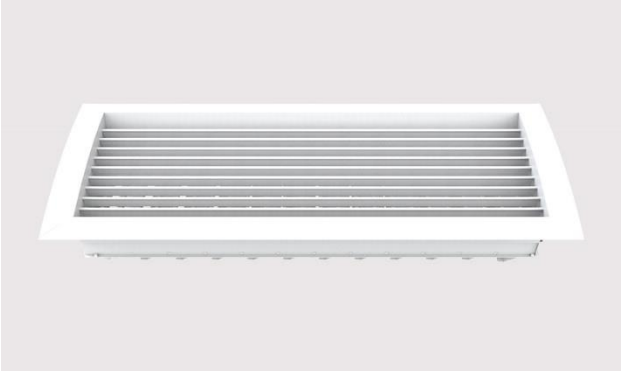
SELECTION DİYAGRAM



CENKAY TEKNİK

DOUBLE DEFLECTION GRILLES (CYLINDER DUCT) – SUPLLY AIR GRILLES – CKM-08





AREA OF USAGE AND FEATURES: Supply air grilles used in cylindrical duct applications in air conditions systems. It used is as. Wings can be adjustable thru the front side of grilles. Standard production is with a screw.

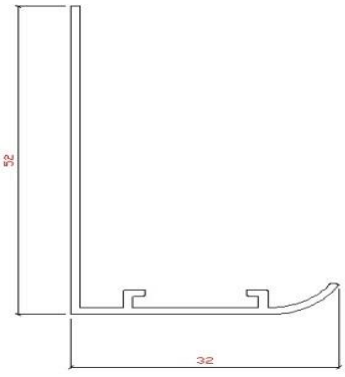
MATERIAL: Aluminium profile produced by the extrusion method

SURFACE COATING: Product can be manufactured in the requested colour by electrostatic powder paint.

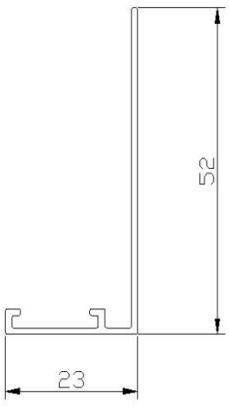
ACCESSORIES: Air vent Damper

FRAME TYPES

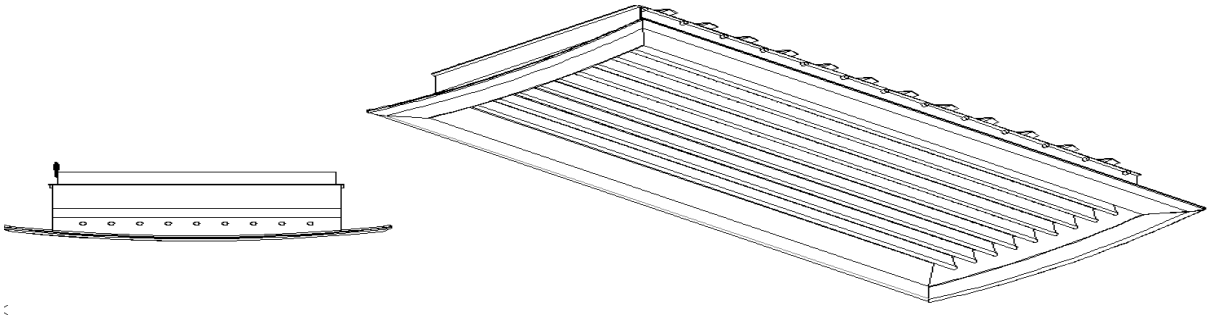
STANDART FRAME

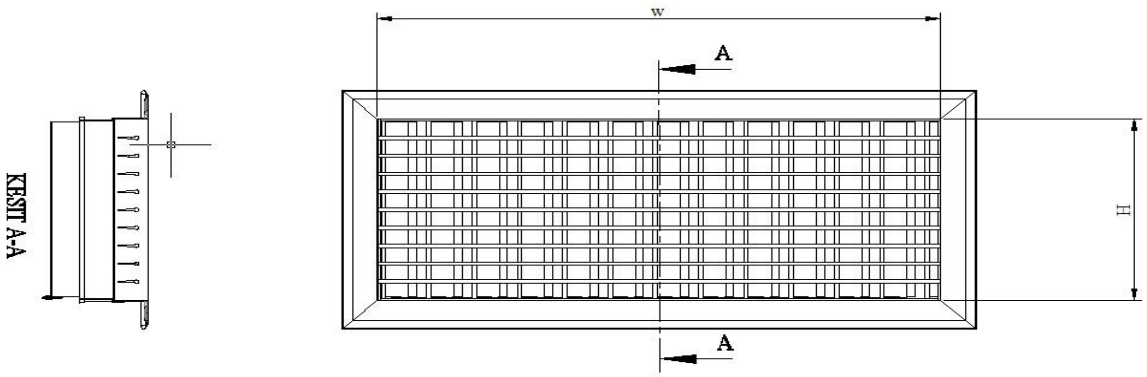


NARROW FRAME



CENKAY TEKNİK



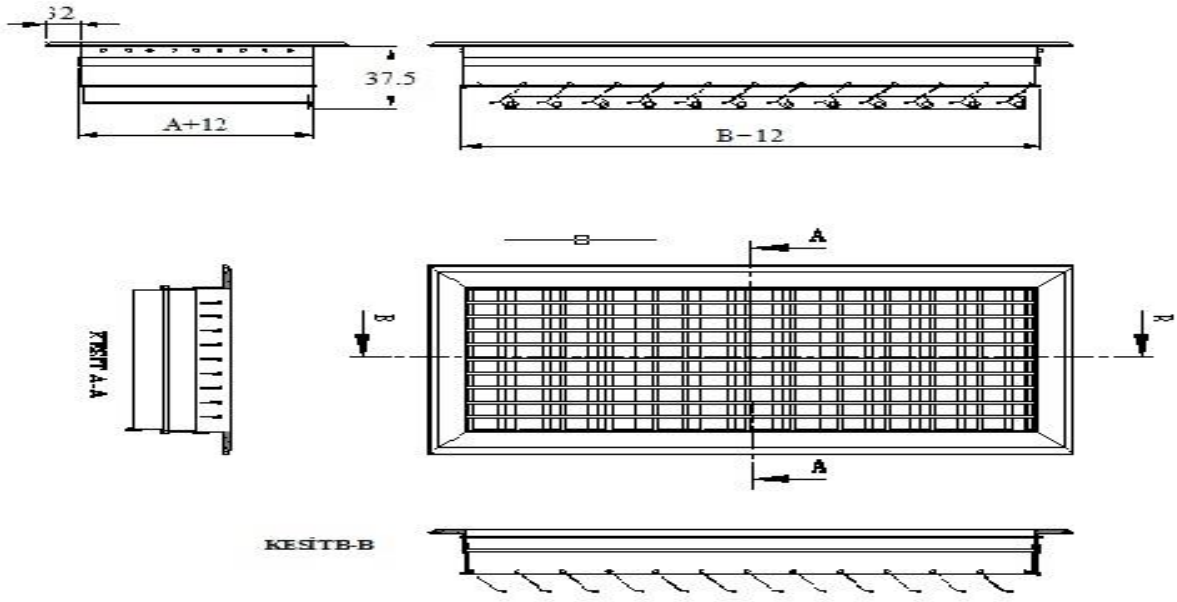


TECHNICAL MEASUREMENT

W **100-150-200-250-300-350-400-450- 500-600-700-800-900-1000-1100-1200**
H **100-150-200-250-300-350-400-450-500-600-700-800-900-1000**

The dimension H must be the max. of the duct radius 1/2 diameter

COMBINATION CAN BE DONE IN REQUESTED MEASUREMENTS.

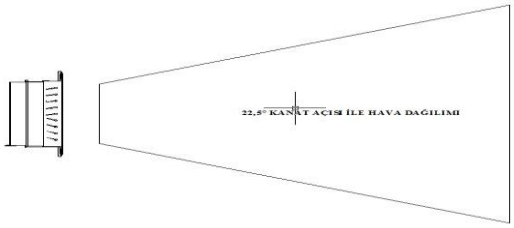


CENKAY TEKNİK

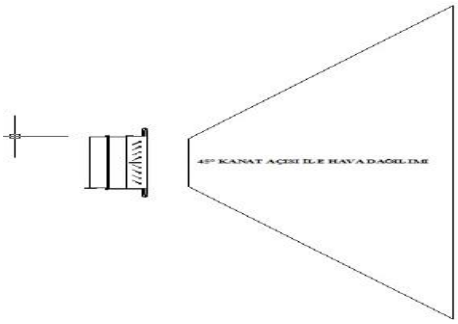
SOME APLLICATION AREAS	Speed of Blower (m/s)
Radio and film studios, Surgery rooms	1,5 – 2,5
Bedrooms, Hotel Rooms,Offices,Residances, Hospitals, Mosques,Churchs etc.	2 – 4
Concert Halls, Dining Rooms, Classrooms,Banks,Libraries,Game Rooms,Confenece Halls	2,5 – 5
Restaurants, Cafeteries, Hotel Lobbies, Theaters,Cinemas, Shopping Malls, Ball Roooms	2,5 – 6
Supermakets, Factories, Gym, Industrial Kitchens/ Warehouses	5 – 10

AIR STREAM REGARDS TO WINGS POSITION

SHOOTING RANGE MAX AT 0° POSITION. STATIC PRESSURE TO BE MIN.

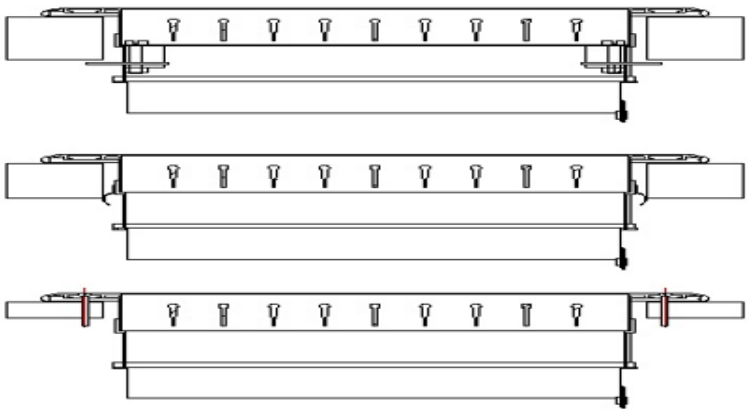


SHOOTING RANGE DECREASES DIFUSION INCRESE. STATIC PRESSURE INCRESES IN A RATIO OF ANGLES AT 22.5° WINGS POSITION



SHOOTING RANGE TO BE MIN. AT 45° WING POSITION. DIFUSION MAX. STATIC PRESSURE TO BE MAX.

MOUNTING METHOD

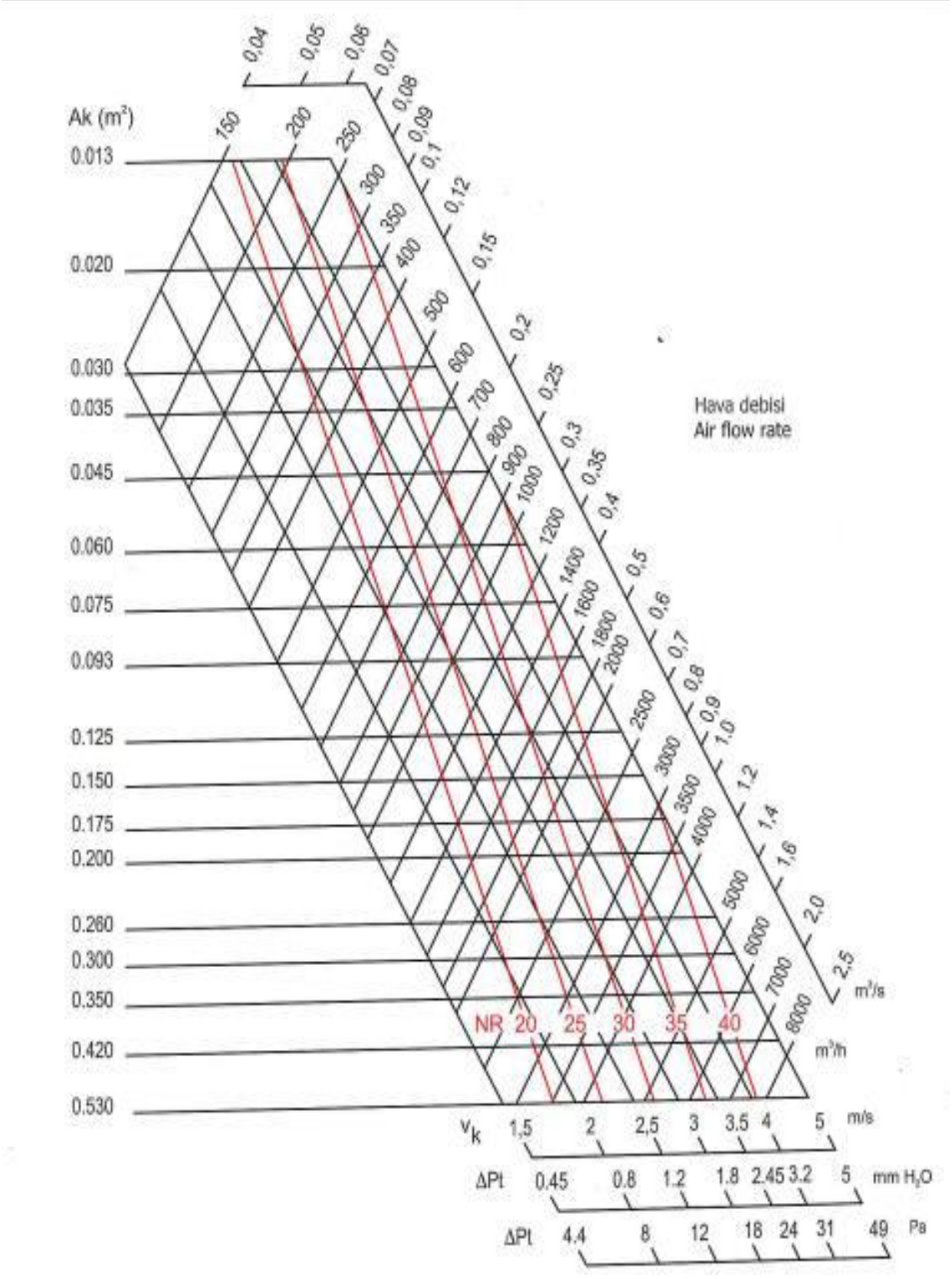


LATCH ASSEMBLY

CLIP ASSEMBLY

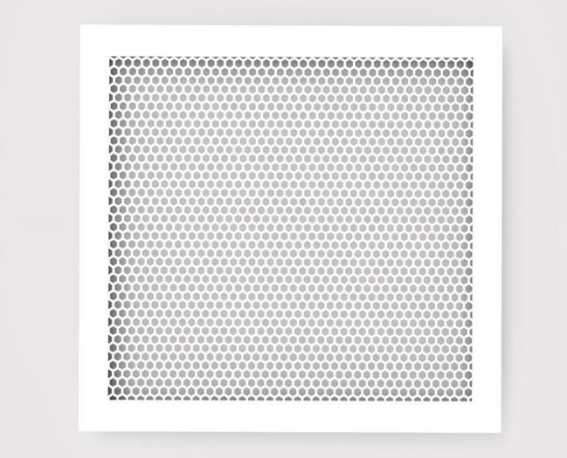
SCREW ASSEMBLY

SELECTION DİYAGRAM



CENKAY TEKNİK

PERFORATED GRILLE – SUPLLY AIR GRILLES –CKM-09



AREAS OF USE AND FEATURES: İs it used as blowing and suction diffusers in HVAC systems. Suitable for vertical and horizontal use. The ideal shooting distance is between 2.5-3.5 m. It is used in ceiling and wall applications. It is screw mounted as standard. Mounting type can be changed upon request. The effective area is about 50%.

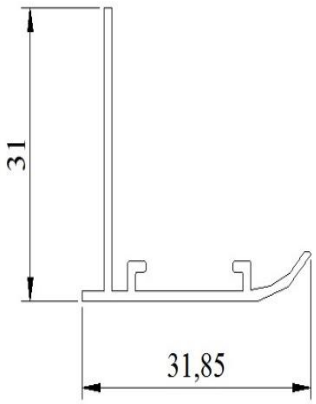
MATERIAL: Frame made of aluminium profile, culvert 1 mm, DKP material, Ø5 mm perforated holes.

SURFACE COATING: The product can be produced in any colour with electrostatic powder paint. Z Wings are produced in standard black colour.

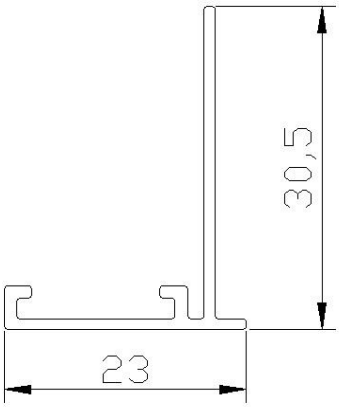
ACCESSORIES: Plenum box

FRAME TYPES

STANDART FRAME

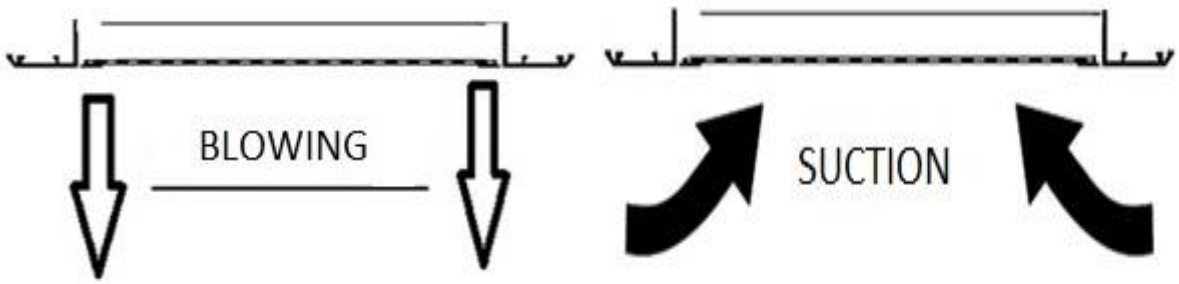


NARROW FRAME



AIR DIRECTIONS:

CENKAY TEKNİK



SUPLY TABLE **RETURN TABLE**

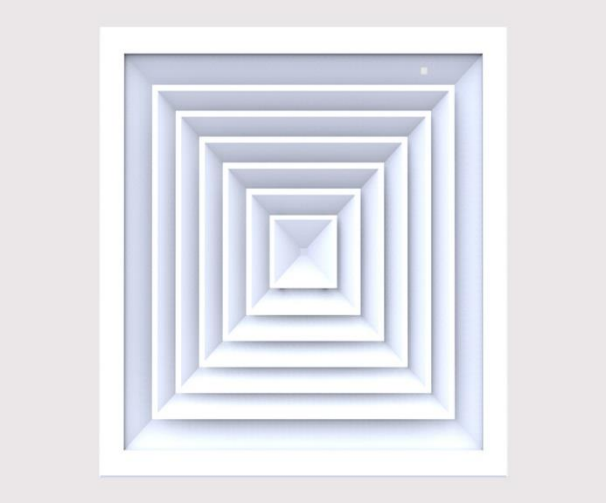
A*B (mm)	DEBİ Q (m3/ h)	Hava Hız Vn (m/s)	Basınç Kaybı Ps (Pa)	Ses Seviyesi NC (dB)	ATIŞ MESAFESİ (m.)
250 x 250	108	1,7	3	-	-0,8
	144	2,25	5	-	0.5-1.0
	180	2,9	6	-	0.7-1.2
	216	3,5	8	-	0.8-1.5
	252	3,95	12	23	1.1 -1.8
	288	4,5	14	28	1.2-2.1
	324	5	17	32	1.5-2.5
	360	5,65	20	34	1.8-3.0
250 x 250	180	0,85	6	-	0.4
	270	1,3	8	16	0.6
	360	1,75	12	20	0.8
	450	2,2	19	25	0.5-1.0
	540	2,6	25	28	0.5-1.1
	720	3,5	40	35	0.8-1.5
	900	4,35	63	38	1.2-2.1
350 x 350	216	1,9	2	-	0.7-1.0
	288	2,5	5	15	0.9-1.5
	360	3,2	6	22	1.0-1.6
	432	3,8	7	23	1.3-1.8
	504	4,45	10	27	1.5-2.2
	576	5,1	14	31	1.8-2.7
	648	5,7	19	38	2.2-3.3
	720	6,35	22	40	2.4 - 3.5
350 x 350	540	1,3	8	19	0.5-0.8
	720	1,75	17	22	0.7-1.0
	900	2,15	29	26	0.7-1.15
	1080	2,6	38	32	0.9-1.5
	1350	3,25	52	35	1.0-1.6
	1530	3,7	63	39	1.3-1.8
	1800	4,3	94	44	1.5-2.2
450 x 450	288	1,6	3	17	0.6-1.0
	360	2,05	5	20	0.8-1.4
	432	2,45	7	21	1.0-1.6
	504	2,85	10	24	1.4-2.0
	576	3,25	12	27	1.7 - 2.4
	648	3,7	14	30	2.0 - .3.0
	720	4,1	17	31	2.4 - 3.4
	792	4,5	20	36	2.7-3.7
450 x 450	900	1,3	12	18	0.5-0.8
	1080	1,55	16	23	0.6-1.0
	1260	1,8	20	27	0.7-1.15
	1440	2,1	26	29	0.8-1.4
	1620	2,35	33	32	1.0-1.5
	1800	2,6	42	35	1.4-1.8
	1980	2,85	53	41	1.4-2.0
550 x 550	180	2,9	3	-	0.6-1.1
	216	3,5	3	-	0.8-1.4

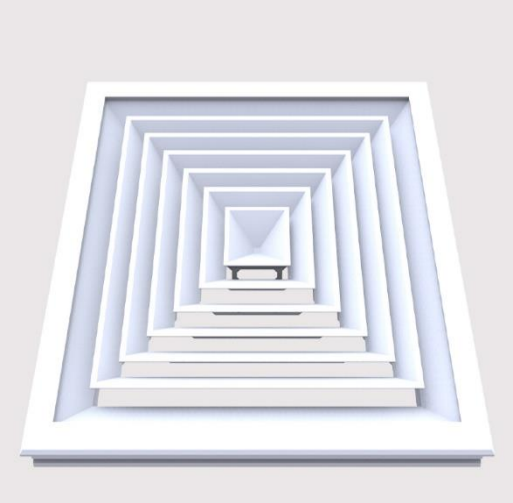
	252	3,95	4	16	1.2 -1.8
	288	4,5	5	19	1.2-2.2
	324	5	7	26	1.4-2.5
	360	5,65	9	28	1.6-2.8
	396	6,2	13	33	2.0 - 3.2
	432	6,8	18	38	2.3 - 3.6
550 x 550	288	2,5	3	18	0.8-1.3
	360	3,2	5	19	1.0-1.6
	432	3,8	6	21	1.2-1.8
	504	4,45	7	24	1.5 - 2.4
	576	5,1	10	27	2.0 - 3.2
	648	5,7	13	34	2.3 - 3.6
	720	6,35	18	38	2.6-4.0
	792	7	23	40	3.0 - 4.5
550 x 550	360	2	3	-	1.2-1.8
	540	3,05	6	22	1.5-2.2
	648	3,7	7	24	1.8-2.4
	720	4,1	8	28	2.3 - 3.2
	828	4,7	11	30	2.7-3.8
	936	5,3	15	32	3.0 - 4.3
	1008	5,7	19	34	3.4 - 4.8
	1080	6,1	26	36	3.7-5.1
550 x 550	1260	1,2	5	17	0,7-1.1
	1530	1,45	15	26	0.9-1.3
	1800	1,75	21	30	1,05-1,5
	2070	2	29	32	1.2-1.8
	2250	2,15	32	35	1.3-1.9
	2520	2,4	37	38	1,45-2.15
	2880	2,75	45	42	1.6-2.5

SOME APPLICATION AREAS	BLOWİNG SPEED (m/s)
Radio and Film Studios, Operating Rooms	1,5-2,5
Bedrooms, Hotel Rooms, Offices, Residences, Hospitals, Mosques, Churches, etc.	2-4
Concert Halls, Dining Rooms, Lecture Halls, Banks, Libraries, Game Halls, Conference Halls	2,5-5
Restaurants, Cafeterias, Hotel Lobbies, Theaters, Cinemas, Shopping Centers, Ballrooms	2,5-6
Supermarket, Factory, Gymnasium, Industrial Kitchen and Warehouse	5-10

CENKAY TEKNİK

SUPPLY AIR DIFFUSERS - CEILING DIFFUSER –CKD-01





AREA OF USAGE AND FEATURES: It is used as suction and blowing diffusers in hvac systems. It is used in canal and ceiling applications. Standard production is screwless in square ceilings. Other sizes are standard manufacturing screw. The way of mounting can be changed optionally.

MATERIAL: Frame aluminium profile core galvanized plate or lower plate is manufactured by case extrusion method

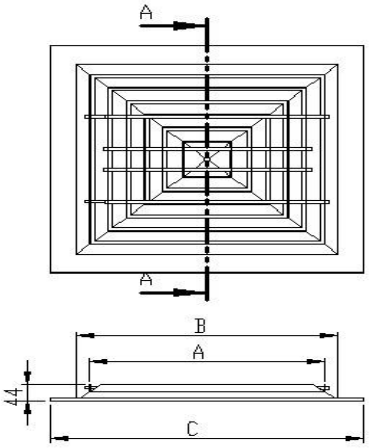
SURFACE COATING: The product can be manufactured in any colour with electrostatic powder paint.

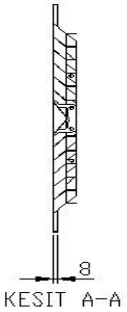
ACCESSORIES: Air vent damper, Plenum box

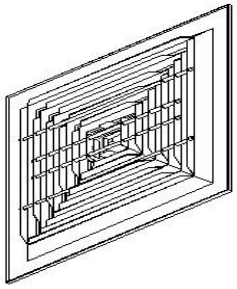
CENKAY TEKNİK

TECNICAL MEASUREMENT

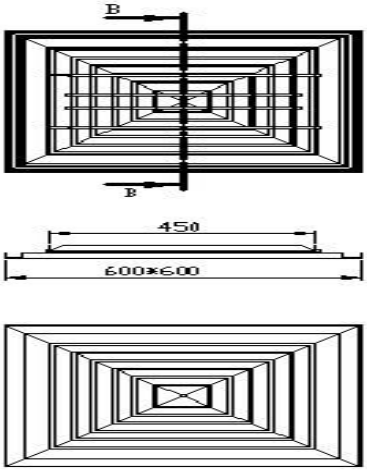
SUPPLY AIR DIFFUSERS - CEILING DIFFUSER –CKD-01-A STANDARD MODEL

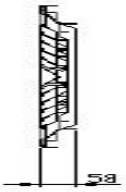


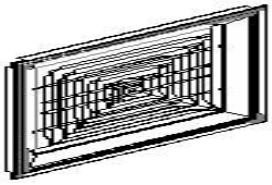




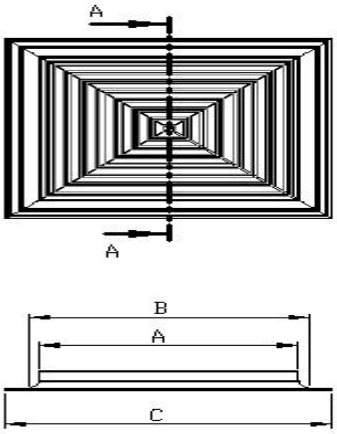
SUPPLY AIR DIFFUSERS - CEILING DIFFUSER –CKD-01-B CLIP-IN MODEL

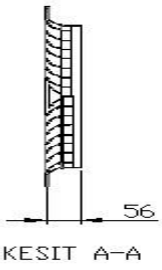


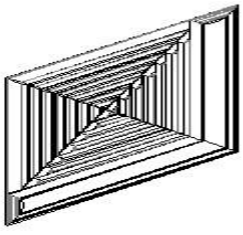




SUPPLY AIR DIFFUSERS - CEILING DIFFUSER –CKD-01-C CURVY MODEL

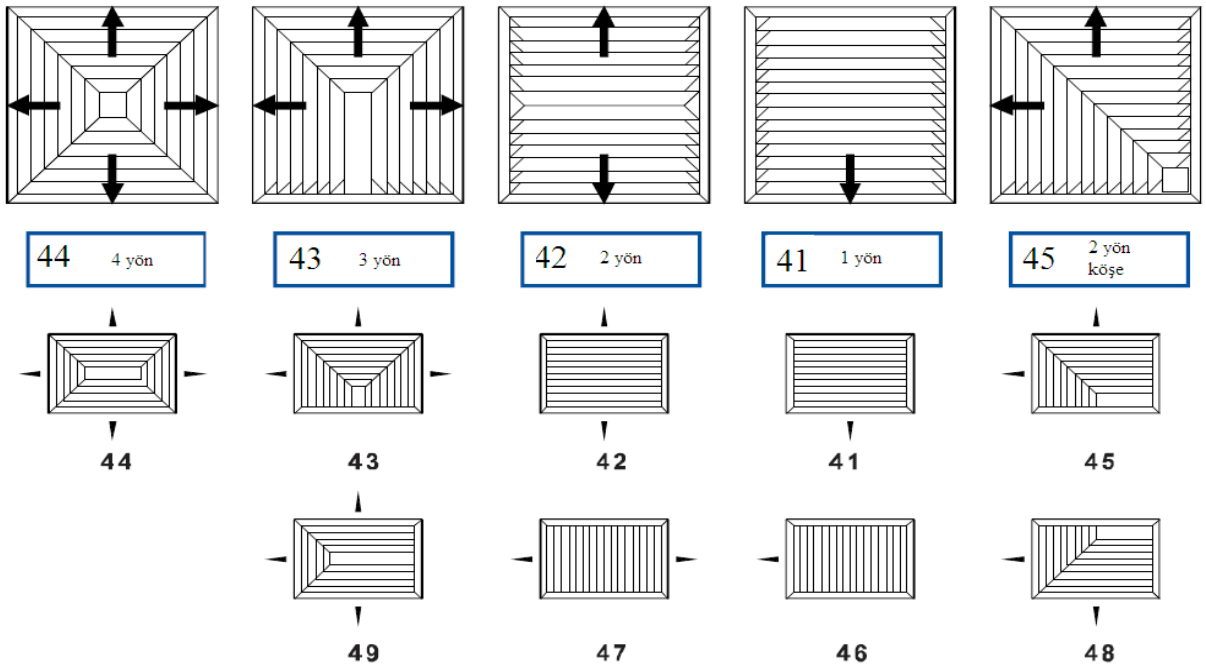






CENKAY TEKNİK

AIR DIRECTION :



STANDARD MEASUREMENT :

SUPPLY AIR DIFFUSERS - CEILING DIFFUSER –CKD-01-A STANDARD MODEL

A (mm)		B (mm)	C (mm)
150*150		250*250	310*310
225*225		325*325	385*385
300*300		400*400	460*460
375*375		475*475	535*535
400*400	*	500*500	560*560
450*450		540*540	595*595
525*525	*	625*625	685*685
600*600	*	700*700	760*760

SUPPLY AIR DIFFUSERS - CEILING DIFFUSER – CKD-01-C CURVY MODEL

A (mm)		B (mm)	C (mm)
150*150		210*210	265*265
225*225		285*285	340*340
300*300		360*360	415*415
375*375		435*435	490*490
400*400		460*460	515*515
450*450		540*540	595*595
525*525		585*585	640*640
600*600		660*660	715*715

*** SIGNED SIZES ARE NOT STANDARD**

SUPPLY AIR DIFFUSERS - CEILING DIFFUSER – CKD-01-B CLIP-IN MODEL

A (mm)		B (mm)	C (mm)
450*450		540*540	600*600

CENKAY TEKNİK

SELECTION TABLE :

Air flow (m3/h)	AxB (mm)	speed Vn (m/s)	Pressure loss Ps (Pa)	Noise level NC (dB)	44	43	42	41
					Shooting Range (m)			
					(4.way)	(3-way)	(2. way)	(1-way)
144	150x150	1,8	7	-	0.9-1.8	1.0-2.0	1.2-2.2	1.4-2.4
	200 x 200	1	4	-	0.6-1.2	0.7-1.5	0.9-2.0	1.2 - 2.6
216	150x 150	2,7	16	-	1.5-2.4	1.6-2.6	1.8-3.0	2.2 - 3.5
	200 x 200	1,5	7	-	1.0-1.7	1.0-2.0	1.3-2.5	1.6-3.0
288	150x 150	3,6	30	23	1.8 - 3.6	2.1-4.0	2.4-4.4	3.0 - 5.5
	200 x 200	2	14	20	1.5-2.3	1.7-2.8	2.0-3.2	2.6 - 3.8
	250 x 250	1,3	2	-	0.6-1.2	0.8-1.4	1.0-1.8	1.5-2.7
360	150x150	4,5	42	31	2.4-4.0	2.6 - 4.3	3.0-5.0	3.6 - 6.0
	200 x 200	2,5	21	25	2.0-2.8	2.2-3.3	2.6-4.0	3.2 - 4.6
	250 x 250	1,6	6	-	1.0-2.0	1.2-2.3	1.5-2.7	1.8-3.6
432	200 x 200	3	25	28	2.5 - 3.3	2.8 - 3.8	3.2-4.4	4.0 - 6.0
	250 x 250	1,9	9	-	1.2-2.4	1.5-2.7	2.0-3.5	2.5-4.3
	300 x 300	1,3	5	-	1.0-2.0	1.2-2.2	1.5-3.0	2.0 - 4.0
504	200 x 200	3,5	32	32	2.8 - 3.6	2.8 - 3.6	4.0-5.3	5.0 - 6.5
	250 x 250	2,3	13	22	1.5-3.0	1.5 - 3.5	2.5-4.2	3.0 - 5.0
	300 x 300	1,6	6	-	1.2-2.4	1.5-2.8	1.8-3.4	2.5 - 4.7
576	200 x 200	4	39	36	3.3-4.1	3.8 - 5.0	4.5-6.0	5.5 - 7.2
	250 x 250	2,6	19	25	1.9-3.5	2.3-4.0	2.8-4.8	3.3-5.6
	300 x 300	1,8	9	-	1.5-2.6	1.8-3.0	2.0-4.0	2.7 - 5.0
	350 x 350	1,3	4	-	1.2-2.2	1.5-2.5	1.8-3.0	2.0-4.0
648	200 x 200	4,5	46	40	3.6-4.7	4.3-5.6	5.2 - 7.0	6.2 - 8.0
	250 x 250	2,9	22	28	2.3-3.9	2.6-4.5	3.3-5.4	3.6-6.2
	300 x 300	2	11	18	1.7-2.9	2.1-3.2	2.3-4.3	3.0 - 5.5
	350 x 350	1,5	5	-	1.3-2.4	1.7-2.8	2.0-3.4	2.4-4.9
	400 x 400	1,1	3	-	1.0-2.2	1.4-2.3	1.7-3.0	2.2 - 4.4
720	250 x 250	3,2	26	31	2.6-4.5	3.0 - 5.0	3.6-6.0	4.0 - 6.8
	300 x 300	2,2	13	19	2.0-3.2	2.3-3.6	2.7-4.6	3.3 - 6.0
	350 x 350	1,6	7	-	1.6-2.8	2.0 - 3.2	2.3-4.0	2.8-5.5
	400x400	1,3	4	-	1.3-2.5	1.7-2.8	2.0-3.4	2.4-4.8
792	250 x 250	3,5	30	33	2.8-4.8	3.2-5.5	4.0-6.5	4.5-7.6
	300 x 300	2,5	16	21	2.2 - 3.6	2.6 - 4.0	3.0-4.9	3.8 - 6.6
	350 x 350	1,8	9	-	1.8 - 3.2	2.2 - 3.6	2.6-4.4	3.2 - 6.0
	400x400	1,4	5	-	1.4-2.7	1.8-3.1	2.3-3.9	2.9 - 5.4
864	250 x 250	3,8	37	36	3.2 - 5.6	3.6-6.2	4.3-7.0	5.0-8.4
	300 x 300	2,7	20	23	2.5-4.0	2.9 - 4.5	3.5-5.3	4.5 - 7.3
	350 x 350	2	11	19	2.1 - 3.6	2.4-4.0	3.0-4.8	3.6 - 6.5
	400 x 400	1,5	6	-	1.7-3.0	2.0-3.7	2.6-4.3	3.2 - 6.0
936	250 x 250	4,2	44	39	3.4-6.0	4.0-6.7	4.6 - 7.6	5.3 - 9.0
	300 x 300	2,9	23	25	2.7-4.3	3.2 - 5.0	3.7-6.0	4.7 - 8.0
	350 x 350	2,1	13	20	2.3-3.9	2.7 - 4.5	3.2-5.4	4.0 - 7.2
	400x400	1,6	7	-	2.0 - 3.2	2.3 - 4.0	2.8-4.6	3.5 - 6.6

CENKAY TEKNİK

Air flow (m3/h)	AxB (mm)	speed Vn (m/s)	Pressure loss Ps (Pa)	Noise level NC (dB)	44	43	42	41
					Shooting Range (m)			
					(4.way)	(3-way)	(2. way)	(1-way)
1008	250 x 250	4,5	52	42	3.7-6.5	4.3-7.6	5.0-8.3	5.7 - 9.8
	300 x 300	3,1	27	28	3.0-4.8	3.5 - 5.5	4.0 - 6.6	5.0 - 8.5
	350 x 350	2,3	16	22	2.6-4.3	3.0 - 5.0	3.5-6.0	4.5 - 7.7
	400x400	1,8	9	-	2.2-3.5	2.6-4.2	3.0-5.0	3.6 - 7.2
	450x450	1,4	6	-	1.8-3.2	2.2-3.7	2.6-4.2	3.2-6.5
1080	300 x 300	3,3	29	30	3.2 - 5.2	3.7 - 5.8	4.3-6.8	5.3 - 9.0
	350 x 350	2,5	18	23	2.8-4.6	3.3 - 5.2	3.7-6.3	4.8 - 8.2
	400 x 400	1,9	10	18	2.4-3.8	2.8 - 4.6	3.3 - 5.5	3.9 - 7.8
	450x450	1,5	7	-	1.9 - 3.2	2.4 - 4.0	2.8-4.4	3.3 - 6.8
	500 x 500	1,2	3	-	1.5-3.0	2.0-3.4	2.2 - 3.8	2.7 - 5.5
1152	300 x 300	3,6	32	32	3.5-5.6	4.0-6.0	4.6 - 7.2	5.7-9.5
	350 x 350	2,6	21	25	3.0-4.8	3.6 - 5.4	4.1-6.7	5.1-8.6
	400x400	2	11	19	2.6-4.0	3.3 - 5.0	3.6-6.0	4.3 - 8.0
	450 x 450	1,6	8	-	2.1-3.5	2.6 - 4.3	3.0-4.7	3.6 - 7.2
	500 x 500	1,3	4	-	1.7-3.2	2.2-3.7	2.5-4.2	3.0 - 6.2
1224	300 x 300	3,6	36	34	3.7-5.8	4.2-6.3	4.8-7.5	6.0-10.2
	350 x 350	2,8	24	27	3.2-5.1	3.8-5.8	4.3-7.1	5.3-8.8
	400x400	2,1	13	21	2.8-4.2	3.5 - 5.3	3.8-6.3	4.5-8.3
	450x450	1,7	10	-	2.2 - 3.7	2.8-4.6	3.2-5.1	4.0 - 7.7
	500 x 500	1,4	5	-	1.8-3.4	2.3-3.9	2.7-4.5	3.5-7.0
1296	300x300	4	42	36	3.9-6.0	4.5-6.8	5.1 - 7.7	6.2-10.8
	350 x 350	3	27	31	3.4 - 5.4	4.0-6.2	4.6-7.4	5.5 - 9.0
	400 x 400	2,3	16	23	3.0-4.5	3.7-5.6	4.1-6.6	4.7-8.6
	450 x 450	1,8	12	18	2.5-4.0	3.0-4.8	3.5-5.5	4.3-8.0
	500x500	1,5	7	-	2.0 - 3.7	2.5-4.2	3.0-5.0	4.0-7.6
	600 x 600	1	4	-	1.4-2.6	-	-	-
1368	300x300	4,2	47	39	4.2-6.5	5.2-7.5	5.7-B.5	-
	350 x 350	3,1	30	32	3.7-5.7	4.2-6.6	4.9-7.6	5.8 - 9.3
	400 x 400	2,4	16	25	3.3-4.9	4.0-5.9	4.2 - 6.9	5.0-9.0
	450 x 450	1,9	14	20	2.7-4.2	3.2-5.1	3.7-5.8	4.7-8.5
	500x500	1,5	8	-	2.1 - 3.9	2.6-4.4	3.2-5.3	4.2-8.0
	600 x 600	1,1	4	-	1.6-3.0	-	-	-
1440	300x300	4,5	54	43	4.5-7.0	-	-	-
	350 x 350	3,3	33	34	4.0-6.0	4.4-7.0	5.2-7.9	6.2-10.5
	400 x 400	2,5	21	27	3.5 - 5.2	4.2-6.2	4.5-7.2	5.2-9.3
	450 x 450	2	16	22	2.9-4.3	3.4 - 3.5	3.9-6.1	5.0-9.0
	500x500	1,6	10	-	2.3-4.2	2.8-4.7	3.4-5.5	4.5-8.3
	600 x 600	1,1	4	-	1.8-3.6	-	-	-
1512	350 x 350	3,4	36	36	4.3-6.5	4.6-7.4	5.5-8.4	6.5-11.3
	400x400	2,6	23	29	3.7-5.5	4.4-6.7	4.7-7.6	5.5-10.0
	450 x 450	2,1	17	23	3.1 -4.6	3.6-5.7	4.1-6.5	5.3-9.5
	500 x 500	1,7	11	-	2.4-4.4	3.0-5.1	3.6-6.2	4.7-8.6
	600x600	1,2	5	-	2.0 - 3.8	-	-	-

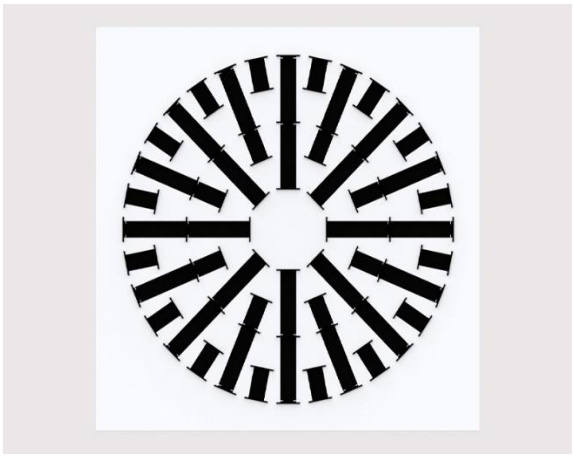
CENKAY TEKNİK

Air flow (m3/h)	AxB (mm)	speed Vn (m/s)	Pressure loss Ps (Pa)	Noise level NC (dB)	44	43	42	41
					Shooting Range (m)			
					(4.way)	(3-way)	(2. way)	(1-way)
1620	350 x 350	3,7	40	38	4.6-7.0	4.9-7.7	5.6 - 8.7	7.0-12.0
	400 x 400	2,8	26	31	3.9-6.0	4.6 - 7.2	5.0-8.0	5.7-10.5
	450x450	2,2	19	25	3.3 - 5.0	3.8-6.0	4.3-7.0	5.6 - 9.8
	500 x 500	1,8	12	18	2.6-4.6	3.3-5.5	3.9-6.6	5.2-9.0
	600x600	1,3	5	-	2.2-4.0	-	-	-
1800	400x400	3,1	32	34	4.2-6.5	4.8-8.0	5.5-9.0	6.2-11.4
	450 x 450	2,5	23	28	3.5-5.5	4.2-6.6	4.7-7.5	6.1-10.7
	500 x 500	2	15	22	2.9-5.1	3.6 - 6.0	4.3-7.1	5.7-10.0
	600 x 600	1,4	7	18	2.5-4.4	-	-	-
1980	400 x 400	3,4	38	38	4.6 - 7.2	5.3-8.7	6.0-10.0	7.0-12.0
	450x450	2,7	29	32	3.8-6.0	4.6-7.0	5.1 - 8.2	6.6-11.3
	500x500	2,2	18	26	3.2 - 5.7	3.8-6.8	4.7-7.8	6.2-10.3
	600 x 600	1,5	10	20	2.8-5.0	-	-	-
2160	450 x 450	3	33	35	4.1-6.4	4.8 - 7.6	5.5-8.7	7.1-12.0
	500 x 500	2,4	21	28	3.5-6.2	4.1-7.1	5.0-8.2	6.5-11.0
	600 x 600	1,7	12	22	3.0-5.5	-	-	-
2340	450x450	3,2	38	38	4.3-7.1	5.2-8.4	5.7-9.5	7.5-12.8
	500x500	2,6	25	31	3.7-6.5	4.4-7.8	5.2-9.0	7.0-12.0
	600 x 600	1,8	14	24	3.3 - 6.2	-	-	-
2520	500 x 500	2,8	29	33	4.2-7.3	4.8 - 8.5	5.7-10.0	7.5-13.0
	600 x 600	2	17	26	3.5-6.5	-		-
2700	500 x 500	3	32	35	4.5-7.8	5.2-8.8	6.0-10.5	7.7-13.5
	600x600	2,1	19	28	3.6-6.9	-	-	-
2880	500x500	3,2	35	39	4.8 - 8.0	5.5-9.2	6.3-11.0	8.0-14.0
	600 x 600	2,2	22	30	3.8 - 7.2	-	-	-
3600	600 x 600	2,8	33	37	5.0-10.0	-	-	-

SOME APLLICATION AREAS	Speed of Blower (m/s)
Radio and film studios, Surgery rooms	1,5 – 2,5
Bedrooms, Hotel Rooms,Offices,Residances, Hospitals, Mosques,Churchs etc.	2 – 4
Concert Halls, Dining Rooms, Classrooms,Banks,Libraries,Game Rooms,Confenece Halls	2,5 – 5
Restaurants, Cafeteries, Hotel Lobbies, Theaters,Cinemas, Shopping Malls, Ball Roooms	2,5 – 6
Supermakets, Factories, Gym, Industrial Kitchens/ Warehouses	5 – 10

CENKAY TEKNİK

SWIRLL DIFFUSERS–CKD-02



SWIRLL DIFFUSERS- CKD02 A

SWIRLL DIFFUSERS - CKD02 B

AREAS OF USE AND FEATURES: İs it used as blowing diffusers in hvac systems. It is suitable for vertical shooting. The ideal shooting distance is between 2.5-4 m. It is used for in-ceiling applications. Standard production is screwless in square ceilings. Other sizes are standard manufacturing screw. The way of mounting can be changed optionally.

MATERIAL: The body is made of a galvanized plate. The wings are made of ABS material by plastic injection method.

SURFACE COATING: The product can be manufactured in any colour with electrostatic powder paint. The wings are manufactured in standard black colour.

AKSESUARLAR: Plenum box

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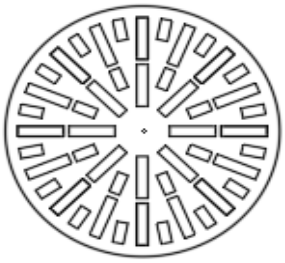
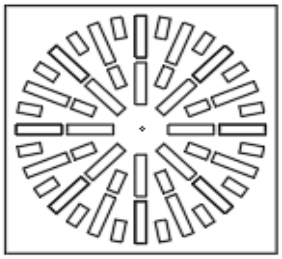
60*60(Ø600)

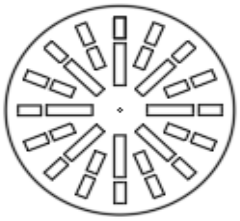


CKD-02-AD6
520 m3/h - 1040 m3/h
NOISE LEVEL :20 - 40 dBA

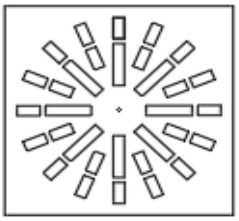


CKD-02-A6
520 m3/h - 1040 m3/h
NOISE LEVEL :20 - 40 dBA

500*500(Ø500)



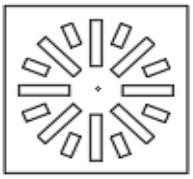
CKD-02-AD5
232 m3/h - 465 m3/h
NOISE LEVEL :20 - 40 dBA



CKD-02-A5
232 m3/h - 465 m3/h
NOISE LEVEL :20 - 40 dBA

400*400(Ø400)

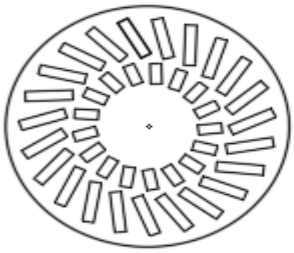
CKD-02-AD4
174 m3/h - 347 m3/h
NOISE LEVEL :20 - 40 dBA



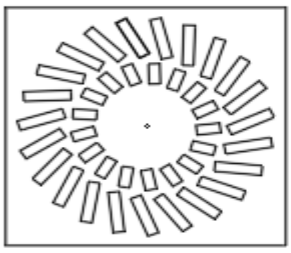
CKD-02-A4
174 m3/h-347 m3/h
NOISE LEVEL :20 - 40 dBA

AIR SPEED MİN.2 m/s MAX.4 m/s

60*60(Ø600)

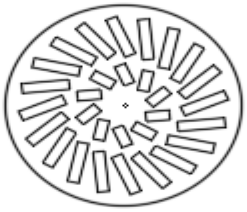


CKD-02-BD6
455 m3/h - 910 m3/h
NOISE LEVEL :20 - 40 dBA

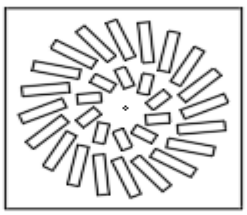


CKD-02-B6
455 m3/h - 910 m3/h
NOISE LEVEL :20 - 40 dBA

500*500(Ø500)



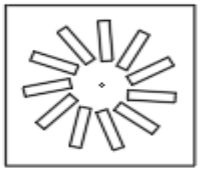
CKD-02-BD5
362 m3/h - 720 m3/h
NOISE LEVEL :20 - 40 dBA



CKD-02-B5
362 m3/h - 720 m3/h
NOISE LEVEL :20 - 40 dBA

400*400(Ø400)

CKD-02-BD4
160 m3/h - 320 m3/h
NOISE LEVEL :20 - 40 dBA



CKD-02-BD4
160 m3/h - 320 m3/h
NOISE LEVEL :20 - 40 dBA

AIR SPEED MİN.2 m/s MAX.4 m/s

TEKNICAL MEASUREMENT:

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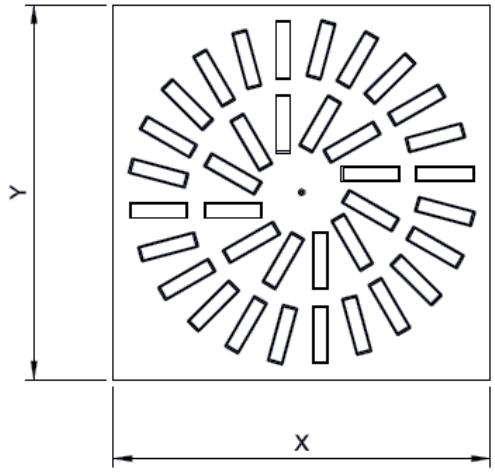
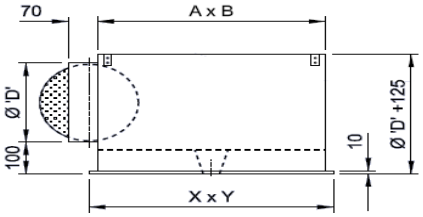
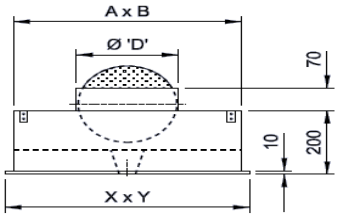
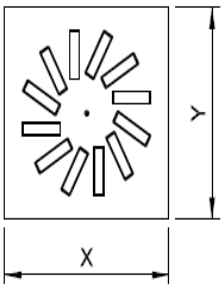


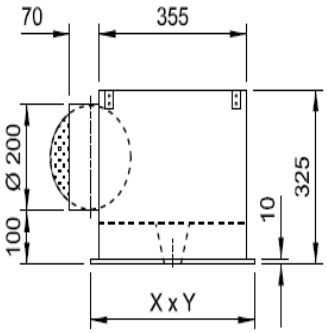


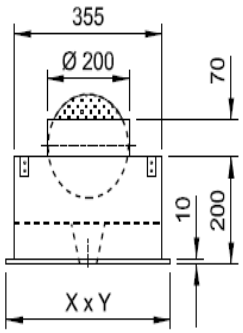


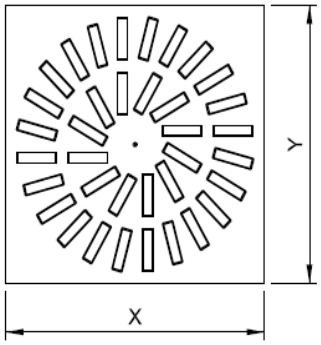
MODEL	DIMENSION (mm)		
	XxY	AxB	∅ 'D'
A - AD	400 x 400	350 x 350	∅ 198
A - AD	500 X 500	455 x 455	∅ 198
A - AD	600 X 600	555 x 555	∅ 248
A - AD	620 x 620	555 x 555	∅ 248

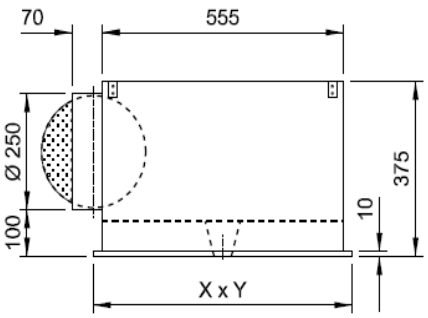
MODEL	DIMENSION (mm)		
	XxY	AxB	∅ 'D'
B - BD	400 x 400	340 x 340	∅ 198
B - BD	500 X 500	455 x 455	∅ 198
B - BD	600 X 600	555 x 555	∅ 248
B - BD	620 x 620	555 x 555	∅ 248

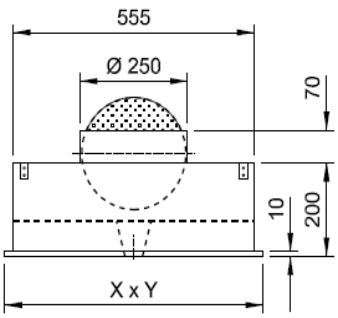












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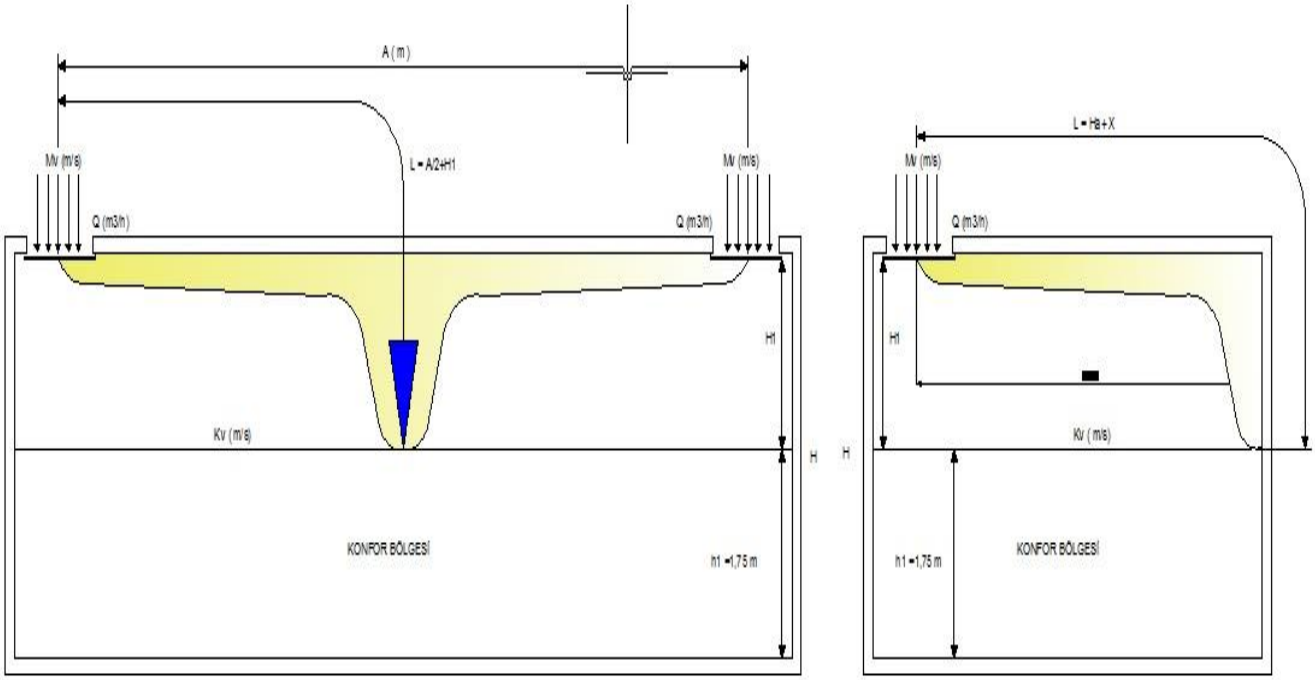
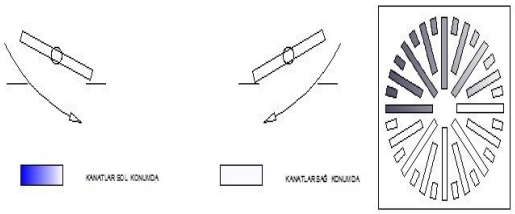
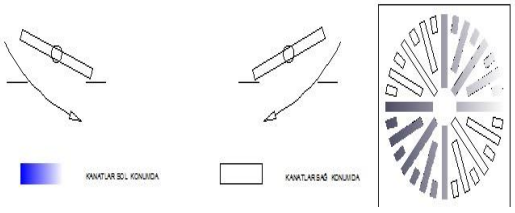
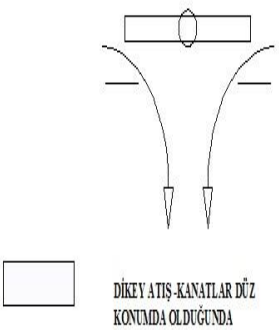
AIR FLOW TYPE :

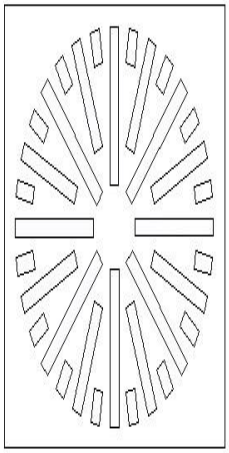


Q (m3/h)	Air flow
Mv (m/s)	air outlet speed
H	Ceiling height
H1	The distance the air has to reach
h1	Comfort zone
Kv	The final speed of air in the comfort zone
A (m.)	Required distance between diffusers
L (m)	Shooting distance
Mef.(m2)	Diffuser effective area



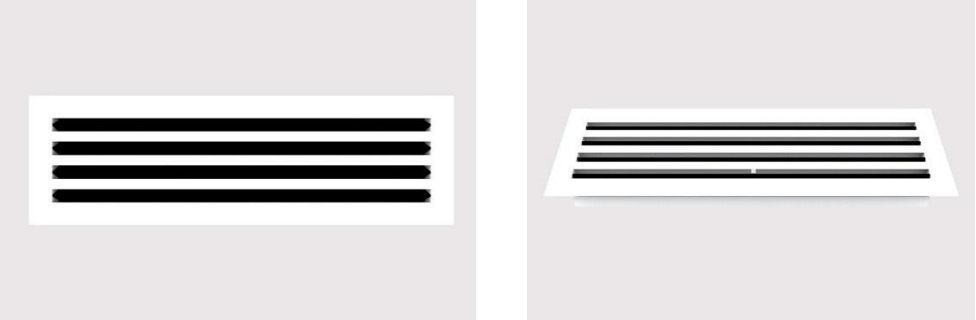






CENKAY TEKNİK

SLOT DIFFUSERS – SUPPLY DIFFUSERS–CKD-03



SLOT DIFFUSERS- CKD-03

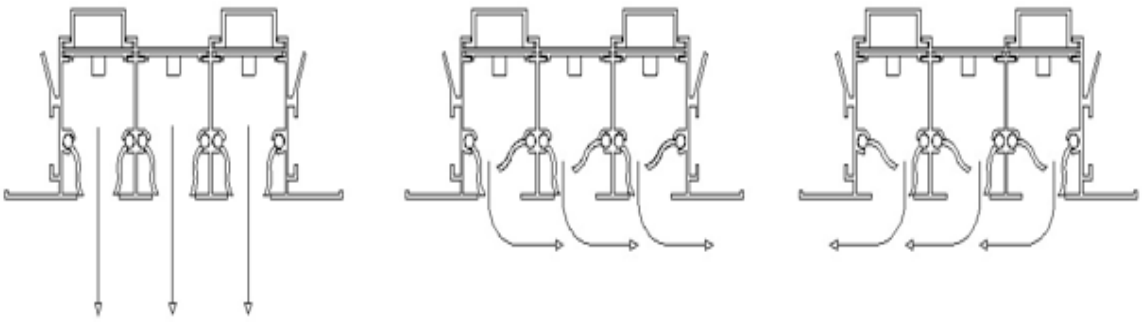
AREA OF USAGE AND FEATURES: It is used as blowing and suction diffusers in hvac systems. It is suitable for horizontal and vertical shots. The ideal shooting distance is between 2.5-8 m. It is used in ceiling and wall applications. It is a standard bridge mounted. The way of mounting can be changed optionally.

MATERIAL: Body and wings are made of aluminium profile manufactured by the extrusion method.

SURFACE COATING: The product can be manufactured in any colour with electrostatic powder paint. The wings are manufactured in standard black colour.

ACCESSORIES: Plenum box

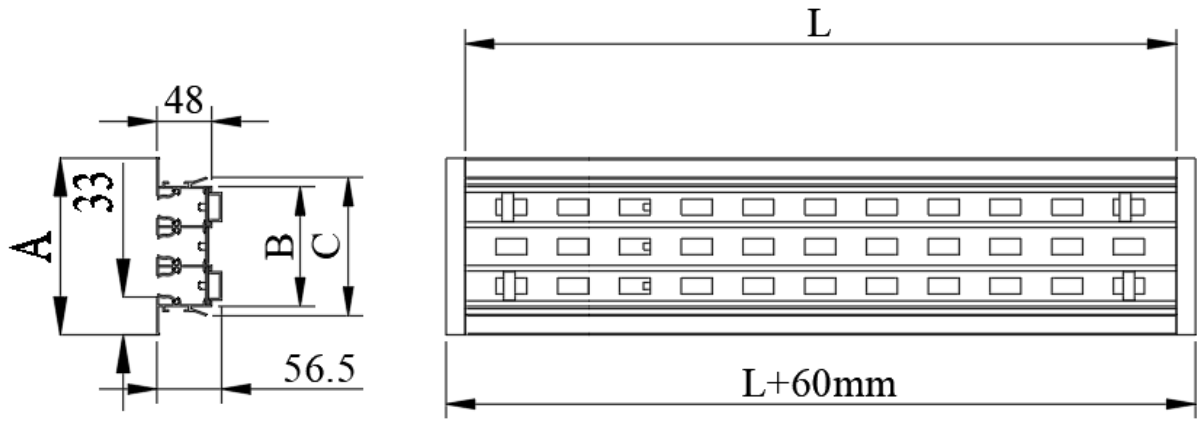
AIR SHOT TYPES:



VERTICAL SHOOT **HORIZONTAL SHOOT**

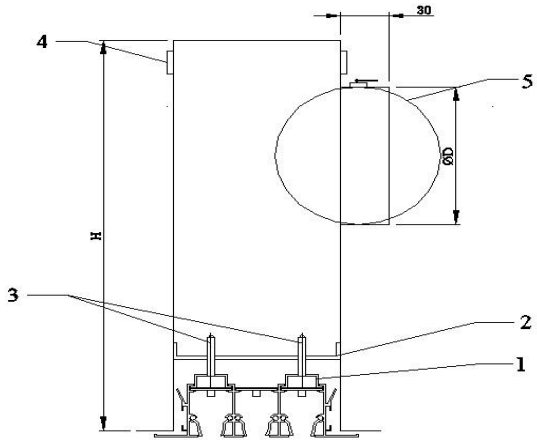
CENKAY TEKNİK

TECHNICAL MEASUREMENT :



NUMBER OF SLOTS	1	2	3	4	5	6
A (mm)	85	120	156	191	227	259
B (mm)	36	71	106	142	177	210
C (mm)	52	88	123	159	194	227
	500 - 600 - 700 - 800 - 900 - 1000 - 1100 - 1200 - 1300 - 1400 - 1500 - 1600 - 1700 - 1800 - 1900 - 2000					

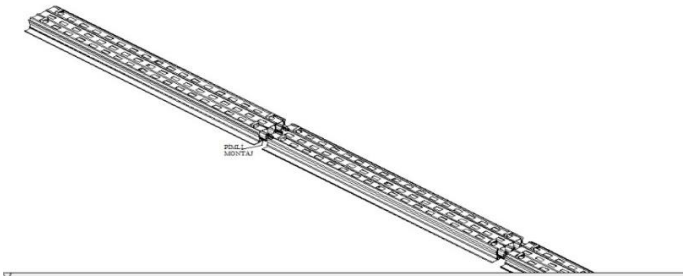
SLOT MOUNTING DETAIL :

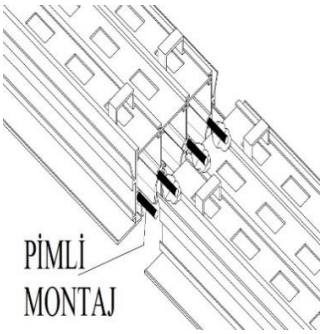


1- Slot Bridge Piece (On Slot)
2- Box Bridge piece (Inside the box)
3- Assembly Screw And Special Nut (M5 * 50)
4- Box Hanger Apparatus
5- Box Perforated Damper (Internal Control)

L (mm)		NUMBER OF SLOTS					
		1	2	3	4	5	6
500 – 1500	ØD (mm)	138	198	218	248	248	248
	h (mm)	218	278	298	328	328	328
1500 – 2000	ØD (mm)	*138 x 2	*198 x 2	*218 x 2	*248 x 2	*248 x 2	*248 x 2
	h (mm)	273	341	400	487	487	487

PIECE SLOT MOUNTING DETAIL :

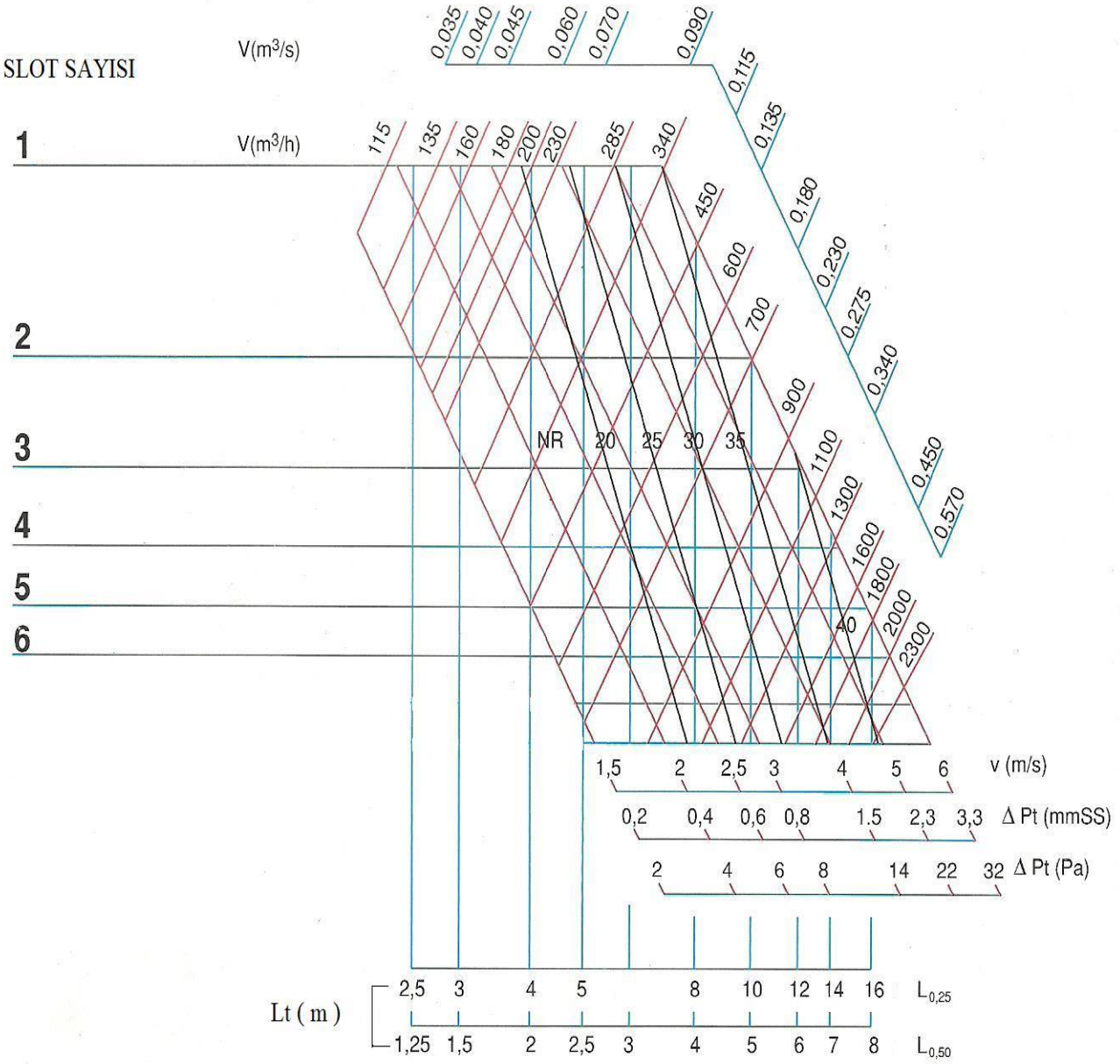




PIN MOUNTING

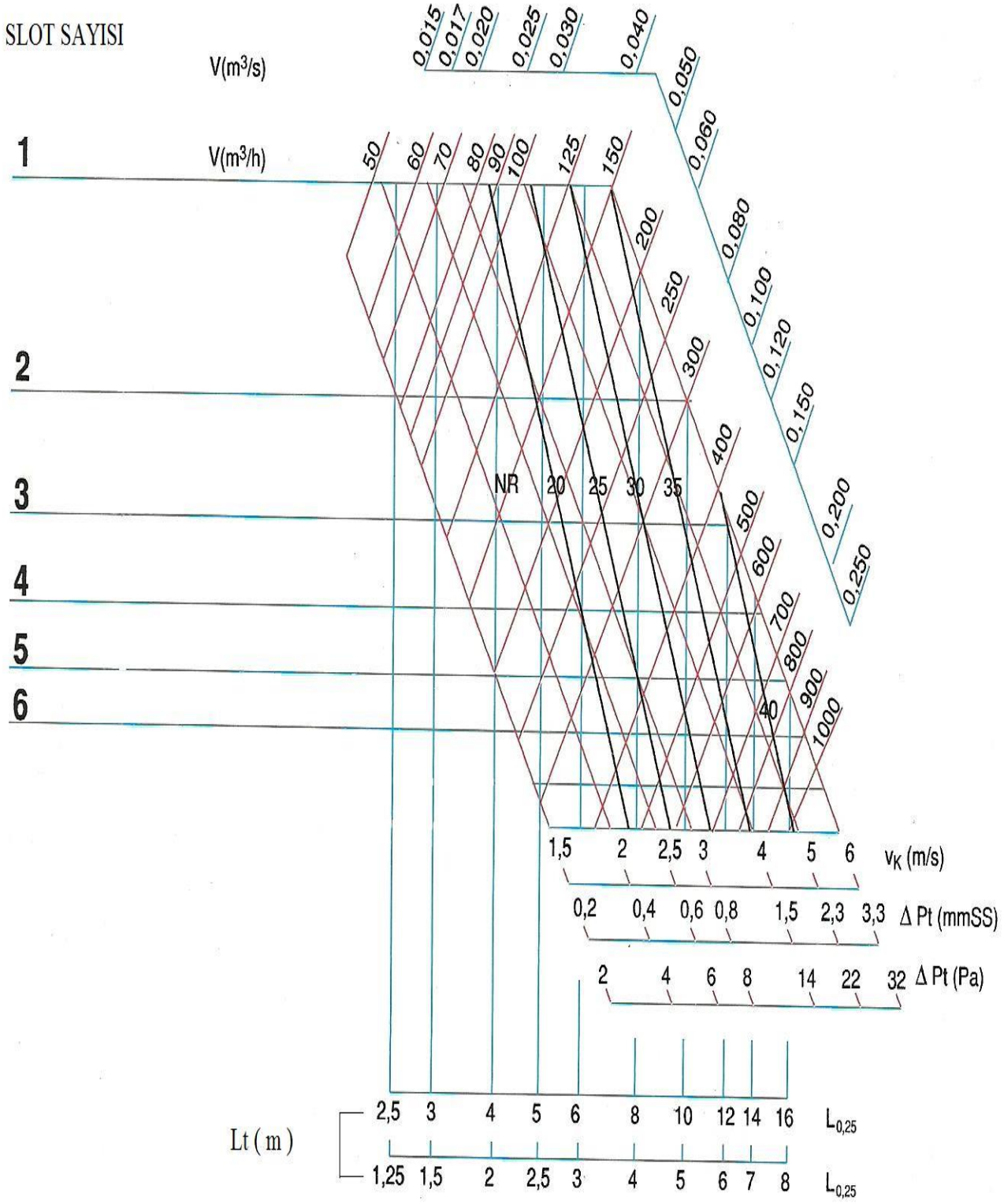
VERTICAL SHOOT :

CENKAY TEKNİK



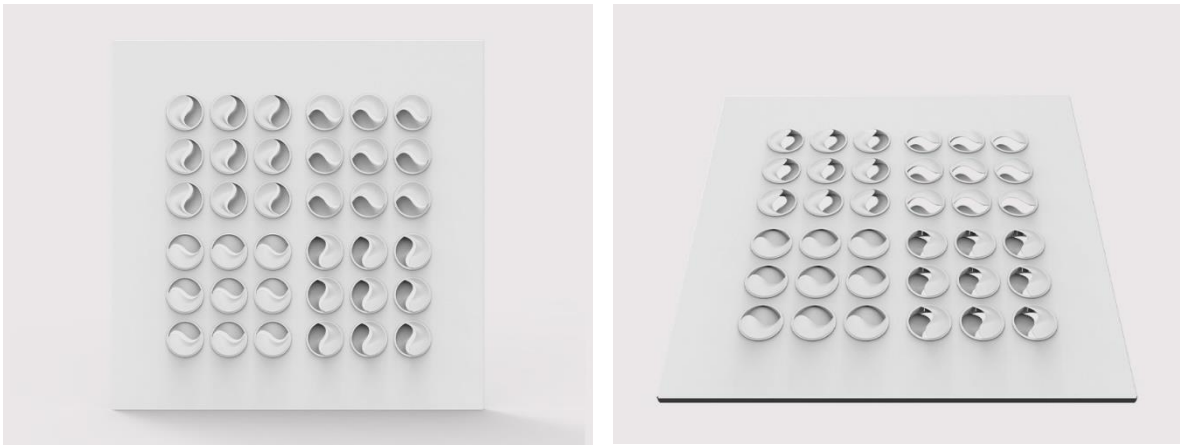
CENKAY TEKNİK

HORIZONTAL SHOOT



CENKAY TEKNİK

NOZZLE DIFFUSERS- SUPPLY DIFFUSERS–CKD-04



NOZZLE DIFUSERS- CKD-04

USAGE AREA AND FEATURES: It is used as blowing diffusers in hvac systems. It is suitable for vertical shooting. The ideal shooting distance is between 2.5-3.5 m. It is used for in-ceiling applications. It is standard screw mounted. The way of mounting can be changed optionally.

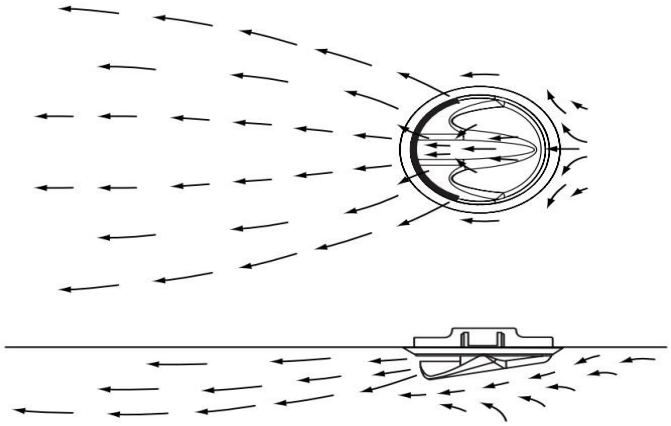
MATERIAL: The product can be produced in any colour with electrostatic powder paint. The wings are manufactured in standard 9010 colours.

SURFACE COATING: The product can be manufactured in any colour with electrostatic powder paint. The wings are manufactured in standard 9010 colours.

ACCESSORIES: Plenum box

CENKAY TEKNİK

AIR FLOW MOVEMENTS

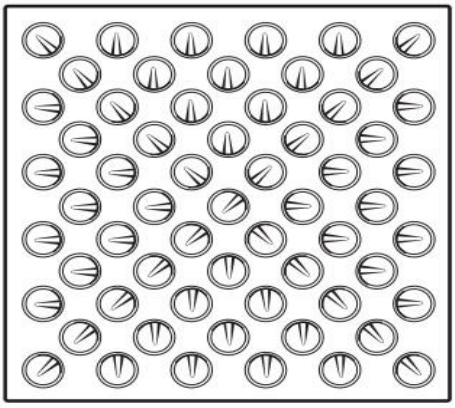


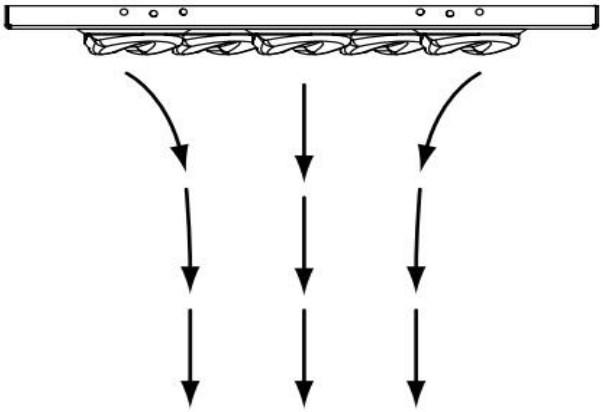
TOP VIEW

BY NOZZLE DIFFUSER LAYOUT

VERTICAL DOWN SHOOTING

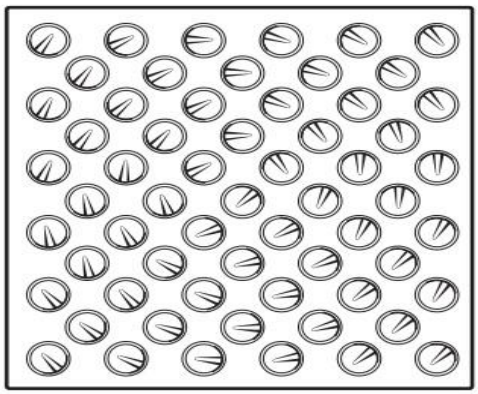
SIDE VIEW

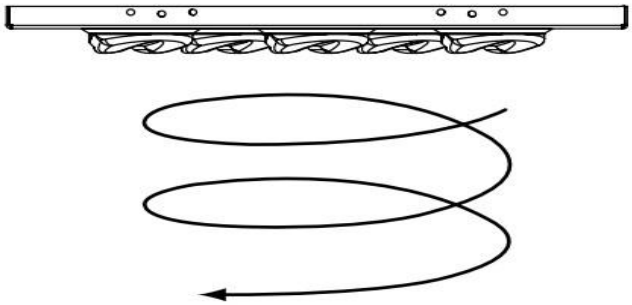




TURBULENT FLOW SEQUENCE:

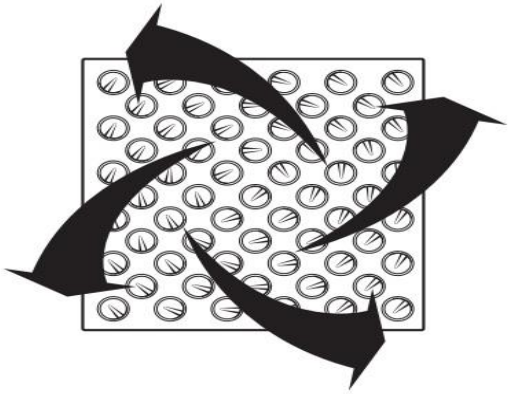
CENKAY TEKNİK





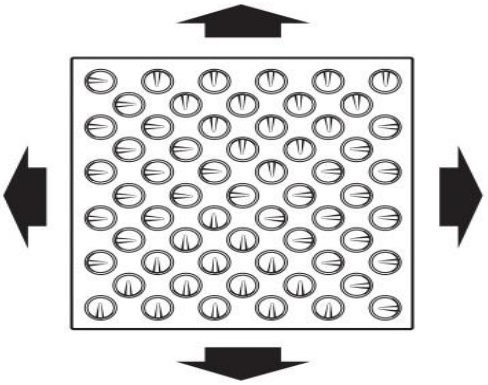
CKD04 NOZZLE DIFFUSER AIR MOVEMENT MODELS

TURBULENT FLOW

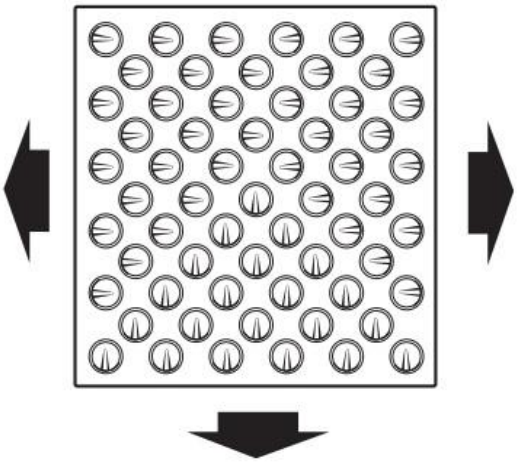


3 WAY

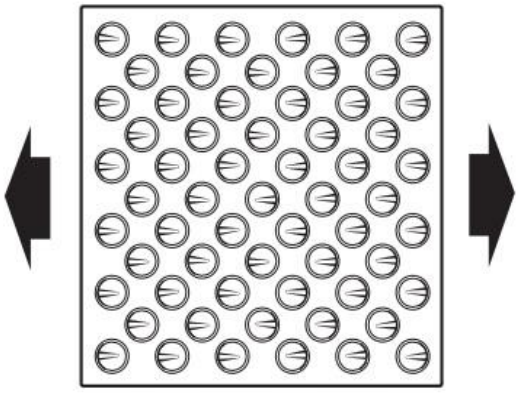
HORIZONTAL FLOW



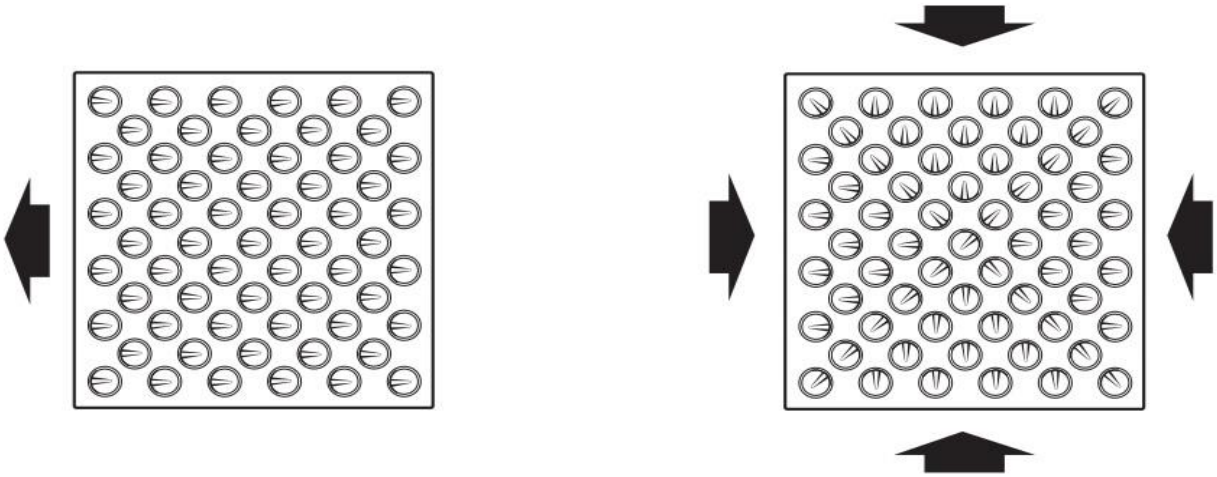
2 WAY



1 WAY

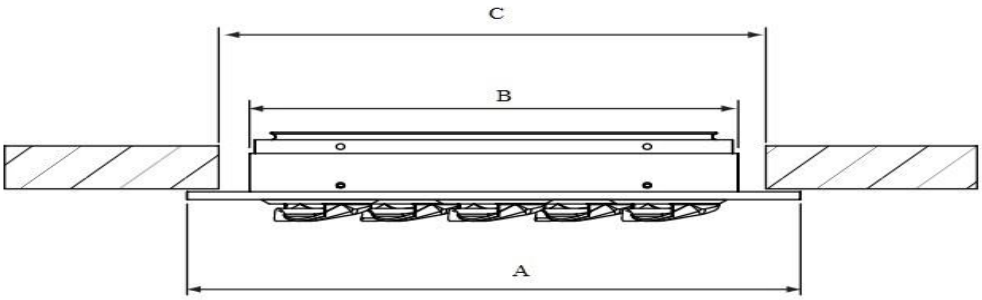


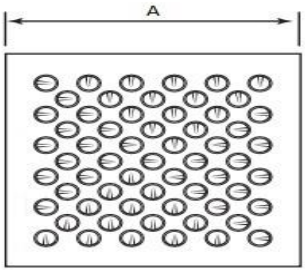
VERTICAL FLOW



TECHNICAL MEASUREMENT

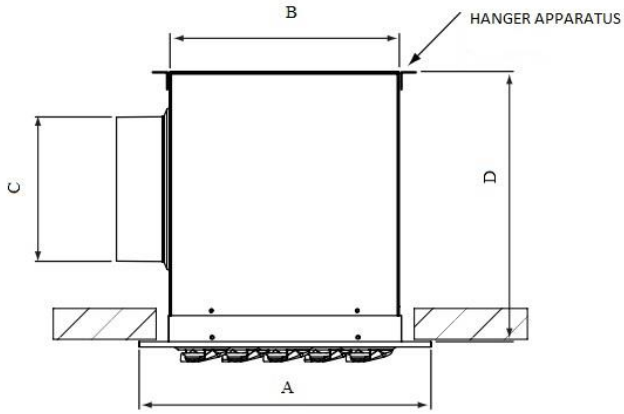
CKD04 A STANDARD SIZES



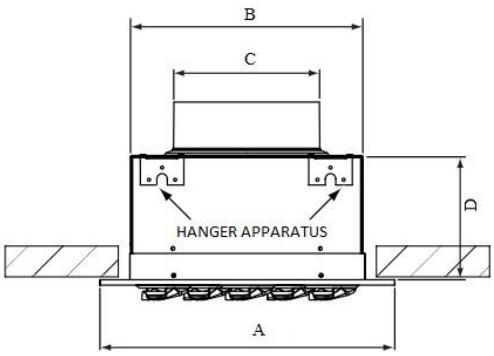


CKD04-A STANDARD DIMENSIONS			
MODEL	A	B	C
300	364	304	318
400	464	404	418
500	564	504	518
600	664	604	618

CKD04-A BOXED INSTALLATION

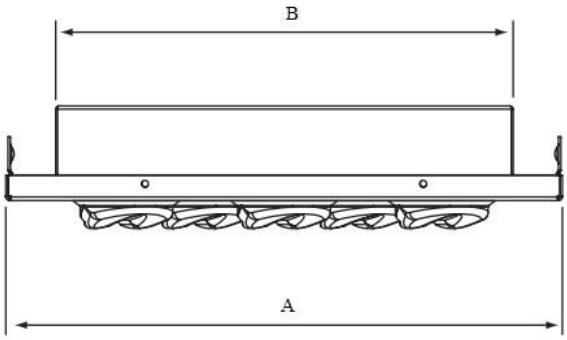


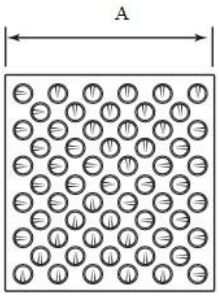
CKD04-A SIDE ENTRY BOX				
MODEL	A	B	C	D
300	364	299	200	300
400	464	399	250	350
500	564	499	315	415
600	664	599	350	450



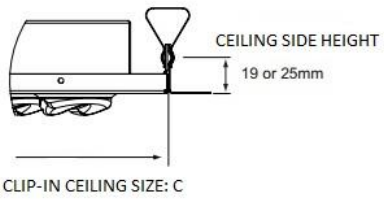
CKD04-A TOP INLET BOX				
MODEL	A	B	C	D
300	364	299	200	150
400	464	399	250	200
500	564	499	315	250
600	664	599	350	300

CKD04-B STANDAD SIZES

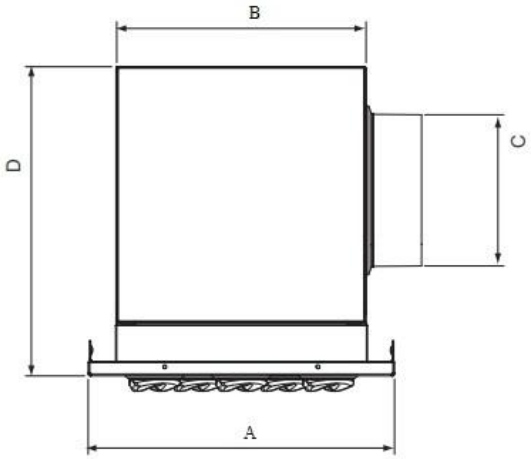


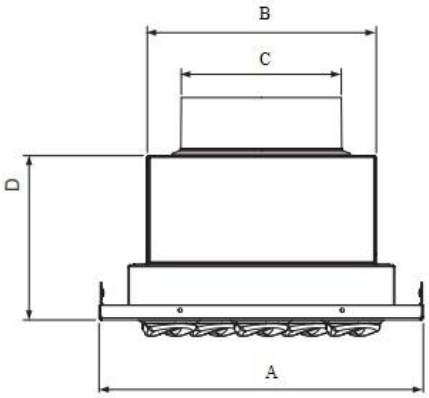


CKD04-B STANDARD DIMENSIONS			
MODEL	A	B	C
300	499	445	500
	599	545	600
400	499	445	500
	599	545	600
500	499	445	500
	599	545	600
600	599	545	600



CKD04-B BOXED INSTALLATION

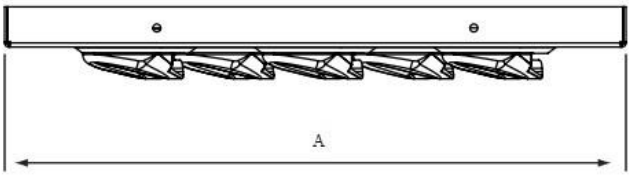




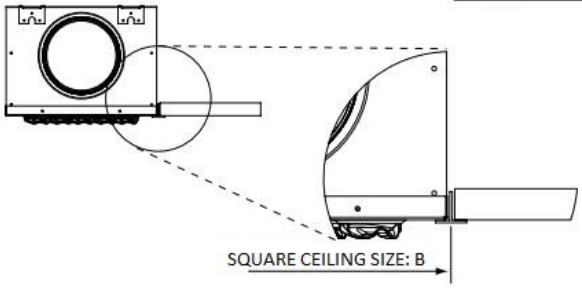
CKD04-B SIDE INLET BOX				
MODEL	A	B	C	D
300	499	445	200	300
	599	545		
400	499	445	250	350
	599	545		
500	499	445	315	415
	599	545		
600	599	545	350	450

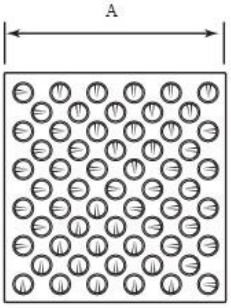
CKD04-B TOP INLET BOX				
MODEL	A	B	C	D
300	499	445	200	150
	599	545		
400	499	445	250	200
	599	545		
500	499	445	315	250
	599	545		
600	599	545	350	300

CKD04-C STANDARD SIZES

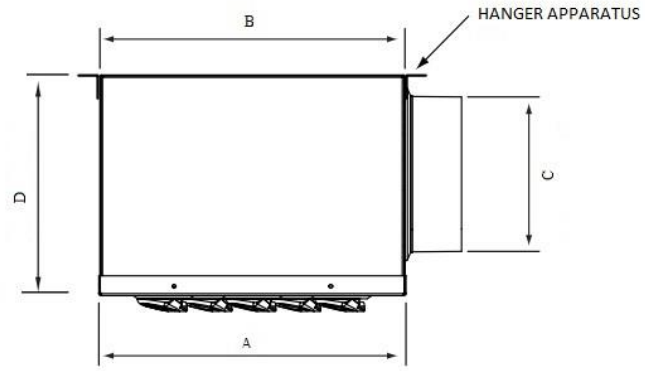


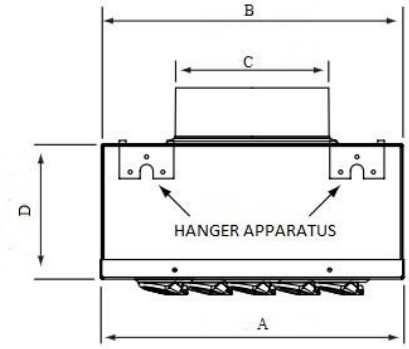
CKD04-C STANDARD DIMENSIONS		
MODEL	A	B
300	494	500
	594	600
400	494	500
	594	600
500	494	500
	594	600
600	594	600





CKD04-C BOXED INSTALLATION

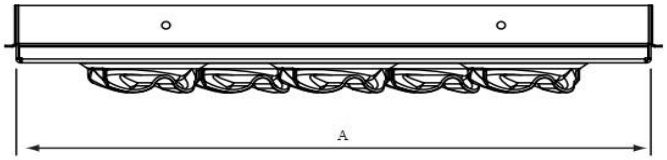


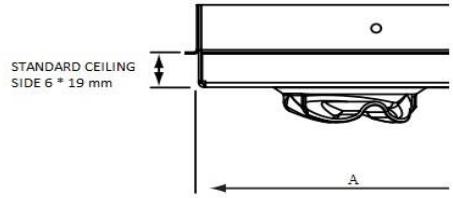


CKD04-C SIDE INLET BOX				
MODEL	A	B	C	D
300	494	492	200	300
	594	592		
400	494	492	250	350
	594	592		
500	494	492	315	415
	594	592		
600	594	592	350	450

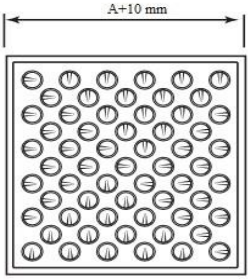
CKD04-C TOP INLET BOX				
MODEL	A	B	C	D
300	494	492	200	150
	594	592		
400	494	492	250	200
	594	592		
500	494	492	315	250
	594	592		
600	594	592	350	300

CKD04-D STANDARD SIZES





CKD04-D STANDARD DIMENSIONS	
MODEL	A
300	474
	484
	574
	584
400	474
	484
	574
	584
500	474
	484
	574
	584
600	574
	584



CKD04-D BOXED INSTALLATION

MODEL 300 HORIZONTAL SHOT

MODEL 300 VERTICAL SHOOT

CENKAY TEKNİK

DEBİ (m3/h)	126	173	220	267	313	360
SOUND LEVEL (dBa)	20	25	30	35	40	45
PRESSURE DROP (Pa)	7	14	22	35	43	60

DEBİ (m3/h)	126	173	220	267	313	360
SES SEVİYESİ (dBa)	20	25	30	35	40	45
BASINÇ KAYBI (Pa)	7	14	22	35	43	60

MODEL 400 HORIZONTAL SHOT

DEBİ (m3/h)	180	270	360	450	540	630
SES SEVİYESİ (dBa)	20	25	30	35	40	45
BASINÇ KAYBI (Pa)	6	13	22	35	50	68

MODEL 400 VERTICAL SHOOT

DEBİ (m3/h)	180	270	360	450	540	630
SES SEVİYESİ (dBa)	20	25	30	35	40	45
BASINÇ KAYBI (Pa)	6	13	22	35	50	68

MODEL 500 HORIZONTAL SHOT

DEBİ (m3/h)	360	468	576	684	792	900
SES SEVİYESİ (dBa)	25	30	35	40	45	45
BASINÇ KAYBI (Pa)	10	17	26	37	49	63

MODEL 500 VERTICAL SHOOT

DEBİ (m3/h)	360	468	576	684	792	900
SES SEVİYESİ (dBa)	25	30	35	40	45	45
BASINÇ KAYBI (Pa)	10	17	26	37	49	63

MODEL 600 HORIZONTAL SHOT

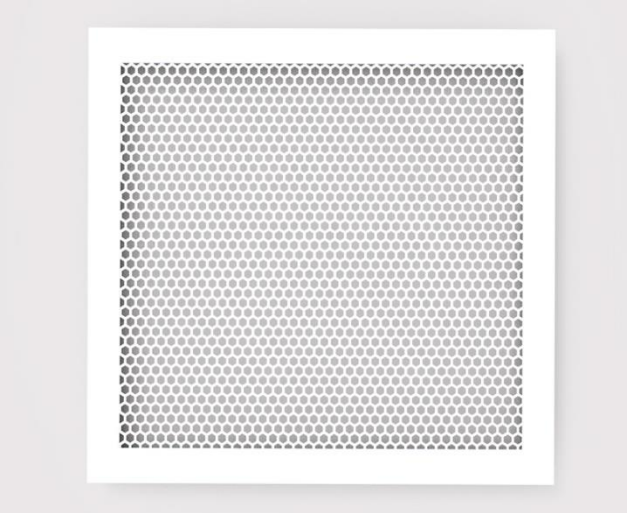
DEBİ (m3/h)	450	612	774	936	1100	1300
SES SEVİYESİ (dBa)	25	30	35	40	40	45
BASINÇ KAYBI (Pa)	7	13	22	31	47	60

MODEL 600 VERTICAL SHOOT

DEBİ (m3/h)	450	612	774	936	1100	1300
SES SEVİYESİ (dBa)	25	30	35	40	40	45
BASINÇ KAYBI (Pa)	7	13	22	31	47	60

CENKAY TEKNİK

PERFORATED DIFFUSERS – LOW SPEED DIFFUSERS–CKD-05



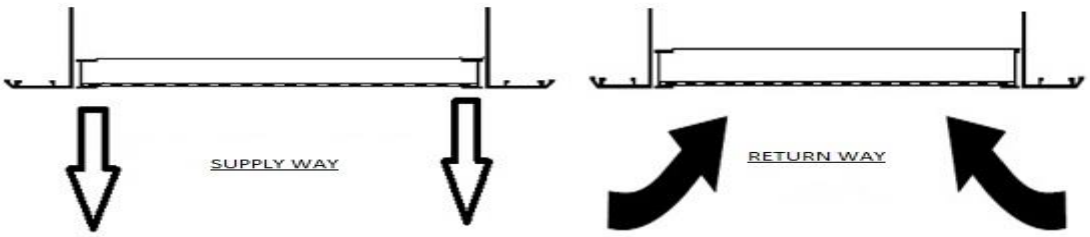
AREAS OF USE AND FEATURES: It is used as blowing and suction diffusers in hvac systems.Suitable for vertical and horizontal use. The ideal shooting distance is between 2.5 and 3.5 meters. It is in ceiling and wall applications. It is screw mounted as standard.The way of mounting can be changed optionally. The effective area is about 50%.

MATERIAL: Frame is made of aluminium profile, culvert 1 mm, with DKP material, Ø5 mm perforated hole.

SURFACE COATING: The product can result in any colour with electrostatic powder paint.

ACCESSORIES: Plenum box

AIR DIRECTION



CENKAY TEKNİK

SUPPLY TABLE

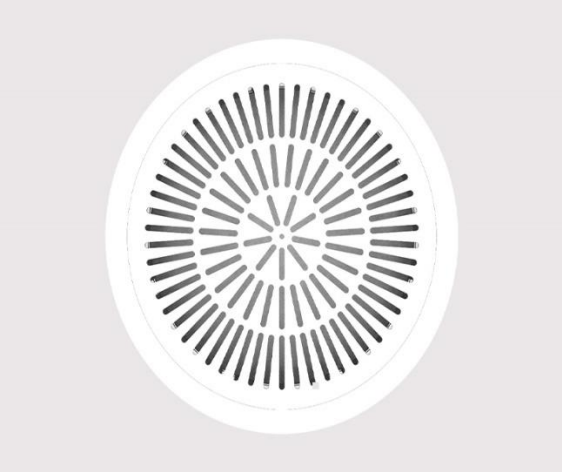
A*B (mm)	AIR FLOW Q (m3/h)	AIR VELOCITY Vn (m/s)	PRESSURE LOSS Ps (Pa)	SOUND LEVEL NC (dB)	SHOT DISTANCE (m.)
255 x 255	108	1,7	3	-	-0,8
	144	2,25	5	-	0.5-1.0
	180	2,9	6	-	0.7-1.2
	216	3,5	8	-	0.8-1.5
	252	3,95	12	23	1.1 -1.8
	288	4,5	14	28	1.2-2.1
	324	5	17	32	1.5-2.5
	360	5,65	20	34	1.8-3.0
355 x 355	216	1,9	2	-	0.7-1.0
	288	2,5	5	15	0.9-1.5
	360	3,2	6	22	1.0-1.6
	432	3,8	7	23	1.3-1.8
	504	4,45	10	27	1.5-2.2
	576	5,1	14	31	1.8-2.7
	648	5,7	19	38	2.2-3.3
	720	6,35	22	40	2.4 - 3.5
455 x 455	288	1,6	3	17	0.6-1.0
	360	2,05	5	20	0.8-1.4
	432	2,45	7	21	1.0-1.6
	504	2,85	10	24	1.4-2.0
	576	3,25	12	27	1.7 - 2.4
	648	3,7	14	30	2.0 - .3.0
	720	4,1	17	31	2.4 - 3.4
	792	4,5	20	36	2.7-3.7
555 x 555	180	2,9	3	-	0.6-1.1
	216	3,5	3	-	0.8-1.4
	252	3,95	4	16	1.2 -1.8
	288	4,5	5	19	1.2-2.2
	324	5	7	26	1.4-2.5
	360	5,65	9	28	1.6-2.8
	396	6,2	13	33	2.0 - 3.2
	432	6,8	18	38	2.3 - 3.6
555 x 555	288	2,5	3	18	0.8-1.3
	360	3,2	5	19	1.0-1.6
	432	3,8	6	21	1.2-1.8
	504	4,45	7	24	1.5 - 2.4
	576	5,1	10	27	2.0 - 3.2
	648	5,7	13	34	2.3 - 3.6
	720	6,35	18	38	2.6-4.0
	792	7	23	40	3.0 - 4.5
555 x 555	360	2	3	-	1.2-1.8
	540	3,05	6	22	1.5-2.2
	648	3,7	7	24	1.8-2.4
	720	4,1	8	28	2.3 - 3.2
	828	4,7	11	30	2.7-3.8
	936	5,3	15	32	3.0 - 4.3
	1008	5,7	19	34	3.4 - 4.8
	1080	6,1	26	36	3.7-5.1

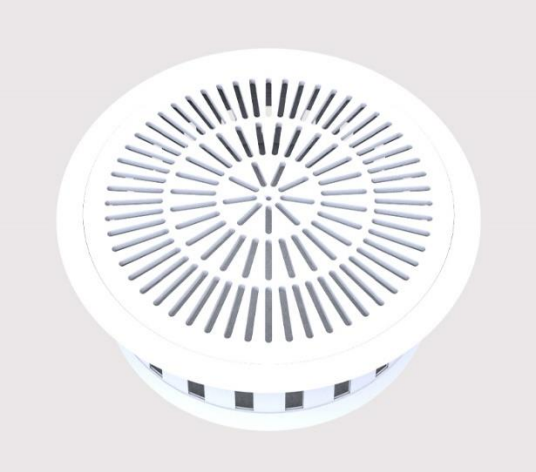
RETURN TABLE

A*B (mm)	AIR FLOW Q (m3/h)	AIR VELOCITY Vn (m/s)	PRESSURE LOSS Ps (Pa)	SOUND LEVEL NC (dB)
250 x 250	180	0,85	6	-
	270	1,3	8	16
	360	1,75	12	20
	450	2,2	19	25
	540	2,6	25	28
	720	3,5	40	35
	900	4,35	63	38
350 x 350	540	1,3	8	19
	720	1,75	17	22
	900	2,15	29	26
	1080	2,6	38	32
	1350	3,25	52	35
	1530	3,7	63	39
	1800	4,3	94	44
450 x 450	900	1,3	12	18
	1080	1,55	16	23
	1260	1,8	20	27
	1440	2,1	26	29
	1620	2,35	33	32
	1800	2,6	42	35
	1980	2,85	53	41
550 x 550	1260	1,2	5	17
	1530	1,45	15	26
	1800	1,75	21	30
	2070	2	29	32
	2250	2,15	32	35
	2520	2,4	37	38
	2880	2,75	45	42

CENKAY TEKNİK

FLOORING DIFFUSERS - LOW SPEED BLOWING DIFFUSER – CKD-06





AREAS OF USE AND FEATURES: It used as blowing diffusers in hvac systems. It is suitable for shooting from the ground. The ideal shooting distance is between 0.5-1.5 m. It used in raised floor applications. It is standard screwless mounted. Installation method can be changed optionally. Air regulation by damper method. It is in movie theatres, conference halls and offices. It provides comfortable ventilation of the air by reducing the heat load on the items and people durng the upward airflow. It does not cause turbulence.

MATERIAL: It is manufactured by laser method with 1 mm, DKP material and 5 mm DKP material with diffuser body.

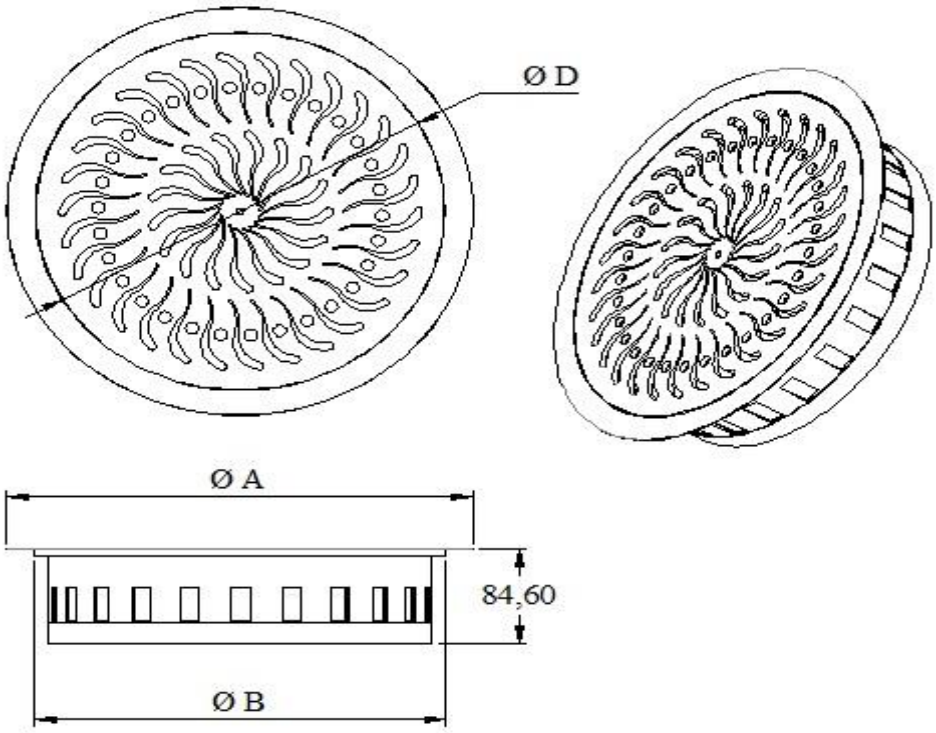
SURFACE COATING: The product can in any colour with electrostatic powder paint. The wings in standard black colour.

ACCESSORIES: Plenum box

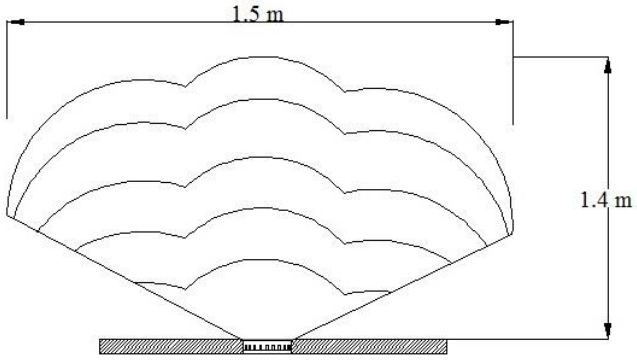
CENKAY TEKNİK

TECHNICAL DIMENSIONS

Ø D	Ø A	Ø B	AIR FLOW m3/h MİN.MAX	AIR VELOCITY m/s	SHOOT DISTANCE m.	AIR SPREADING AREA m.	PRESURE LOSS Pa.	SOUND LAVEL dBA
150	210	153	77-155	2-4	1,5	1,4	25	25
200	260	203	105-210	2-4	1,5	1,4	30	25
250	310	253	165-230	2-4	1,5	1,4	32	25
300	360	303	140-280	2-4	1,5	1,4	32	25

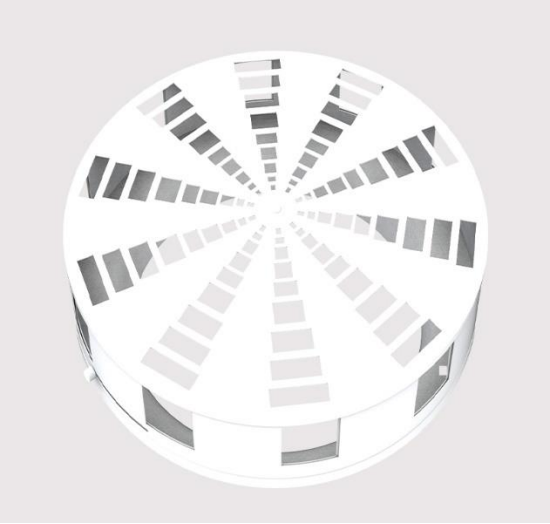


AIR WAY :



CENKAY TEKNİK

COMFORT DIFFUSERS – HIGH CEILING BLOW DIFFUSER –CKD-07



AREAS OF USE AND FEATURES: It is as blowing diffusers in hvac systems. It is suitable for vertical use. It can work. Heating and cooling purposes. Ideal shooting distance is between 3m-15m. İt has Uused in-ceiling applications. It is suitable for servo motor use. It is standard screwless mounted. The way of mounting can be changed optionally.

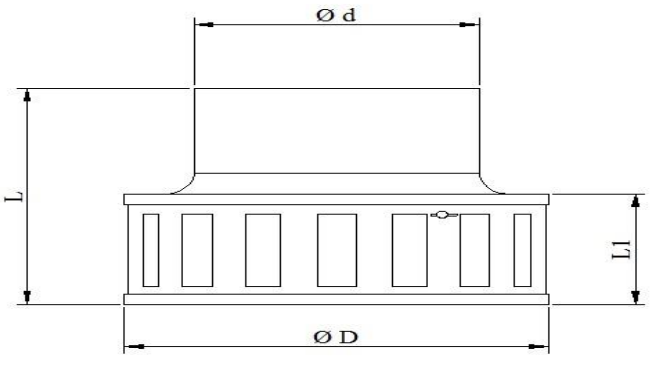
MATERIAL: The frame is produced by laser method by cutting from a galvanized plate.

SURFACE COATING: The product can be in any colour with electrostatic powder paint.

ACCESSORIES: Plenum box

STANDARD DIMENSIONS:

	DIMENSIONS			
	ØD	Ød	L	L1
300	302	175	216	82
400	402	245	248	108
500	502	310	298	136
600	602	395	363	192
800	702	495	448	200



CENKAY TEKNİK

EASY SELECTION TABLE:

AIR FLOW m3/h		FOR WINTER APPLICATION					FOR SUMMER APPLICATION				
		Ø300	Ø400	Ø500	Ø600	Ø800	Ø300	Ø400	Ø500	Ø600	Ø800
300	SHOOTING DISTANCE (m.) SOUND VIOLENCE (dBA) PRESSURE LOSS (Pa)	4 27 40					3,5 27 40				
400	SHOOTING DISTANCE (m.) SOUND VIOLENCE (dBA) PRESSURE LOSS (Pa)	7 38 68	3,5 25 18				4,5 38 68	3,5 25 18			
600	SHOOTING DISTANCE (m.) SOUND VIOLENCE (dBA) PRESSURE LOSS (Pa)	9 44 145	6 35 48				7,5 44 145	4,5 35 39			
800	SHOOTING DISTANCE (m.) SOUND VIOLENCE (dBA) PRESSURE LOSS (Pa)		7 44 79	4,5 30 20				6 44 79	5 30 20		
1000	SHOOTING DISTANCE (m.) SOUND VIOLENCE (dBA) PRESSURE LOSS (Pa)		9 50 119	6 35 30	4,5 29 21			7 50 119	6 35 30	3,5 29 21	
1500	SHOOTING DISTANCE (m.) SOUND VIOLENCE (dBA) PRESSURE LOSS (Pa)			7 45 69	6,5 40 55				8,5 45 69	5 40 55	
2000	SHOOTING DISTANCE (m.) SOUND VIOLENCE (dBA) PRESSURE LOSS (Pa)			10 50 80	9 50 90	2,5 25 15				7 50 90	5 25 15
3000	SHOOTING DISTANCE (m.) SOUND VIOLENCE (dBA) PRESSURE LOSS (Pa)				14 55 170	3 30 20				9 55 170	7,5 30 20
5000	SHOOTING DISTANCE (m.) SOUND VIOLENCE (dBA) PRESSURE LOSS (Pa)					4 35 25					12 35 25
7000	SHOOTING DISTANCE (m.) SOUND VIOLENCE (dBA) PRESSURE LOSS (Pa)					4,5 40 35					
7300	SHOOTING DISTANCE (m.) SOUND VIOLENCE (dBA) PRESSURE LOSS (Pa)					5,5 50 85					

CENKAY TEKNİK

FOUR WAY SWIRLL DIFFUSERS-CKD-08

AREAS OF USE AND FEATURES: It is as blowing diffusers in hvac systems and high ceilings. It is suitable for vertical use. It can for heating and cooling. With the help of the arm, the shooting distance can range between 3m-15m. In fixed-wing applications, the shooting distance is max. 5 m. It is suitable for servo motor use. It is standard screw mounted. The way of mounting can be changed optionally**.**

MATERIAL: Frame and wings are made of aluminium profile by the extrusion method.

SURFACE COATING: The product can result in any colour with electrostatic powder paint.

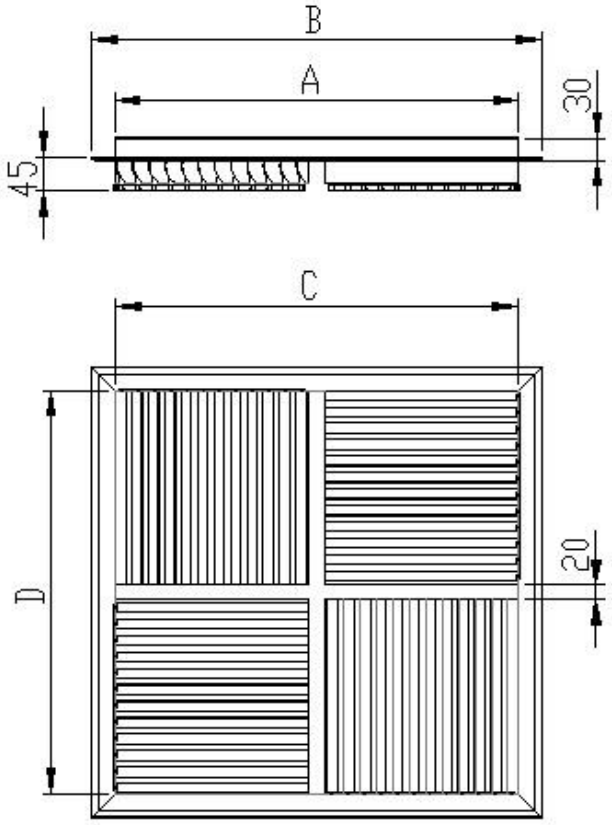
ACCESSORIES: Plenum box.

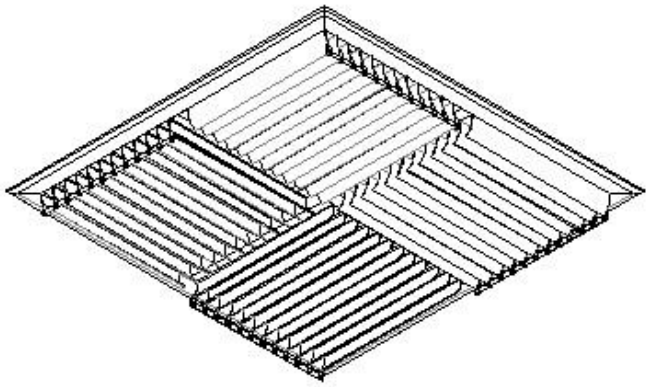
STANDAT DIMENSIONS -mm

MODEL	A	B	C	D
420*420	420*420	485*485	410*410	410*410
595*595	530*530	595*595	520*520	520*520
770*770	770*770	835*835	760*760	760*760
1040*1040	1040*1040	1150*1150	1030*1030	1030*1030

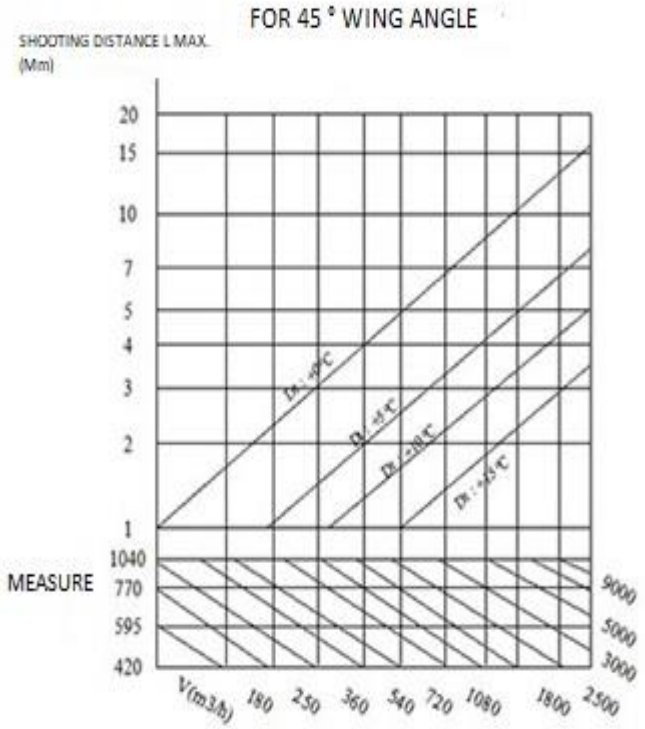
CENKAY TEKNİK

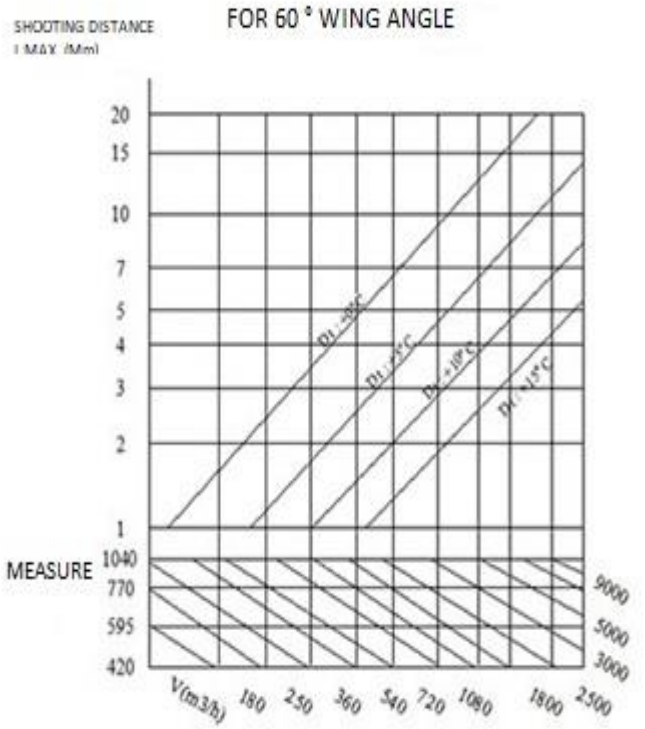
TECHNICAL INFORMATION



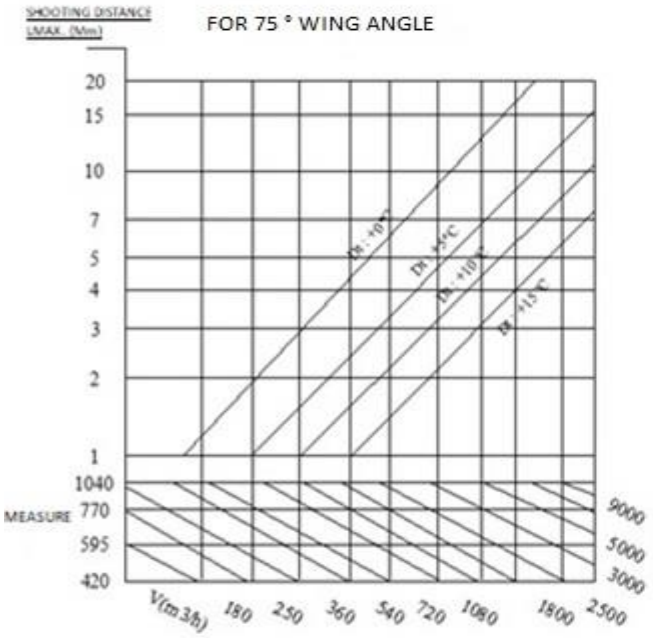


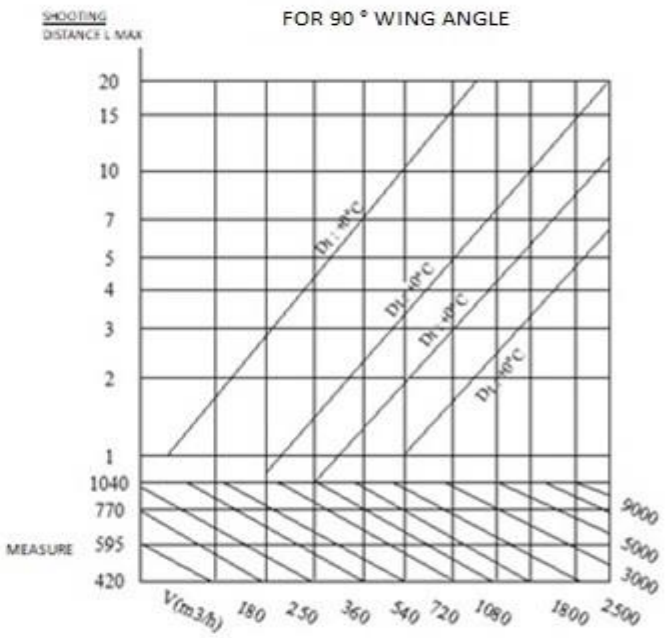
AIR FLOWS BY WING ANGLES:

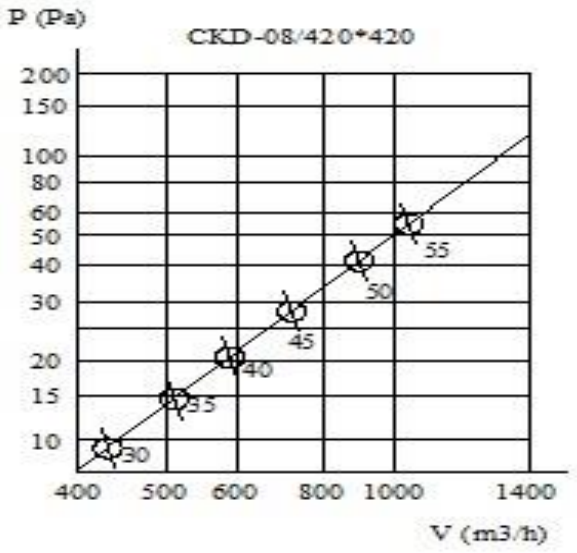


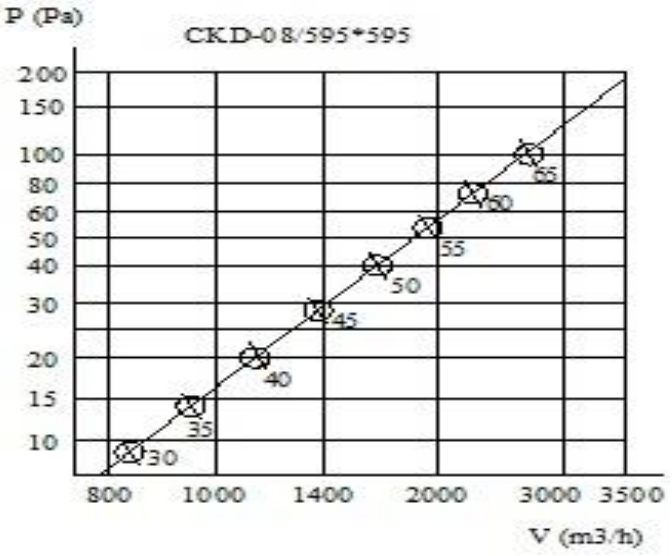


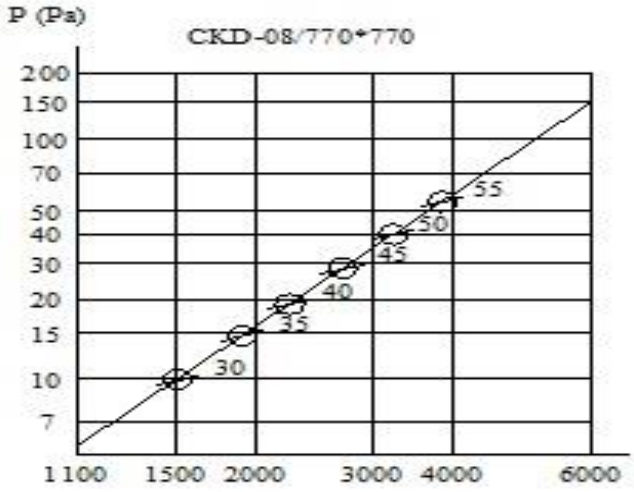
CENKAY TEKNİK

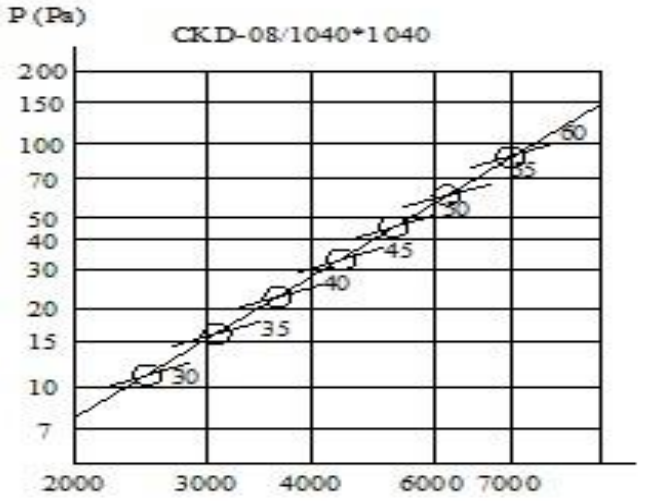






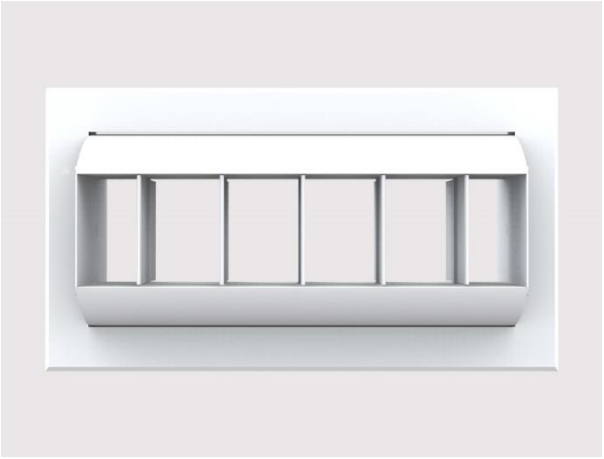






CENKAY TEKNİK

CYLINDRICAL JET DIFFUSERS - DRUM JET DIFFUSER CKD-09



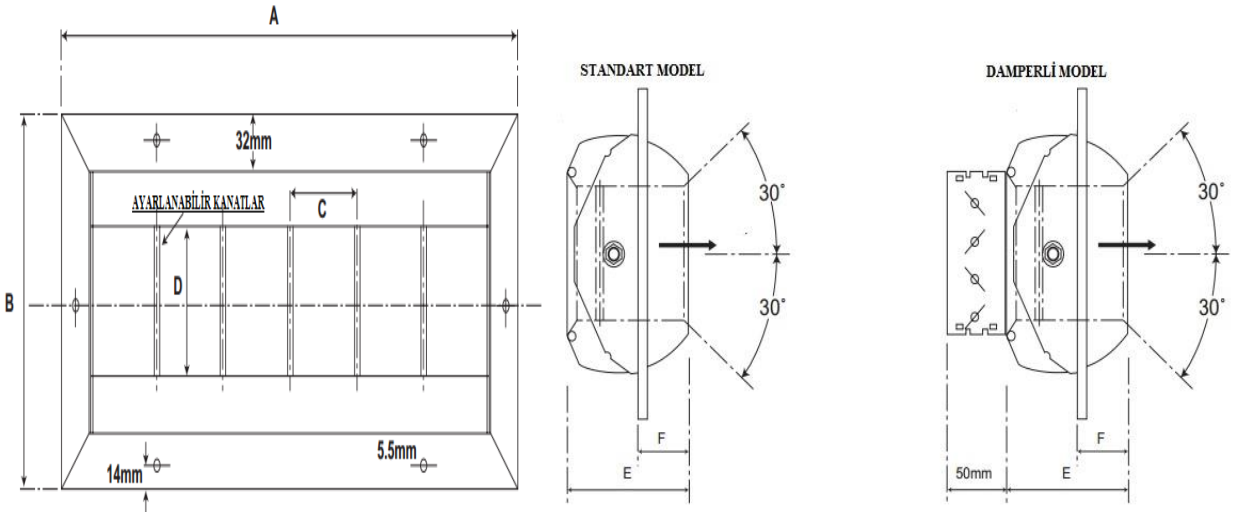
AREAS OF USE AND FEATURES: It is as blowing diffusers in hvac systems. It is suitable for horizontal use. The ideal shooting distance is between 3.5 m -15 m. It is for heating and cooling in sports halls, shopping malls, factory buildings and conference halls where high flow and long throw distances are required standard screw mounting. The way of support can be changed optionally.

MATERIAL: Frame and wings are made of aluminium profile by the extrusion method.

SURFACE COATING: The product can result in any colour with electrostatic powder paint.

ACCESSORIES: Plenum box

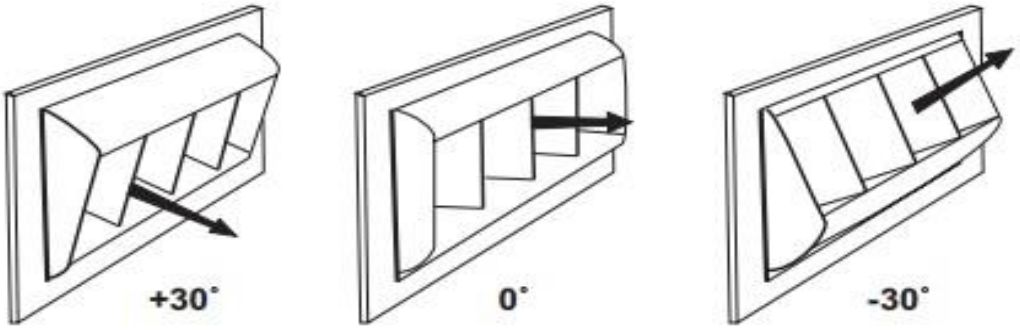
STANDARD DIMENSIONS



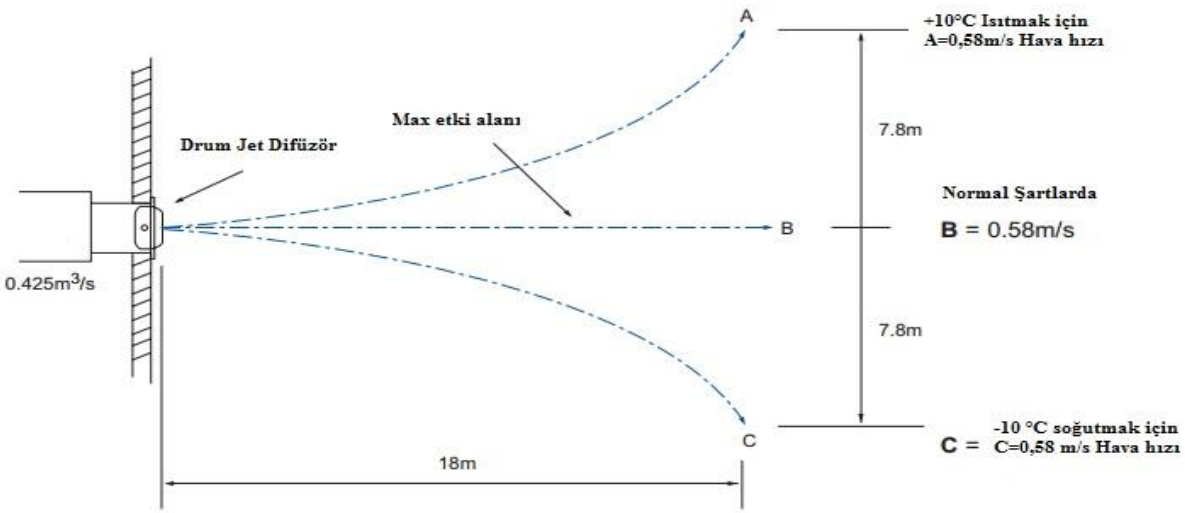
MODEL	A	B	C	D	E	F	BOX SIZE mm.
1	297	208	76	85	90	35	246*157
2	373	208	76	85	90	35	322*157
3	525	208	76	85	90	35	475*157
4	678	208	76	85	90	35	627*157
5	576	303	126	150	150	59	525*259
6	703	303	126	150	150	59	652*259
7	830	303	126	150	150	59	779*259
8	957	303	126	150	150	59	906*259

TECHNICAL INFORMATION

AIR DIRECTION BY WING ANGLES



AIR DIRECTION BY HEAT DIFFERENCE



CENKAY TEKNİK

EASY SELECTION TABLE

	AIR FLOW (m3/h)	SHOOTING DISTANCE (m)								PRESURE LOSS (Pa)	SOUND LEVEL (dBA)
		3	6	9	12	15	18	21	24		
		Düşüş Anındaki Hava Hızı (m/s)									
MODEL 1	90	0,34	0,19	0,13						2	
	180	0,66	0,37	0,26	0,2	0,15	0,12			7	
	270	1	0,56	0,39	0,29	0,23	0,18	0,14		15	
	360	1,33	0,75	0,51	0,39	0,3	0,24	0,18	0,12	26	22
	450	1,66	0,92	0,64	0,48	0,38	0,29	0,22	0,14	37	24
	540	1,98	1,11	0,78	0,58	0,45	0,36	0,26	0,17	47	27
	630	2,32	1,29	0,9	0,68	0,53	0,42	0,3	0,2	66	31
	720	2,65	1,48	1,03	0,78	0,6	0,47	0,35	0,23	87	33
	810	2,98	1,67	1,16	0,87	0,67	0,54	0,39	0,25	105	36
	900	3,31	1,85	1,29	0,97	0,76	0,59	0,43	0,28	131	38
	990	3,64	2,04	1,42	1,07	0,83	0,65	0,48	0,32	158	40

	AIR FLOW (m3/h)	SHOOTING DISTANCE (m)								PRESURE LOSS (Pa)	SOUND LEVEL (dBA)
		3	6	9	12	15	18	21	24		
		Air Speed at the Time of Fall (m/s)									
MODEL 2	90	0,3	0,17	0,11						1	
	180	0,57	0,32	0,22	0,17	0,13	0,11			3	
	270	0,85	0,48	0,34	0,25	0,2	0,16	0,12		5	
	360	1,13	0,64	0,44	0,34	0,26	0,21	0,15		12	
	450	1,42	0,8	0,56	0,42	0,33	0,25	0,19	0,13	19	21
	540	1,7	0,96	0,67	0,5	0,39	0,3	0,22	0,15	25	23
	630	1,98	1,11	0,78	0,59	0,45	0,36	0,26	0,17	32	24
	720	2,27	1,28	0,89	0,67	0,51	0,41	0,3	0,19	42	28
	810	2,54	1,44	1	0,76	0,59	0,46	0,34	0,22	53	30
	900	2,82	1,6	1,11	0,84	0,65	0,51	0,38	0,24	66	32
	990	3,11	1,75	1,22	0,92	0,71	0,56	0,41	0,26	79	34
	1080	3,39	1,91	1,33	1	0,78	0,61	0,45	0,28	95	36
	1170	3,68	2,08	1,45	1,08	0,84	0,66	0,48	0,32	105	37
	1260	3,96	2,24	1,55	1,17	0,9	0,71	0,53	0,34	126	39
	1350	4,24	2,39	1,67	1,25	0,98	0,77	0,56	0,36	158	42

CENKAY TEKNİK

MODEL 3	AIR FLOW (m3/h)	SHOOTING DISTANCE (m)								PRESURE LOSS (Pa)	SOUND LEVEL (dBA)
		3	6	9	12	15	18	21	24		
		Air Speed at the Time of Fall (m/s)									
	270	0,68	0,39	0,27	0,21	0,16	0,13			3	
	360	0,9	0,53	0,37	0,27	0,21	0,17	0,13		5	
	450	1,13	0,65	0,45	0,35	0,27	0,21	0,16		8	
	540	1,35	0,79	0,55	0,41	0,32	0,25	0,19	0,12	12	
	630	1,59	0,91	0,64	0,48	0,37	0,29	0,21	0,14	16	21
	720	1,81	1,05	0,72	0,55	0,42	0,34	0,24	0,16	21	23
	810	2,04	1,18	0,82	0,62	0,47	0,38	0,27	0,18	26	24
	900	2,26	1,3	0,91	0,68	0,53	0,42	0,3	0,2	32	26
	990	2,49	1,44	1	0,76	0,58	0,46	0,34	0,22	40	29
	1080	2,72	1,56	1,09	0,82	0,63	0,5	0,37	0,23	45	30
	1170	2,94	1,7	1,19	0,88	0,69	0,55	0,4	0,25	53	32
	1260	3,17	1,83	1,27	0,96	0,75	0,58	0,43	0,27	63	33
	1350	3,39	1,96	1,37	1,02	0,8	0,62	0,46	0,29	79	36
	1440	3,62	2,09	1,46	1,09	0,84	0,66	0,49	0,32	83	37
	1530	3,84	2,22	1,54	1,16	0,89	0,7	0,51	0,34	98	38
	1620	4,07	2,35	1,64	1,23	0,95	0,75	0,55	0,36	106	39
	1710	4,29	2,48	1,72	1,29	1	0,79	0,58	0,37	118	40
	1800	4,53	2,61	1,82	1,37	1,07	0,83	0,61	0,39	145	42
	1890	4,75	2,74	1,91	1,43	1,11	0,87	0,64	0,41	158	43
	1980	4,98	2,88	2	1,5	1,18	0,91	0,67	0,43	171	44

MODEL 4	AIR FLOW (m3/h)	SHOOTING DISTANCE (m)								PRESURE LOSS (Pa)	SOUND LEVEL (dBA)
		3	6	9	12	15	18	21	24		
		Air Speed at the Time of Fall (m/s)									
	270	0,58	0,34	0,24	0,18	0,14	0,11	0	0	1	
	360	0,77	0,45	0,32	0,24	0,18	0,15	0,11	0	2	
	450	0,96	0,57	0,4	0,29	0,23	0,18	0,14	0	4	
	540	1,14	0,68	0,47	0,36	0,27	0,22	0,16	0,11	5	
	630	1,34	0,8	0,56	0,41	0,33	0,25	0,19	0,12	7	
	720	1,53	0,91	0,63	0,47	0,37	0,28	0,21	0,14	11	
	810	1,62	1,02	0,71	0,54	0,41	0,33	0,23	0,16	14	20
	900	1,91	1,13	0,79	0,59	0,46	0,36	0,26	0,17	17	21
	990	2,1	1,25	0,87	0,65	0,5	0,4	0,29	0,19	20	23
	1080	2,31	1,37	0,95	0,71	0,55	0,43	0,32	2,1	24	24
	1170	2,49	1,48	1,03	0,77	0,6	0,47	0,35	0,22	26	27
	1260	2,68	1,59	1,1	0,83	0,64	0,5	0,37	0,24	37	29
	1350	2,89	1,7	1,19	0,89	0,68	0,54	0,4	0,25	42	31
	1440	3,05	1,82	1,26	0,95	0,74	0,57	0,42	0,27	46	32
	1530	3,26	1,93	1,34	1,01	0,78	0,61	0,45	0,29	53	33
	1620	3,41	2,05	1,42	1,06	0,84	0,65	0,47	0,3	58	34
	1710	3,63	2,16	1,5	1,12	0,87	0,68	0,5	0,33	64	35
	1800	3,83	2,27	1,59	1,19	0,91	0,72	0,53	0,34	74	38
	1890	4,04	2,38	1,66	1,24	0,97	0,76	0,56	0,36	82	38
	1980	4,2	2,5	1,74	1,3	1,01	0,79	0,58	0,38	88	39
	2070	4,39	2,61	1,82	1,37	1,05	0,83	0,61	0,39	95	41

CENKAY TEKNİK

MODEL 5	AIR FLOW (m3/h)	SHOOTING DISTANCE (m)									PRESURE LOSS (Pa)		SOUND LEVEL (dBA)
		3	6	9	12	15	18	21	24	30	36		
		Air Speed at the Time of Fall (m/s)											
	360	0,65	0,37	0,25	0,19	0,15	0,12					2	
	540	0,97	0,55	0,38	0,28	0,22	0,18	0,13				4	
	720	1,29	0,74	0,51	0,39	0,29	0,23	0,17	0,12			7	22
	900	1,62	0,91	0,64	0,48	0,37	0,29	0,21	0,14			11	24
	1080	1,94	1,09	0,8	0,58	0,45	0,35	0,25	0,17			15	26
	1260	2,26	1,28	0,89	0,67	0,53	0,41	0,3	0,19			19	28
	1440	2,58	1,46	1,02	0,77	0,6	0,47	0,35	0,22			24	29
	1620	2,91	1,65	1,14	0,86	0,67	0,53	0,39	0,24			30	31
	1800	3,23	1,83	1,27	0,96	0,75	0,59	0,43	0,27			37	32
	1980	3,55	2,01	1,4	1,05	0,82	0,64	0,47	0,3			45	34
	2160	3,87	2,19	1,52	1,14	0,89	0,7	0,51	0,33			53	35
	2340	4,19	2,37	1,66	1,25	0,97	0,76	0,56	0,36			59	37
	2520	4,53	2,56	1,79	1,34	1,04	0,82	0,6	0,39			67	38
	2700	4,85	2,74	1,91	1,44	1,11	0,87	0,64	0,41	0,11		77	39
	2880	5,17	2,93	2,04	1,53	1,19	0,93	0,68	0,44	0,11		85	40
	3060	5,49	3,11	2,16	1,63	1,26	1	0,72	0,46	0,12		95	41
	3240	5,82	3,29	2,29	1,72	1,34	1,05	0,77	0,49	0,12		105	42
	3420	6,14	3,48	2,43	1,83	1,42	1,11	0,81	0,51	0,13		118	43
	3600	6,46	3,65	2,55	1,92	1,49	1,17	0,85	0,55	0,14		126	44

MODEL 6	AIR FLOW (m3/h)	SHOOTING DISTANCE (m)							PRESURE LOSS (Pa)				SOUND LEVEL (dBA)
		3	6	9	12	15	18	21	24	30	36		
		Air Speed at the Time of Fall (m/s)											
	540	0,84	0,49	0,35	0,26	0,2	0,16	0,12				3	
	720	1,12	0,66	0,46	0,35	0,27	0,21	0,16	0,11			5	
	900	1,41	0,82	0,58	0,43	0,34	0,26	0,19	0,13			7	
	1080	1,69	0,99	0,69	0,51	0,4	0,32	0,23	0,15			11	20
	1260	1,97	1,16	0,81	0,61	0,47	0,37	0,27	0,18			14	23
	1440	2,25	1,31	0,91	0,69	0,54	0,42	0,3	0,2			17	25
	1620	2,53	1,48	1,03	0,78	0,6	0,47	0,35	0,22			21	27
	1800	2,79	1,65	1,14	0,86	0,67	0,53	0,39	0,25			26	28
	1980	3,1	1,81	1,26	0,95	0,74	0,58	0,42	0,27			30	31
	2160	3,37	1,97	1,38	1,03	0,8	0,63	0,46	0,29			35	32
	2340	3,65	2,13	1,49	1,12	0,87	0,68	0,5	0,33			40	33
	2520	3,94	2,3	1,61	1,21	0,93	0,74	0,54	0,35			46	34
	2700	4,22	2,47	1,72	1,29	1,01	0,79	0,58	0,37			53	36
	2880	4,5	2,64	1,84	1,38	1,07	0,84	0,62	0,4			59	37
	3060	4,78	2,79	1,95	1,47	1,13	0,89	0,65	0,42	0,11		66	38
	3240	5,06	2,96	2,07	1,55	1,21	0,95	0,69	0,44	0,12		74	39
	3420	5,34	3,13	2,18	1,64	1,27	1	0,72	0,47	0,12		79	39
	3600	5,63	3,29	2,3	1,72	1,33	1,05	0,77	0,49	0,13		88	43
	3780	5,91	3,45	2,42	1,81	1,41	1,1	0,81	0,51	0,13		98	45
	3960	6,18	3,62	2,52	1,9	1,47	1,16	0,84	0,55	0,14		105	47
	4140	6,47	3,78	2,64	1,98	1,53	1,21	0,88	0,57	0,14		116	48
	4320	6,75	3,95	2,75	2,07	1,61	1,26	0,92	0,59	0,15		127	49
	4500	7,04	4,11	2,87	2,15	1,67	1,31	0,96	0,61	0,15		137	50
	4680	7,31	4,27	2,98	2,24	1,73	1,37	1	0,64	0,16		148	51

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MODEL 7

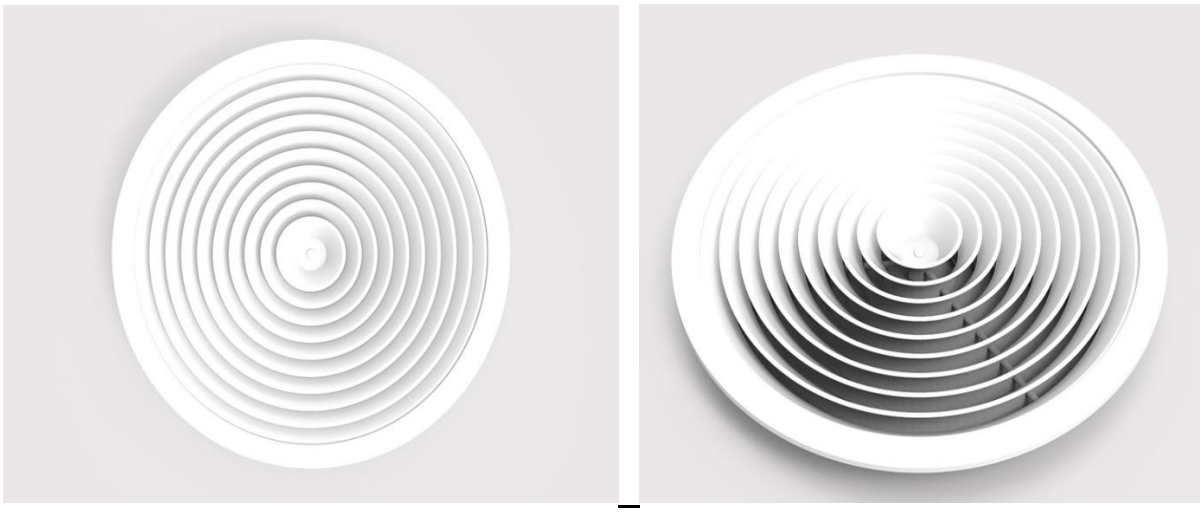
AIR FLOW (m3/h)	SHOOTING DISTANCE (m)							PRESURE LOSS (Pa)				SOUND LEVEL (dBA)
	3	6	9	12	15	18	21	24	30	36		
	Air Speed at the Time of Fall (m/s)											
540	0,74	0,45	0,32	0,24	0,19	0,15	0,11				2	
720	0,99	0,61	0,42	0,32	0,24	0,19	0,15				3	
900	1,23	0,76	0,53	0,4	0,3	0,24	0,18	0,12			5	
1080	1,48	0,9	0,63	0,47	0,37	0,29	0,21	0,14			7	21
1260	1,72	1,05	0,74	0,56	0,43	0,34	0,25	0,16			9	22
1440	1,96	1,21	0,84	0,63	0,49	0,39	0,28	0,19			12	24
1620	2,22	1,35	0,95	0,71	0,56	0,43	0,32	0,21			15	26
1800	2,46	1,51	1,05	0,79	0,61	0,48	0,36	0,23			19	27
1980	2,71	1,66	1,17	0,87	0,67	0,54	0,39	0,25			22	28
2160	2,95	1,81	1,27	0,96	0,74	0,58	0,43	0,27			26	29
2340	3,19	1,96	1,38	1,03	0,8	0,63	0,46	0,29			29	31
2520	3,44	2,11	1,48	1,11	0,86	0,67	0,49	0,33			35	32
2700	3,69	2,26	1,59	1,19	0,92	0,72	0,54	0,35			40	34
2880	3,94	2,42	1,69	1,27	0,99	0,78	0,57	0,37			44	35
3060	4,18	2,56	1,8	1,34	1,04	0,82	0,6	0,39			49	36
3240	4,43	2,72	1,9	1,43	1,1	0,87	0,64	0,41	0,11		55	37
3420	4,67	2,87	2,01	1,5	1,17	0,91	0,67	0,43	0,12		61	38
3600	4,92	3,01	2,11	1,59	1,23	0,97	0,7	0,45	0,12		66	38
3780	5,17	3,17	2,22	1,66	1,29	1,01	0,75	0,48	0,13		72	39
3960	5,41	3,32	2,32	1,74	1,35	1,06	0,78	0,5	0,13		79	40
4140	5,66	3,47	2,43	1,83	1,41	1,11	0,81	0,53	0,14		81	41
4320	5,9	3,62	2,53	1,9	1,47	1,16	0,85	0,55	0,14		84	42
4500	6,15	3,77	2,64	1,98	1,53	1,21	0,88	0,57	0,15		89	43
4680	6,39	3,92	2,74	2,06	1,6	1,25	0,91	0,59	0,15		98	44
4860	6,64	4,07	2,85	2,14	1,66	1,3	0,96	0,61	0,16		110	45
5040	6,89	4,22	2,95	2,22	1,72	1,32	0,99	0,64	0,16		123	46
5220	7,13	4,37	3,06	2,3	1,77	1,4	1,02	0,66	0,17		126	47
5400	7,38	4,53	3,16	2,37	1,84	1,45	1,06	0,68	0,17		137	47

MODEL 8

AIR FLOW (m3/h)	SHOOTING DISTANCE (m)							PRESURE LOSS (Pa)				SOUND LEVEL (dBA)
	3	6	9	12	15	18	21	24	30	36		
	Air Speed at the Time of Fall (m/s)											
720	0,86	0,56	0,4	0,29	0,23	0,18	0,14				2	
900	1,08	0,69	0,49	0,37	0,28	0,23	0,17	0,11			3	
1080	1,29	0,84	0,59	0,44	0,35	0,27	0,2	0,13			4	20
1260	1,51	0,98	0,69	0,51	0,4	0,32	0,23	0,15			5	22
1440	1,72	1,11	0,79	0,59	0,46	0,36	0,26	0,17			7	23
1620	1,94	1,26	0,88	0,66	0,51	0,41	0,29	0,19	0,11		9	25
1800	2,15	1,4	0,99	0,74	0,57	0,45	0,34	0,22	0,12		1	26
1980	2,37	1,53	1,08	0,81	0,63	0,49	0,37	0,24	0,13		14	26
2160	2,59	1,67	1,18	0,88	0,68	0,51	0,4	0,26	0,14		17	27
2340	2,8	1,82	1,28	0,96	0,75	0,59	0,43	0,28	0,16		20	29
2520	3,02	1,95	1,38	1,03	0,8	0,63	0,46	0,3	0,17		23	30
2700	3,23	2,09	1,51	1,11	0,86	0,67	0,49	0,33	0,18		26	31
2880	3,45	2,24	1,58	1,19	0,91	0,72	0,53	0,35	0,19		29	32
3060	3,66	2,37	1,67	1,26	0,98	0,77	0,57	0,37	0,2		35	33
3240	3,87	2,51	1,77	1,33	1,03	0,81	0,6	0,39	0,21	0,11	38	34
3420	4,1	2,66	1,87	1,41	1,08	0,85	0,63	0,41	0,22	0,11	41	35
3600	4,32	2,79	1,96	1,48	1,11	0,9	0,66	0,43	0,23	0,12	46	36
3780	4,53	2,93	2,06	1,55	1,2	0,95	0,69	0,45	0,24	0,12	50	36
3960	4,75	3,07	2,16	1,63	1,26	0,99	0,72	0,47	0,53	0,13	56	37
4140	4,97	3,2	2,26	1,7	1,31	1,03	0,76	0,49	0,27	0,13	62	38
4320	5,18	3,35	2,36	1,77	1,38	1,08	0,79	0,51	0,74	0,14	65	39
4500	5,4	3,49	2,46	1,85	1,43	1,12	0,83	0,54	0,84	0,14	71	40
4680	5,61	3,62	2,56	1,92	1,48	1,17	0,86	0,56	0,3	0,14	77	41
4860	5,83	3,77	2,66	2	1,54	1,21	0,89	0,58	0,32	0,15	83	42
5040	6,04	3,91	2,75	2,07	1,6	1,26	0,92	0,6	0,33	0,15	90	43
5220	6,26	4,04	2,86	2,14	1,66	1,3	0,96	0,62	0,34	0,16	97	43
5400	6,47	4,18	2,95	2,22	1,71	1,34	0,99	0,64	0,35	0,16	103	44
5580	6,69	4,33	3,05	2,29	1,77	1,39	1,02	0,66	0,36	0,17	109	45

CENKAY TEKNİK

CIRCULAR ANEMOSTAD– CIRCULAR DIFFUSER–CKD-10



AREAS OF USE AND FEATURES: It is as blowing diffusers in hvac systems. It is suitable for vertical use. It can be used for heating and cooling. Ideal shooting distance is between 3.5m-4m. They are used in-ceiling applications. It is standard screwless mounted. The way of mounting can be changed optionally.

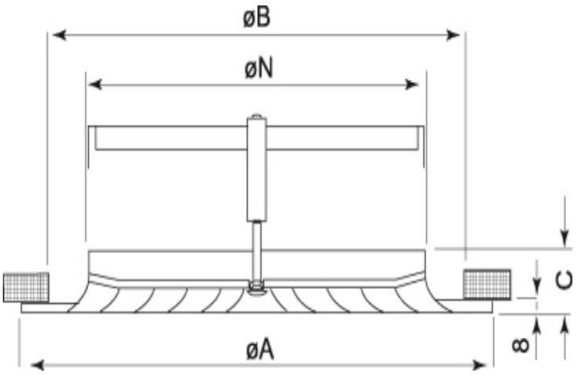
MATERIAL: Frame and blades are made of galvanized sheet.

SURFACE COATING: The product can be manufactured in any colour with electrostatic powder paint.

ACCESSORIES: Plenum box

STANDARD DIMENCIONS:

SIZE	Ø A	Ø B	C	Ø N
Ø 150	250	200	50	147
Ø 200	300	250	50	197
Ø 250	350	300	50	247
Ø 300	400	350	50	297
Ø 350	450	400	50	347
Ø 400	500	450	50	397
Ø 450	550	500	50	447
Ø 500	600	550	50	497



CENKAY TEKNİK

EASY SELECTION TABLE :

SIZE	EFFECTIVE AREA (m²)	SHOOTING SPEED (m/s)	1	2	3	4	5	6	7	8	9
Ø 100	0,019	AIR FLOW (m³ / h)	**70**	**140**	**210**	**280**	**350**	**420**	**490**	**560**	**630**
		SHOOTING DISTANCE. min. (m)	0,4	0,8	1	1,5	1,5	2	2	2,4	2,7
		SHOOTING DISTANCE. max. (m)	0,7	1,3	2	2,5	3,5	4	4,5	5	5,6
		PRESSURE LOSS (Pa)	2	4	10	17	26	37	55	74	94
		SOUND LEVEL (dBA)	19	22	25	28	31	33	36	39	42
Ø 150	0,031	AIR FLOW (m³ / h)	**125**	**250**	**375**	**500**	**625**	**750**	**875**	**1000**	**1125**
		SHOOTING DISTANCE. min. (m)	0,48	0,95	1,25	1,6	1,95	2,3	2,6	2,95	3,3
		SHOOTING DISTANCE. max. (m)	0,85	1,65	2,45	3,2	3,8	4,6	5,2	5,9	6,6
		PRESSURE LOSS (Pa)	2,45	4,4	10,5	17,7	27,5	38,5	57,5	74	95
		SOUND LEVEL (dBA)	20	23	26	30	33	35	39	42	45
Ø 200	0,051	AIR FLOW (m³ / h)	**185**	**360**	**540**	**720**	**900**	**1080**	**1260**	**1440**	**1620**
		SHOOTING DISTANCE. min. (m)	0,55	1,1	1,45	1,9	2,3	2,7	3,1	3,5	3,9
		SHOOTING DISTANCE. max. (m)	1	2	2,9	3,8	4,6	5,4	6,2	7	7,8
		PRESSURE LOSS (Pa)	2,95	4,9	10,8	18,6	29,5	39,2	55,5	74,5	96,1
		SOUND LEVEL (dBA)	21	24	27	31	34	37	41	44	47
Ø 250	0,071	AIR FLOW (m³ / h)	**264**	**530**	**795**	**1060**	**1325**	**1590**	**1855**	**2120**	**2385**
		SHOOTING DISTANCE. min. (m)	0,7	1,3	1,7	2,2	2,7	3,15	3,6	4,1	4,53
		SHOOTING DISTANCE. max. (m)	1	2,35	3,45	4,5	5,4	6,3	7,2	8,2	9,1
		PRESSURE LOSS (Pa)	3	4,9	7,85	19,1	24,5	39,7	56	76,5	97
		SOUND LEVEL (dBA)	23	25	29	32	36	39	43	47	49
Ø300	0,096	AIR FLOW (m³ / h)	**350**	**700**	**1050**	**1400**	**1750**	**2100**	**2450**	**2800**	**3150**
		SHOOTING DISTANCE. min. (m)	0,85	1,5	1,95	2,55	3,1	3,6	4,1	4,7	5,1
		SHOOTING DISTANCE. max. (m)	1,6	2,5	4	5,15	6,2	7,2	8,2	9,5	10,5
		PRESSURE LOSS (Pa)	3	4,9	10,8	19,6	29,5	40,2	55,9	78,5	98
		SOUND LEVEL (dBA)	22	25	31	33	38	40	45	49	51

Ø 350	0,122	AIR FLOW (m³ / h)	**460**	**920**	**1380**	**1840**	**2300**	**2760**	**3220**	**3680**	**4140**
		SHOOTING DISTANCE. min. (m)	0,9	1,8	2,3	3	3,55	4,3	4,75	5,35	6,1
		SHOOTING DISTANCE. max. (m)	1,7	3,35	4,35	6,1	7,1	8,6	9,5	10,5	12,2
		PRESSURE LOSS (Pa)	3	4,9	10,9	19,6	24,5	40,2	574	78,5	97,8
		SOUND LEVEL (dBA)	24	28	33	36	41	44	48	52	56
Ø 400	0,154	AIR FLOW (m³ / h)	**570**	**1140**	**1710**	**2280**	**2850**	**3420**	**3990**	**4560**	**5130**
		SHOOTING DISTANCE. min. (m)	1	2	2,6	3,5	4	5	5,4	6	7
		SHOOTING DISTANCE. max. (m)	2	4	5,3	7	8	10	11	13	14
		PRESSURE LOSS (Pa)	3	4,9	10,9	19,6	30,3	40,2	58,8	78,4	99
		SOUND LEVEL (dBA)	25	30	35	38	43	47	51	55	60
Ø 450	0,186	AIR FLOW (m³ / h)	**645**	**1290**	**1935**	**2580**	**3225**	**3870**	**4515**	**5160**	**5805**
		SHOOTING DISTANCE. min. (m)	1,1	2,2	2,7	3,6	4,25	5,25	5,73	6,4	7,35
		SHOOTING DISTANCE. max. (m)	2,15	4,3	5,75	7,2	85	10,5	11,5	12,9	14,7
		PRESSURE LOSS (Pa)	3,2	4,9	11,2	19,6	30,4	40,5	58,8	78,4	99
		SOUND LEVEL (dBA)	27	32	37	40	45	49	54	58	63
Ø500	0,224	AIR FLOW (m³ / h)	**788**	**1576**	**2364**	**3152**	**3940**	**4728**	**5516**	**6304**	**7092**
		SHOOTING DISTANCE. min. (m)	1,3	2,4	2,9	3,9	4,75	5,75	6,4	7,15	8,05
		SHOOTING DISTANCE. max. (m)	2,5	4,8	6,6	8,2	9,5	11,7	12,8	14,3	16
		PRESSURE LOSS (Pa)	3,7	4,9	11,6	20,5	30,4	40,6	58,8	78,4	99
		SOUND LEVEL (dBA)	29	32	39	44	49	53	58	63	68

CENKAY TEKNİK

SWIRL DIFFUSER TURBULENCE FIXED -CKD-11

AREAS OF USE AND FEATURES: It is as blowing diffusers in hvac systems. It is suitable for vertical use. The ideal shooting distance is between 3.5 m -7 m. It is for heating and cooling in sports halls, shopping malls, factory buildings and conference halls where high flow and long throw distances are required standard screw mounting. The way of support can be changed optionally.

MATERIAL: Frame and wings made of the galvanized plate.

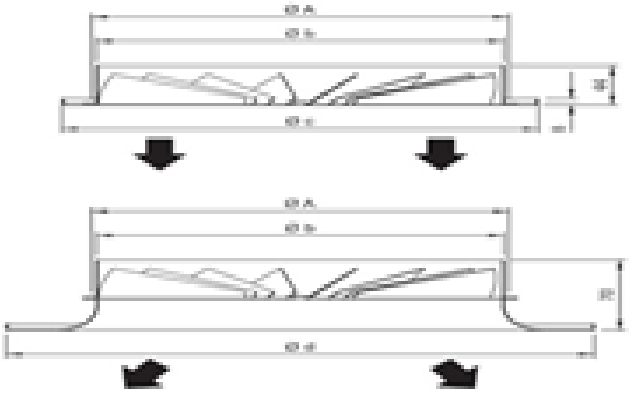
SURFACE COATING: The product can be in any colour with electrostatic powder paint.

ACCESSORIES: Plenum box

CENKAY TEKNİK

STANDARD DIMENSIONS :

MODEL	DIMENSIONS			
	øA	øb	Øo	Ød
100	98	108	148	200
150	150	158	208	250
200	200	198	248	300
250	250	248	298	350
315	315	313	363	450
355	355	352	402	455
400	400	398	448	500
450	450	447	497	550
500	500	497	547	600



TURBULANCED SWIRE DIFFUSER SELECTION TABLE

SIZE	E. AREA (m²)	SHOOTING SPEED (m / s)	1	2	3	4	5	6	7	8	9
Ø 100	0,019	FLOW (m³ / h)	**70**	**140**	**210**	**280**	**350**	**420**	**490**	**560**	**630**
		SHOOTING DISTANCE. min. (m)	0,4	0,8	1	1,5	1,5	2	2	2,4	2,7
		SHOOTING DISTANCE. max. (m)	1,05	1,95	3	3,75	5,25	6	6,75	7,5	8,4
		PRESSURE LOSS (Pa)	3	6	15	25,5	39	55,5	82,5	111	141
		SOUND LEVEL (dBA)	19	22	25	28	31	33	36	39	42
Ø 150	0,031	FLOW (m³ / h)	**125**	**250**	**375**	**500**	**625**	**750**	**875**	**1000**	**1125**
		SHOOTING DISTANCE. min. (m)	0,48	0,95	1,25	1,6	1,95	2,3	2,6	2,95	3,3
		SHOOTING DISTANCE. max. (m)	1,275	2,475	3,675	4,8	5,7	6,9	7,8	8,85	9,9
		PRESSURE LOSS (Pa)	3,675	6,6	15,75	26,55	41,25	57,75	86,25	111	142,5
		SOUND LEVEL (dBA)	20	23	26	30	33	35	39	42	45
Ø 200	0,051	FLOW (m³ / h)	**185**	**360**	**540**	**720**	**900**	**1080**	**1260**	**1440**	**1620**
		SHOOTING DISTANCE. min. (m)	0,55	1,1	1,45	1,9	2,3	2,7	3,1	3,5	3,9
		SHOOTING DISTANCE. max. (m)	1,5	3	4,35	5,7	6,9	8,1	9,3	10,5	11,7
		PRESSURE LOSS (Pa)	4,425	7,35	16,2	27,9	44,25	58,8	83,25	111,75	144,15
		SOUND LEVEL (dBA)	21	24	27	31	34	37	41	44	47
Ø 250	0,071	FLOW (m³ / h)	**264**	**530**	**795**	**1060**	**1325**	**1590**	**1855**	**2120**	**2385**
		SHOOTING DISTANCE. min. (m)	0,7	1,3	1,7	2,2	2,7	3,15	3,6	4,1	4,53
		SHOOTING DISTANCE. max. (m)	1,5	3,525	5,175	6,75	8,1	9,45	10,8	12,3	13,65
		PRESSURE LOSS (Pa)	4,5	7,35	11,775	28,65	36,75	59,55	84	114,75	145,5
		SOUND LEVEL (dBA)	23	25	29	32	36	39	43	47	49

Ø300	0,096	FLOW (m³ / h)	**350**	**700**	**1050**	**1400**	**1750**	**2100**	**2450**	**2800**	**3150**
		SHOOTING DISTANCE. min. (m)	0,85	1,5	1,95	2,55	3,1	3,6	4,1	4,7	5,1
		SHOOTING DISTANCE. max. (m)	2,4	3,75	6	7,725	9,3	10,8	12,3	14,25	15,75
		PRESSURE LOSS (Pa)	4,5	7,35	16,2	29,4	44,25	60,3	83,79	117,75	147
		SOUND LEVEL (dBA)	22	25	31	33	38	40	45	49	51
Ø 350	0,122	FLOW (m³ / h)	**460**	**920**	**1380**	**1840**	**2300**	**2760**	**3220**	**3680**	**4140**
		SHOOTING DISTANCE. min. (m)	0,9	1,8	2,3	3	3,55	4,3	4,75	5,35	6,1
		SHOOTING DISTANCE. max. (m)	2,55	5,025	6,525	9,15	10,65	12,9	14,25	15,75	18,3
		PRESSURE LOSS (Pa)	4,5	7,35	16,275	29,4	36,75	60,3	861	117,75	146,7
		SOUND LEVEL (dBA)	24	28	33	36	41	44	48	52	56
Ø 400	0,154	FLOW (m³ / h)	**570**	**1140**	**1710**	**2280**	**2850**	**3420**	**3990**	**4560**	**5130**
		SHOOTING DISTANCE. min. (m)	1	2	2,6	3,5	4	5	5,4	6	7
		SHOOTING DISTANCE. max. (m)	3	6	7,95	10,5	12	15	16,5	19,5	21
		PRESSURE LOSS (Pa)	4,5	7,35	16,275	29,4	45,45	60,3	88,2	117,6	148,5
		SOUND LEVEL (dBA)	25	30	35	38	43	47	51	55	60
Ø 450	0,186	FLOW (m³ / h)	**645**	**1290**	**1935**	**2580**	**3225**	**3870**	**4515**	**5160**	**5805**
		SHOOTING DISTANCE. min. (m)	1,1	2,2	2,7	3,6	4,25	5,25	5,73	6,4	7,35
		SHOOTING DISTANCE. max. (m)	3,225	6,45	8,625	10,8	127,5	15,75	17,25	19,35	22,05
		PRESSURE LOSS (Pa)	4,8	7,35	16,725	29,4	45,6	60,75	88,2	117,6	148,5
		SOUND LEVEL (dBA)	27	32	37	40	45	49	54	58	63
Ø500	0,224	FLOW (m³ / h)	**788**	**1576**	**2364**	**3152**	**3940**	**4728**	**5516**	**6304**	**7092**
		SHOOTING DISTANCE. min. (m)	1,3	2,4	2,9	3,9	4,75	5,75	6,4	7,15	8,05
		SHOOTING DISTANCE. max. (m)	3,75	7,2	9,9	12,3	14,25	17,55	19,2	21,45	24
		PRESSURE LOSS (Pa)	5,55	7,35	17,4	30,75	45,6	60,9	88,2	117,6	148,5
		SOUND LEVEL (dBA)	29	32	39	44	49	53	58	63	68

CENKAY TEKNİK

SWIRL DIFFUSER TURBULENCE MOVING -CKD-12

AREAS OF USE AND FEATURES: It is as blowing diffusers in hvac systems. It is suitable for vertical use. The ideal shooting distance is between 3.5 m -7 m. It is for heating and cooling in sports halls, shopping malls, factory buildings and conference halls where high flow and long throw distances are required standard screw mounting. The way of support can be changed optionally.

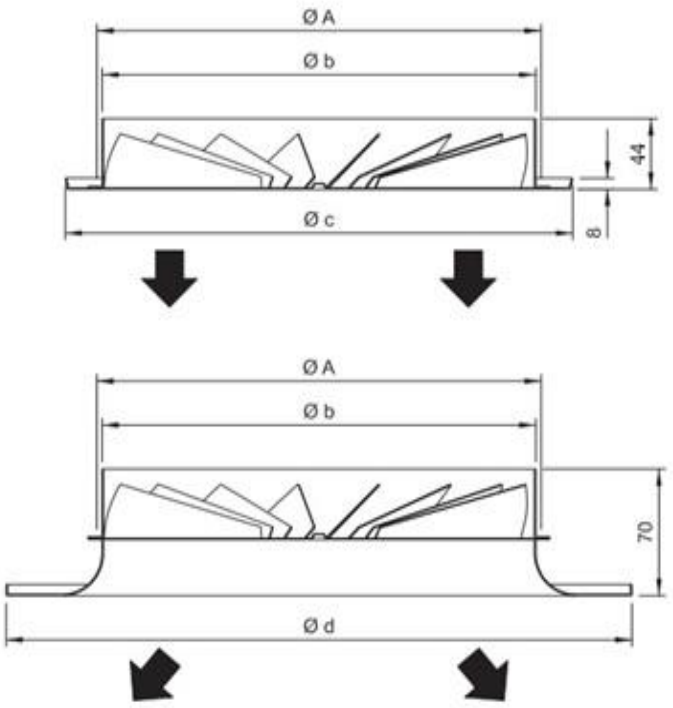
MATERIAL: Frame and wings of the galvanized plate.

SURFACE COATING: The product can in any colour with electrostatic powder paint.

ACCESSORIES: Plenum box

STANDARD DIMENSIONS :

MODEL	DIMENSIONS			
	øA	**øb**	**Øc**	**Ød**
100	98	108	148	200
150	150	158	208	250
200	200	198	248	300
250	250	248	298	350
315	315	313	363	450
355	355	352	402	455
400	400	398	448	500
450	450	447	497	550
500	500	497	547	600



TURBULANCED SWIRE DIFFUSER SELECTION TABLE

SIZE	E. AREA (m^2)	SHOOTING SPEED (m / s)	1	2	3	4	5	6	7	8	9
Ø 100	0,019	FLOW (m^3 / h)	**70**	**140**	**210**	**280**	**350**	**420**	**490**	**560**	**630**
		SHOOTING DISTANCE. min. (m)	0,4	0,8	1	1,5	1,5	2	2	2,4	2,7
		SHOOTING DISTANCE. max. (m)	1,05	1,95	3	3,75	5,25	6	6,75	7,5	8,4
		PRESSURE LOSS (Pa)	3	6	15	25,5	39	55,5	82,5	111	141
		SOUND LEVEL (dBA)	19	22	25	28	31	33	36	39	42
Ø 150	0,031	FLOW (m^3 / h)	**125**	**250**	**375**	**500**	**625**	**750**	**875**	**1000**	**1125**
		SHOOTING DISTANCE. min. (m)	0,48	0,95	1,25	1,6	1,95	2,3	2,6	2,95	3,3
		SHOOTING DISTANCE. max. (m)	1,275	2,475	3,675	4,8	5,7	6,9	7,8	8,85	9,9
		PRESSURE LOSS (Pa)	3,675	6,6	15,75	26,55	41,25	57,75	86,25	111	142,5
		SOUND LEVEL (dBA)	20	23	26	30	33	35	39	42	45
Ø 200	0,051	FLOW (m^3 / h)	**185**	**360**	**540**	**720**	**900**	**1080**	**1260**	**1440**	**1620**

		SHOOTING DISTANCE. min. (m)	0,55	1,1	1,45	1,9	2,3	2,7	3,1	3,5	3,9
		SHOOTING DISTANCE. max. (m)	1,5	3	4,35	5,7	6,9	8,1	9,3	10,5	11,7
		PRESSURE LOSS (Pa)	4,425	7,35	16,2	27,9	44,25	58,8	83,25	111,75	144,15
		SOUND LEVEL (dBA)	21	24	27	31	34	37	41	44	47
Ø 250	0,071	FLOW (m^3 / h)	**264**	**530**	**795**	**1060**	**1325**	**1590**	**1855**	**2120**	**2385**
		SHOOTING DISTANCE. min. (m)	0,7	1,3	1,7	2,2	2,7	3,15	3,6	4,1	4,53
		SHOOTING DISTANCE. max. (m)	1,5	3,525	5,175	6,75	8,1	9,45	10,8	12,3	13,65
		PRESSURE LOSS (Pa)	4,5	7,35	11,775	28,65	36,75	59,55	84	114,75	145,5
		SOUND LEVEL (dBA)	23	25	29	32	36	39	43	47	49
Ø300	0,096	FLOW (m^3 / h)	**350**	**700**	**1050**	**1400**	**1750**	**2100**	**2450**	**2800**	**3150**
		SHOOTING DISTANCE. min. (m)	0,85	1,5	1,95	2,55	3,1	3,6	4,1	4,7	5,1
		SHOOTING DISTANCE. max. (m)	2,4	3,75	6	7,725	9,3	10,8	12,3	14,25	15,75
		PRESSURE LOSS (Pa)	4,5	7,35	16,2	29,4	44,25	60,3	83,79	117,75	147
		SOUND LEVEL (dBA)	22	25	31	33	38	40	45	49	51
Ø 350	0,122	FLOW (m^3 / h)	**460**	**920**	**1380**	**1840**	**2300**	**2760**	**3220**	**3680**	**4140**
		SHOOTING DISTANCE. min. (m)	0,9	1,8	2,3	3	3,55	4,3	4,75	5,35	6,1
		SHOOTING DISTANCE. max. (m)	2,55	5,025	6,525	9,15	10,65	12,9	14,25	15,75	18,3
		PRESSURE LOSS (Pa)	4,5	7,35	16,275	29,4	36,75	60,3	861	117,75	146,7
		SOUND LEVEL (dBA)	24	28	33	36	41	44	48	52	56
Ø 400	0,154	FLOW (m^3 / h)	**570**	**1140**	**1710**	**2280**	**2850**	**3420**	**3990**	**4560**	**5130**
		SHOOTING DISTANCE. min. (m)	1	2	2,6	3,5	4	5	5,4	6	7
		SHOOTING DISTANCE. max. (m)	3	6	7,95	10,5	12	15	16,5	19,5	21
		PRESSURE LOSS (Pa)	4,5	7,35	16,275	29,4	45,45	60,3	88,2	117,6	148,5
		SOUND LEVEL (dBA)	25	30	35	38	43	47	51	55	60
Ø 450	0,186	FLOW (m^3 / h)	**645**	**1290**	**1935**	**2580**	**3225**	**3870**	**4515**	**5160**	**5805**
		SHOOTING DISTANCE. min. (m)	1,1	2,2	2,7	3,6	4,25	5,25	5,73	6,4	7,35
		SHOOTING DISTANCE. max. (m)	3,225	6,45	8,625	10,8	127,5	15,75	17,25	19,35	22,05
		PRESSURE LOSS (Pa)	4,8	7,35	16,725	29,4	45,6	60,75	88,2	117,6	148,5
		SOUND LEVEL (dBA)	27	32	37	40	45	49	54	58	63
Ø500	0,224	FLOW (m^3 / h)	**788**	**1576**	**2364**	**3152**	**3940**	**4728**	**5516**	**6304**	**7092**
		SHOOTING DISTANCE. min. (m)	1,3	2,4	2,9	3,9	4,75	5,75	6,4	7,15	8,05
		SHOOTING DISTANCE. max. (m)	3,75	7,2	9,9	12,3	14,25	17,55	19,2	21,45	24
		PRESSURE LOSS (Pa)	5,55	7,35	17,4	30,75	45,6	60,9	88,2	117,6	148,5
		SOUND LEVEL (dBA)	29	32	39	44	49	53	58	63	68

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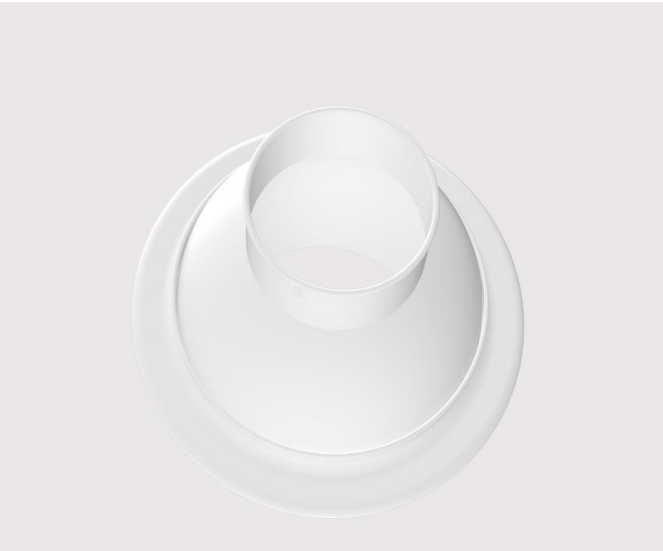
JET NOZZLE DIFFUSERS-CKD-13



AREAS OF USE AND FEATURES: It is as blowing diffusers in hvac systems. It is suitable for vertical and horizontal use. The ideal shooting distance is between 3.5 m -15m. It is for heating and cooling in sports halls, shopping malls, factory buildings and conference halls where high flow and long throw distances are required standard screw mounting. The way of support can be changed optionally.

MATERIAL: The frame and nozzle from the plate plastering method.

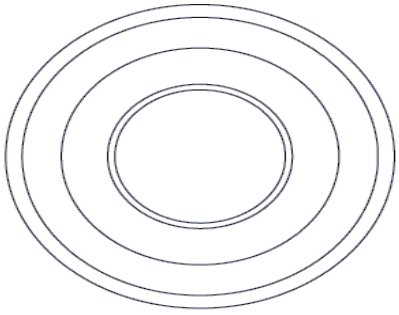
SURFACE COATING: The product can in any colour with electrostatic powder paint.

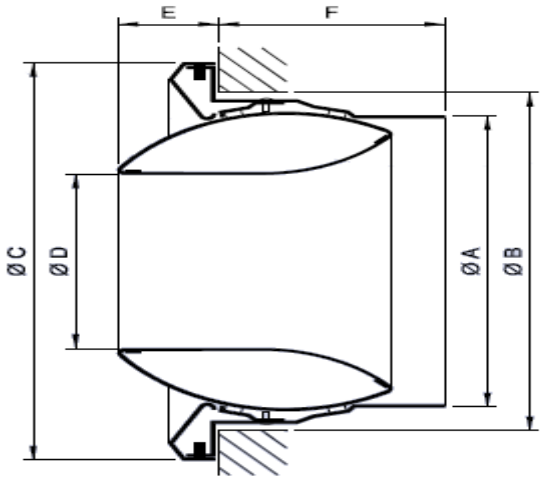
ACCESSORIES: Plenum box

CENKAY TEKNİK

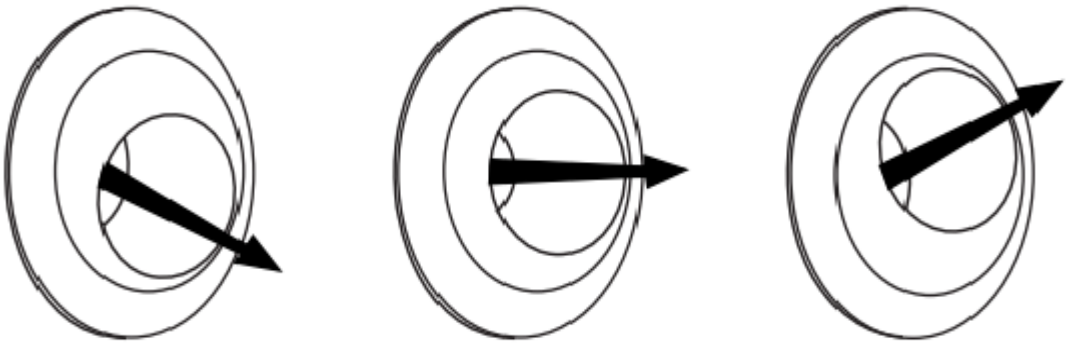
STANDARD DIMENSIONS

MODEL	DIMENSIONS					
	ØA	ØB	ØC	ØD	E	F
160	158	170	216	82	21	95
200	197	205	248	108	30	111
250	247	255	298	136	39	143
315	312	320	363	192	52	166
400	397	405	448	200	71	199





TECNICAL INFORMATION



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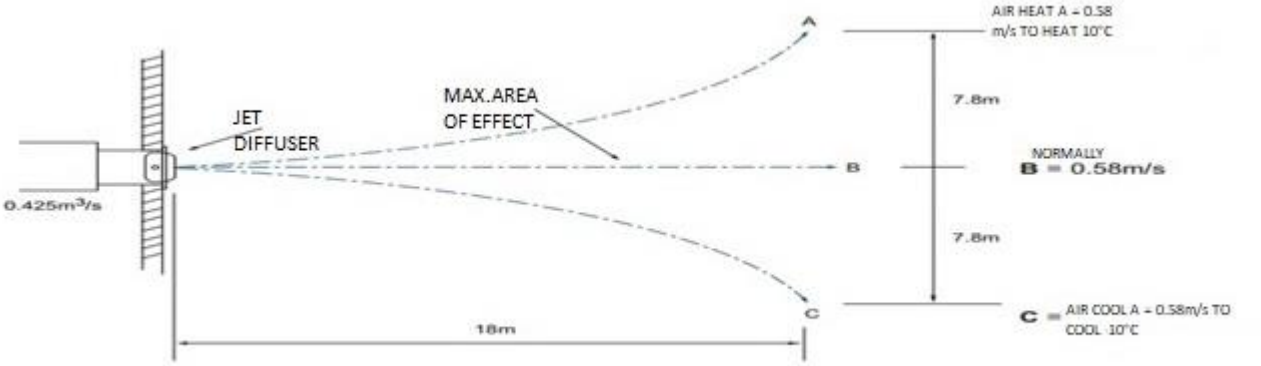


EASY SELECTION TABLE:

Ø 160 JET NOZZLE DIFFUSERS

AIR FLOW m3/h	SHOOTING DISTANCE m.								PRESURE LOSS (Pa)	SOUND LEVEL (dBA)
	3	6	9	12	15	18	21	24		
	AIR SPEED AT THE FALLING POINT m/s									
0.010	0.24	0.12	0.08	0.06	0.05	0.04	0.03	0.02	1	<20
0.020	0.48	0.24	0.17	0.12	0.10	0.08	0.06	0.03	5	<20
0.030	0.73	0.36	0.25	0.19	0.15	0.11	0.08	0.05	10	22
0.040	0.97	0.48	0.33	0.25	0.20	0.15	0.11	0.07	18	25
0.050	1.21	0.60	0.41	0.31	0.24	0.19	0.14	0.09	28	28
0.060	1.45	0.72	0.50	0.37	0.29	0.23	0.16	0.10	40	30
0.070	1.70	0.84	0.58	0.43	0.34	0.26	0.19	0.12	55	32
0.080	1.94	0.96	0.66	0.49	0.39	0.30	0.22	0.14	72	34
0.090	2.18	1.08	0.74	0.56	0.44	0.34	0.25	0.15	90	35
0.100	2.42	1.20	0.83	0.62	0.49	0.38	0.27	0.17	110	37
0.110	2.67	1.32	0.91	0.68	0.54	0.41	0.30	0.19	120	38
0.120	2.91	1.44	0.99	0.74	0.58	0.45	0.33	0.20	160	40
0.130	3.15	1.56	1.08	0.80	0.63	0.49	0.35	0.22	185	41
0.140	3.39	1.68	1.16	0.87	0.68	0.53	0.38	0.24	220	42
0.150	3.64	1.80	1.24	0.93	0.73	0.56	0.41	0.25	260	43
0.160	3.88	1.92	1.32	0.99	0.78	0.60	0.44	0.27	285	45

Ø 200 JET NOZZLE DIFFUSERS

AIR FLOW m3/h	SHOOTING DISTANCE m.								PRESSURE LOSS (Pa.)	SOUND LEVEL (dBA)
	3	6	9	12	15	18	21	24		
	AIR SPEED AT THE DOWN POINT (m / s)									
0.015	0.22	0.12	0.09	0.07	0.05	0.04	0.03	0.02	-	<20
0.030	0.44	0.25	0.18	0.14	0.11	0.08	0.06	0.04	4	<20
0.045	0.66	0.38	0.27	0.20	0.16	0.12	0.09	0.05	8	<20
0.060	0.88	0.50	0.36	0.27	0.22	0.17	0.12	0.07	15	<20
0.075	1.10	0.63	0.45	0.34	0.27	0.21	0.15	0.09	23	<20
0.090	1.32	0.75	0.54	0.41	0.32	0.25	0.18	0.10	33	23
0.105	1.54	0.88	0.63	0.48	0.38	0.29	0.21	0.12	44	26
0.120	1.76	1.00	0.72	0.55	0.43	0.33	0.23	0.14	58	28
0.135	1.98	1.13	0.81	0.61	0.49	0.37	0.26	0.16	73	30
0.150	2.20	1.25	0.90	0.68	0.54	0.41	0.29	0.17	90	32
0.165	2.42	1.38	0.99	0.75	0.59	0.45	0.32	0.19	110	35
0.180	2.64	1.50	1.08	0.82	0.65	0.49	0.35	0.21	130	37
0.195	2.86	1.63	1.17	0.89	0.70	0.54	0.38	0.23	155	39
0.210	3.08	1.75	1.25	0.96	0.76	0.58	0.41	0.24	180	41
0.225	3.30	1.88	1.34	1.02	0.81	0.62	0.44	0.26	200	43

CENKAY TEKNİK

Ø 250 JET NOZZLE DIFFUSER

AIR FLOW (m3 / h)	SHOOTING DISTANCE m.								PRESSURE LOSS (Pa.)	SOUND LEVEL (dBA)
	3	6	9	12	15	18	21	24		
	AIR SPEED AT THE DOWN POINT (m / s)									
0.025	0.29	0.16	0.12	0.09	0.07	0.05	0.04	0.02	-	<20
0.045	0.52	0.29	0.21	0.16	0.13	0.10	0.07	0.04	3	<20
0.065	0.75	0.43	0.31	0.23	0.19	0.14	0.10	0.06	7	<20
0.085	0.98	0.56	0.40	0.31	0.24	0.19	0.13	0.08	13	<20
0.105	1.21	0.69	0.49	0.38	0.30	0.23	0.16	0.10	21	<20
0.125	1.44	0.82	0.59	0.45	0.36	0.27	0.19	0.11	31	<20
0.145	1.68	0.95	0.68	0.52	0.41	0.32	0.22	0.13	41	<20
0.165	1.91	1.08	0.78	0.59	0.47	0.36	0.25	0.15	54	25
0.185	2.14	1.21	0.87	0.67	0.53	0.40	0.28	0.17	66	30
0.205	2.37	1.34	0.97	0.74	0.59	0.45	0.32	0.19	82	35
0.225	2.60	1.47	1.06	0.81	0.64	0.49	0.35	0.20	98	36
0.245	2.83	1.60	1.16	0.88	0.70	0.53	0.38	0.22	118	38
0.265	3.06	1.74	1.25	0.96	0.76	0.58	0.41	0.24	140	38
0.285	3.29	1.87	1.34	1.03	0.81	0.62	0.44	0.26	160	39
0.305	3.52	2.00	1.44	1.10	0.87	0.66	0.47	0.28	172	40

Ø315 JET NOZZLE DIFFUSER

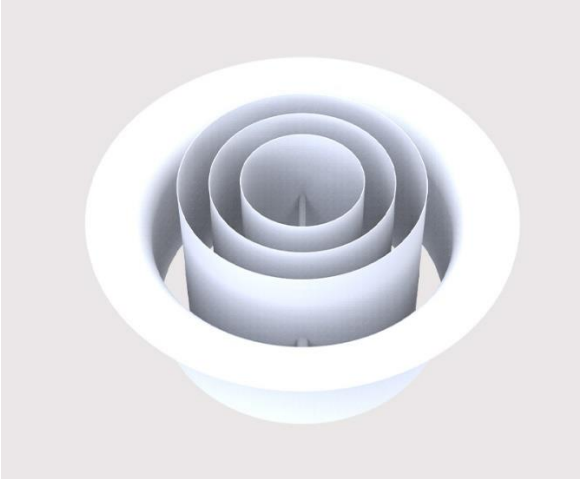
AIR FLOW (m3 / h)	SHOOTING DISTANCE m.								PRESSURE LOSS (Pa.)	SOUND LEVEL (dBA)
	3	6	9	12	15	18	21	24		
	AIR SPEED AT THE DOWN POINT (m /									
0.025	0.22	0.13	0.09	0.07	0.06	0.04	0.03	0.02	-	<20
0.045	0.40	0.23	0.16	0.13	0.10	0.08	0.05	0.03	1	<20
0.065	0.58	0.33	0.24	0.18	0.14	0.11	0.08	0.05	3	<20
0.085	0.76	0.43	0.31	0.24	0.19	0.14	0.10	0.06	5	<20
0.105	0.94	0.53	0.38	0.29	0.23	0.18	0.12	0.07	8	<20
0.125	1.12	0.63	0.45	0.35	0.28	0.21	0.15	0.09	12	<20
0.145	1.30	0.73	0.53	0.40	0.32	0.24	0.17	0.10	17	<20
0.165	1.48	0.83	0.60	0.46	0.37	0.28	0.20	0.12	23	<20
0.185	1.66	0.93	0.67	0.52	0.41	0.31	0.22	0.13	29	21
0.205	1.84	1.03	0.75	0.57	0.45	0.35	0.24	0.14	35	23
0.225	2.02	1.13	0.82	0.63	0.50	0.38	0.27	0.16	42	25
0.245	2.20	1.23	0.89	0.68	0.54	0.41	0.29	0.17	50	26
0.265	2.38	1.33	0.96	0.74	0.59	0.45	0.31	0.18	59	27
0.285	2.56	1.44	1.04	0.80	0.63	0.48	0.34	0.20	68	30
0.305	2.74	1.54	1.11	0.85	0.68	0.51	0.36	0.21	78	34
0.325	2.92	1.64	1.18	0.91	0.72	0.55	0.38	0.23	88	36
0.345	3.10	1.74	1.26	0.96	0.76	0.58	0.41	0.24	100	37
0.365	3.28	1.84	1.33	1.02	0.81	0.61	0.43	0.25	110	38
0.385	3.46	1.94	1.40	1.08	0.85	0.65	0.46	0.27	125	39

Ø 400 JET NOZZLE DIFFUSER

AIR FLOW (m3/h)	SHOOTING DISTANCE m.								PRESSURE LOSS (Pa.)	SOUND LEVEL (dBA)
	3	6	9	12	15	18	21	24		
	AIR SPEED AT THE DOWN POINT (m / s)									
0.050	0.35	0.19	0.14	0.11	0.09	0.07	0.05	0.03	-	<20
0.075	0.53	0.29	0.21	0.16	0.13	0.10	0.07	0.04	2	<20
0.100	0.70	0.39	0.28	0.22	0.17	0.13	0.09	0.05	3	<20
0.125	0.88	0.49	0.35	0.27	0.21	0.16	0.11	0.07	5	<20
0.150	1.05	0.58	0.42	0.32	0.26	0.20	0.14	0.08	7	<20
0.175	1.23	0.68	0.49	0.38	0.30	0.23	0.16	0.09	10	<20
0.200	1.40	0.78	0.56	0.43	0.34	0.26	0.18	0.11	13	<20
0.225	1.58	0.87	0.63	0.49	0.39	0.29	0.21	0.12	16	<20
0.250	1.75	0.97	0.70	0.54	0.43	0.33	0.23	0.13	20	22
0.275	1.92	1.07	0.77	0.59	0.47	0.36	0.25	0.15	24	25
0.300	2.10	1.17	0.84	0.65	0.51	0.39	0.27	0.16	29	28
0.325	2.27	1.26	0.91	0.70	0.56	0.42	0.30	0.17	34	30
0.350	2.45	1.36	0.98	0.76	0.60	0.46	0.32	0.19	39	31
0.375	2.62	1.46	1.06	0.81	0.64	0.49	0.34	0.20	45	32
0.400	2.80	1.55	1.13	0.87	0.69	0.52	0.36	0.21	52	33
0.425	2.97	1.65	1.20	0.92	0.73	0.55	0.39	0.23	58	35
0.450	3.15	1.75	1.27	0.97	0.77	0.59	0.41	0.24	65	36
0.475	3.32	1.85	1.34	1.03	0.82	0.62	0.43	0.25	72	37
0.500	3.50	1.94	1.41	1.08	0.86	0.65	0.46	0.27	80	38
0.525	3.67	2.04	1.48	1.14	0.90	0.68	0.48	0.28	88	39
0.550	3.85	2.14	1.55	1.19	0.94	0.72	0.50	0.29	97	40
0.575	4.02	2.23	1.62	1.24	0.99	0.75	0.52	0.31	105	41
0.600	4.20	2.33	1.69	1.30	1.03	0.78	0.55	0.32	115	42

CENKAY TEKNİK

HIGHT FLOW JET NOZZLE DIFFUSERS -CKD-14



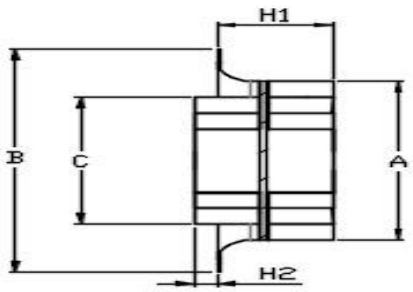
AREAS OF USE AND FEATURES: It is as blowing diffusers in hvac systems. It is suitable for vertical and horizontal use. The ideal shooting distance is between 3.5 m -15m. It is for heating and cooling in sports halls, shopping malls, factory buildings and conference halls where high flow and long throw distances are required standard screw mounting. The way of support can be changed optionally.

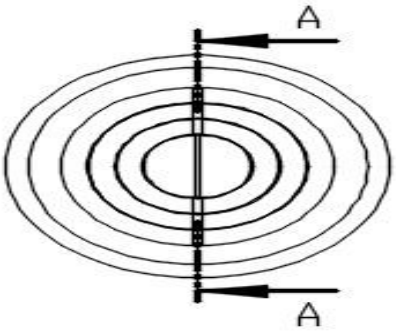
MATERIAL: The frame and nozzle are produced using the plate plaster method.

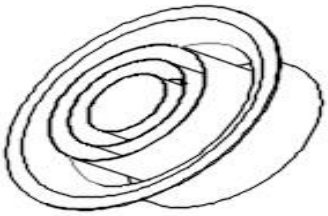
SURFACE COATING: It can be produced in the desired colour with electrostatic powder paint.

ACCESSORIES: Plenum box

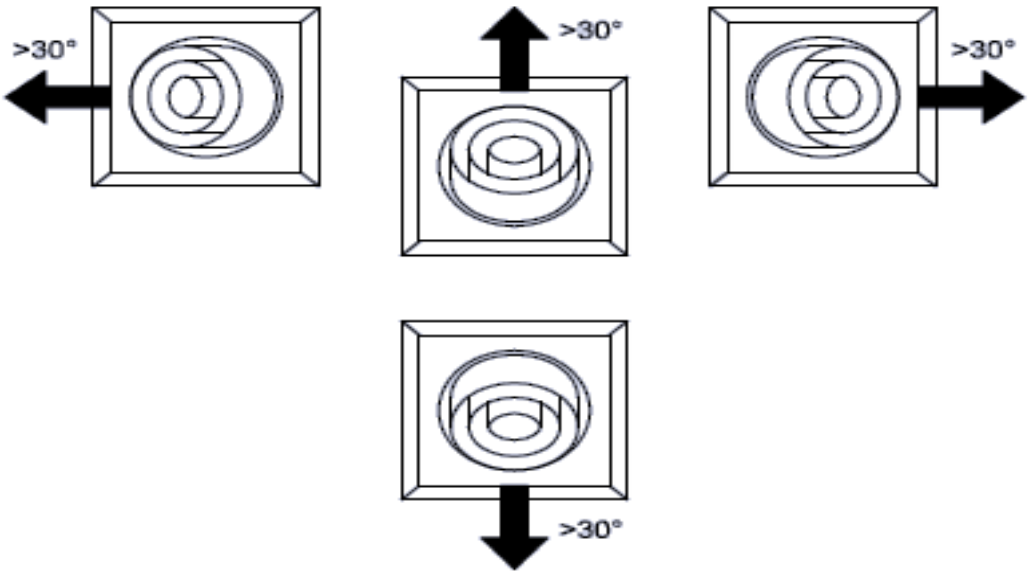
STANDARD DIMENSIONS





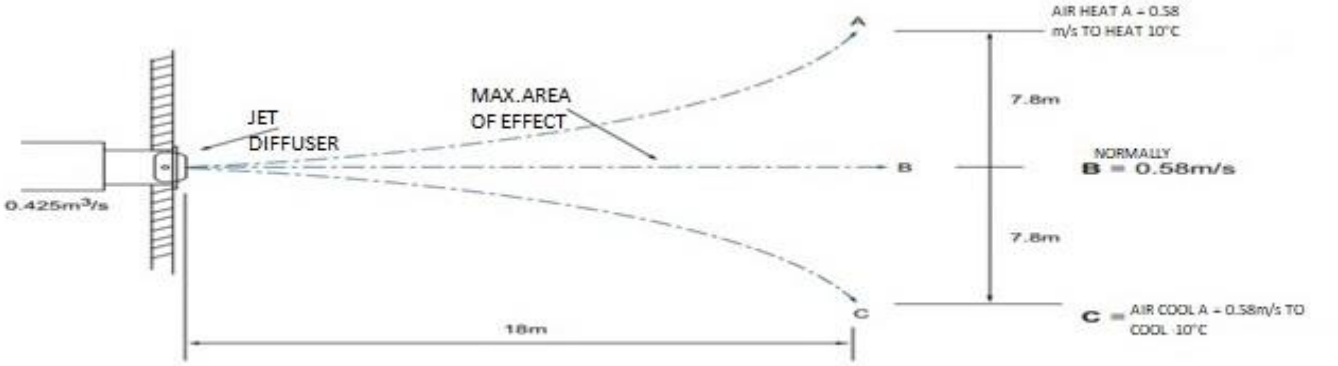


ÖLÇÜ	A Ø	Ø B	Ø C	H1	H2
Ø 150	145	210	100	120	60
Ø 200	195	260	150	120	60
Ø 250	245	310	200	130	60
Ø 300	295	360	250	145	60
Ø 350	345	410	300	175	60
Ø 400	395	460	350	220	60



CENKAY TEKNİK

TECNICAL INFORMATION



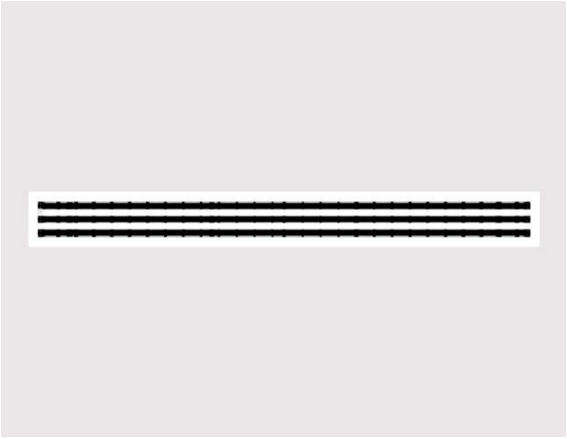
EASY SELECTION TABLE:

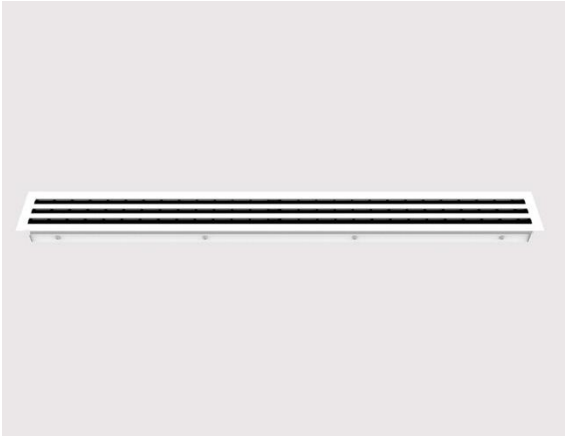
SIZE	AIR SPEED	**2**	**3**	**4**	**5**	**6**	**7**	**8**
Ø 150	AIR FLOW	127	191	254	318	382	446	507
	SOUND LEVEL		13	24	32	38	44	50
	PRESSURE LOSS	8	17	31	47	68	93	121
	SHOOTING DISTANCE	3-4,5	3,5-6	4,7-8	5-8,5	5,5-10	6-11,5	6,5-12,5
Ø 200	AIR FLOW	**230**	**345**	**461**	**576**	**690**	**805**	**921**
	SOUND LEVEL		13	24	32	38	44	50
	PRESSURE LOSS	8	17	31	47	68	93	121
	SHOOTING DISTANCE	3,5-6	4-7,5	5-8,5	5,8-10	6,5-11	6,7-12	7,3-13
Ø 250	AIR FLOW	333	500	666	883	1000	1164	1331
	SOUND LEVEL		15	19	27	34	39	45
	PRESSURE LOSS	6	13	23	35	51	69	90
	SHOOTING DISTANCE	4,5-6,5	5-9,5	6-10,5	6,5-12	7,5-13	8-14,5	8,5-15,5
Ø 300	AIR FLOW	509	763	1017	1272	1526	1780	2035
	SOUND LEVEL			20	28	34	41	45
	PRESSURE LOSS	3	9	15	23	34	46	60
	SHOOTING DISTANCE	5-8,8	6-10,7	7-12,5	7,8-14	9-15,3	9,5-16,7	15-18
Ø 350	AIR FLOW	692	1038	1385	1731	2077	2424	2770
	SOUND LEVEL			18	27	33	39	47
	PRESSURE LOSS	4	8	18	21	30	41	53
	SHOOTING DISTANCE	5,5-10	7-12,2	8-14,5	9-15,9	10-17,5	10,5-19	11,5-20,5
Ø 400	AIR FLOW	904	1357	1809	2261	2713	3165	3617
	SOUND LEVEL			18	27	33	39	44
	PRESSURE LOSS	2	6	10	13	22	30	39
	SHOOTING DISTANCE	6,5-13	8-13,7	8,8-16,1	10,5-18	11,3-19,8	21-24,5	13,122,9

CENKAY TEKNİK

CENKAY TEKNİK

ROLLER SLOT DIFFUSERS -CKD-15





AREA OF USAGE AND FEATURES: It is used as blowing and suction diffusers in hvac systems.It is suitable for horizontal and vertical shooting. The ideal shooting distance is between 2.5-8m. It is used in ceiling and wall applications. It is a standard bridge mounted.The way of mounting can be changed optionally.

MATERIAL: Body and wings are made of aluminium profile manufactured by the extrusion method.

SURFACE COATING: The product can be manufactured in any colour with electrostatic powder paint. The wings are manufactured in standard black colour.
ACCESSORIES: Plenum box

CENKAY TEKNİK

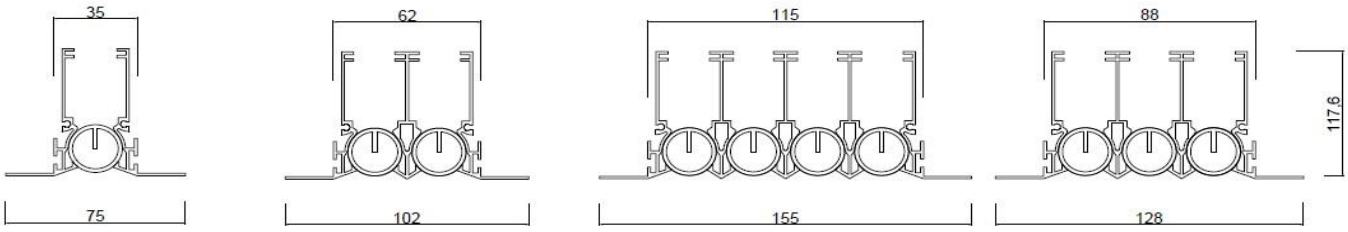
AIR SHOT TYPES

LEFT HORIZONTAL SHOT

RIGHT HORIZONTAL SHOT

VERTICAL SHOOTING

STANDARD DIMENSIONS:

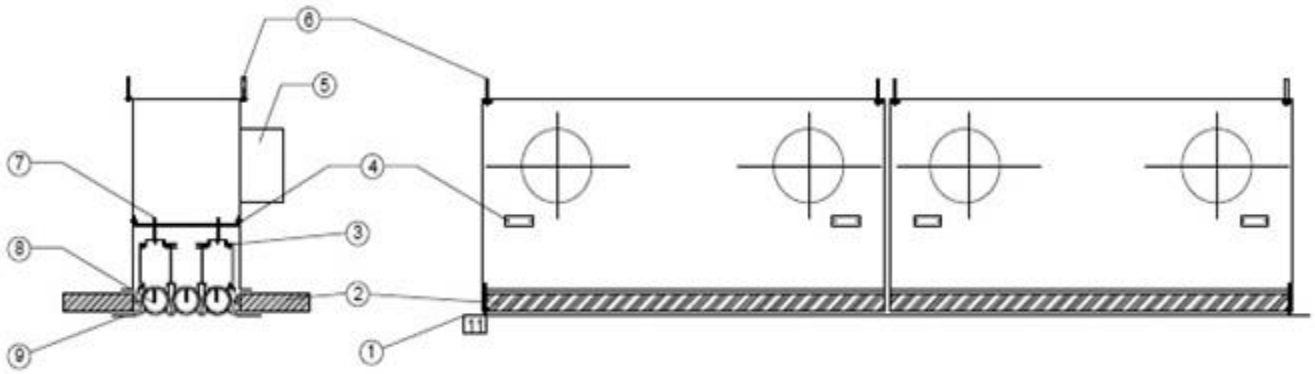


NUMBER OF SLOTS		STANDARD DIMENSIONS –cm.														
1	X	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200
2	X	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200
3	X	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200
4	X	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200

200 cm >The dimensions are manufactured in 2 parts.

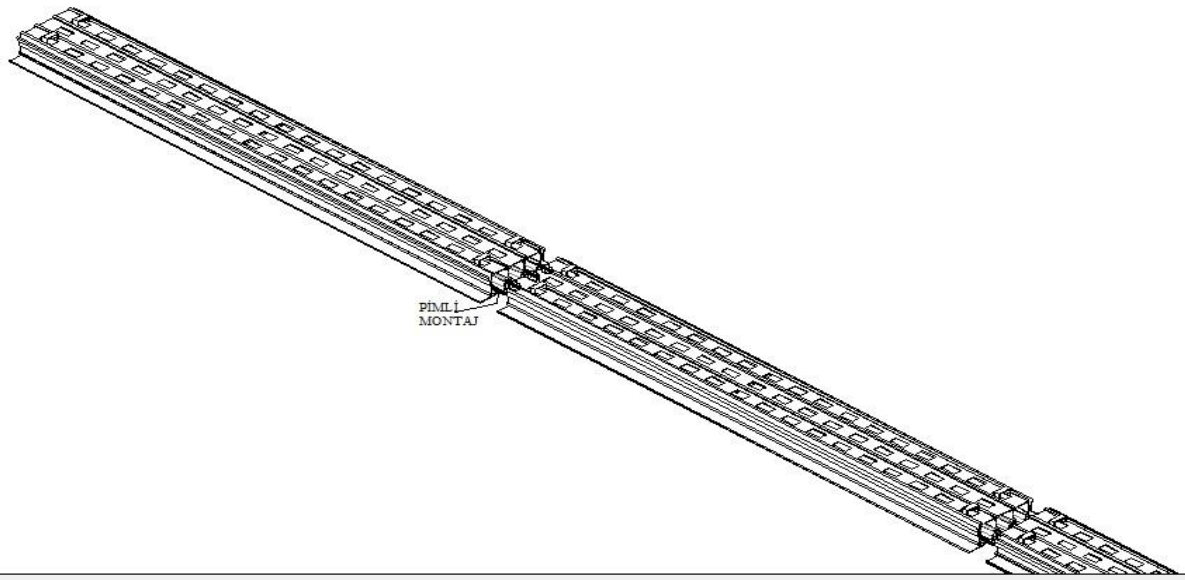
CENKAY TEKNİK

BOX MOUNTING



1	****	SLOT HEAD CORNER
2	****	CEILING CARRIER PROFILE
3	****	SLOT HANGER ELEMENT
4	****	BOX HANGER ELEMENT AND BOLT
5	****	SLEEVE
6	****	BOX CARRIER AND FIXING BOLT
7	****	SLOT BOX MOUNTING BOLT
8	****	SLOT ROLLER
9	****	SLOT DIFFUSER

INSTALLATION



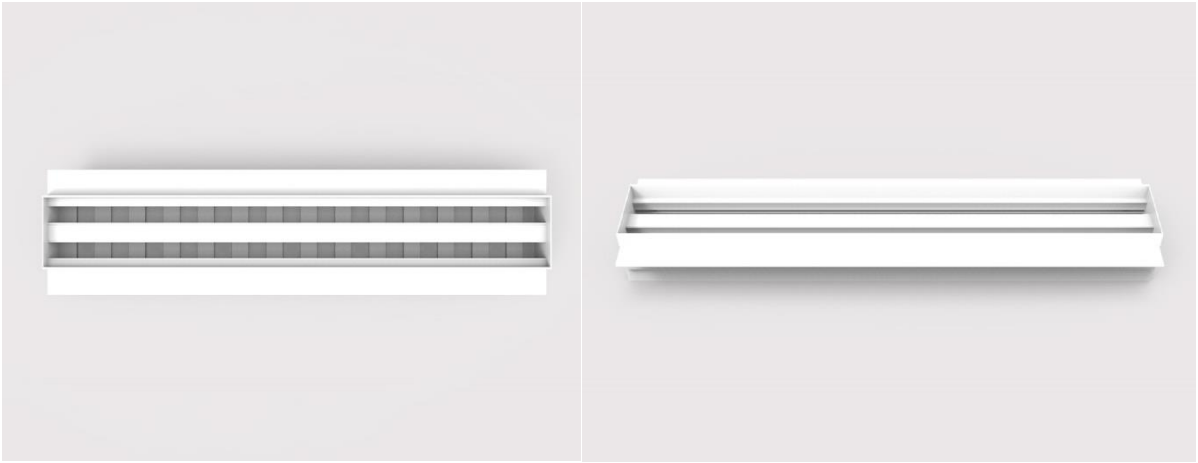
CENKAY TEKNİK

EASY SELECTION TABLE:

NUMBER OF SLOTS	EFFECTIVE AREA m2	V (m³/h)												
1	0,015	V (m³/h)	108	135	162	190	216							
		AIR SPEED m/s	2	2,5	3	3,5	4							
		SHOOTING DISTANCE m	5,4	6,7	8,1	9,3	10,7							
		PRESSURE LOSS Δ P- Pa	11	14	17	20	23							
		SOUND LEVEL Dba	22	28	33	39	44							
2	0,03	V (m³/h)					216	270	324	380	432			
		AIR SPEED m/s					2	2,5	3	3,5	4			
		SHOOTING DISTANCE m					6,5	8	9,5	11	12,5			
		PRESSURE LOSS Δ P- Pa					16	18	24	28	31,5			
		SOUND LEVEL Dba					25	32	38	44	51			
3	0,045	V (m³/h)							324	405	486	570	648	
		AIR SPEED m/s							2	2,5	3	3,5	4	
		SHOOTING DISTANCE m							6,1	7,6	9,1	10,7	12,2	
		PRESSURE LOSS Δ P- Pa							21	26,3	31,5	36,8	42	
		SOUND LEVEL Dba							26,3	33	39,5	46	53	
4	0,06	V (m³/h)									324	540	648	760	864
		AIR SPEED m/s									2	2,5	3	3,5	4
		SHOOTING DISTANCE m									6,3	8	9,5	11	12,6
		PRESSURE LOSS Δ P- Pa									21	26,3	31,6	37	42,1
		SOUND LEVEL Dba									26,3	33	39,5	46	53

CENKAY TEKNİK

SLOT DIFFUSERS–LINEER BAR-CKD-16



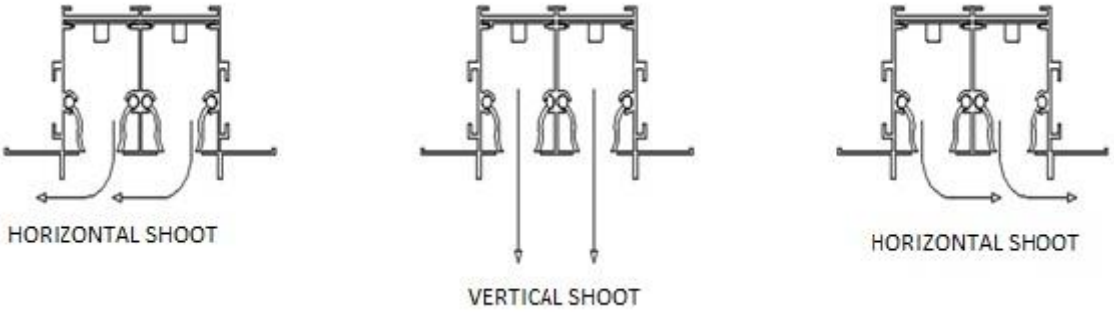
AREA OF USAGE AND FEATURES: It is used as blowing and suction diffusers in hvac systems. It is suitable for horizontal and vertical shots. The ideal shooting distance is between 2.5-8 m. It is used in ceiling and wall applications. It is a standard bridge mounted. The way of mounting can be changed optionally.

MATERIAL: Body and wings are made of aluminium profile manufactured by the extrusion method.

SURFACE COATING: The product can be manufactured in any colour with electrostatic powder paint. The wings are manufactured in standard black colour.

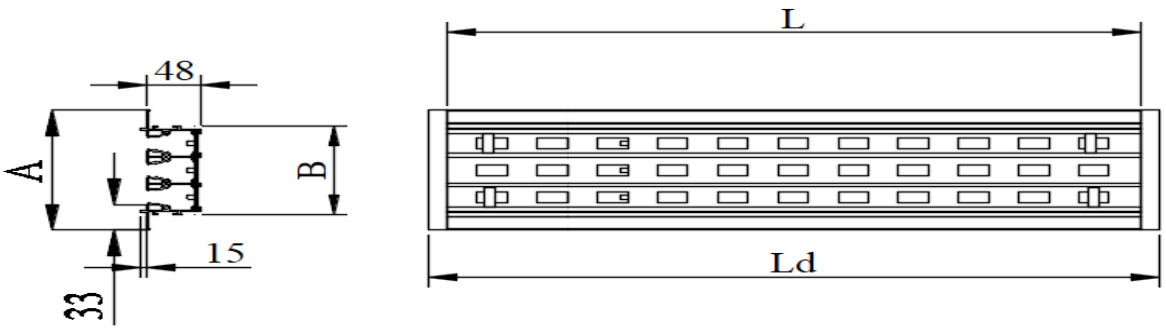
ACCESSORIES: Plenum box

AIR SHOT TYPES:



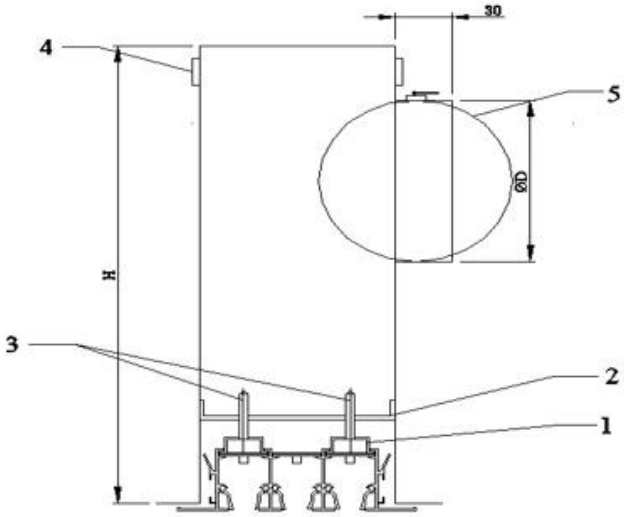
CENKAY TEKNİK

TECHNICAL MEASUREMENT



NUMBER OF SLOTS	1	2
A mm.	81	120
B mm.	45	80

SLOT MOUNTING DETAIL :

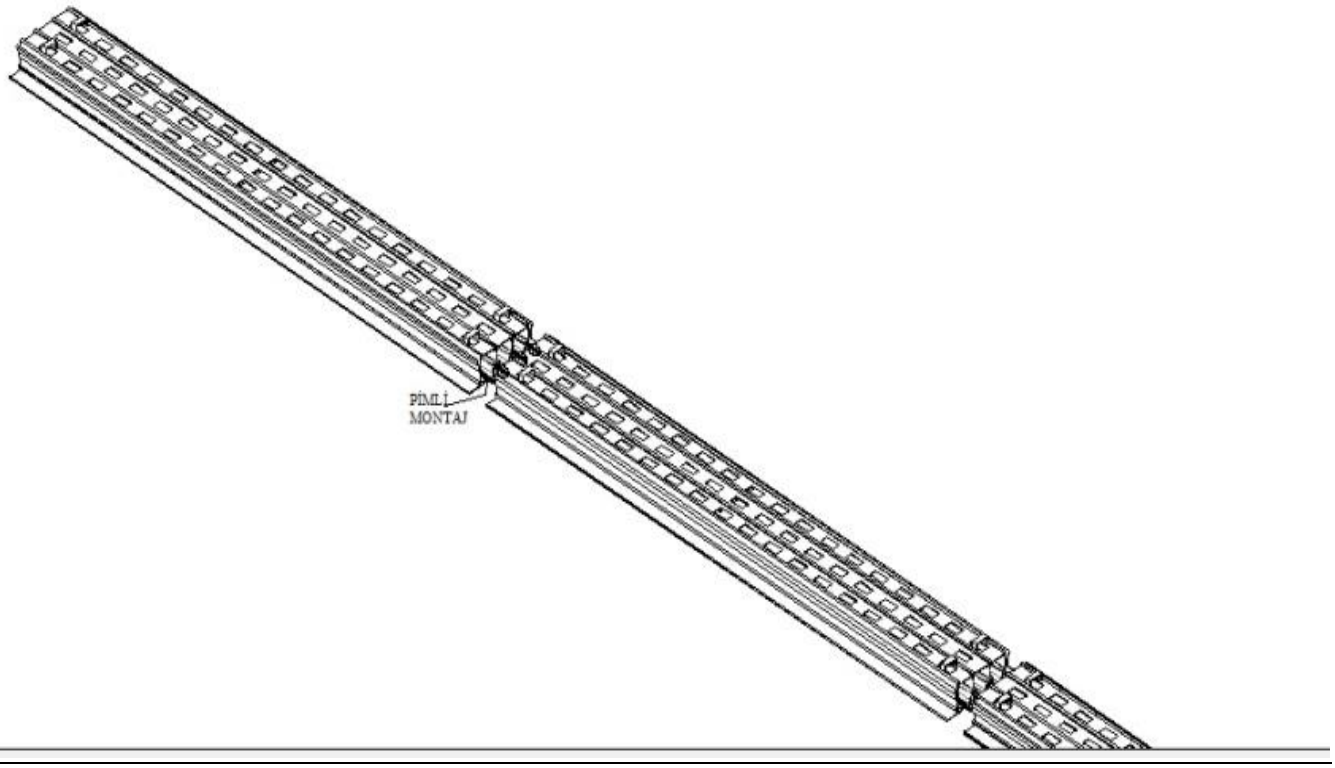


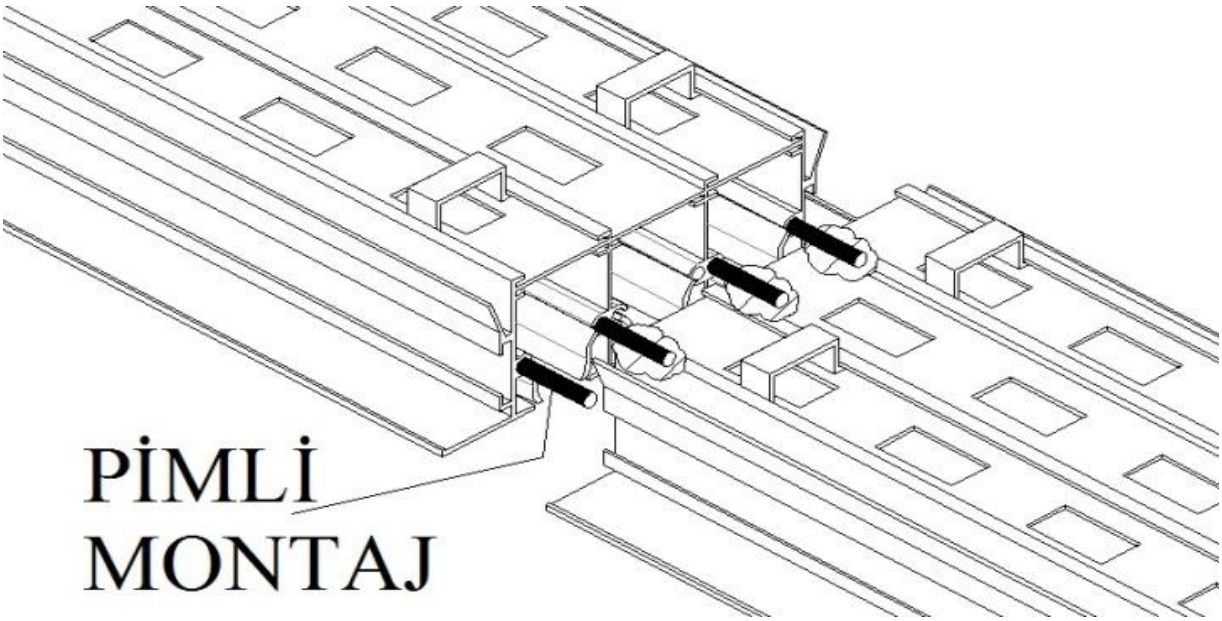
1- Slot Bridge Piece (On Slot)
2- Box Bridge piece (Inside the box)
3- Assembly Screw And Special Nut (M5 * 50)
4- Box Hanger Apparatus
5- Box Perforated Damper (Internal Control)

L (mm)		NUMBER OF SLOTS					
		1	2	3	4	5	6
500 – 1500	ØD (mm)	138	198	218	248	248	248
	h (mm)	218	278	298	328	328	328
1500 – 2000	ØD (mm)	*138 x 2	*198 x 2	*218 x 2	*248 x 2	*248 x 2	*248 x 2
	h (mm)	273	341	400	487	487	487

CENKAY TEKNİK

PIECE SLOT MOUNTING DETAIL :

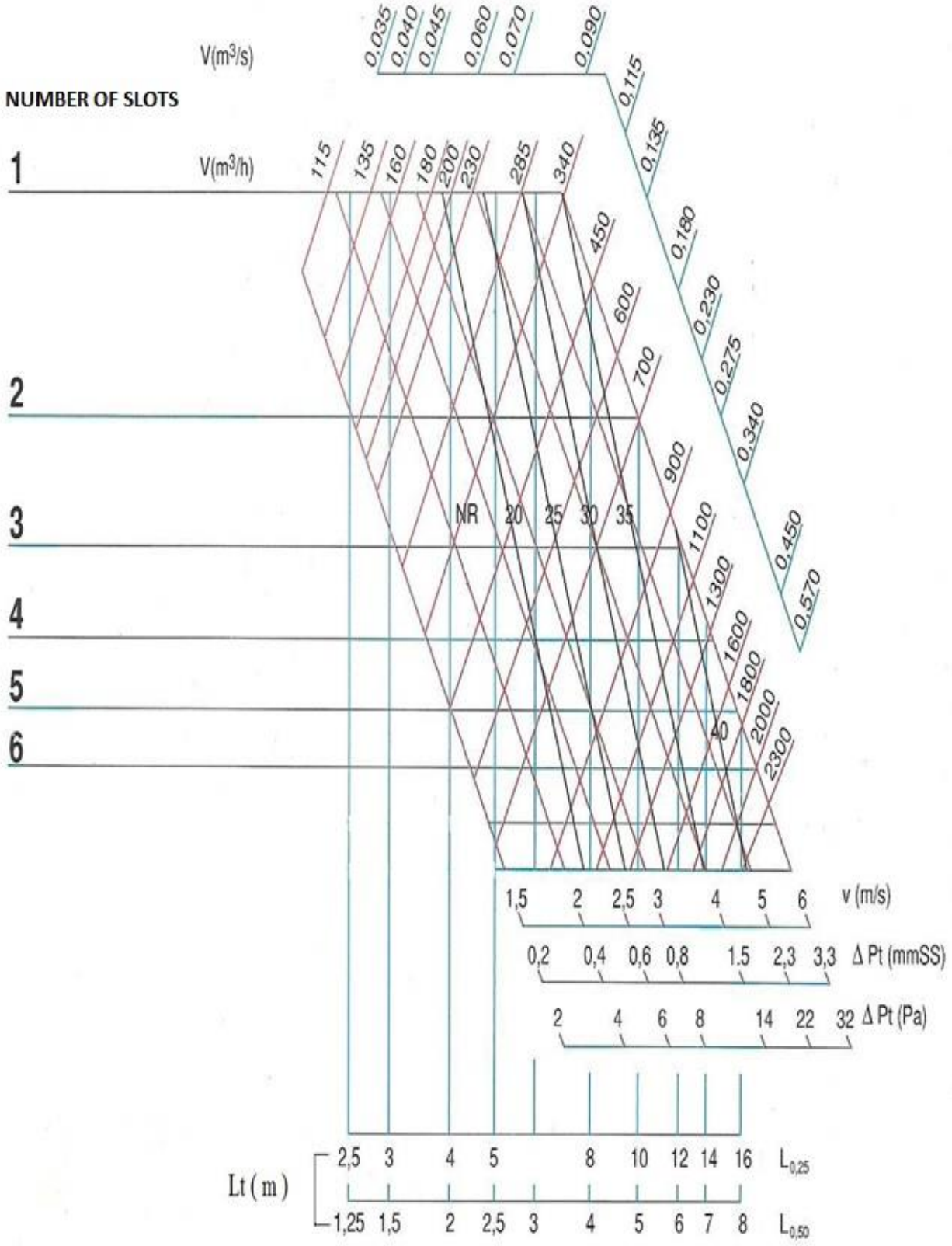




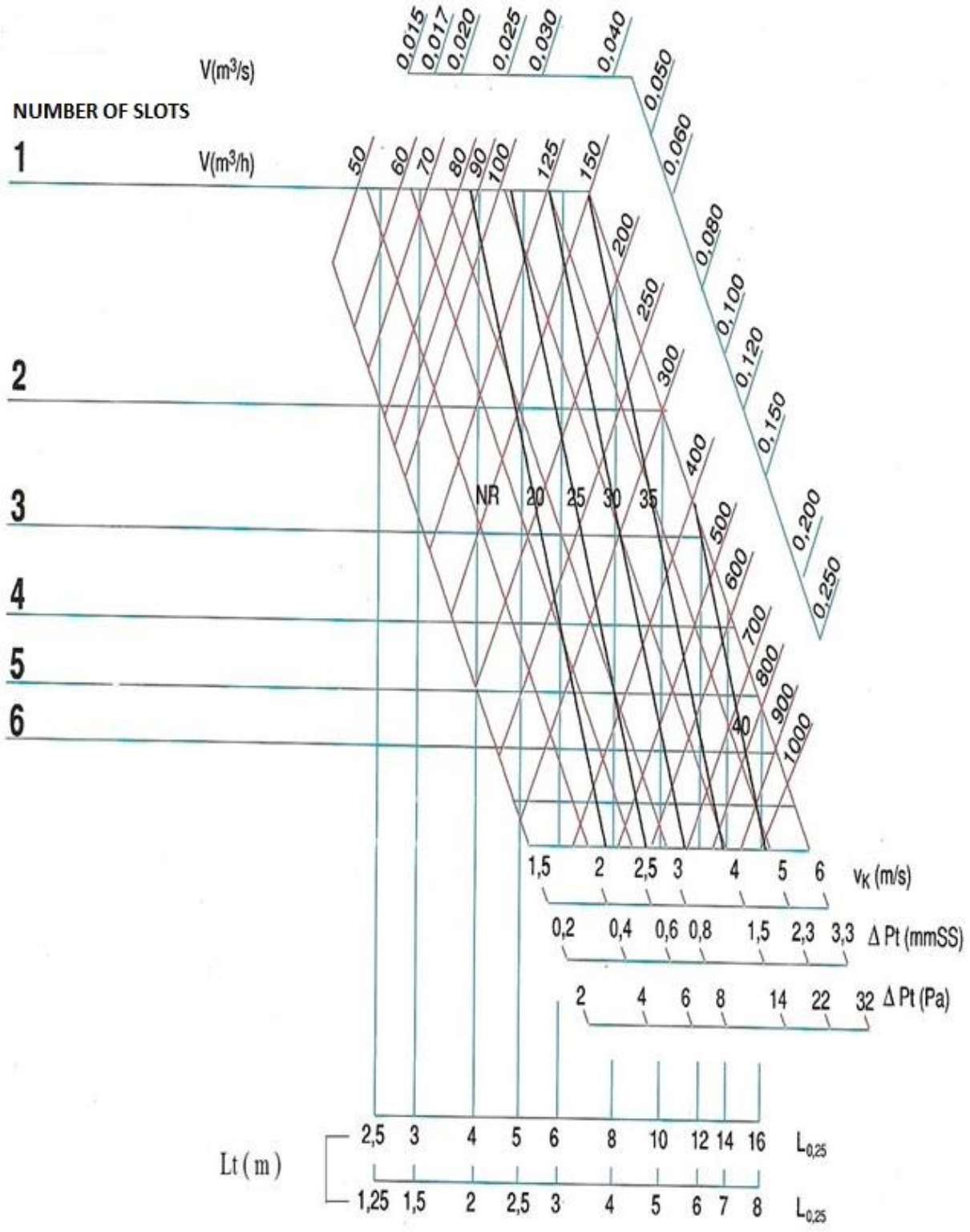
PIN MOUNTING

CENKAY TEKNİK

VERTICAL SHOOT :

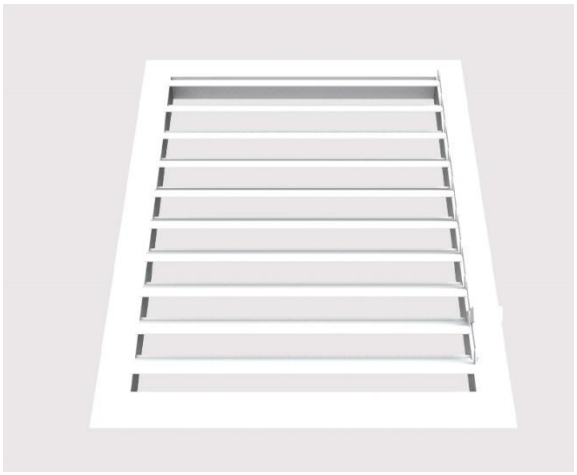


HORIZONTAL SHOOT



CENKAY TEKNİK

ARM-CONTROLLED LOUVER - CKP -01



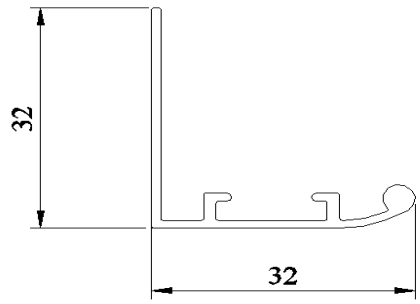
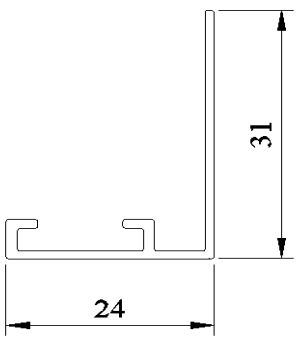
USAGE AREA AND FEATURES: It is used as suction grille in hvac systems. It is used in bathroom and wc applications. The wings can be adjusted from the front surface of the grill. Standard manufacturing is screwed. The way of mounting can be changed optionally.

MATERIAL: Aluminium profile manufactured by the extrusion method

SURFACE COATING: The product can be manufactured in any colour with electrostatic powder paint or without paint.

ACCESSORIES: Mosquito net

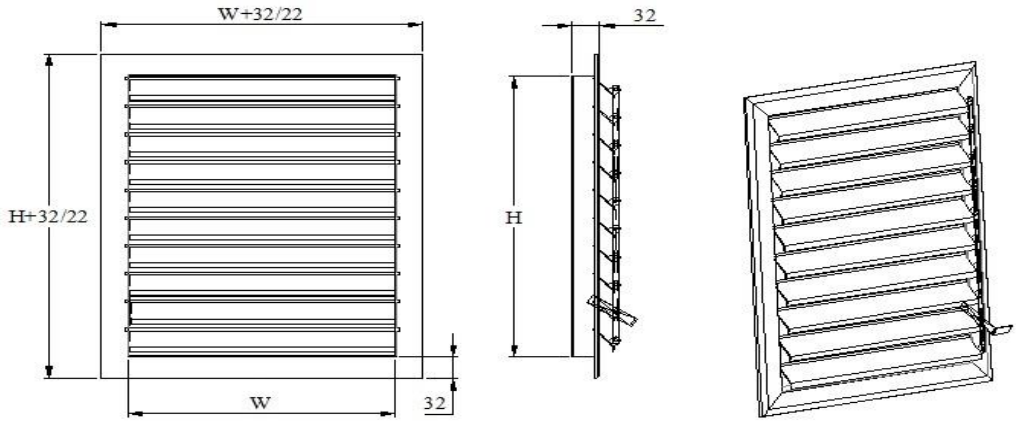
FRAME MODELS

STANDARD FRAME	NARROW FRAME
	

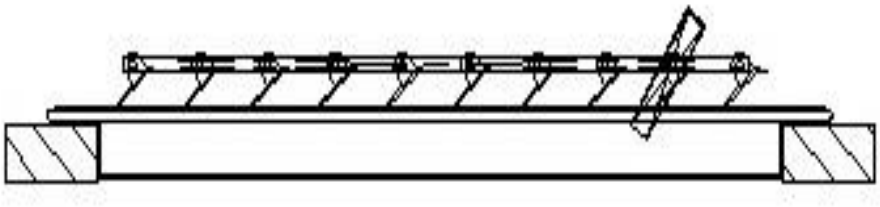
TECHNICAL DIMENSIONS

CENKAY TEKNİK

W	**100-150-200-250-300-350-400-450-500-600-700-800-900-1000-1100-1200**
H	**100-150-200-250-300-350-400-450-500-600-700-800-900-1000**



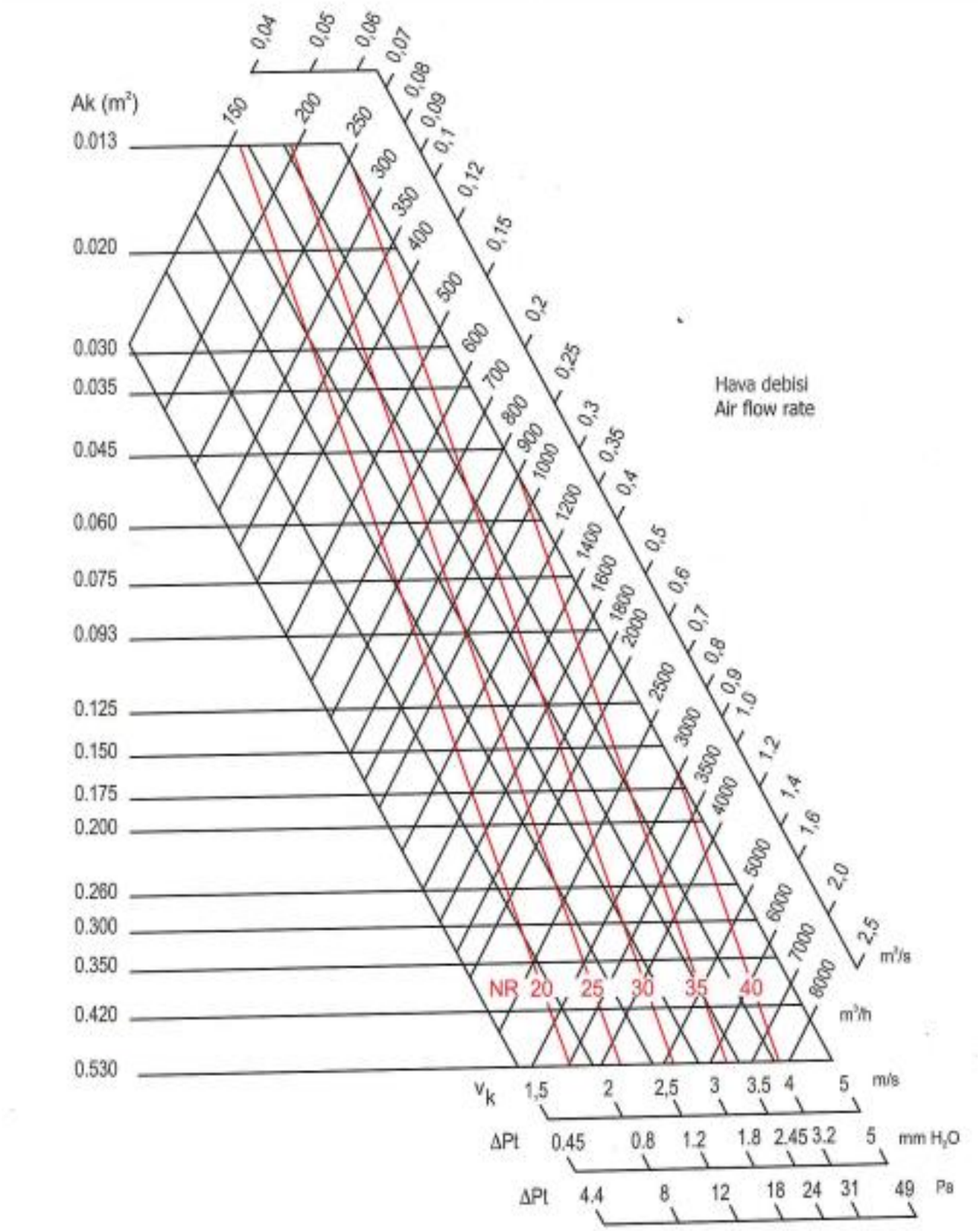
INSTALLATION SHAPES



EFFECTIVE AREA

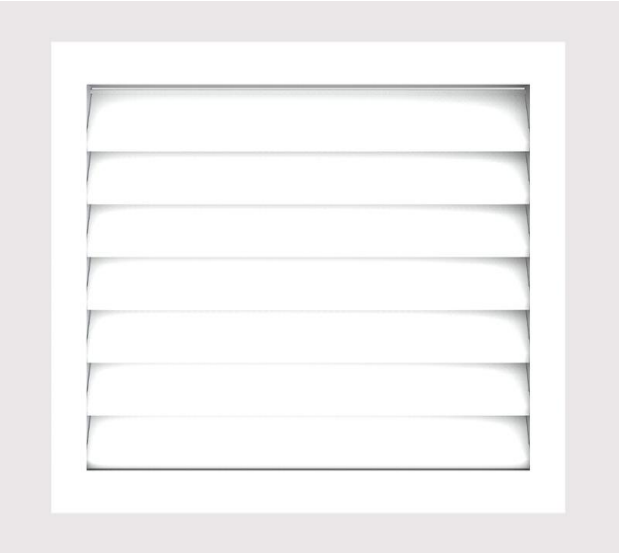
W*H	100	200	300	400	500	600	700	800	900	1000
100	0,007	0,013	0,0195	0,026	0,0325	0,039	0,0455	0,052	0,0585	0,065
200	0,013	0,026	0,039	0,052	0,065	0,078	0,091	0,104	0,117	0,13
300	0,02	0,039	0,0585	0,078	0,0975	0,117	0,1365	0,156	0,1755	0,195
400	0,026	0,052	0,078	0,104	0,13	0,156	0,182	0,208	0,234	0,26
500	0,033	0,065	0,0975	0,13	0,1625	0,195	0,2275	0,26	0,2925	0,325
600	0,039	0,078	0,117	0,156	0,195	0,234	0,273	0,312	0,351	0,39
700	0,046	0,091	0,1365	0,182	0,2275	0,273	0,3185	0,364	0,4095	0,455
800	0,052	0,104	0,156	0,208	0,26	0,312	0,364	0,416	0,468	0,52
900	0,059	0,117	0,1755	0,234	0,2925	0,351	0,4095	0,468	0,5265	0,585
1000	0,065	0,13	0,195	0,26	0,325	0,39	0,455	0,52	0,585	0,65

ELECTION DIAGRAM


Ak (m²)
0.013
0.020
0.030
0.035
0.045
0.060
0.075
0.093
0.125
0.150
0.175
0.200
0.260
0.300
0.350
0.420
0.530
Hava debisi
Air flow rate
NR 20 25 30 35 40
m³/s
m³/h
v_k 1,5 2 2,5 3 3.5 4 5 m/s
ΔPt 0.45 0.8 1.2 1.8 2.45 3.2 5 mm H_2O
ΔPt 4.4 8 12 18 24 31 49 Pa

CENKAY TEKNİK

EXHAUST AIR LOUVERS - CKP -02



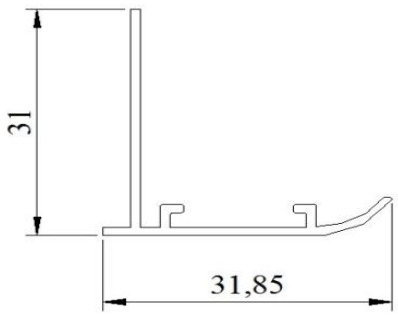
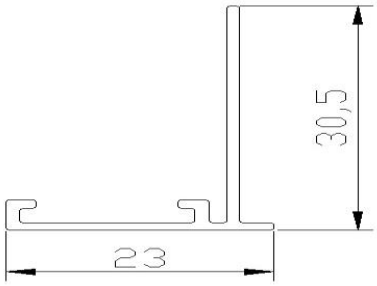
USAGE AREA AND FEATURES: It is used as a suction grille in hvac systems. It is used as exhaust louvres. The wings are manufactured fixed. Standard manufacturing is screwed. The way of mounting can be changed optionally.

MATERIAL: Aluminum profile manufactured by the extrusion method

SURFACE COATING: The product can be manufactured in any colour with electrostatic powder paint or without paint.

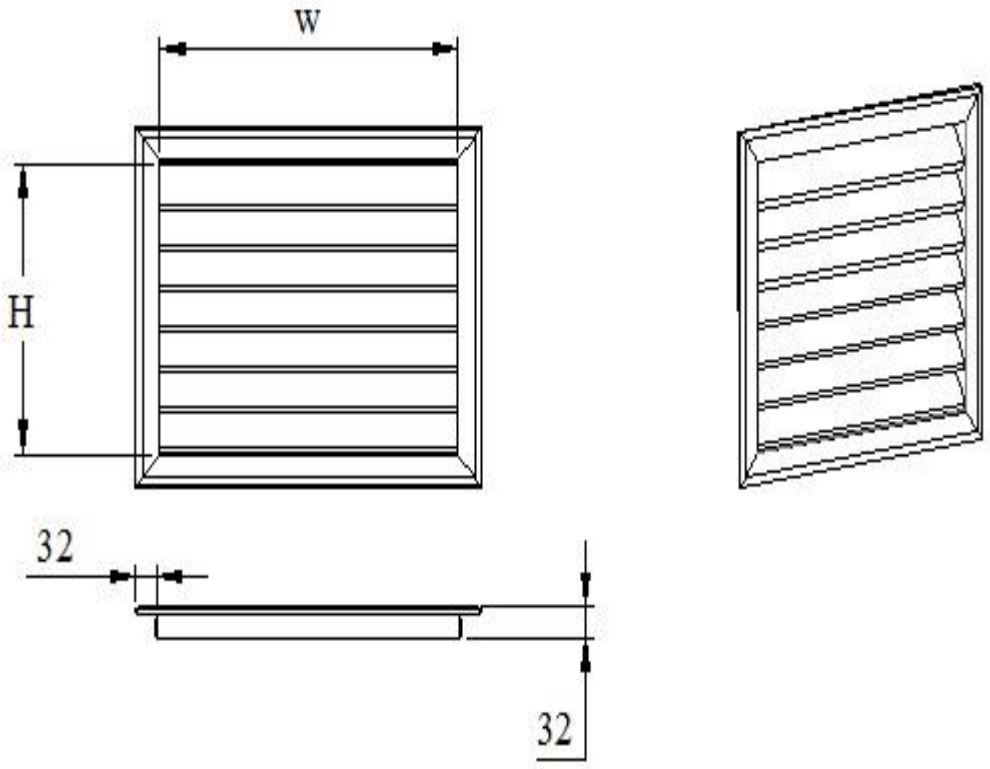
ACCESSORIES: Mosquito net

FRAME MODELS

STANDARD FRAME	NARROW FRAME
	

CENKAY TEKNİK

TECHNICAL MEASUREMENT



W	**100-150-200-250-300-350-400-450-500-600-700-800-900-1000-1100-1200**
H	**100-150-200-250-300-350-400-450-500-600-700-800-900-1000**

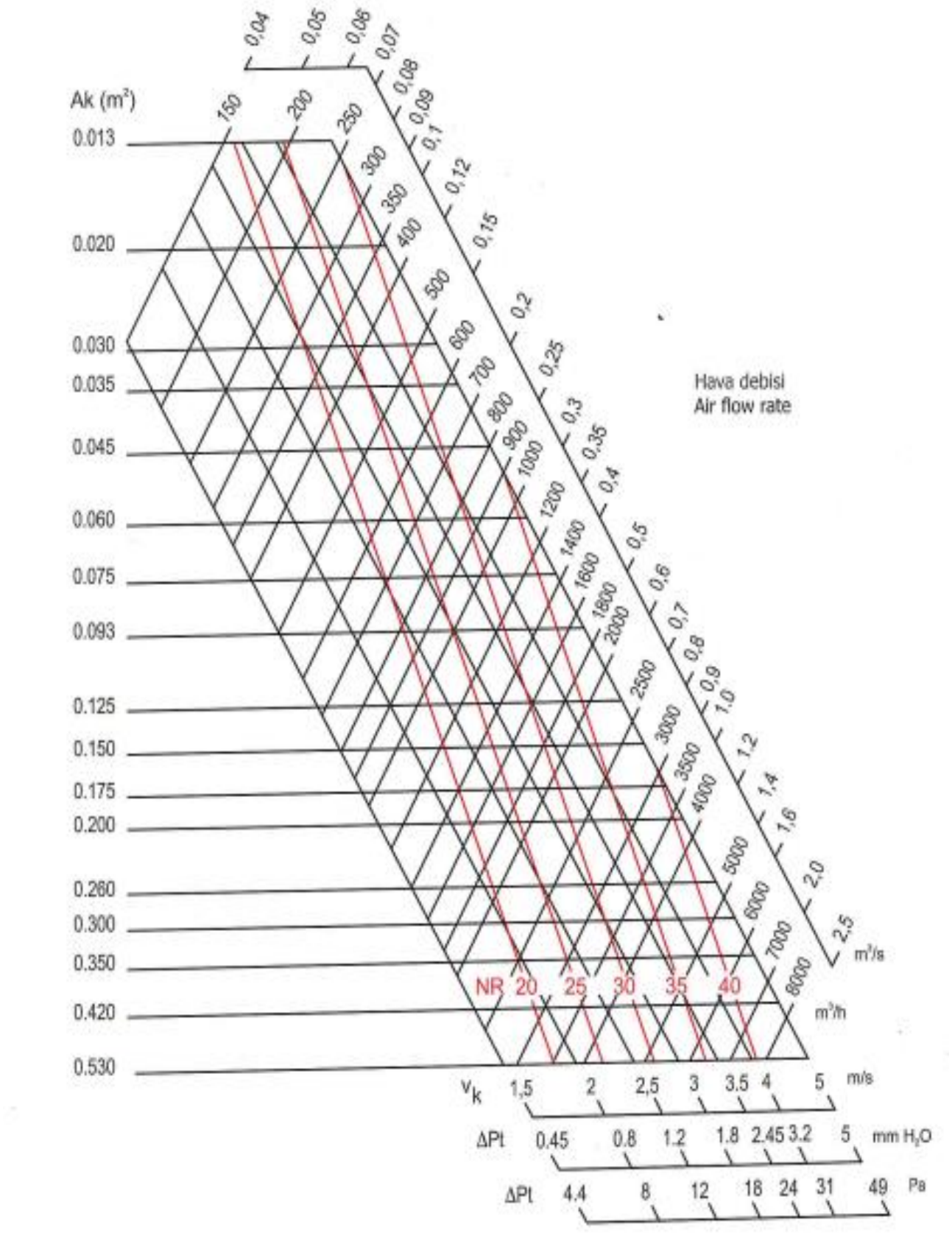
INSTALLATION SHAPES

EFFECTIVE AREA

W*H	100	200	300	400	500	600	700	800	900	1000
100	0,007	0,013	0,0195	0,026	0,0325	0,039	0,0455	0,052	0,0585	0,065
200	0,013	0,026	0,039	0,052	0,065	0,078	0,091	0,104	0,117	0,13
300	0,02	0,039	0,0585	0,078	0,0975	0,117	0,1365	0,156	0,1755	0,195
400	0,026	0,052	0,078	0,104	0,13	0,156	0,182	0,208	0,234	0,26
500	0,033	0,065	0,0975	0,13	0,1625	0,195	0,2275	0,26	0,2925	0,325
600	0,039	0,078	0,117	0,156	0,195	0,234	0,273	0,312	0,351	0,39
700	0,046	0,091	0,1365	0,182	0,2275	0,273	0,3185	0,364	0,4095	0,455
800	0,052	0,104	0,156	0,208	0,26	0,312	0,364	0,416	0,468	0,52
900	0,059	0,117	0,1755	0,234	0,2925	0,351	0,4095	0,468	0,5265	0,585
1000	0,065	0,13	0,195	0,26	0,325	0,39	0,455	0,52	0,585	0,65

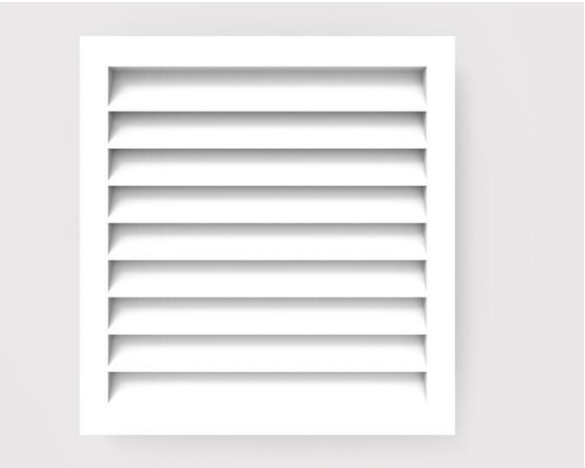
CENKAY TEKNİK

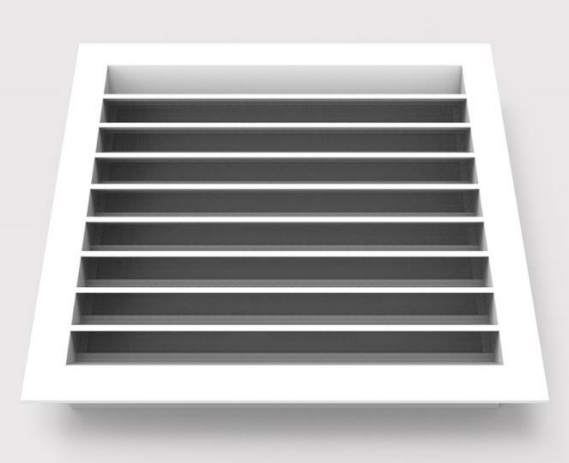
ELECTION DIAGRAM



CENKAY TEKNİK

WEATHERPROOF LOUVERS - CKP -03





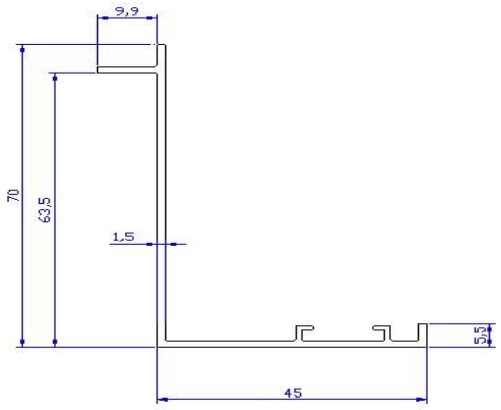
USAGE AREA AND FEATURES: It is used as a suction grille in hvac systems. It is used in the exhaust and clean air applications on the exterior walls of the building. The wings are manufactured fixed. Standard manufacturing is screwed. The way of mounting can be changed optionally.

MATERIAL: Aluminum profile manufactured by the extrusion method

SURFACE COATING: The product can be manufactured in any colour with electrostatic powder paint or without paint.

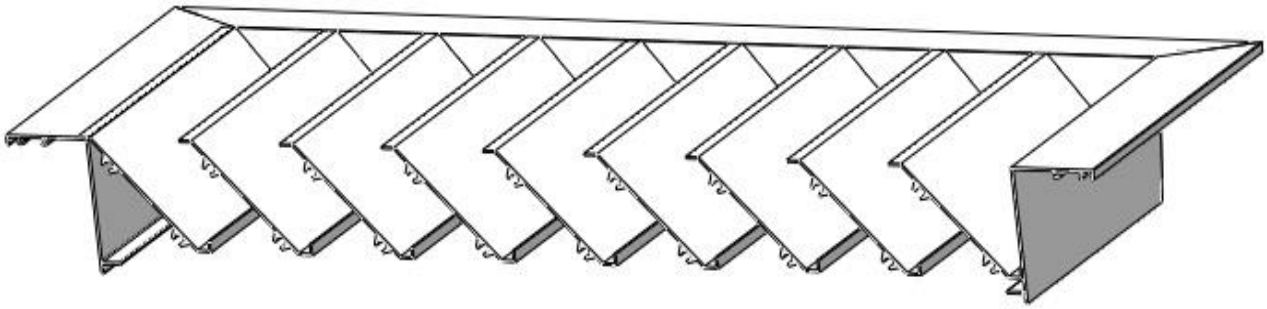
ACCESSORIES: Mosquito net or bird wire

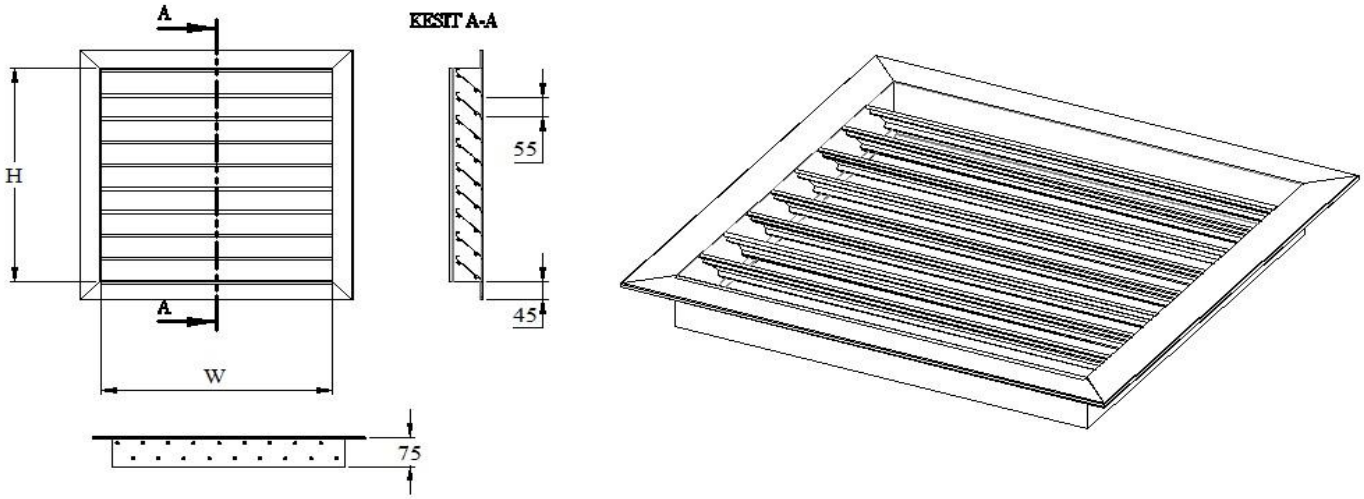
FRAME MODEL



CENKAY TEKNİK

TECHNICAL MEASUREMENT





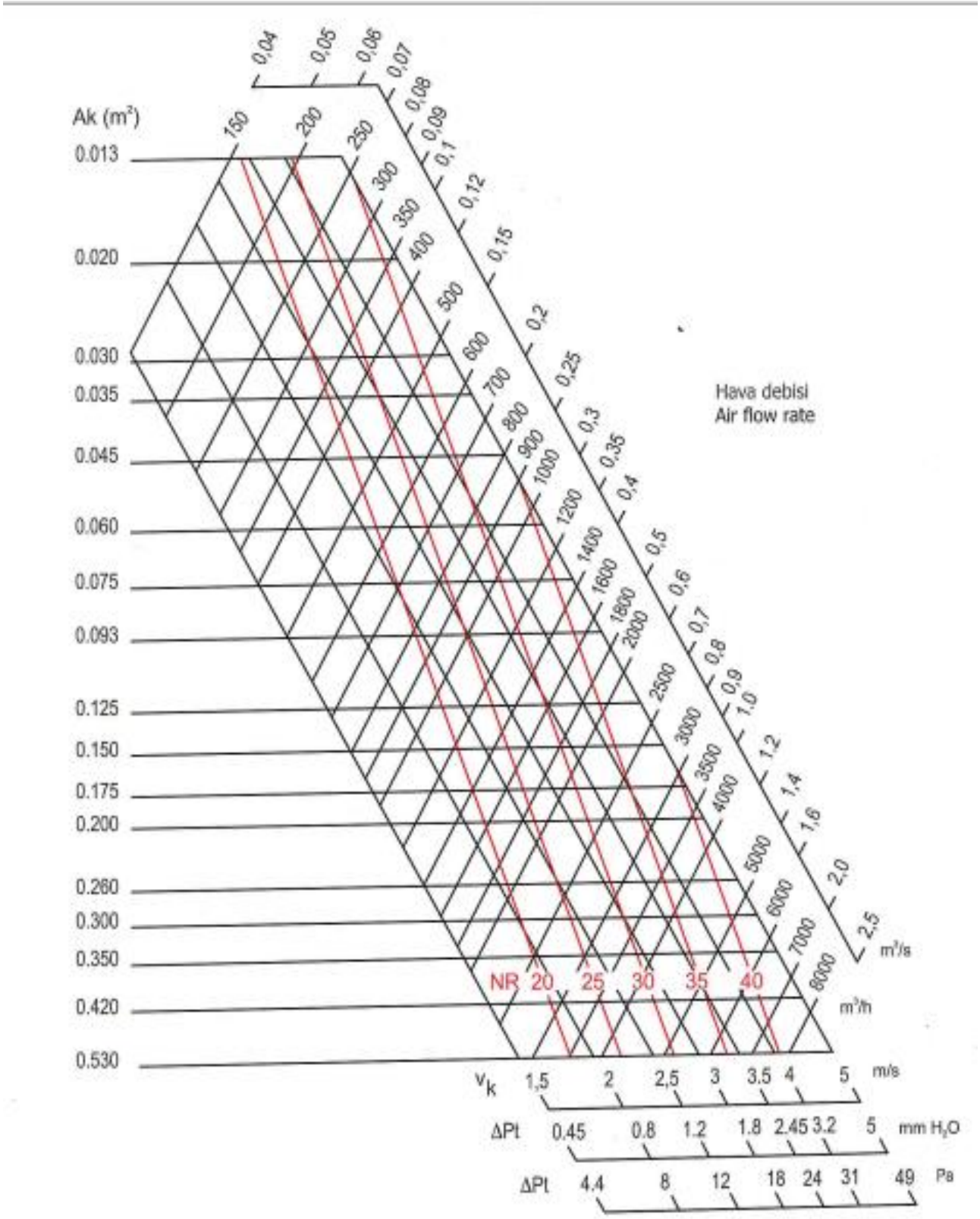
W	**100-150-200-250-300-350-400-450-500-600-700-800-900-1000-1100-1200**
H	**100-150-200-250-300-350-400-450-500-600-700-800-900-1000**

EFFECTIVE AREA

W*H	100	200	300	400	500	600	700	800	900	1000
100	0,007	0,013	0,0195	0,026	0,0325	0,039	0,0455	0,052	0,0585	0,065
200	0,013	0,026	0,039	0,052	0,065	0,078	0,091	0,104	0,117	0,13
300	0,02	0,039	0,0585	0,078	0,0975	0,117	0,1365	0,156	0,1755	0,195
400	0,026	0,052	0,078	0,104	0,13	0,156	0,182	0,208	0,234	0,26
500	0,033	0,065	0,0975	0,13	0,1625	0,195	0,2275	0,26	0,2925	0,325
600	0,039	0,078	0,117	0,156	0,195	0,234	0,273	0,312	0,351	0,39
700	0,046	0,091	0,1365	0,182	0,2275	0,273	0,3185	0,364	0,4095	0,455
800	0,052	0,104	0,156	0,208	0,26	0,312	0,364	0,416	0,468	0,52
900	0,059	0,117	0,1755	0,234	0,2925	0,351	0,4095	0,468	0,5265	0,585
1000	0,065	0,13	0,195	0,26	0,325	0,39	0,455	0,52	0,585	0,65

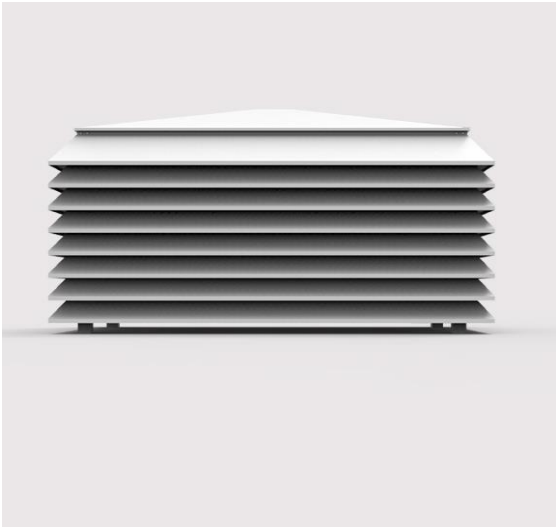
CENKAY TEKNİK

ELECTION DIAGRAM



CENKAY TEKNİK

TOWER EXHAUST LOUVERS- CKP -04



USAGE AREA AND FEATURES: It is used as a suction grille in hvac systems. It is used for exhaust and clean air in building shafts and dryers. The wings are manufactured fixed. Standard manufacturing is screwed. The way of mounting can be changed optionally.

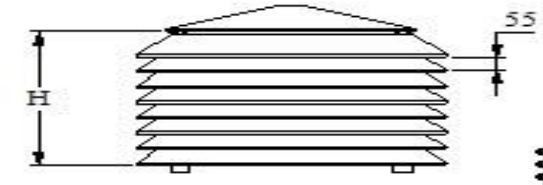
MATERIAL: Extruded aluminium profile and carcass support profiles-ceiling covering aluminium plate

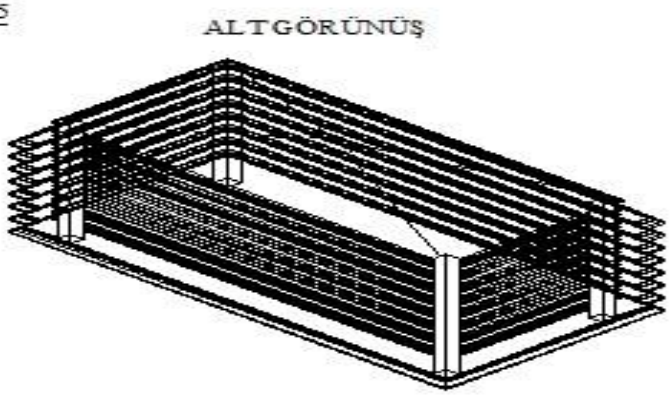
SURFACE COATING: The product can be manufactured in any colour with electrostatic powder paint or without paint.

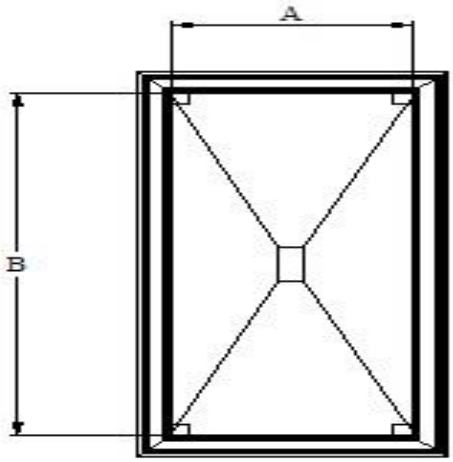
ACCESSORIES: Mosquito net or bird wire

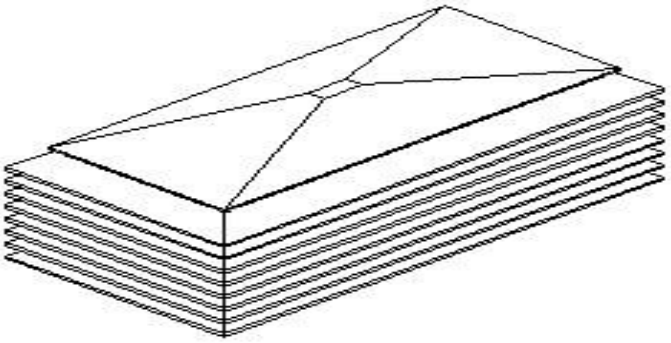
CENKAY TEKNİK

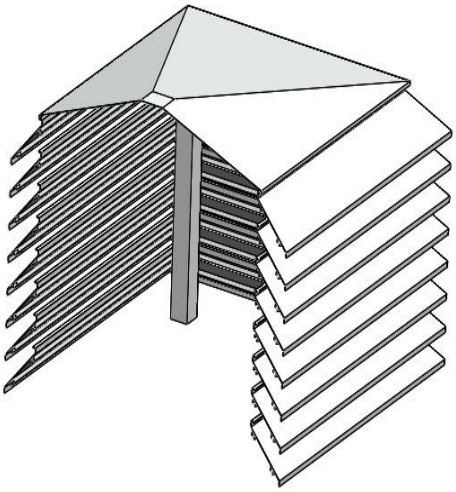
TECHNICAL MEASUREMENT

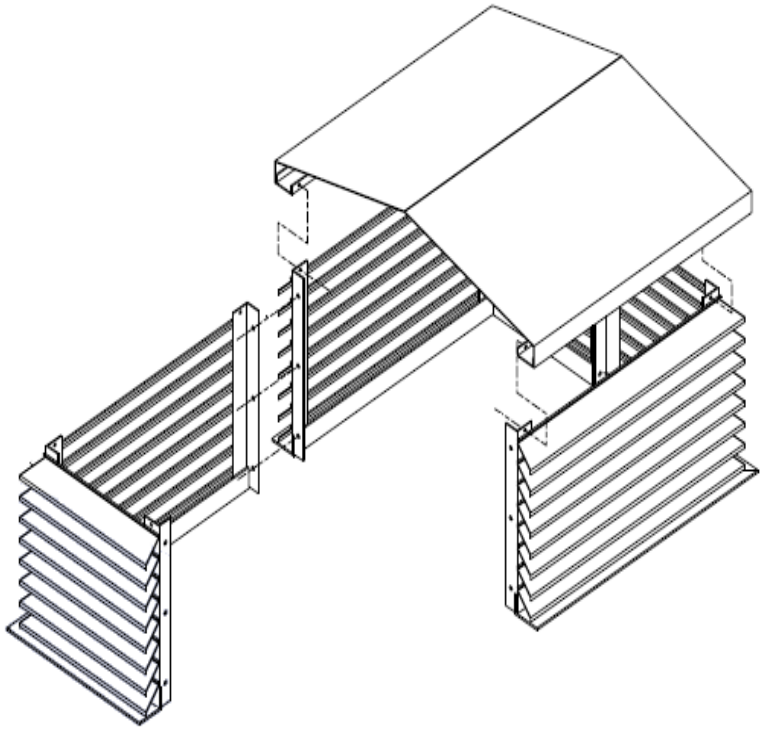












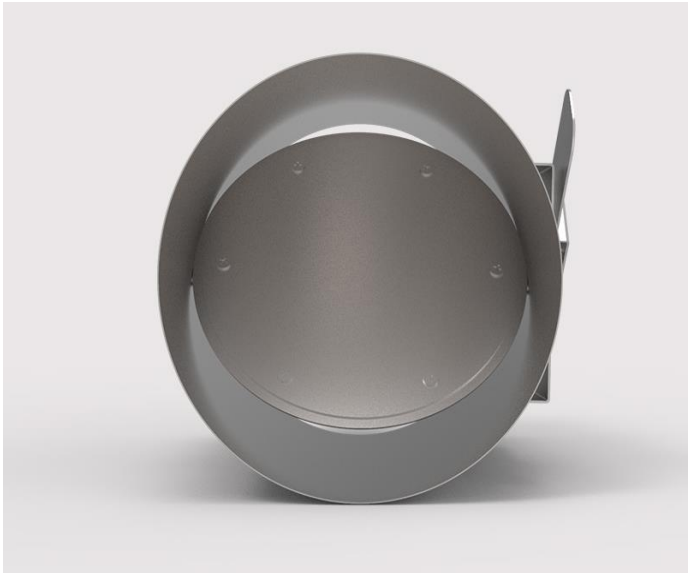
CENKAY TEKNİK

SELECTION TABLE

EFFECTIVE AREA (m^2)															
DIMENSION Ax B (mm)	HEIGHT (mm)														
	300	400	450	500	600	700	750	800	900	1000	1100	1200	1300	1400	1500
300x300	0,4	0,5													
400x400	0,5	0,6													
500x500	0,6	0,8	0,9	1	1,2										
600x300	0,5	0,7	0,8	0,9	1,1										
600x450	0,6	0,8	1	1,1	1,3										
600x600	0,7	1	1,1	1,2	1,4										
700x400	0,7	0,9	1	1,1	1,3										
700x500	0,7	1	1,1	1,2	1,4										
700x700	0,8	1,1	1,3	1,4	1,7	2									
750x750		1,2	1,4	1,5	1,8	2,1	2,3								
800x400		1	1,1	1,2	1,4	-	-								
800x600		1,1	1,3	1,4	1,7	2	-								
800x800		1,3	1,4	1,6	1,9	2,2	2,4	2,6							
900x450			1,2	1,4	1,6	-	-	-							
900x600			1,4	1,5	1,8	2,1	2,3	-							
900x900			1,6	1,8	2,2	2,5	2,7	2,9	3,2						
1000x500			1,4	1,5	1,8	2,1	2,3	-	-						
1000x750				1,8	2,1	2,5	2,6	2,8	3,2	4					
1000x1000				2	2,4	2,8	3	3,2	3,6	4					
1100x1100				2,2	2,6	3,1	3,3	3,5	4	4	4,8				
1200x600				1,8	2,2	2,5	2,7	2,9	3,2	-	-				
1200x900				2,1	2,5	2,9	3,2	3,4	3,8	-	-				
1200x1200				2,4	2,9	3,4	3,6	3,8	4,3	5	5,3	5,8			
1500x750				2,3	2,7	3,2	3,4	3,6	4,1	5	-	-			
1500x1000				2,5	3	3,5	3,8	4	4,5	5	5,5	6			
1500x1250				2,8	3,3	3,9	4,1	4,4	5	6	6,1	6,6			
1500x1500				3	3,6	4,2	4,5	4,8	5,4	6	6,6	7,2	7,8	8,4	9
1800x900				2,7	3,2	3,8	4,1	4,3	4,9	5	5,9	6,5	-	-	-
1800x1200				3	3,6	4,2	4,5	4,8	5,4	6	6,6	7,2	_	_	_
1800x1800					4,3	5	5,4	5,8	6,5	7	7,9	8,6	9,4	10,1	11
2000x1000					3,6	4,2	4,5	4,8	5,4	6	6,6	7,2	7,8	8,4	9
2000x1500							5,3	5,6	6,3	7	7,7	8,4	9,1	9,8	11
2000x2000							6	6,4	7,2	8	8,8	9,6	10	11,2	12

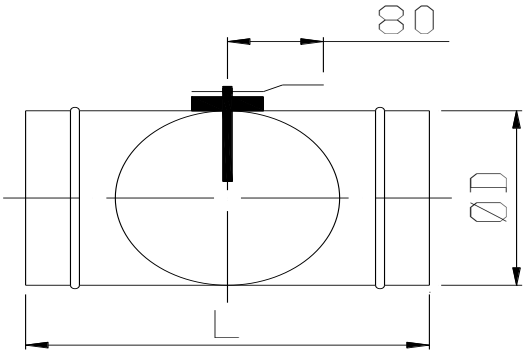
CENKAY TEKNİK

VOLUME DAMPERS - CKH -01A



AREAS OF USE AND FEATURES: It is used to control the amount of air sucked or blown-in hvac systems and the pressure balance in the ducts. Wing angles are easy to adjust. If desired, it can be locked. Optionally, the engine can be installed, and the desired flow rates can be provided automatically.
MATERIAL: Aluminum profile manufactured by the extrusion method
SURFACE COATING: The product can be manufactured without anodized coating or paint.
ACCESSORIES: Motor

CKH-01A CIRCULAR AIR DAMPER



CENKAY TEKNİK

CKH-01A STANDARD DIMENSIONS											
SIZE (mm)	**100**	**110**	**120**	**130**	**140**	**150**	**160**	**180**	**200**	**225**	**250**
∅D (mm)	102	112	120	127	140	152	160	180	203	229	254
L (mm)	150	160	170	180	190	200	210	230	250	275	300

SELECTION DIAGRAMS

CKH-01A PRESSURE AND SOUND LOSSES FOR TYPE												
AIR VELOCITIES				**0,5**	**1**	**2**	**3**	**4**	**6**	**8**	**10**	**20**
WING ANGLES	**0º**	**Static Pressure**	**Pa**	-	-	-	2,72	8	9,25	9,75	26,72	78,42
			mmSS	-	-	-	0,29	0,8	0,93	0,99	2,72	7,99
		Sound Value	**dBA**	-	-	13	20	27	40	48	55	74
	15º	**Static Pressure**	**Pa**	-	-	1,46	3,59	5,64	9,05	22,39	40,47	208,44
			mmSS	-	-	0,15	0,37	0,57	0,92	2,28	4,13	21,25
		Sound Value	**dBA**	-	-	16	23	31	42	51	57	81
	30º	**Static Pressure**	**Pa**	-	0,53	4,25	6,96	9,62	25,21	42,24	80,08	599,18
			mmSS	-	0,05	0,43	0,71	0,98	2,57	4,31	8,16	61,08
		Sound Value	**dBA**	-	7	22	30	39	49	56	66	88
	45º	**Static Pressure**	**Pa**	0,58	4,06	9	20,3	33,7	52,68	114,18	418,84	2846,2
			mmSS	0,06	0,41	0,92	2,07	3,44	5,37	11,64	42,7	290,13
		Sound Value	**dBA**	-	16	30	40	50	56	65	79	-
	60º	**Static Pressure**	**Pa**	6,53	17,5	44,34	77,92	196,65	485,6	1438,4	3567,8	-
			mmSS	0,67	1,78	4,52	7,94	20,05	-	146,63	-	-
		Sound Value	**Dba**	18	33	50	56	63	77	91	-	-
	75º	**Static Pressure**	**Pa**	59,08	283,93	1221,6	2976	4839,1	-	-	-	-
			mmSS	6,02	28,94	124,53	303,36	493,28	-	-	-	-
		Sound Value	**dBA**	53	65	89	-	-	-	-	-	-

CENKAY TEKNİK

VOLUME DAMPER - CKH -01

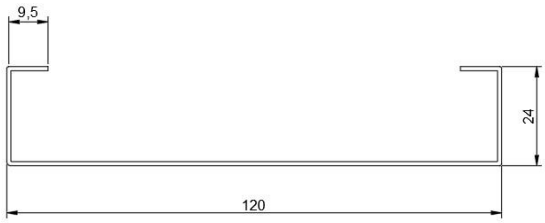
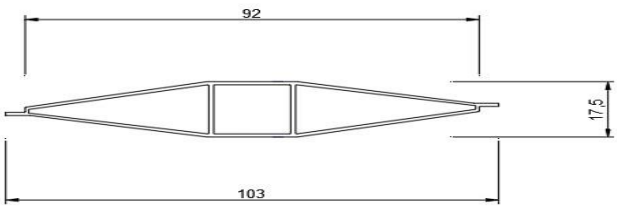
AREAS OF USE AND FEATURES: It is used to control the amount of air sucked or blown-in HVAC systems and the pressure balance in the ducts. Wing angles are easy to adjust. If desired, it can be locked. Optionally, the engine can be installed, and the desired flow rates can be provided automatically.

MATERIAL: Aluminum profile manufactured by the extrusion method

SURFACE COATING: The product can be manufactured without anodized coating or paint.

ACCESSORIES: Motor

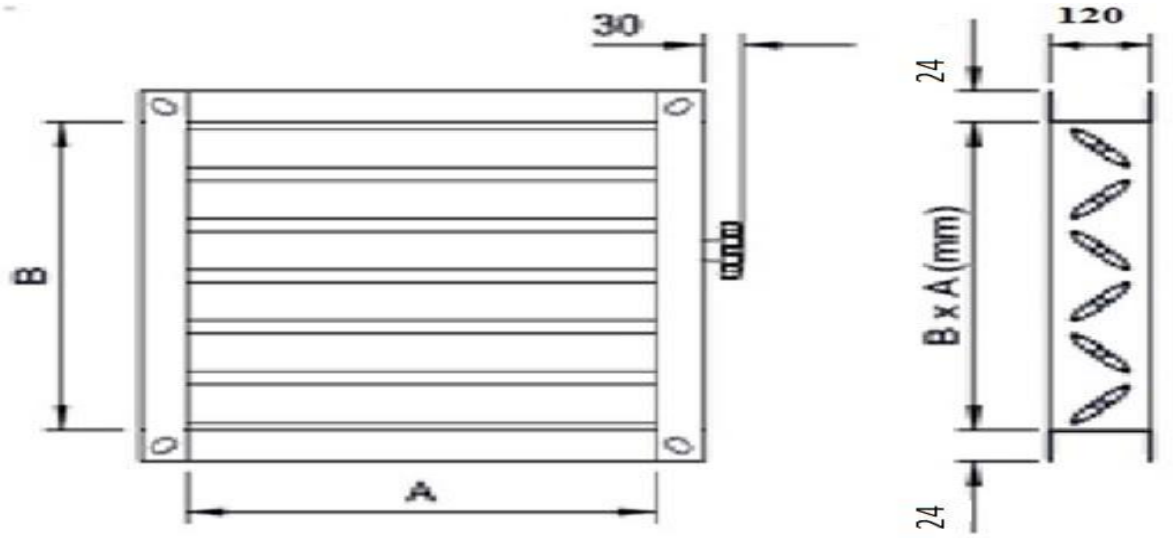
FRAME AND WING MODELS

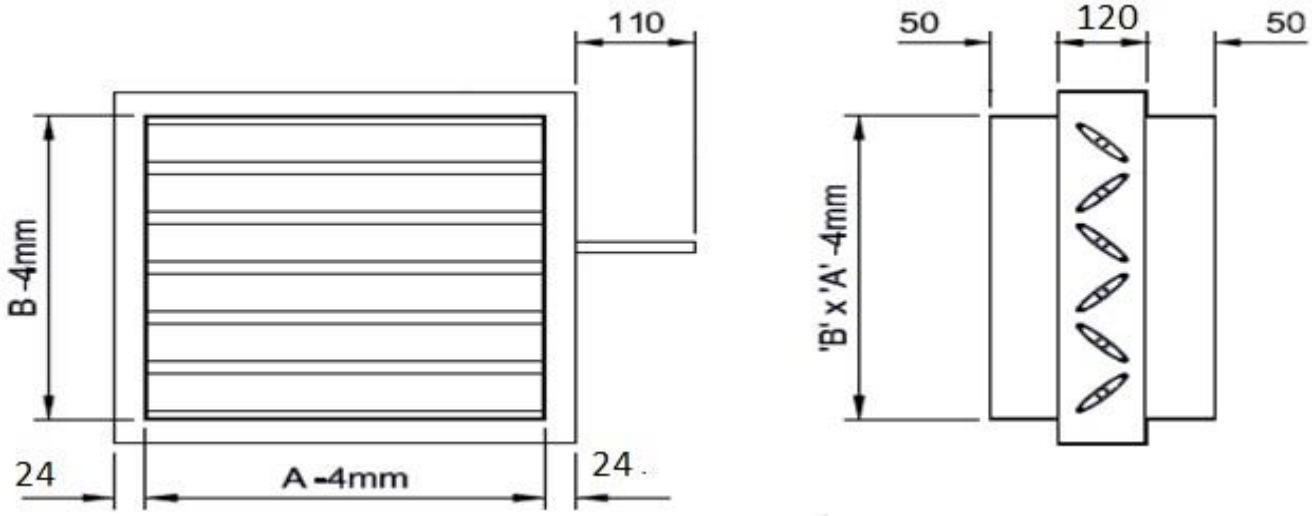
STANDARD FRAME	WING PROFILE
	

TECHNICAL MEASUREMENT

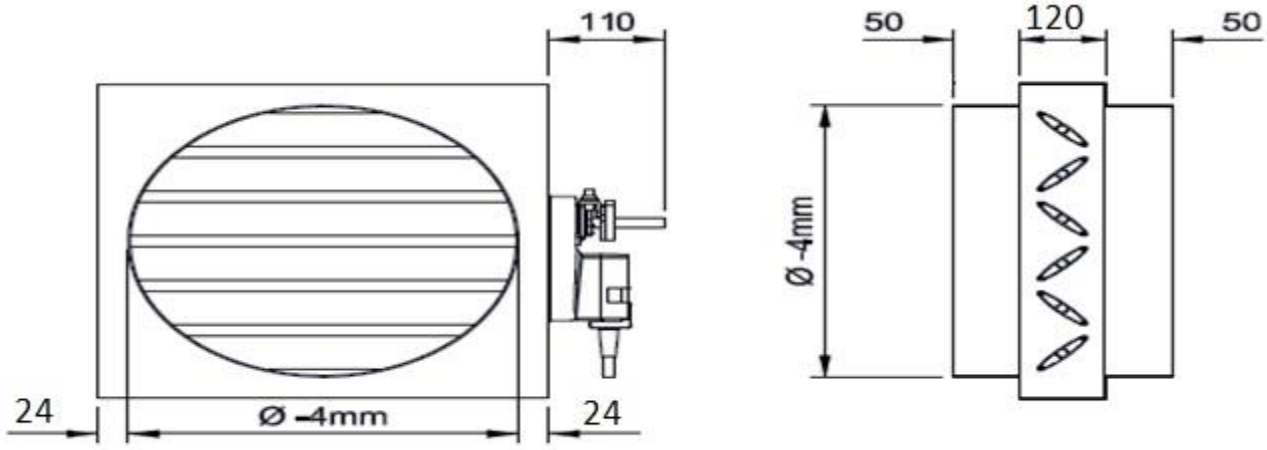
W	**100-150-200-250-300-350-400-450-500-600-700-800-900-1000-1100-1200**
H	**100-150-200-250-300-350-400-450-500-600-700-800-900-1000**

CENKAY TEKNİK





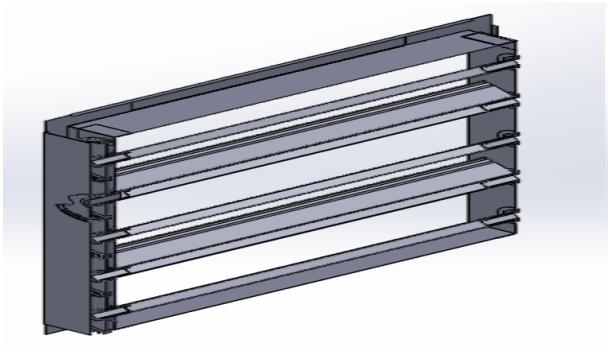
CKH-01 **CKH-01M**

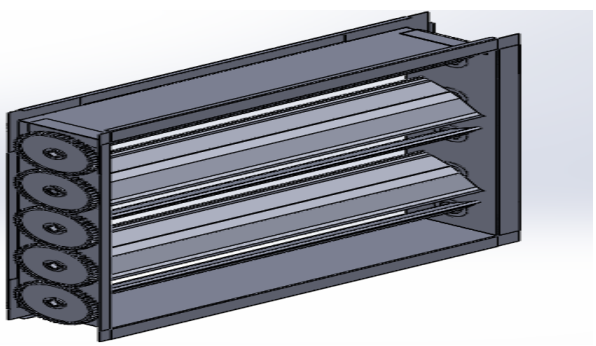


CENKAY TEKNİK

CKH-01MB

DAMPER SECTION VIEW





SELECTION DIAGRAMS

CKH-01 PRESSURE AND SOUND LOSSES FOR TYPE											
AIR VELOCITIES				0,5	1	2	3	4	6	8	10	20
WING ANGLES	0º	Static Pressure	Pa	-	1	4,5	7,16	7,5	24,77	42,39	78,89	648,3
			mmSS	-	0,1	0,46	0,72	0,76	2,52	4,32	8,04	66,09
		Sound Value	dBA	-	16	30	40	46	53	59	70	90
	15º	Static Pressure	Pa	0,5	3,98	8,54	17,46	31,23	47,86	93,14	363,78	1580,9
			mmSS	0,05	0,41	0,87	1,78	3,18	4,88	9,49	37,08	161,15
		Sound Value	dBA	10	22	38	46	53	58	70	81	-
	30º	Static Pressure	Pa	4,49	9,05	31,12	45,45	76,61	237,97	575,85	1713,4	5384,7
			mmSS	0,46	0,92	3,17	4,63	7,81	24,26	58,7	174,66	548,9
		Sound Value	dBA	20	32	49	55	60	71	83	95	-
	45º	Static Pressure	Pa	9,78	24,36	79,98	239,24	474,35	1314,1	3384,8	5887,3	-
			mmSS	1	2,48	8,15	24,39	48,35	133,96	345,04	600,13	-
		Sound Value	dBA	31	47	58	68	78	89	-	-	-
	60º	Static Pressure	Pa	49,98	276,12	952,23	2503,1	-	-	-	-	-
			mmSS	5,09	28,15	97,07	255,16	-	-	-	-	-
		Sound Value	dBA	52	62	84	95	-	-	-	-	-
	75º	Statik Basınç	Pa	362,67	1530,1	4538,1	6011,2	-	-	-	-	-
			mmSS	36,97	155,97	462,6	612,76	-	-	-	-	-
		Sound Value	dBA	70	90	-	-	-	-	-	-	-

CENKAY TEKNİK

BACK DRAFT DAMPER - CKH -02 / CKH-02A

CKH-02

CKH-02A

AREAS OF USE AND FEATURES: It is used as a return damper for low-pressure relief applications such as 10-50 Pa in hvac systems. Airspeed can be used up to 10 m / s.

MATERIAL: Case galvanized - wings are made of twisted aluminium plate.

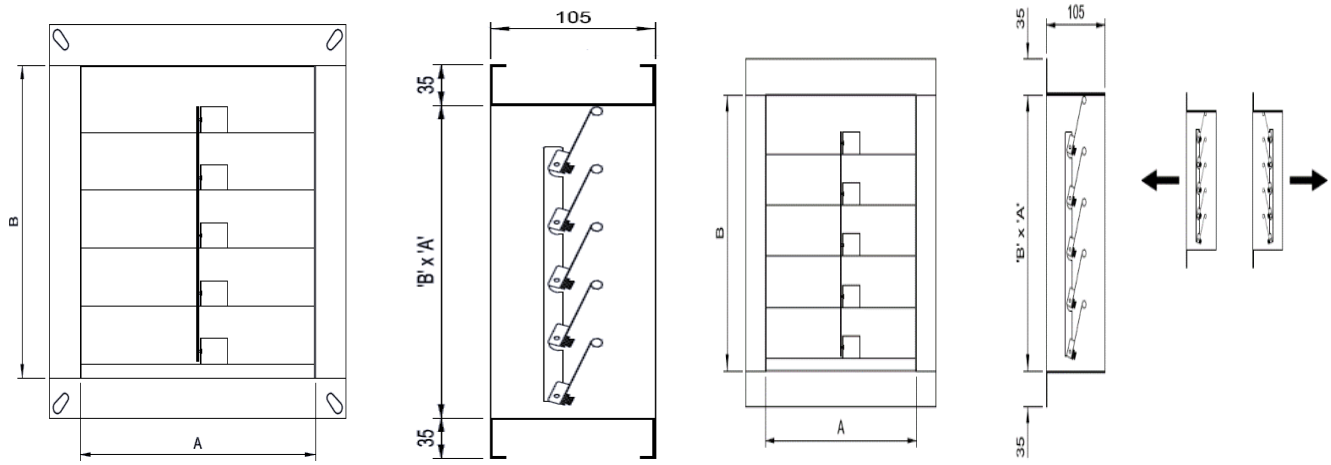
SURFACE COATING: It can be manufactured from the galvanized plate without paint.

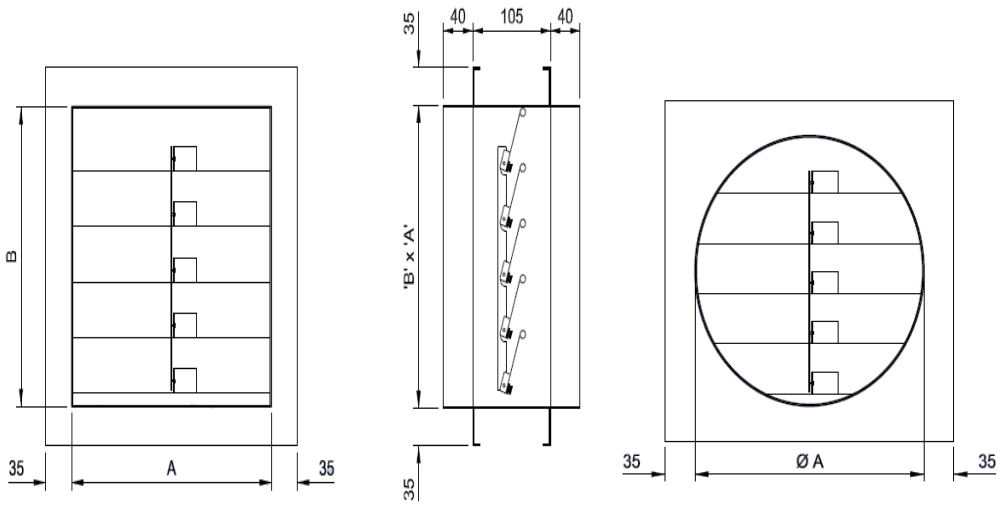
CENKAY TEKNİK

TECHNICAL MEASUREMENT

W	**100-150-200-250-300-350-400-450-500-600-700-800-900-1000-1100-1200**
H	**100-150-200-250-300-350-400-450-500-600-700-800-900-1000**

DAMPER SECTION VIEWS





CENKAY TEKNİK

ELECTION DIAGRAM

CKH-02A

∅D	H	∅D	H
100	140	450	510
125	195	500	580
150	210	550	640
200	260	600	700
250	320	650	770
300	385	700	770
350	385	750	830
400	460	800	895

PRESURE LOSS (Pa)										
AIR SPEED (m/s)		2	3	4	5	6	7	8	9	10
Model 1	30° CLOSED	3	9	22	47	75	110	140	190	220
	15° CLOSED	-	-	2	6	12	22	32	46	60
	OPEN	-	-	-	-	-	-	-	2	3
Model 2	30° CLOSED	-	12	21	35	55	75	90	110	150
	15° CLOSED	-	4	7	11	18	23	30	40	48
	OPEN	-	-	2	4	5	7	9	11	14
Model 3	30° CLOSED1	-	11	33	50	68	95	120	140	200
	15° CLOSED	-	-	-	-	5	20	32	44	55
	OPEN	-	-	-	-	-	-	5	12	21

CENKAY TEKNİK

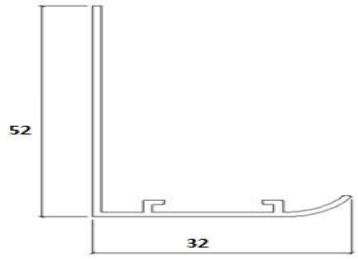
CONTROL COVERS - ACCESS DOORS - CKK-01

AREAS OF USE AND FEATURES: Intervention covers are used at the points to be reached when necessary. It is used for purposes such as a valve, valve, electrical control and device maintenance in duct and ceiling applications. The intervention cover surface can be a sheet or can be used as a grill. Standard production is with hidden screw Mounting type can be changed upon request.

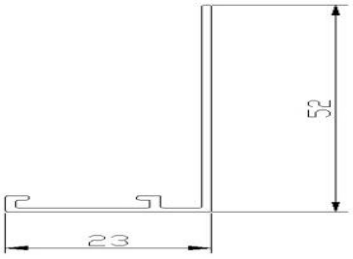
MATERIAL: Aluminum profile manufactured by case extrusion method - Wing 1 mm. From galvanized plate

SURFACE COATING: The product can be manufactured in any colour with electrostatic powder paint.

STANDART FRAME



NARROW FRAME

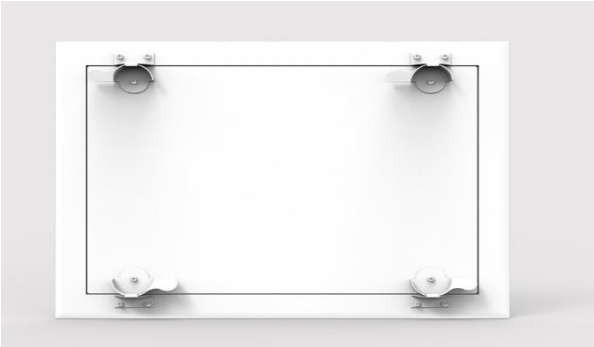


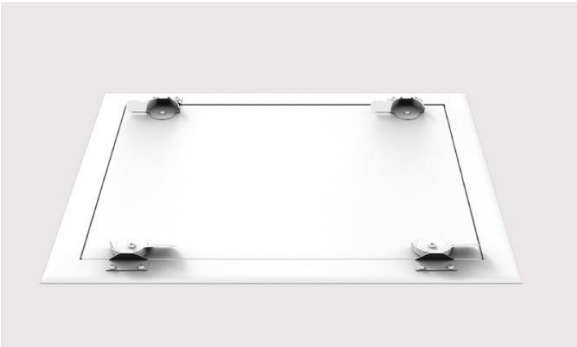
TECHNICAL MEASUREMENT

W	**250-300-350-400-450-500-600-700-800-900-1000**
H	**250-300-350-400-450-500-600**

CENKAY TEKNİK

CONTROL COVER – ACCESS DOORS -ISOLATED - CKK-02



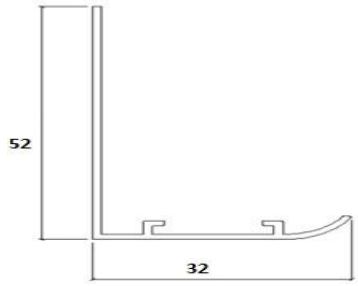


AREAS OF USE AND FEATURES: Intervention covers are used at the points to be reached when necessary. It is used for purposes such as valves, valves, electrical control and device maintenance in applications requiring sealing in ducts and ceilings. The intervention cover is manufactured with the surface insulated. Standard manufacturing is screwed.

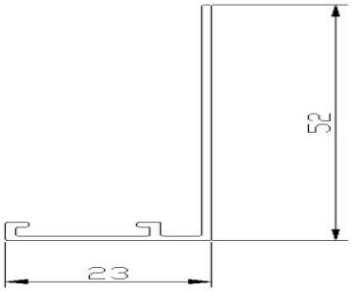
MATERIAL: Aluminium profile manufactured by case extrusion method - Wing 1 mm. The inner surface of the galvanized plate is isolated with rock wool.

SURFACE COATING: The product can be manufactured in any colour with electrostatic powder paint.

STANDART FRAME

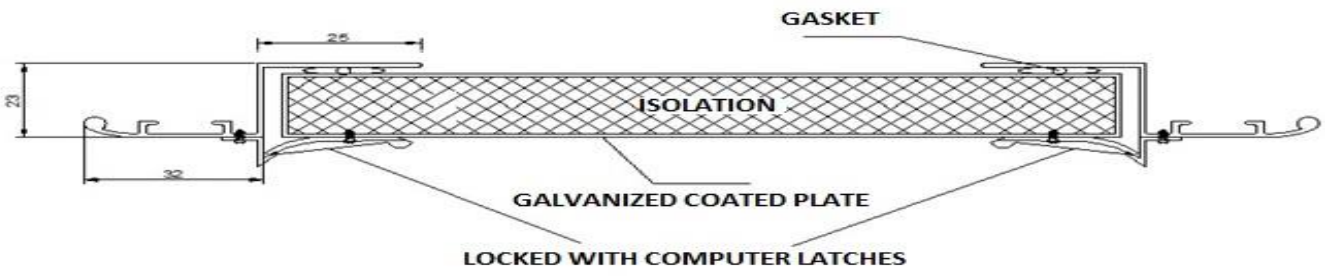


NARROW FRAME



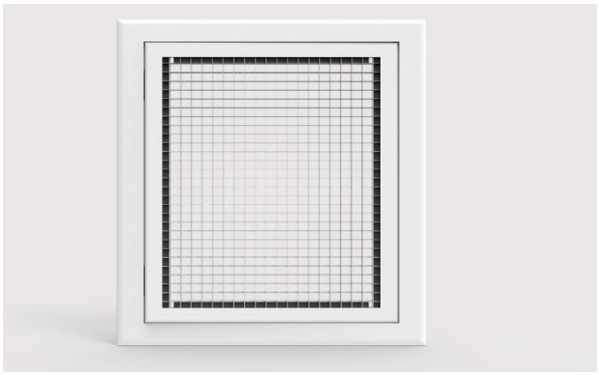
TECHNICAL MEASUREMENT

W	250-300-350-400-450-500-600-700-800-900-1000
H	250-300-350-400-450-500-600



CENKAY TEKNİK

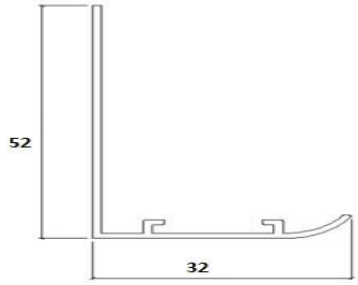
EGG CRATE CONTROL COVERS - ACCESS DOORS - CKK-03



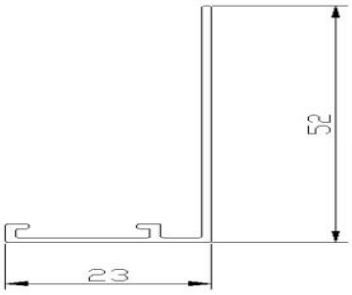
AREAS OF USE AND FEATURES: Intervention covers are used at points to be reached when necessary. It is used for purposes such as a valve, valve, electrical control and device maintenance in duct and ceiling applications. The intervention cover surface can also be used as a suction grille. Standard production is with hidden screw Mounting type can be changed upon request.
MATERIAL: Aluminium profile manufactured by case extrusion method - Wing 1 mm. From galvanized plate

SURFACE COATING: The product can be manufactured in any colour with electrostatic powder paint.

STANDART FRAME



NARROW FRAME

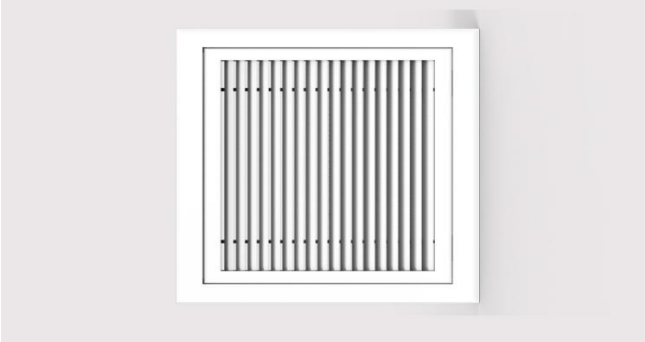


TECHNICAL MEASUREMENT

W	**250-300-350-400-450-500-600-700-800-900-1000**
H	**250-300-350-400-450-500-600**

CENKAY TEKNİK

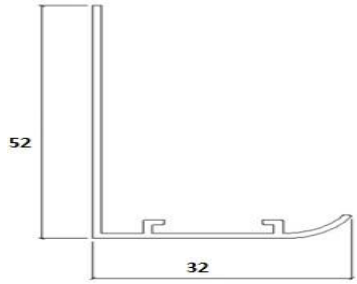
LINEER CONTROL COVERS - ACCESS DOORS - CKK-04



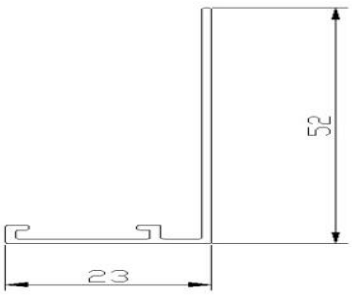
AREAS OF USE AND FEATURES: Intervention covers are used at points to be reached when necessary. It is used for purposes such as a valve, valve, electrical control and device maintenance in duct and ceiling applications. The intervention cover surface can also be used as a suction grille. Standard production is with hidden screw Mounting type can be changed upon request.
MATERIAL: Aluminium profile manufactured by case extrusion method - Wing 1 mm. From galvanized plate

SURFACE COATING: The product can be manufactured in any colour with electrostatic powder paint.

STANDART FRAME



NARROW FRAME

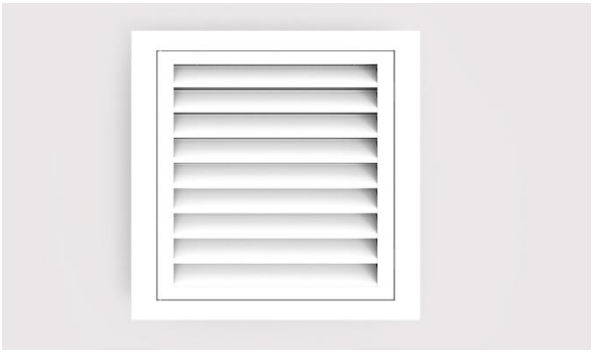


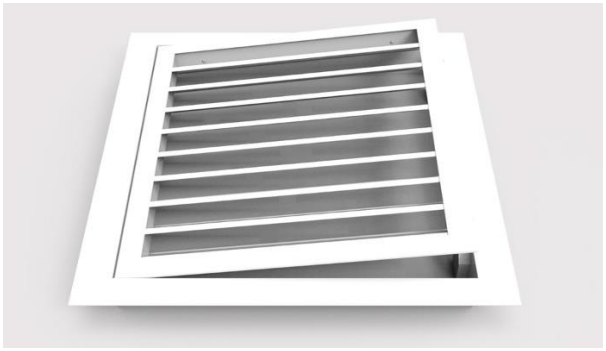
TECHNICAL MEASUREMENT

W	250-300-350-400-450-500-600-700-800-900-1000
H	250-300-350-400-450-500-600

CENKAY TEKNİK

LOUVER CONTROL COVERS - ACCESS DOORS - CKK-05

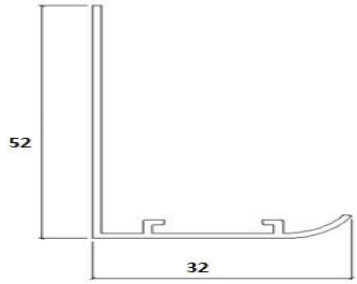




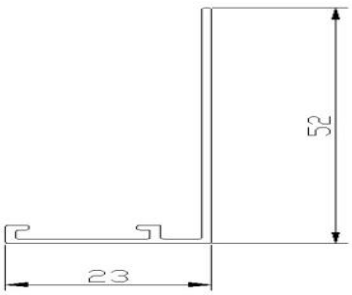
AREAS OF USE AND FEATURES: Intervention covers are used at points to be reached when necessary. It is used for purposes such as a valve, valve, electrical control and device maintenance in duct and ceiling applications. The intervention cover surface can also be used as a suction grille. Standard production is with hidden screw Mounting type can be changed upon request.
MATERIAL: Aluminium profile manufactured by case extrusion method - Wing 1 mm. From galvanized plate

SURFACE COATING: The product can be manufactured in any colour with electrostatic powder paint.

STANDART FRAME



NARROW FRAME

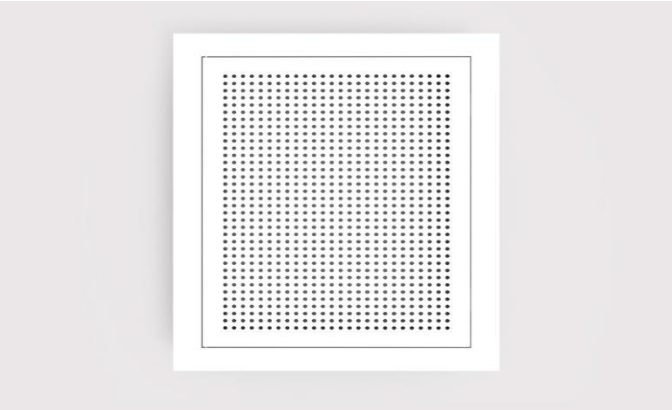


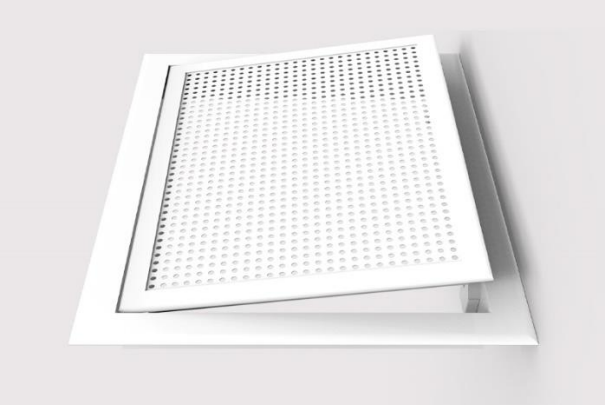
TECHNICAL MEASUREMENT

W	250-300-350-400-450-500-600-700-800-900-1000
H	250-300-350-400-450-500-600

CENKAY TEKNİK

PERFORETED CONTROL COVERS - ACCESS DOORS - CKK-06

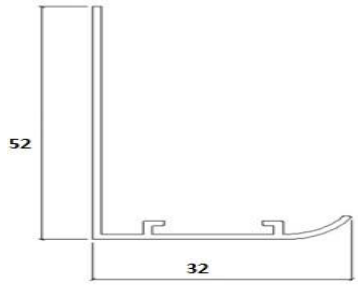




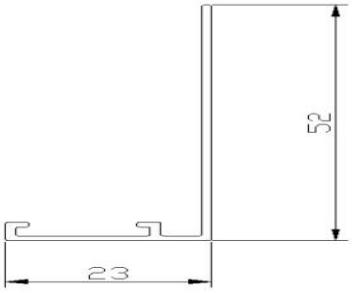
AREAS OF USE AND FEATURES: Intervention covers are used at points to be reached when necessary. It is used for purposes such as valve, valve, electrical control and device maintenance in duct and ceiling applications. The intervention cover surface can also be used as a suction grille. Standard production is with hidden screw Mounting type can be changed upon request.
MATERIAL: Aluminum profile manufactured by case extrusion method - Wing 1 mm. From galvanized plate

SURFACE COATING: The product can be manufactured in any color with electrostatic powder paint.

STANDART FRAME



NARROW FRAME



TECHNICAL MEASUREMENT

W	**250-300-350-400-450-500-600-700-800-900-1000**
H	**250-300-350-400-450-500-600**

CENKAY TEKNİK

SMOKE DAMPERS PRISMATIC – CKYD-01-01A

CKYD-01

CKYD-01A

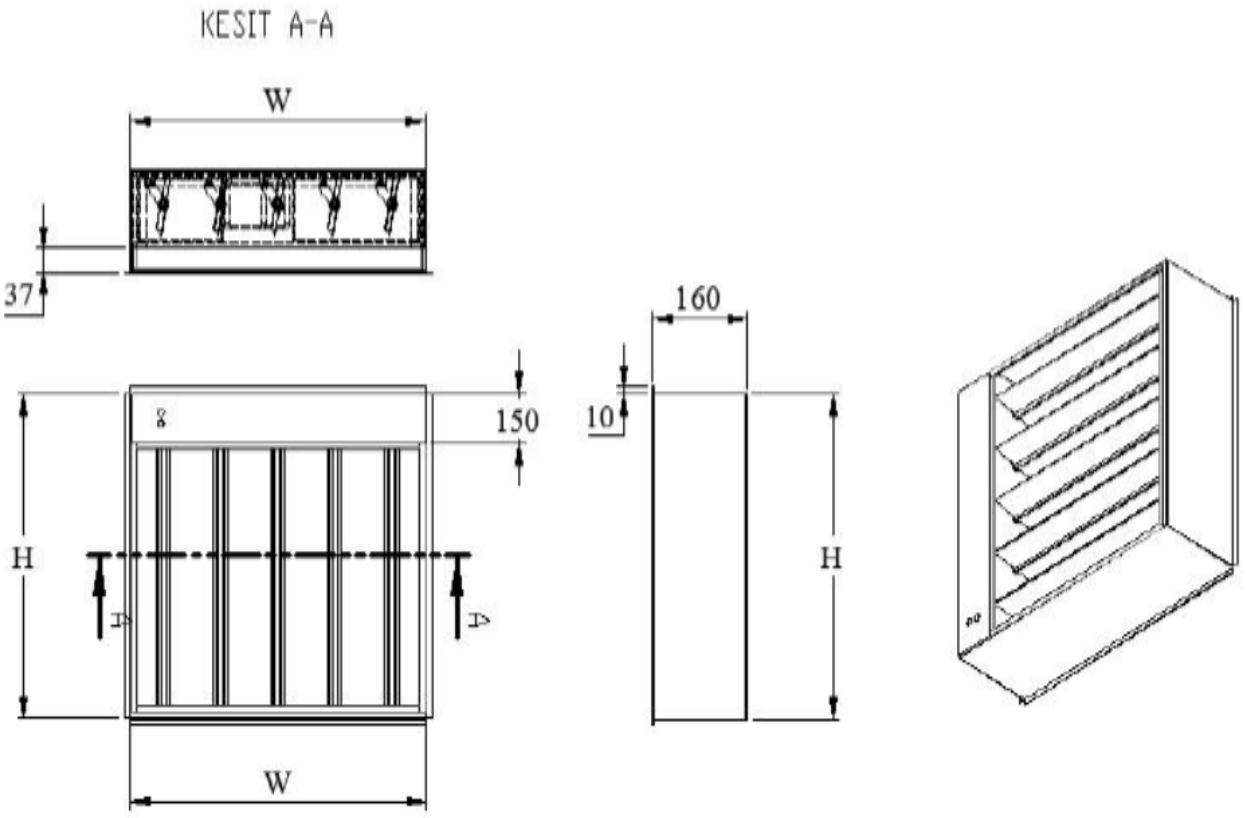
Usage area and features: It is used in ventilation systems to prevent the smoke emitted during the fire from accumulating from people's escape routes. The damper fire signal of the desired region opens automatically by commanding the servo motor at the relevant point, quickly making the environment not affected by people. The degree of sealing complies with EN 1751 Class –C. It is kept in a closed position other than the fire and controlled by the engine.

Material: CKYD-01 Smoke Dampers 1,2 mm. It is produced from the galvanized plate by cold rivet method without welding. The blades are manufactured from the extruded aluminium profile. The wings operate in bronze bearings that do not require lubrication.

Assembly: Bolted as standard.

Surface coating: Galvanized coating

STANDARD DIMENSIONS – CKYD-01	
W	300 – 400 – 500 – 600 – 700 – 800 – 900 – 1000 -1100-1200-1300-1400-1500-1600-1700-1800-1900-2000
H	300 – 400 – 500 – 600 – 700 – 800 – 900 – 1000



MAX. IN STANDARD MANUFACTURES. EFFECTIVE AREA

		W							
		300	**400**	**500**	**600**	**700**	**800**	**900**	**1000**
H	**300**	0,039	0,069	0,099	0,129	0,159	0,189	0,219	0,249
	400	0,052	0,092	0,132	0,172	0,212	0,252	0,292	0,332
	500	0,065	0,115	0,165	0,215	0,265	0,315	0,365	0,415
	600	0,078	0,138	0,198	0,258	0,318	0,378	0,438	0,498
	700	0,091	0,161	0,231	0,301	0,371	0,441	0,511	0,581
	800	0,104	0,184	0,264	0,344	0,424	0,504	0,584	0,664
	900	0,117	0,207	0,297	0,387	0,477	0,567	0,657	0,747
	1000	0,130	0,230	0,330	0,430	0,530	0,630	0,730	0,830

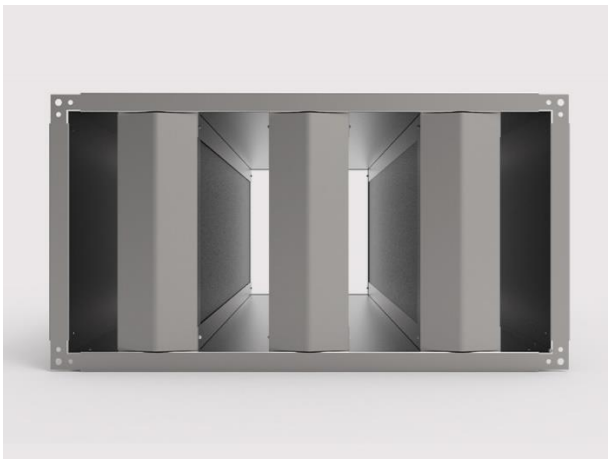
CENKAY TEKNİK

PRESSURE AND SOUND LOSSES FOR SMOKE DAMPERS

AIR SPEED				0,5	Al	2	3	4	6	8	10	20
WING ANGLES	0º	STATIC PRESSURE	Pa	-	1	4,5	7,16	9,75	24,77	42,39	78,89	648,3
			mmSS	-	0,1	0,46	0,73	0,99	2,52	4,32	8,04	66,09
		SOUND LEVEL	dBA	-	16	30	40	46	53	59	70	90
	15º	STATIC PRESSURE	Pa	0,5	3,98	8,54	17,46	31,23	47,86	93,14	363,78	1580,9
			mmSS	0,05	0,41	0,87	1,78	3,18	4,88	9,49	37,08	161,15
		SOUND LEVEL	dBA	10	22	38	46	53	58	70	81	-
	30º	STATIC PRESSURE	Pa	4,49	9,05	31,12	45,45	76,61	237,97	575,85	1713,4	5384,7
			mmSS	0,46	0,92	3,17	4,63	7,81	24,26	58,7	174,66	548,9
		SOUND LEVEL	dBA	20	32	49	55	60	71	83	95	-
	45º	STATIC PRESSURE	Pa	9,78	24,36	79,98	239,24	474,35	1314,1	3384,8	5887,3	-
			mmSS	1	2,48	8,15	24,39	48,35	133,96	345,04	600,13	-
		SOUND LEVEL	dBA	31	47	58	68	78	89	-	-	-
	60º	STATIC PRESSURE	Pa	49,98	276,12	952,23	2503,1	-	-	-	-	-
			mmSS	5,09	28,15	97,07	255,16	-	-	-	-	-
		SOUND LEVEL	dBA	52	62	84	95	-	-	-	-	-
	75º	STATIC PRESSURE	Pa	362,67	1530,1	4538,1	6011,2	-	-	-	-	-
			mmSS	36,97	155,97	462,6	612,76	-	-	-	-	-
		SOUND LEVEL	dBA	70	90	-	-	-	-	-	-	-

CENKAY TEKNİK

SOUND ATTENUATORS PRISMATIC – CKS-01



USAGE AREA AND FEATURES: It is used in ventilation systems to provide the ideal sound level at the device connections and outputs of the air ducts.

MATERIAL: 1 mm. It is produced from the galvanized plate by cold rivet method without welding. The backstage is filled with rock wool of 50 kg / m3 density. The backstage surfaces are covered with glass wool covered with rock wool. Optionally, the galvanized perforated plate is coated to reinforce it. Cassette thicknesses are manufactured as 100-200-300 mm.

ASSEMBLY: Bolted as standard.

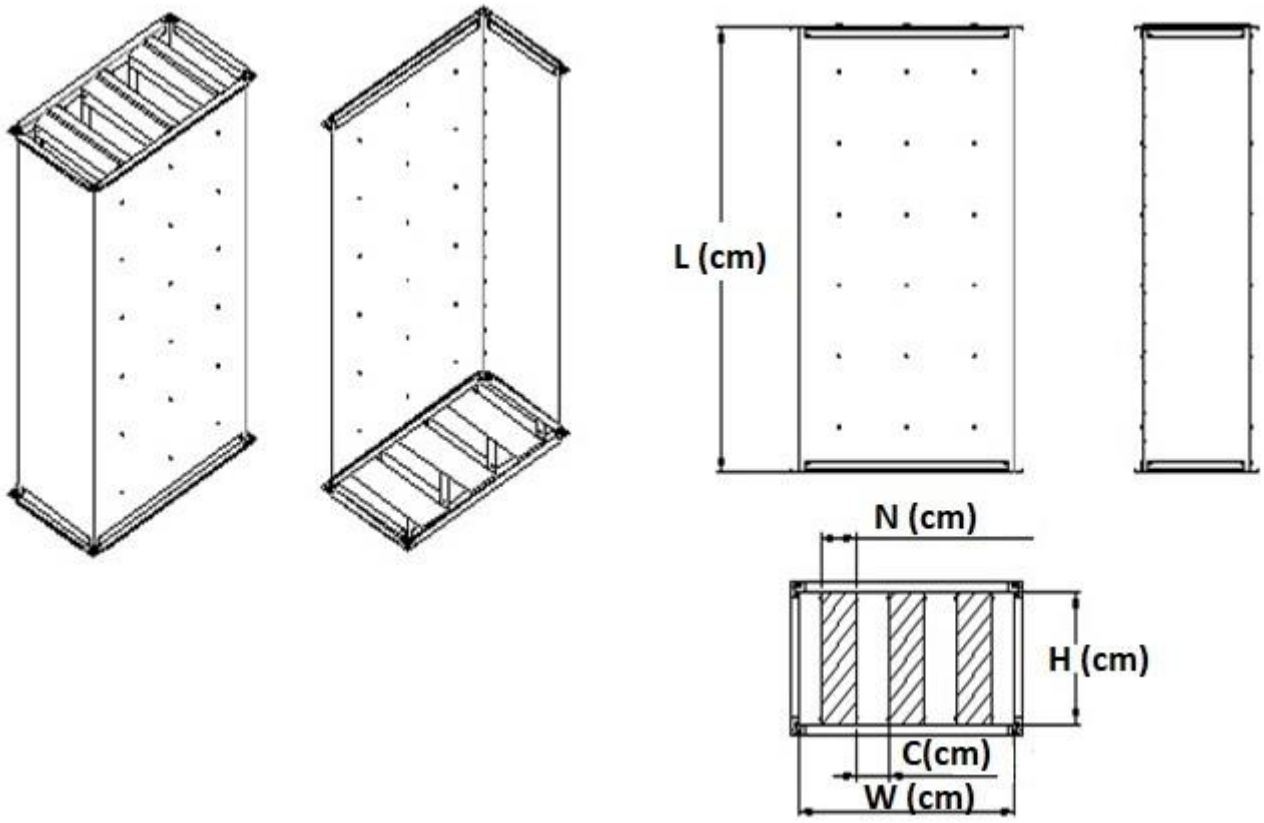
SURFACE COATING: It is manufactured from the galvanized plate without paint.

SOUND LEVELS AVAILABLE

		NR	dB(A)
HOSPITALS	SPECIAL ROOMS	25-35	30-40
	OPERATING ROOMS	30-40	35-45
	LABORATORIES, HOLLER	40-40	35-45
	WAITING ROOMS	35-45	40-50
OFFICES	MANAGEMENT ROOMS	20-30	25-35
	CONFERENCE ROOMS	25-35	30-40
	OPEN OFFICES	30-40	35-45
	COMPUTER ROOMS	40-60	45-65
HOTEL. RESTAURANT AND STORES	MANAGEMENT ROOMS	25-35	30-40
	CONFERENCE ROOMS	30-40	35-45
	OPEN OFFICES	30-40	35-45
	COMPUTER ROOMS	40-50	45-55
HOUSING	SINGLE FAMILY PLACES (HOLIDAY PLACE)	20-30	25-35
	SINGLE FAMILY PLACES (CITY)	25-35	30-40
	APARTMENTS	30-40	35-45
FACTORIES	LIGHT MACHINE PRODUCTION	45-65	50-70
	HEAVY MACHINE, CASTING MACHINE	55-75	60-80
LARGE BUILDINGS	RADIO AND TV STUDIOS	20-25	25-30
	CONCERT AND OPERA HALLS	20-30	25-35
	Mosques and churches	20-30	25-35
	THEATERS AND HALLS	20-30	25-35
	LIBRARIES - MUSEUMS	20-30	25-35
	SCHOOLS - CLASSES	25-35	30-40
	CINEMA AND SHOW HALLS	30-40	35-45
	VISITING HALLS	35-45	40-50
DANGEROUS LIMIT		85	90

CENKAY TEKNİK

TEKNICAL DIMENSIONS



SYMBOLS:

V: Air flow

n: Number of Cassettes

s: Air Passage Range

vt: Air Velocity in W * H section

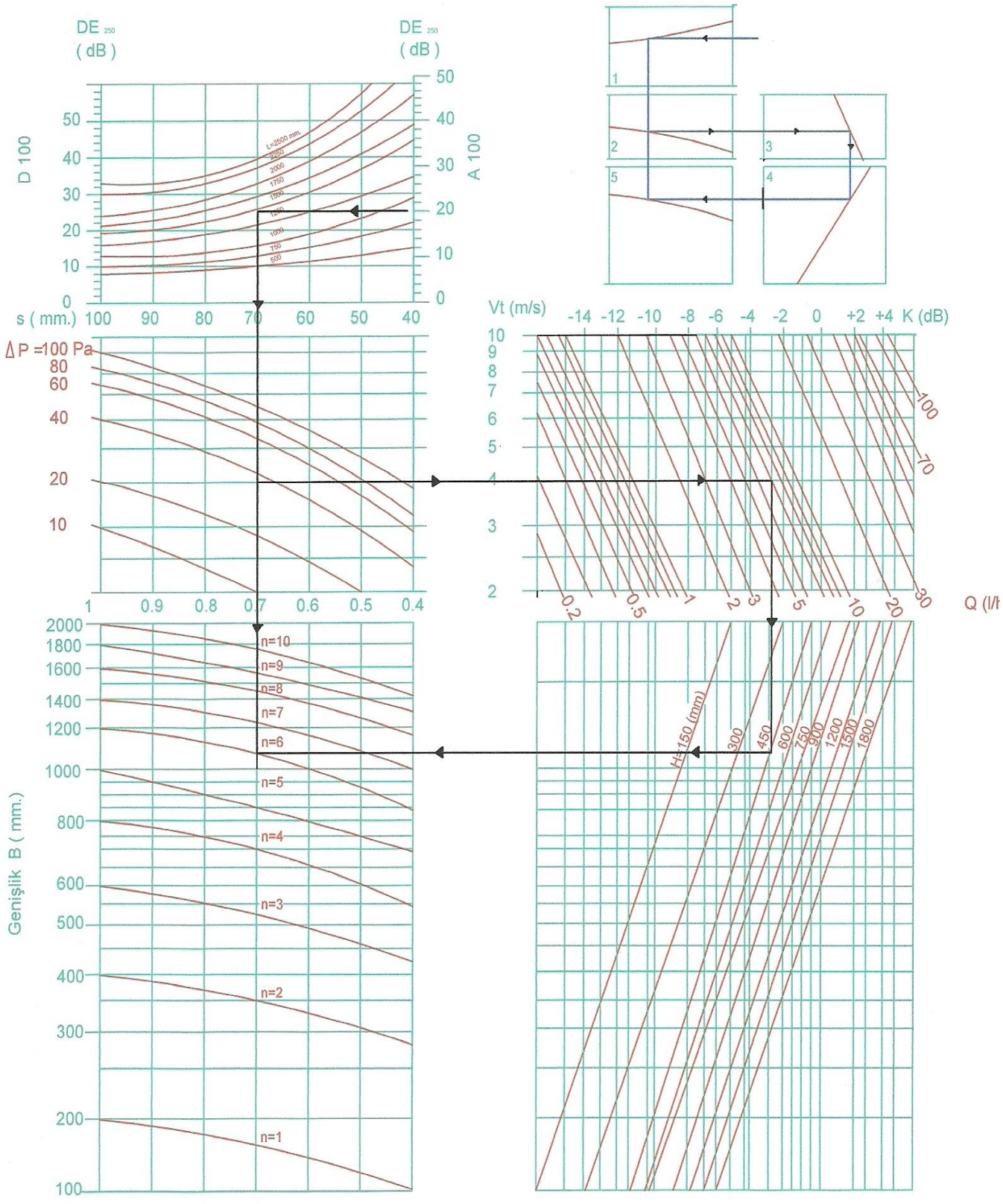
vs: Air Velocity in Air Passage Range

:P: Pressure Loss

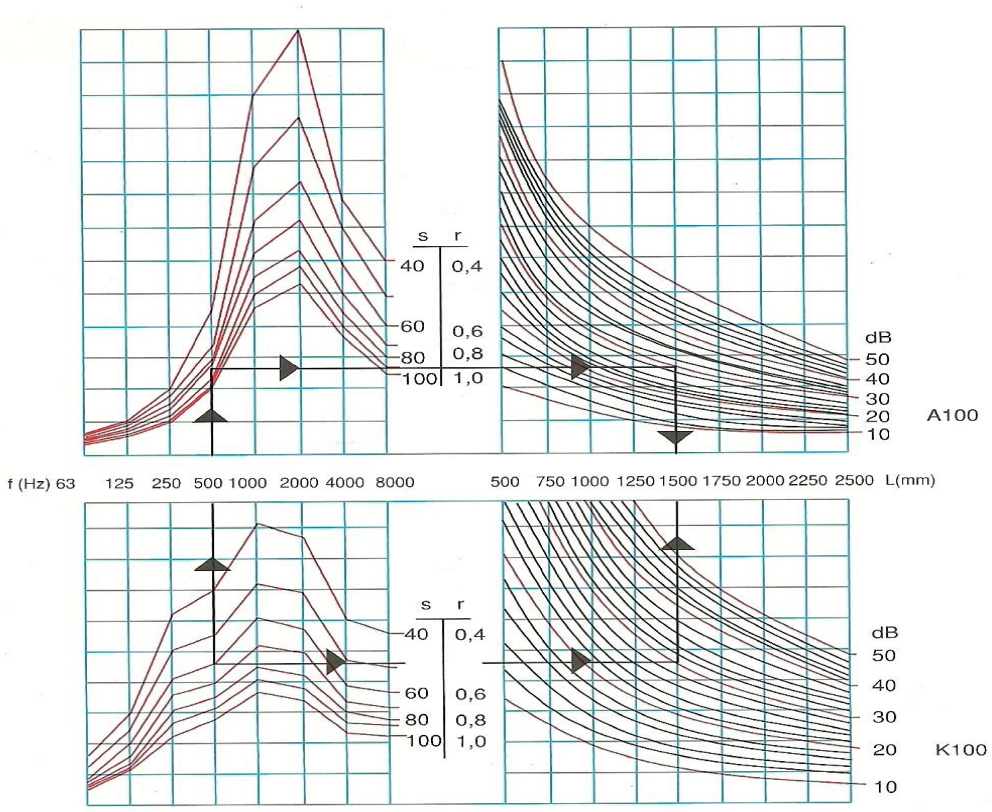
f (Hz): Frequency in the octave band

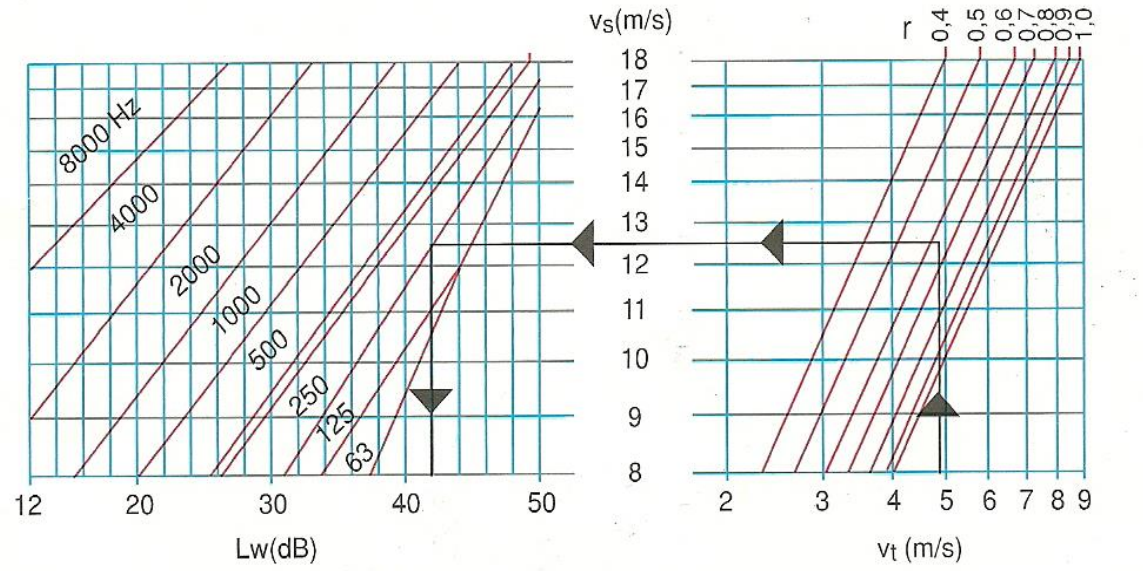
CENKAY TEKNİK

SOUND DIAGRAM FOR 100 mm CASSETTE



Sound drop depending on frequency DE (dBa) -D-100 / A 100





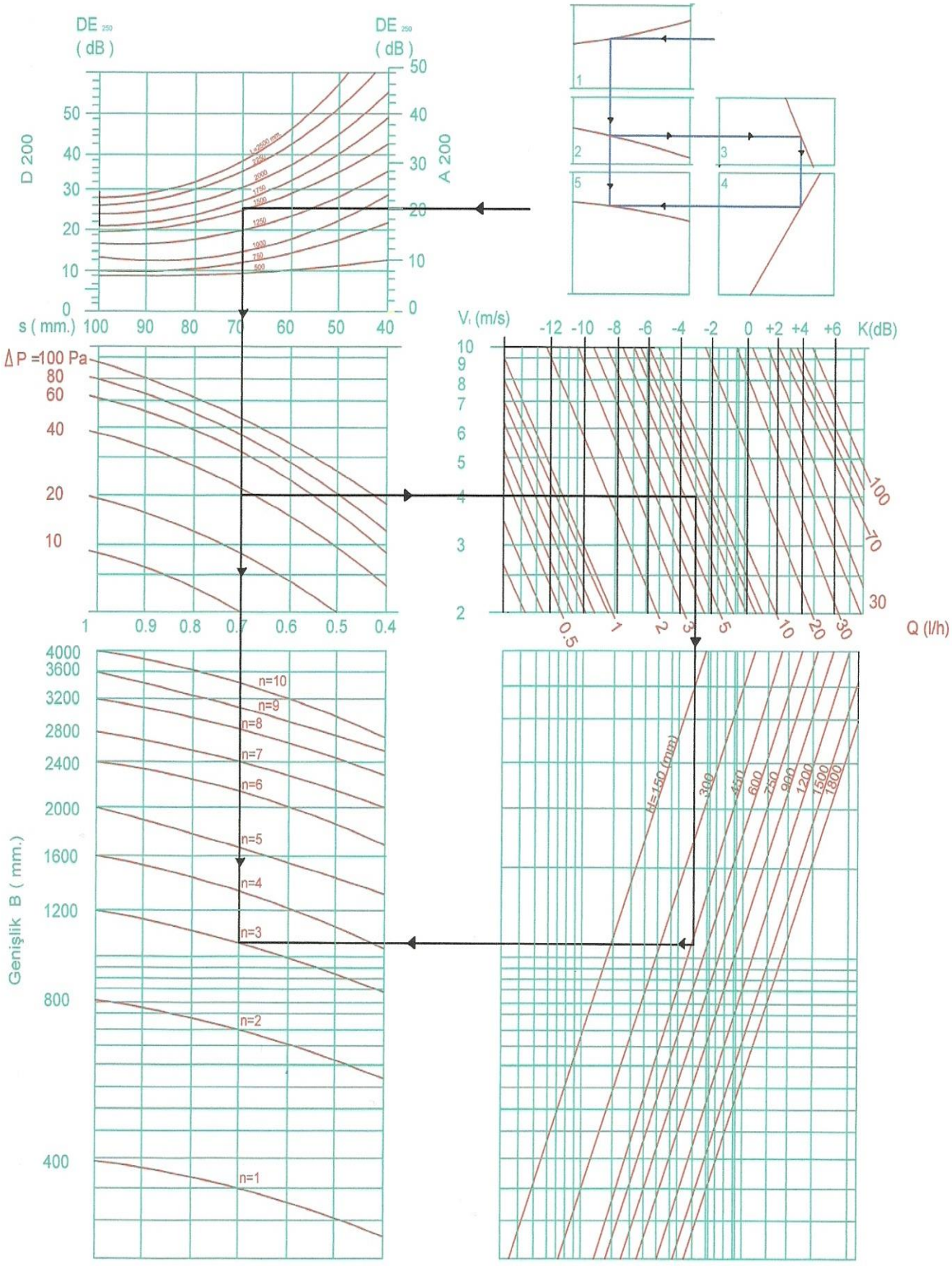
Refreshed vibration level drop: Lyeni = Lw + K

K values will be taken from the table below depending on the cross section area perpendicular to the flow.

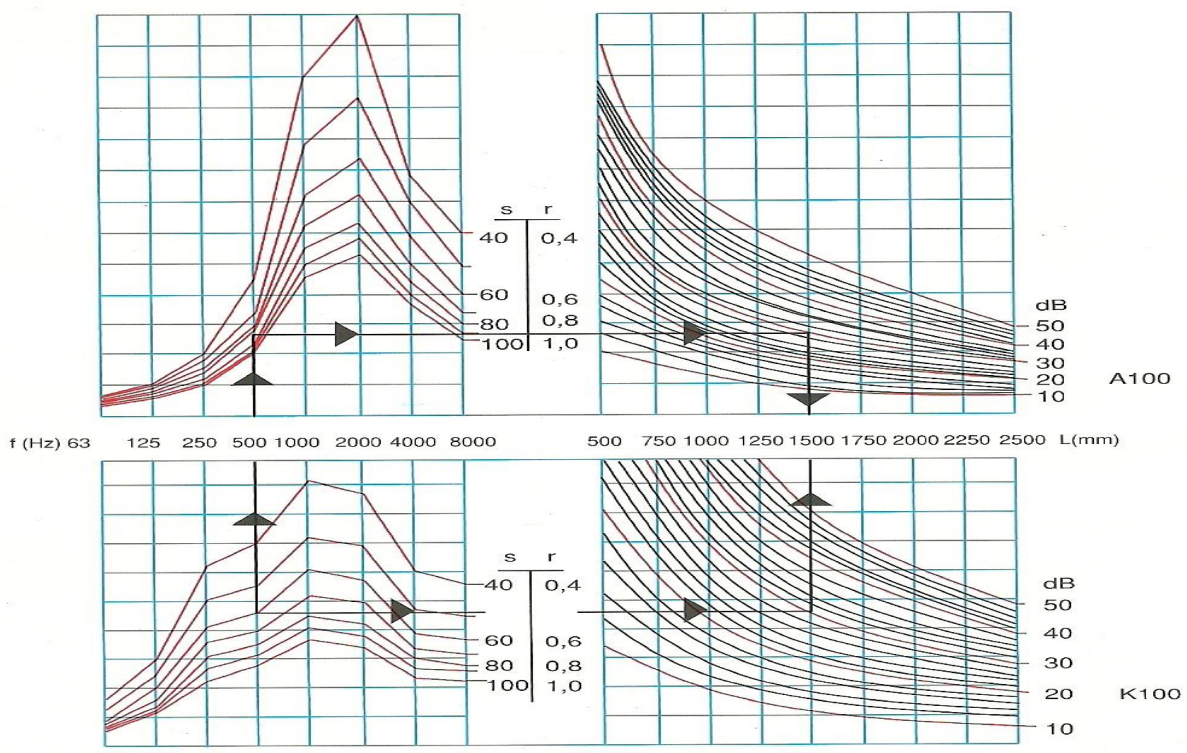
F=W*H (m2)	0,06	0,1	0,25	0,75	1,0	1,25	1,5	2,0	3,0	4,0
K(dB)	-12	-10	-6	-1	0	+1	+2	+3	+5	+6

CENKAY TEKNİK

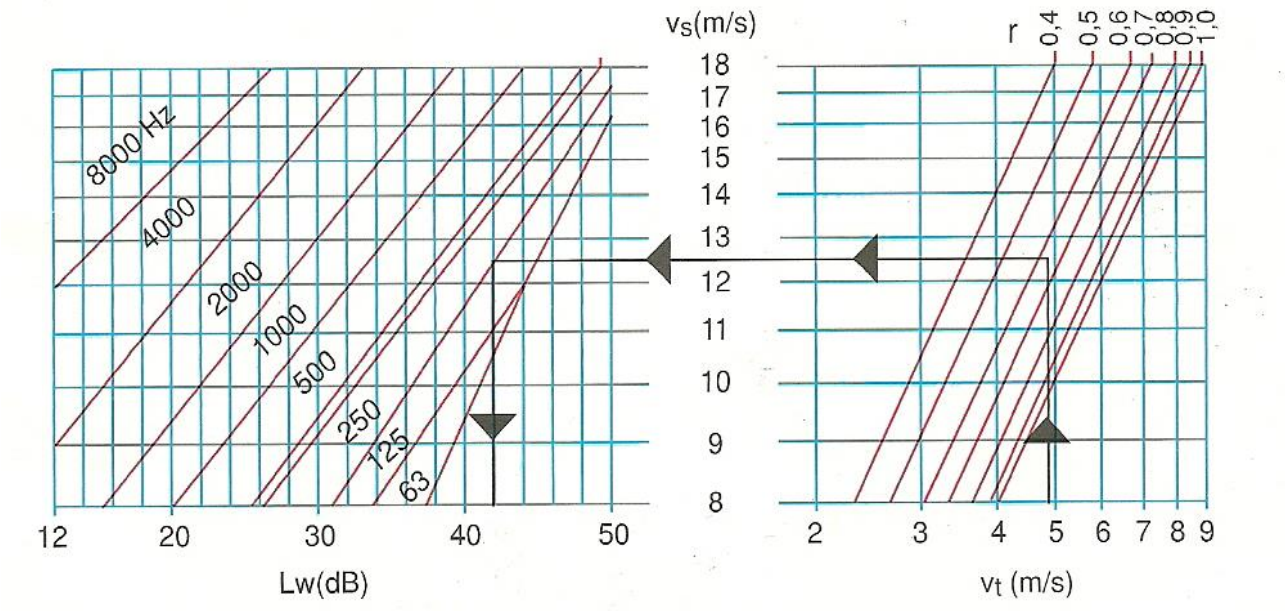
SOUND DIAGRAM FOR 200 mm CASSETTE



Sound drop depending on frequency DE (dB) -D-200 / A 200



Corrected sound drop (Lw) depending on frequency



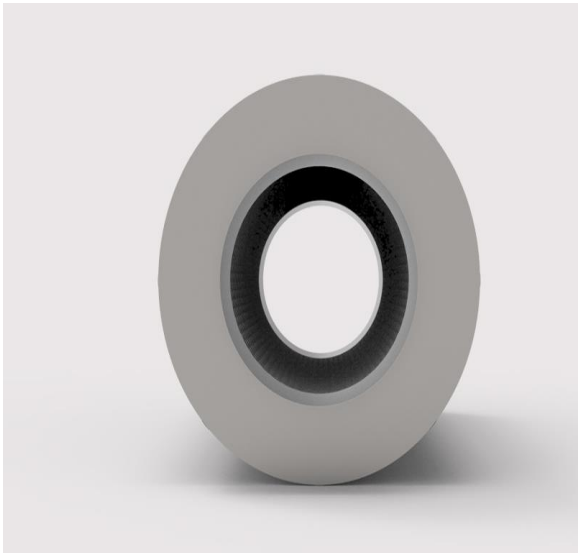
Refreshed vibration level drop: Lyeni = Lw + K

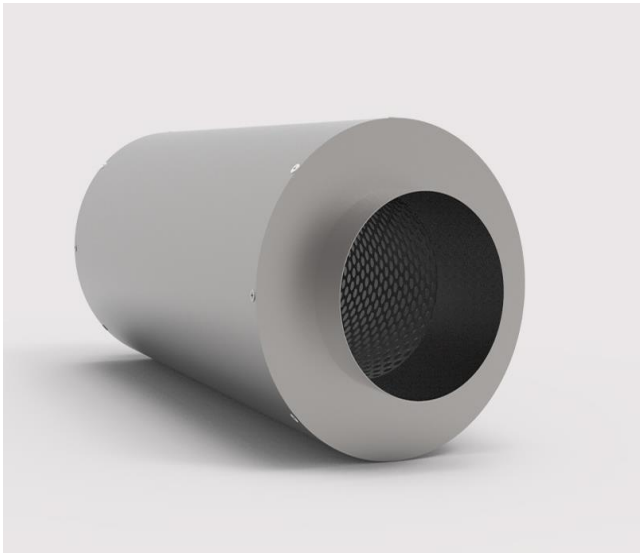
K values will be taken from the table below depending on the cross section area perpendicular to the flow.

F=W*H (m2)	0,06	0,1	0,25	0,75	1,0	1,25	1,5	2,0	3,0	4,0
K(dB)	-12	-10	-6	-1	0	+1	+2	+3	+5	+6

CENKAY TEKNİK

SOUND ATTERNUATORS CYLINDRICAL – CKS-02





USAGE AREA AND FEATURES: It is used in ventilation systems to provide the ideal sound level at the device connections and outputs of the air ducts.

MATERIAL: 1 mm. It is produced from the galvanized plate by cold rivet method without welding. The backstage is filled with rock wool of 50 kg / m3 density. The backstage surfaces are covered with glass wool covered with rock wool. Optionally, the galvanized perforated plate is coated to reinforce it. Cassette thicknesses are manufactured as 100-200-300 mm.

ASSEMBLY: Bolted as standard.

SURFACE COATING: It is manufactured from the galvanized plate without paint.

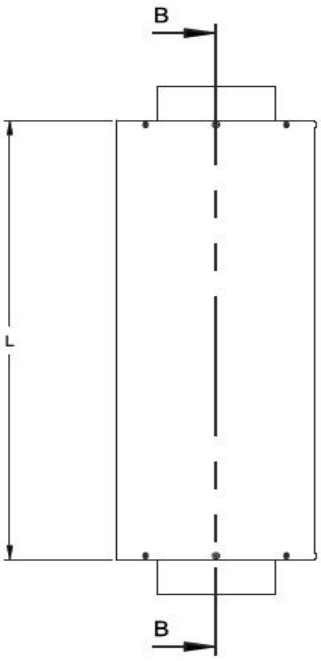
SOUND LEVELS AVAILABLE

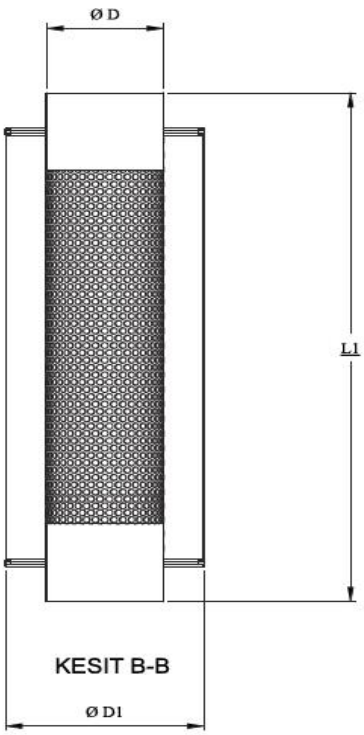
		NR	dB(A)
HOSPITALS	SPECIAL ROOMS	25-35	30-40
	OPERATING ROOMS	30-40	35-45
	LABORATORIES, HOLLER	40-40	35-45
	WAITING ROOMS	35-45	40-50
OFFICES	MANAGEMENT ROOMS	20-30	25-35
	CONFERENCE ROOMS	25-35	30-40
	OPEN OFFICES	30-40	35-45
	COMPUTER ROOMS	40-60	45-65
HOTEL. RESTAURANT AND STORES	MANAGEMENT ROOMS	25-35	30-40
	CONFERENCE ROOMS	30-40	35-45
	OPEN OFFICES	30-40	35-45
	COMPUTER ROOMS	40-50	45-55
HOUSING	SINGLE FAMILY PLACES (HOLIDAY PLACE)	20-30	25-35
	SINGLE FAMILY PLACES (CITY)	25-35	30-40
	APARTMENTS	30-40	35-45
FACTORIES	LIGHT MACHINE PRODUCTION	45-65	50-70
	HEAVY MACHINE, CASTING MACHINE	55-75	60-80
LARGE BUILDINGS	RADIO AND TV STUDIOS	20-25	25-30
	CONCERT AND OPERA HALLS	20-30	25-35
	Mosques and churches	20-30	25-35
	THEATERS AND HALLS	20-30	25-35
	LIBRARIES - MUSEUMS	20-30	25-35
	SCHOOLS - CLASSES	25-35	30-40
	CINEMA AND SHOW HALLS	30-40	35-45
	VISITING HALLS	35-45	40-50
DANGEROUS LIMIT		85	90

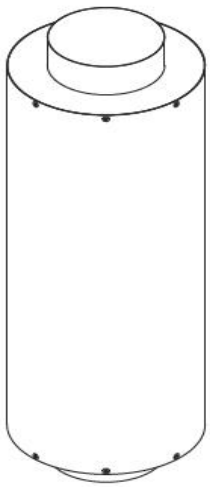
CENKAY TEKNİK

STANDARD DIMENSIONS

PRODUCT NAME Ø	Ø D	Ø D1	L	FREKANS (Hz)	SOUND LEVEL (dB)
80-180	78	183	1200	250	22
100-200	98	203	1200	250	20
125-225	123	228	1200	250	17
150-250	148	253	1200	250	13
160-260	158	263	1200	250	13
180-280	178	283	1200	250	12
200-300	198	303	1200	250	11
250-350	248	353	1200	250	9
300-400	298	403	1200	250	9
400-500	398	503	1200	250	9







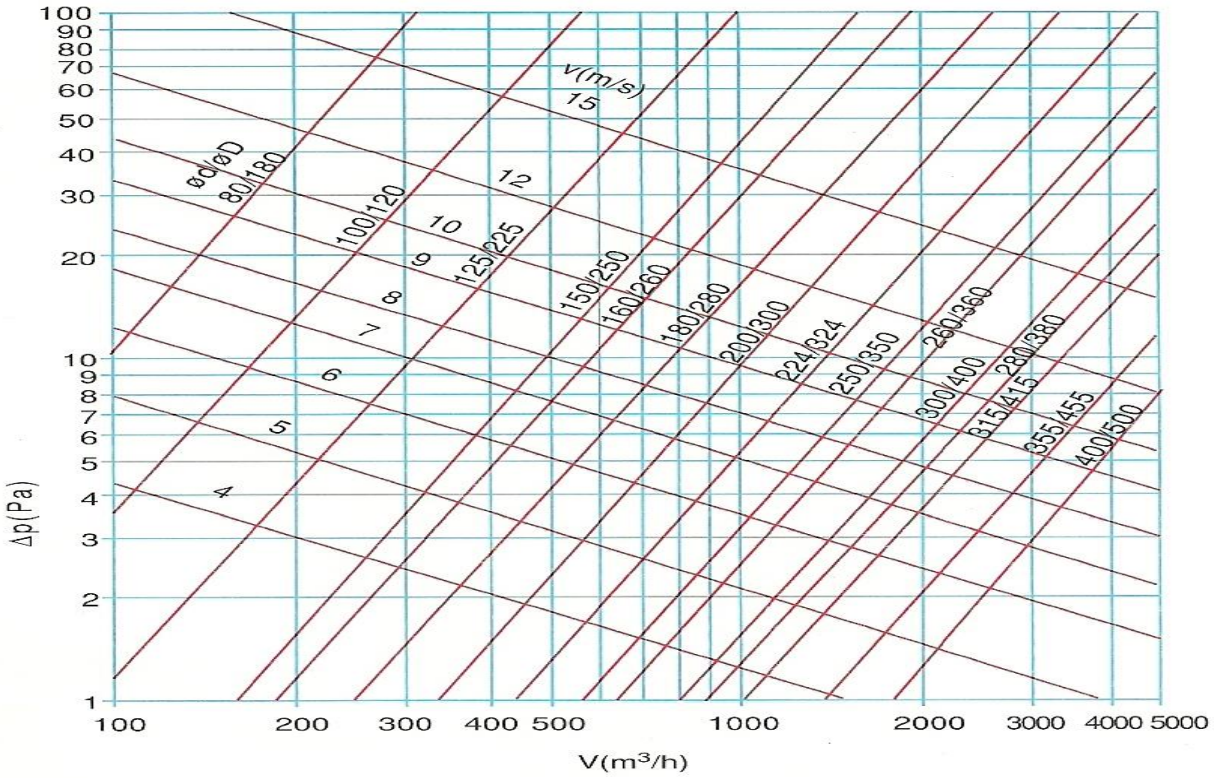
SOUND LEVEL

Abbreviations

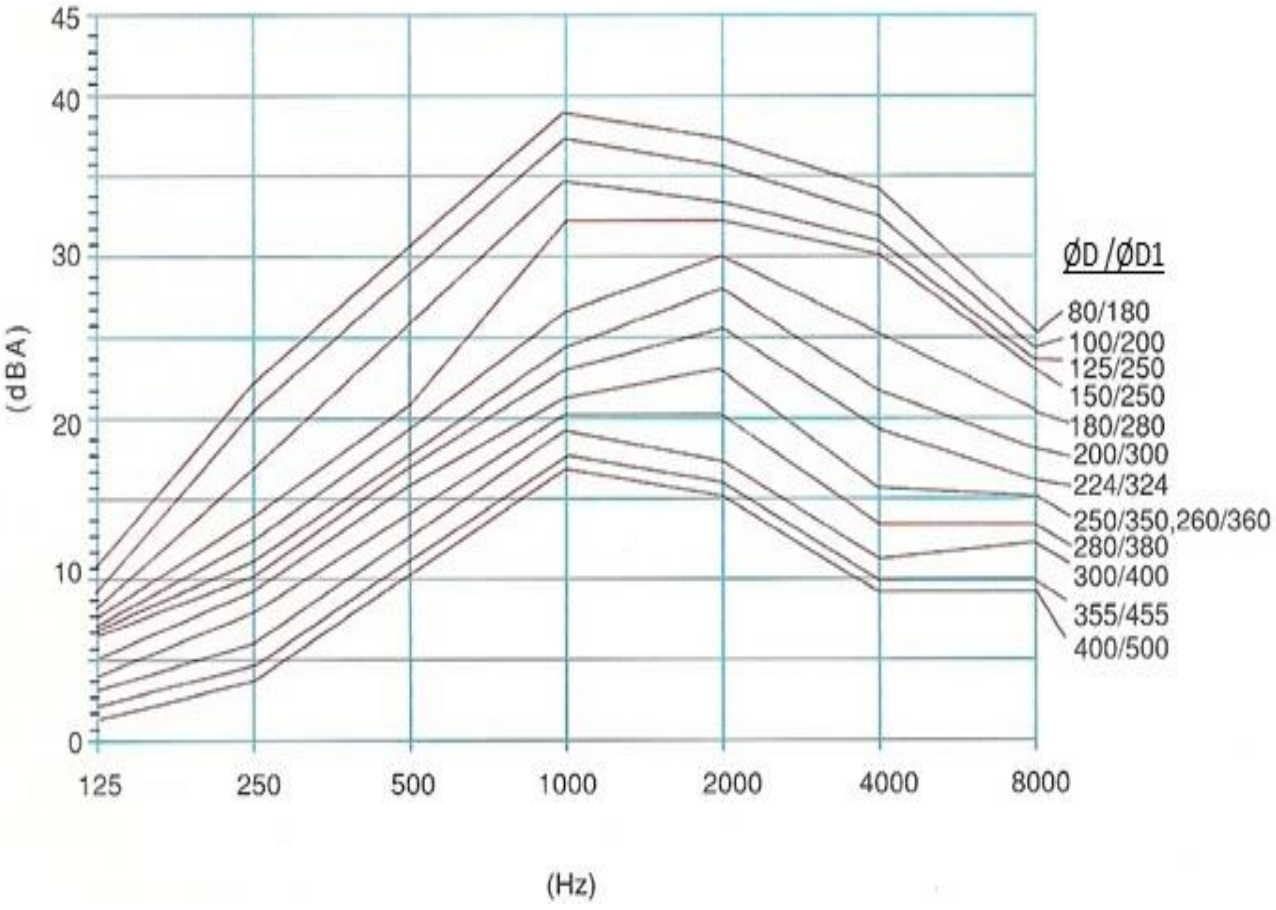
Δp: Pressure Drop (Pa)
V: Flow rate (m3 / h)
Ø D1: Muffler outer diameter (mm)
Ø D: Muffler connection neck diameter (mm.)
f: Frequency (Hz.)
Nc: sound level (dBA)

CENKAY TEKNİK

PRESSURE LOSS DIAGRAM

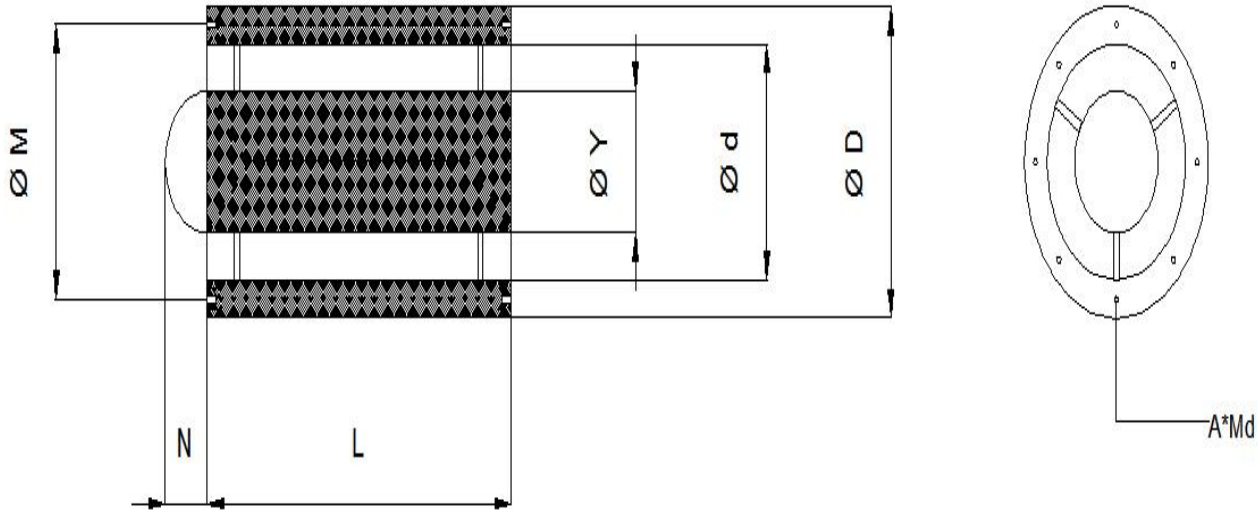


SOUND LEVEL DOWN DIAGRAM



CENKAY TEKNİK

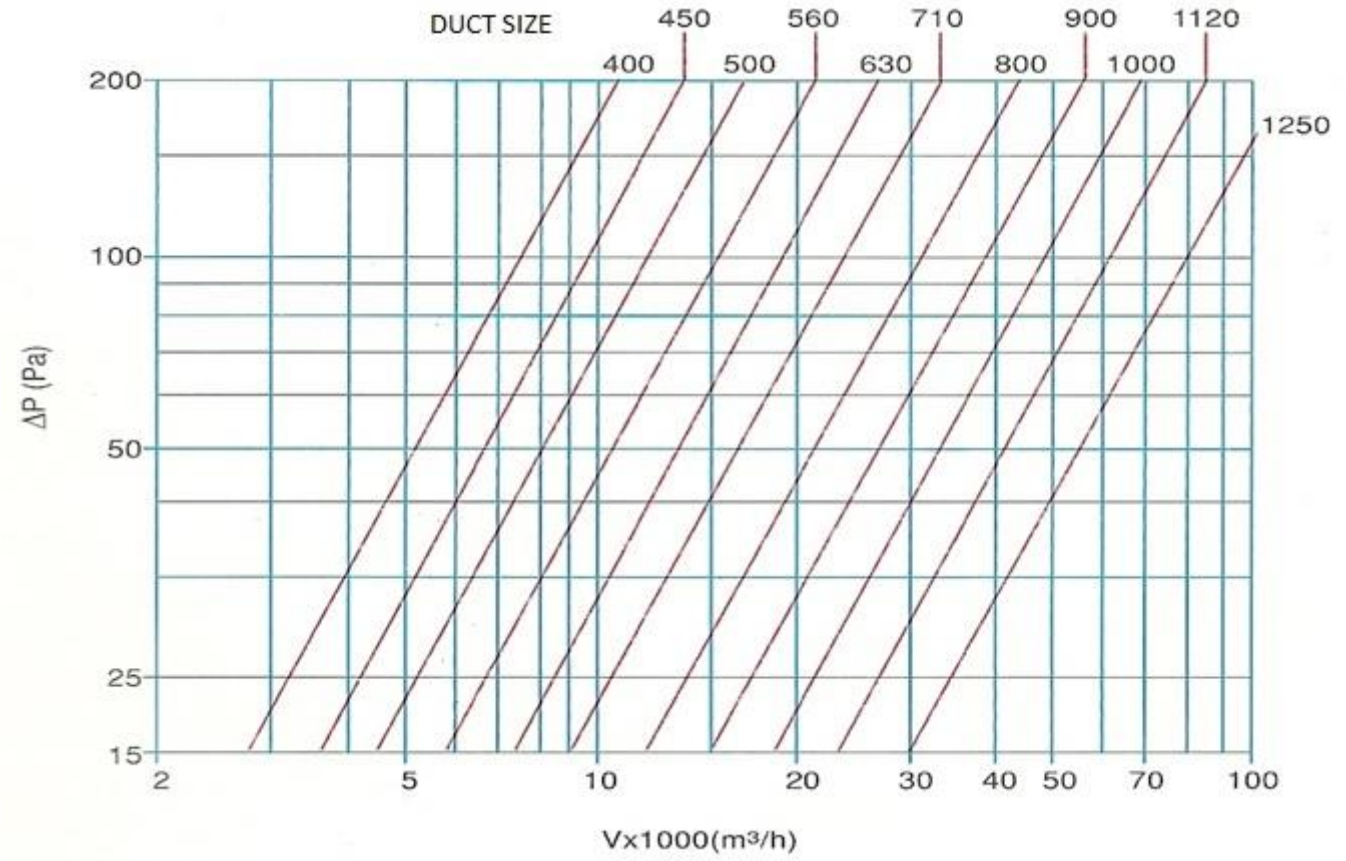
CYLINDRICAL SILENCERS FOR DIAMETERS FROM Ø 400



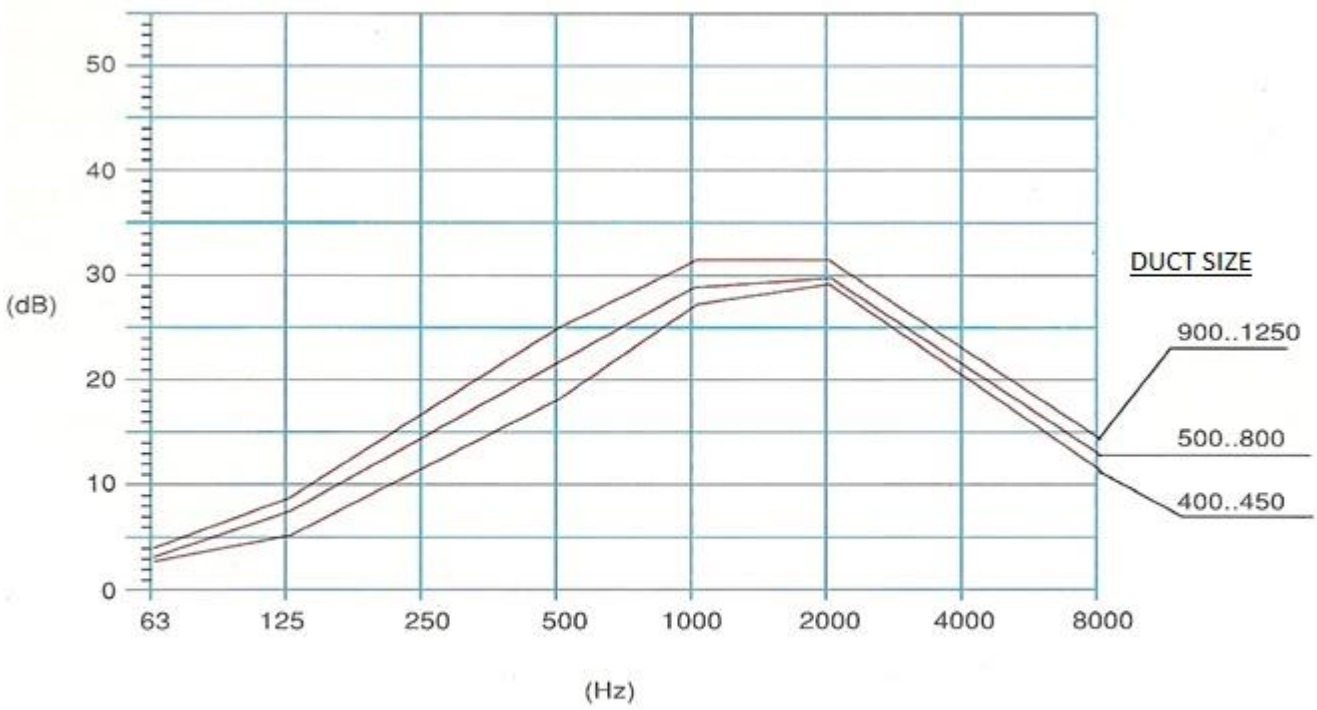
DUCT SIZE (Ø mm)							FREKANS (Hz)	SOUND LEVEL dBA
	Ø d	Ø D	L	Y	Ø M	A*Md		
400	402	605	630	100	438	12*M8	250	10
450	451	655	710	100	487	12*M8	250	10
500	505	713	800	100	541	12*M8	250	14
630	636	840	930	150	674	16*M10	250	14
710	713	920	1120	150	751	16*M10	250	14
800	799	1005	1250	200	837	24*M10	250	14
900	896	1100	1400	200	934	24*M10	250	17
1000	1005	1210	1600	200	1067	24*M10	250	17
1120	1128	1335	1800	300	1200	32*M16	250	16
1250	1265	1470	1930	300	1337	32*M16	250	16

CENKAY TEKNİK

PRESSURE LOSS DIAGRAM



SOUND LEVEL DOWN DIAGRAM



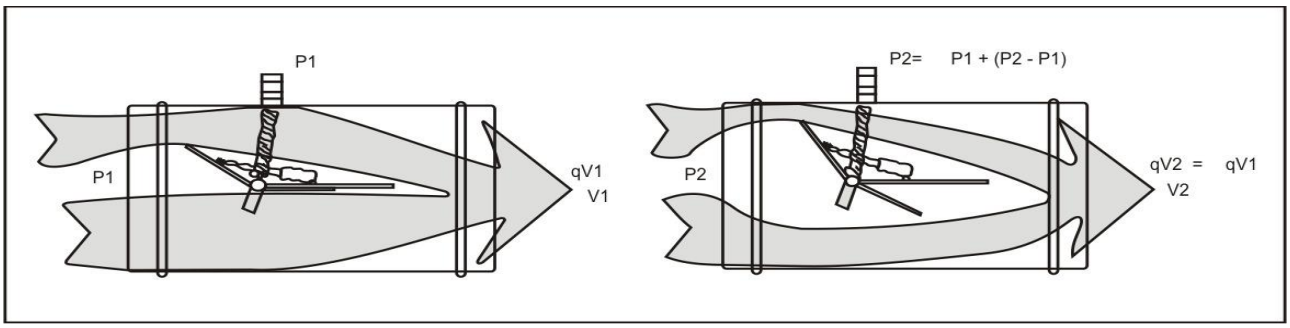
CENKAY TEKNİK

CONSTANT VOLUME UNITS – CAV UNITS - PRISMATIC – CAV-01

USAGE AREA AND FEATURES: It offers easy and economical solutions in systems where constant airflow will be used. Easily adjusted Cav dampers mechanically keep the airflow to the desired value employing a spring. Thanks to its mechanism, it fixes its position against the changing airflow at the desired flow. In the case of changing channel pressure, it prevents the change of flow by increasing or decreasing the pressure loss.

BENEFITS

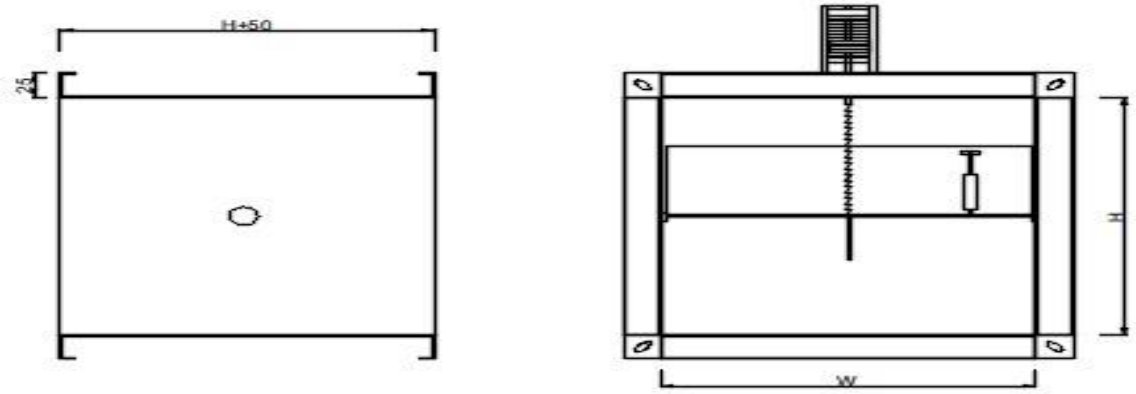
- Adjusts the constant flow rate with changes in airspeed.
- It can be used in suction and blowing lines.
- It is economical compared to motorized dampers.
- Cav dampers, 50 Pa-250 Pa in the range of 2m / s and 10m / s. Between.
- Airflow adjustment can be made on-site with a 2mm Allen key.
- Has an accuracy of ± 10%.
- Optionally, it can be manufactured with insulated and silencer.



Material: Cav Dampers are manufactured from 1mm galvanized plate. Air fins on the body are made of aluminium plate. Air adjustment scale is made of transparent material, air adjustment cover is made by a plastic injection printing method. The shock absorber in the body is designed to prevent vibration in the fins. Spring mechanisms are specially calibrated. There is a coating on the damper to prevent rust. It is produced with 2 wings as the dimensions grow. Damper duct flanges are manufactured as 24mm.

CENKAY TEKNİK

TECHNICAL MEASUREMENT:



EASY SELECTION TABLE AND STANDARD DIMENSIONS

A*B			100	150	200	250	300	350	400	450	500	600	700	800	900	1000
100	MİN	m³/h	75	110	150	180	200	250	300	330	360	430	500	570	650	700
	MAX	m³/h	350	550	700	900	1.000	1.250	1.400	1.600	1.800	2.150	2.500	2.900	3.250	3.600
150	MİN	m³/h	110	150	200	250	300	350	450	490	550	650	750	850	950	1.100
	MAX	m³/h	550	800	1.000	1.300	1.600	1.800	2.100	2.400	2.700	3.250	3.800	4.300	4.850	5.400
200	MİN	m³/h	150	200	300	350	400	500	550	650	750	850	1.000	1.150	1.300	1.450
	MAX	m³/h	700	1.000	1.400	1.800	2.100	2.500	2.800	3.250	3.500	4.300	5.000	5.750	6.500	7.200
250	MİN	m³/h	180	250	350	450	500	600	700	800	900	1.100	1.250	1.450	1.600	1.800
	MAX	m³/h	900	1.300	1.800	2.200	2.600	3.100	3.500	4.000	4.400	5.400	6.300	7.200	8.100	9.000
300	MİN	m³/h	200	300	400	550	600	750	850	950	1.000	1.250	1.500	1.750	2.000	2.150
	MAX	m³/h	1.000	1.600	2.100	2.700	3.200	3.700	4.300	4.800	5.300	6.400	7.500	8.500	9.500	10.800
400	MİN	m³/h	300	450	550	700	850	1.000	1.100	1.300	1.400	1.700	2.000	2.300	2.600	3.000
	MAX	m³/h	1.400	2.100	2.800	3.500	4.300	5.000	5.700	6.500	7.100	8.600	9.900	11.500	13.000	14.000
450	MİN	m³/h	---	490	650	800	950	1.100	1.300	1.450	1.600	1.950	2.250	2.600	2.900	3.250
	MAX	m³/h	---	2.400	3.250	4.000	4.800	5.600	6.500	7.300	8.100	9.700	11.300	12.950	14.500	16.200
500	MİN	m³/h	---	---	750	900	1.000	1.200	1.400	1.600	1.700	2.100	2.500	2.900	3.250	3.600
	MAX	m³/h	---	---	3.500	4.400	5.300	6.200	7.100	8.100	9.000	10.500	12.600	14.400	16.200	18.000
600	MİN	m³/h	---	---	850	1.100	1.250	1.500	1.700	1.950	2.100	2.600	3.000	3.450	3.900	---
	MAX	m³/h	---	---	4.300	5.400	6.400	7.500	8.600	9.700	10.500	13.000	15.100	17.300	19.400	---
700	MİN	m³/h	---	---	---	1.250	1.500	1.800	2.000	2.250	2.500	3.000	3.500	4.000	---	---
	MAX	m³/h	---	---	---	6.300	7.500	8.500	9.900	11.300	12.600	15.100	17.650	20.100	---	---
800	MİN	m³/h	---	---	---	---	1.750	2.000	2.300	2.600	2.900	3.450	---	---	---	---
	MAX	m³/h	---	---	---	---	8.500	9.900	11.500	12.950	14.400	17.300	---	---	---	---
900	MİN	m³/h	---	---	---	---	2.000	2.300	2.600	2.900	3.250	3.900	---	---	---	---
	MAX	m³/h	---	---	---	---	9.500	11.000	13.000	14.500	16.200	19.400	---	---	---	---
1000	MİN	m³/h	---	---	---	---	---	2.500	3.000	3.250	3.600	---	---	---	---	---
	MAX	m³/h	---	---	---	---	---	12.600	14.000	16.200	18.000	---	---	---	---	---

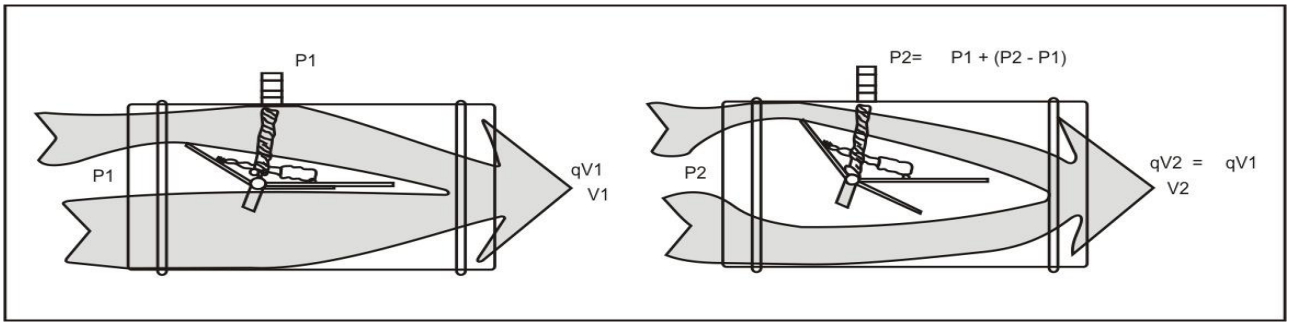
CENKAY TEKNİK

CONSTANT VOLUME UNITS – CAV UNITS - CYLINDRICAL– CAV-02

USAGE AREA AND FEATURES: It offers easy and economical solutions in systems where constant airflow will be used. Easily adjusted Cav dampers mechanically keep the airflow to the desired value employing a spring. Thanks to its mechanism, it fixes its position against the changing airflow at the desired flow. In the case of changing channel pressure, it prevents the change of flow by increasing or decreasing the pressure loss.

BENEFITS

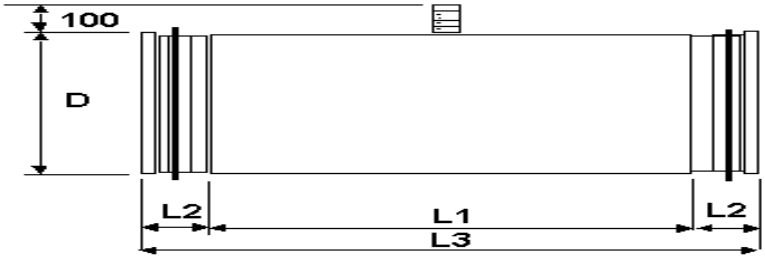
- Adjusts constant flow rate in air velocity changes.
- It can be used in suction and blowing lines.
- It is economical compared to motorized dampers.
- Cav dampers, 50 Pa-250 Pa in the range of 2m / s and 10m / s. Between.
- Airflow adjustment can be made on-site with a 2mm Allen key.
- Has an accuracy of ± 10%.
- Optionally, it can be manufactured with insulated and silence



Material: Cav Dampers are manufactured from 1mm galvanized plate. Air fins on the body are made of aluminium plate. Air adjustment scale is made of transparent material, air adjustment cover is made by a plastic injection printing method. The shock absorber in the body is designed to prevent vibration in the fins. Spring mechanisms are specially calibrated. There is a coating on the damper to prevent rust. It is produced with 2 wings as the dimensions grow. Damper duct flanges are manufactured as 24mm.

CENKAY TEKNİK

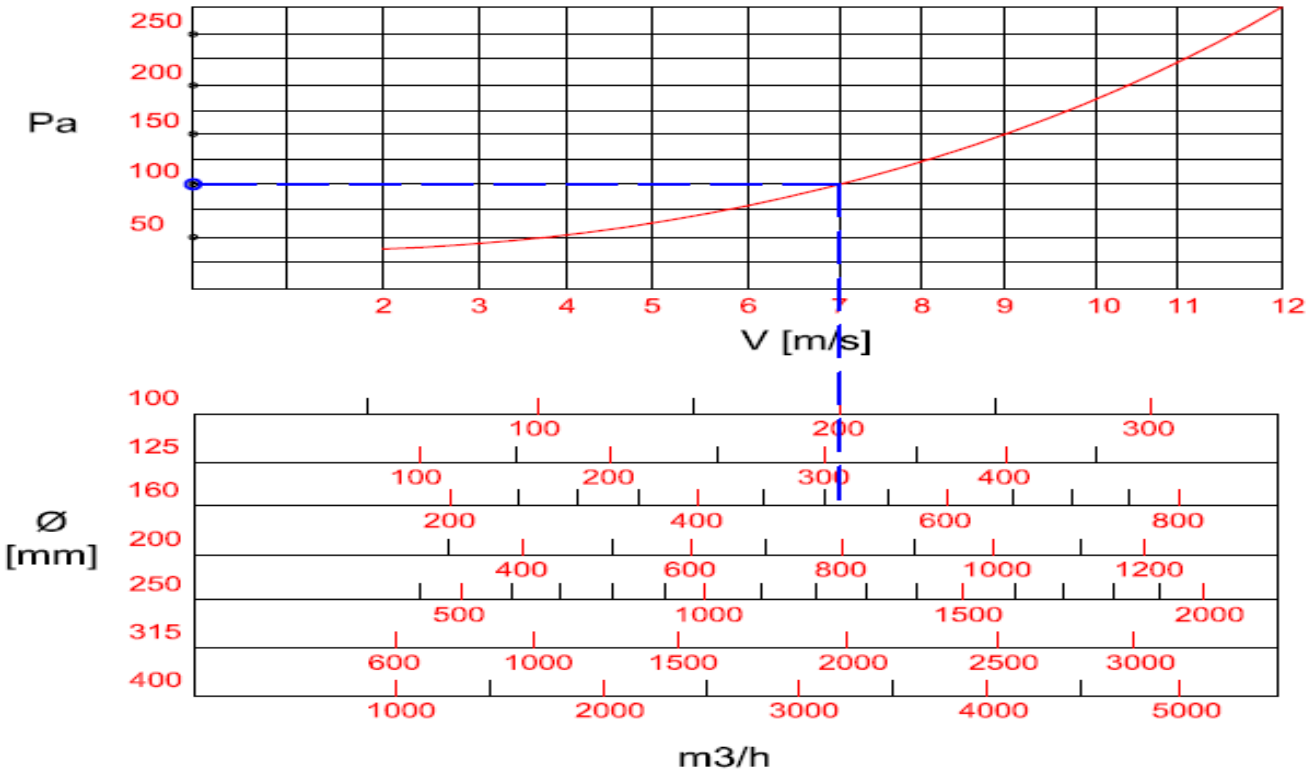
TECHNICAL MEASUREMENT:



CYLINDRICAL CAV QUICK SELECTION TABLE

CKC-01-400												
CKC-01-315												
CKC-01-250												

ELECTION DIAGRAM



CENKAY TEKNİK

SOUND LEVEL

SIZE	Vk	V		ΔPt = 125 Pa									ΔPt = 250 Pa								
				Lw [dB/Oct]									Lw [dB/Oct]								
				fm (Hz)									fm (Hz)								
	(m/s)	(m3/h)	[l/s]	63	125	250	500	1000	2000	4000	8000	LWA [dB(A)]	63	125	250	500	1000	2000	4000	8000	LWA [dB(A)]
100	3	81	23	35	42	39	37	36	35	34	35	41	39	45	45	43	41	40	39	33	48
	6	163	45	43	56	51	47	42	38	37	36	47	45	59	56	52	48	46	45	38	55
	9	244	68	46	56	52	46	41	38	26	36	50	49	64	60	58	52	49	47	40	57
125	3	128	36	41	43	40	38	37	36	35	37	42	46	46	46	44	42	41	40	40	49
	6	257	71	52	60	55	52	46	42	41	41	51	55	63	60	56	52	50	49	48	59
	9	385	107	54	59	55	49	44	41	39	40	53	58	67	63	61	55	52	50	49	60
160	3	212	59	48	49	46	44	43	42	41	42	50	53	52	52	50	48	47	46	43	55
	6	423	118	55	62	57	53	48	44	43	42	53	58	65	62	58	54	52	51	46	61
	9	635	176	56	60	56	50	45	42	40	40	54	60	68	64	62	56	53	51	46	61
200	3	332	92	52	49	46	44	43	42	41	40	48	57	52	52	50	48	47	46	47	55
	6	665	185	61	64	59	55	50	46	45	43	55	64	67	64	60	56	54	53	53	63
	9	997	277	63	63	59	53	48	45	43	42	57	67	71	67	55	69	56	54	54	64

SIZE	Vk	V		ΔPt = 125 Pa									ΔPt = 250 Pa								
				Lw [dB/Oct]									Lw [dB/Oct]								
				fm (Hz)									fm (Hz)								
	(m/s)	(m3/h)	[l/s]	63	125	250	500	1000	2000	4000	8000	LWA [dB(A)]	63	125	250	500	1000	2000	4000	8000	LWA [dB(A)]
250	3	521	145	57	52	49	47	46	45	44	43	51	61	55	55	53	51	50	49	49	58
	6	1043	290	64	65	60	56	51	47	46	43	56	66	68	55	61	57	55	54	53	64
	9	1564	434	66	54	60	54	49	46	44	42	58	69	72	68	66	60	57	55	54	65
315	3	831	231	57	52	49	47	46	45	45	41	51	59	49	44	46	47	49	42	47	58
	6	1661	461	68	69	64	60	55	51	51	46	60	68	66	58	58	57	58	51	55	68
	9	2492	692	68	66	62	56	51	48	47	43	50	69	68	65	62	59	57	55	54	67
355	3	1056	293	57	52	49	47	46	45	44	42	51	62	55	55	53	51	50	49	49	58
	6	2113	587	67	68	63	59	54	50	49	44	59	60	61	57	54	60	58	57	56	67
	9	3169	880	70	68	64	58	53	49	48	44	62	74	76	72	70	64	61	59	58	69
400	3	1343	373	59	54	51	49	48	47	46	44	53	66	57	57	55	53	52	51	51	60
	6	2686	746	68	69	64	60	55	51	50	46	60	73	72	69	65	61	59	58	57	68
	9	4029	1119	74	72	68	62	57	54	52	49	66	80	80	76	74	68	65	63	62	73

CENKAY TEKNİK

FIRE DAMPERS - PRISMATIC– CKY-01

AREAS OF USE AND FEATURES: CKY-01 it is used in hvac systems to prevent fire transitions between locations in suction and blowing ducts. In general use, it is kept in an open position. It can be used as motorized and insured.

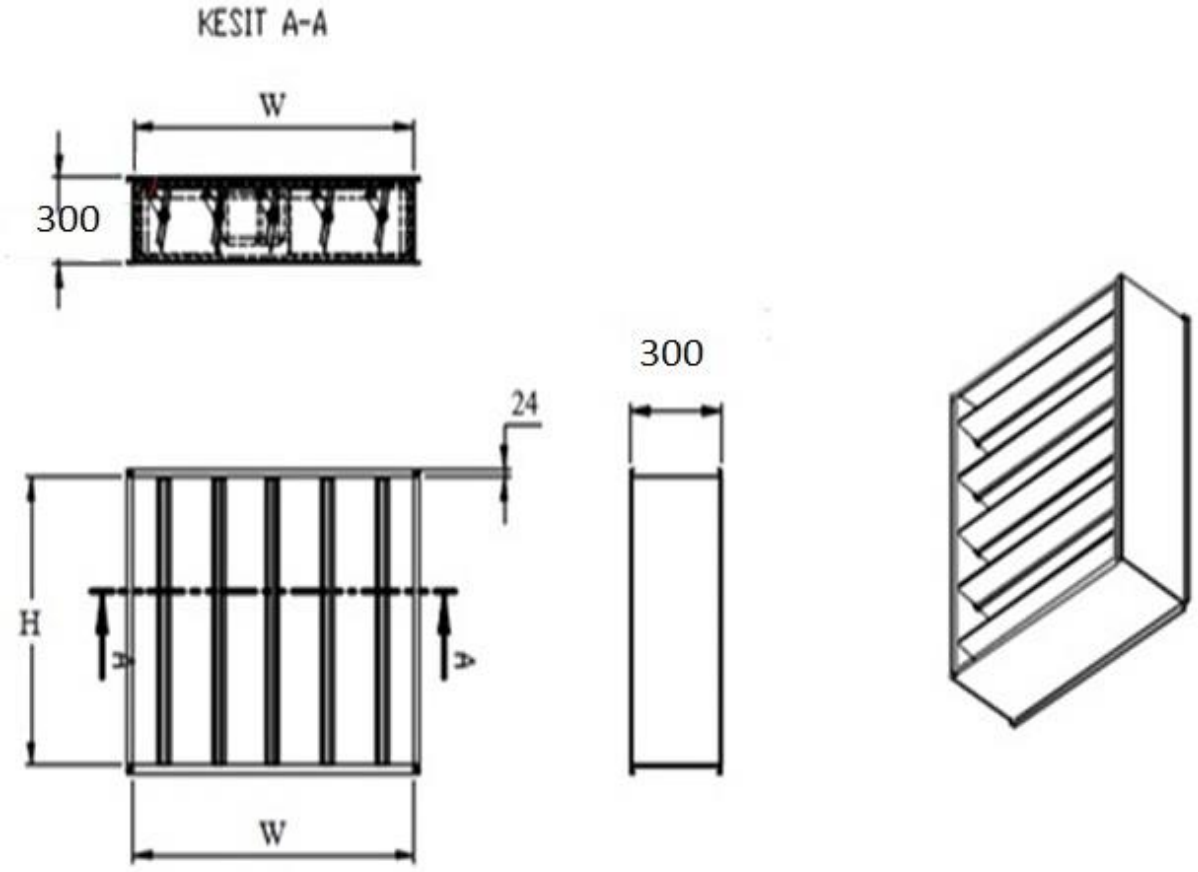
MATERIAL: CKY-01 Fire dampers body 1.2 mm. it is produced from the galvanized plate by cold rivet method. Wing structures according to their sizes 100 -150 -200 -250 mm. It is made of 1.2 mm galvanized plate in widths. The wings on the body are centred by means of specially manufactured bushings. In the fused models, there is an intervention cover on the body. Fuse breaks automatically at 72 ° C

INSTALLATION: Bolted as standard.

COATING: Galvanized sheet metal

CKY-01/01AFIRE DAMPERS PRISMATIC STANDARTD DIMENSIONS	
W	100 – 200 – 300 – 400 – 500 – 600 – 700 – 800 – 900 – 1000 – 1100 – 1200 – 1300 – 1400 – 1500
H	100 – 200 – 300 – 400 – 500 – 600 – 700 – 800 – 900 – 1000

CKY-01 FIRE DAMPERS



CENKAY TEKNİK

FIRE DAMPERS - PRISMATIC– CKY-01A

AREAS OF USE AND FEATURES: CKY-01 / 01A it is used in HVAC systems to prevent fire transitions between locations in suction and blowing ducts. In general use, it is kept in an open position. It can be used as motorized and insured.

MATERIAL: CKY-01A Fire dampers body 1.2 mm. It is produced from the galvanized plate by cold rivet method. blades are manufactured from 1.2 mm galvanized plate and 50kg / m3 rock wool filled and single wing. The wing is centred on the body by means of specially manufactured bushings. In the fused models, there is an intervention cover on the body. Fuse breaks automatically at 72 ° C

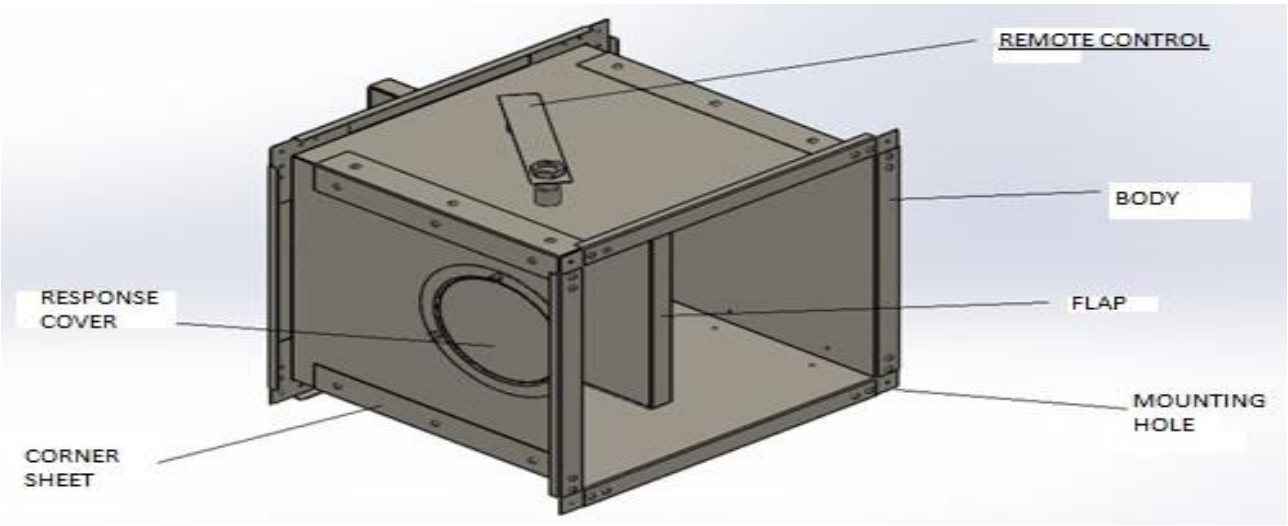
INSTALLATION: Bolted as standard.

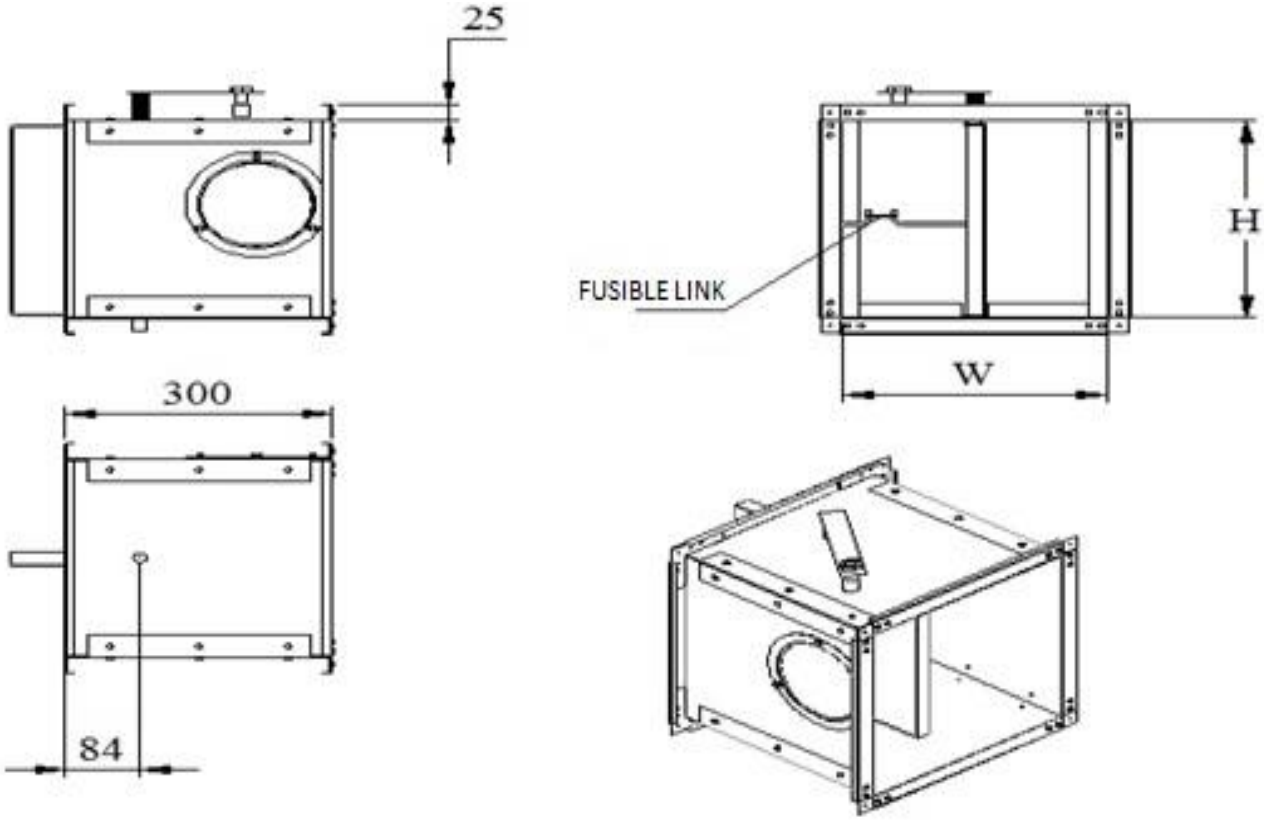
COATING: Galvanized sheet metal

CKY-01/01AFIRE DAMPERS PRISMATIC STANDARTD DIMENSIONS	
W	100 – 200 – 300 – 400 – 500 – 600 – 700 – 800 – 900 – 1000 – 1100 – 1200 – 1300 – 1400 – 1500
H	100 – 200 – 300 – 400 – 500 – 600 – 700 – 800 – 900 – 1000

CKY-01 FIRE DAMPERS

CKY-01A FIRE DAMPERS





CENKAY TEKNİK

FIRE DAMPER CYLINDRICAL– CKY-02

CKY-02 –S

CKY-02-M

PLACE OF USE AND FEATURES: CKY-02-02M is used in hvac systems to prevent fire transitions between locations in suction and blowing ducts. In general use, it is kept in an open position. It can be used as motorized and insured.

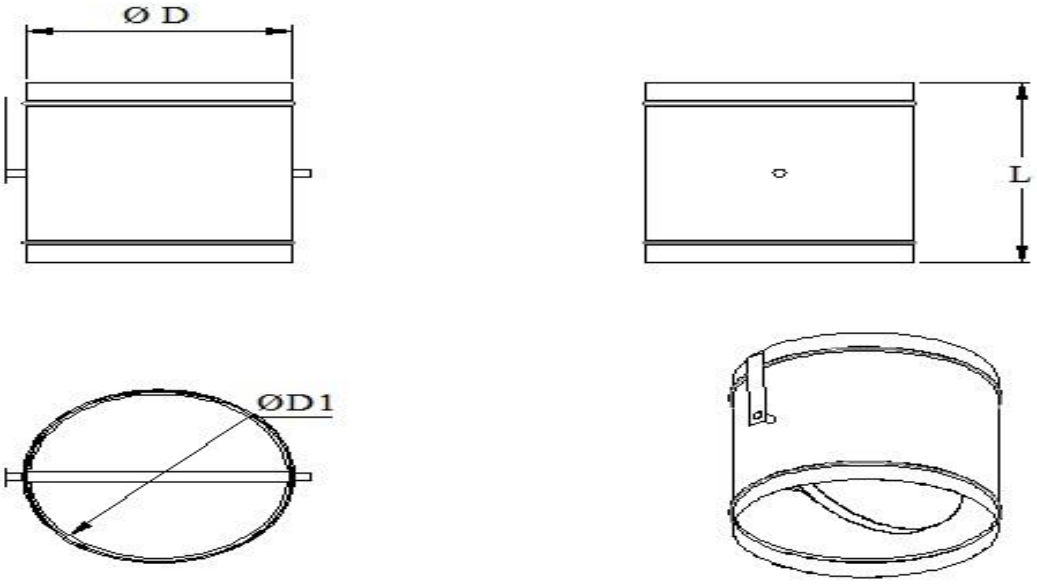
MATERIAL: CKY-02-02M Fire dampers body 1.2 mm. It is manufactured with seam welding from the galvanized plate. The wing structures are made of 1.2mm galvanized plate covered with 30mm thick 50kg / m3 rock wool. The wings on the body are centred by means of specially manufactured bushings. In the fused models, there is an intervention cover on the body. Fuse breaks automatically at 72 ° C

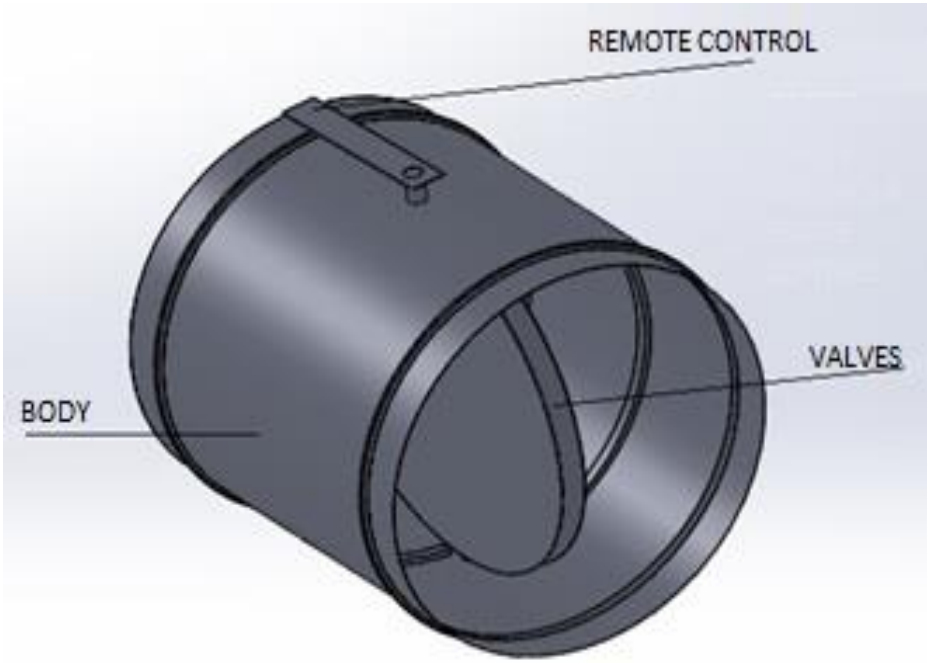
INSTALLATION: With mortise as standard.

COATING: Galvanized sheet metal

CENKAY TEKNİK

CKY-02 FIRE DAMPER CYLINDRICAL STANDARD DIMENSIONS									
DIMENSIONS(mm)	**160**	**180**	**200**	**225**	**250**	**280**	**300**	**350**	**400**
∅D (mm)	160	180	203	229	254	280	305	356	406
L (mm)	210	230	250	275	300	330	350	400	450
∅D1(mm)	190	210	230	255	280	310	330	380	430

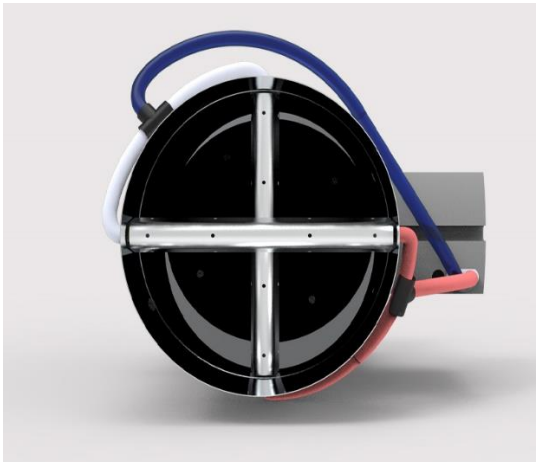


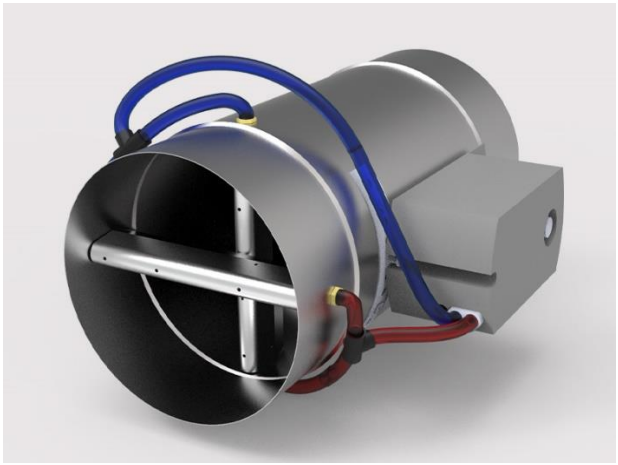


CENKAY TEKNİK

CENKAY TEKNİK

VAV UNITS – VARIABLE VOLUME UNITS –CILINDRICAL - CKV-01





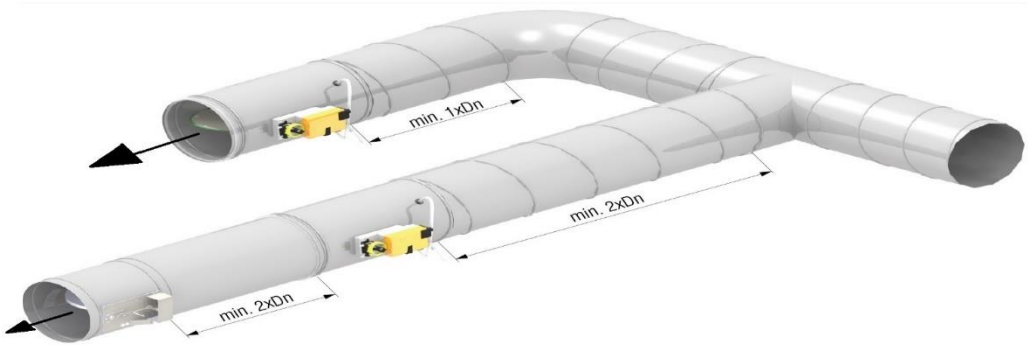
AREAS OF USAGE AND FEATURES: It is used with automation in ventilation systems. It provides ease of use in situations where the airflow needs to be changed optionally. It provides ease of use in intensive care units, operating theatres, buildings where savings and comfort are sought. The degree of sealing complies with EN 1751 Class –C. It is controlled by a servo motor.

MATERIAL: CKV-01 VAV Damper Body 1 mm. It is produced from the galvanized plate by welding method. Damper blade 2mm. It is made of the galvanized plate with leakproof seal. Elements that provide damper sensitivity are used from automat material. A specially designed servo motor is used as the main control element.

INSTALLATION: Bolted as standard.

COATING: Galvanized sheet metal

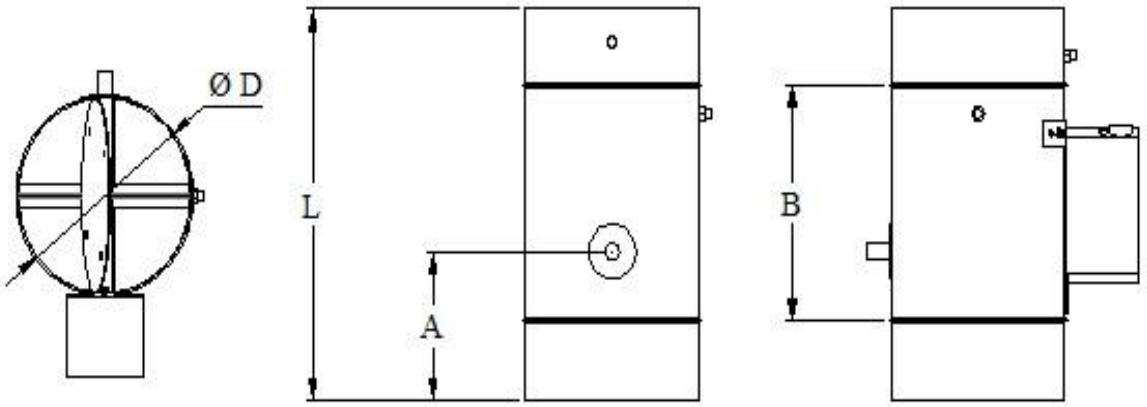
CKV-01 VAV DAMPER MOUNTING

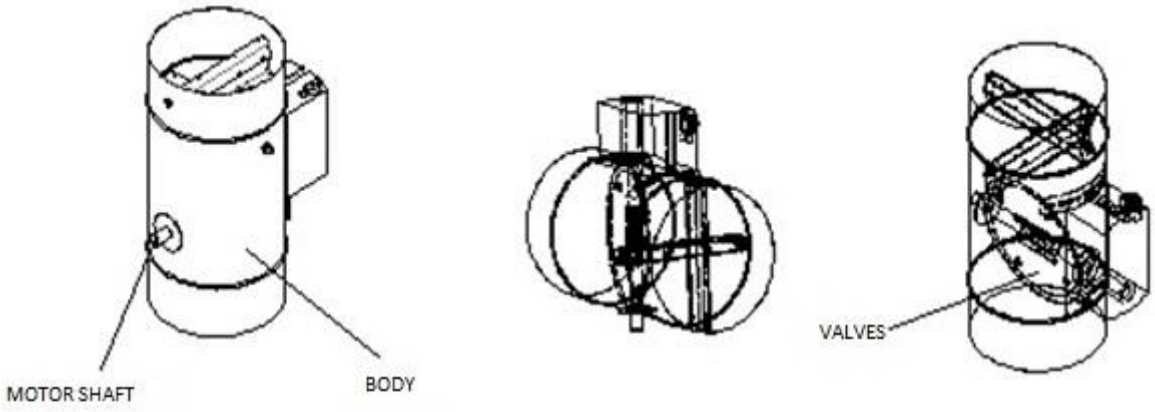


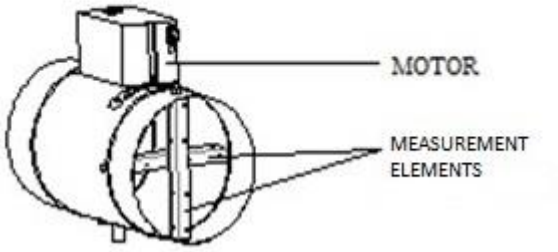
STANDARD DIMENSIONS

CENKAY TEKNİK

MODEL	CKV-100	CKV-125	CKV-150	CKV-200	CKV-250	CKV-315	CKV-355	CKV-400	CKV-500
Ø D	98	125	148	198	248	313	353	398	498
L	330	350	400	430	480	530	580	630	700
A	105	120	140	155	180	205	230	255	305
B	210	230	280	310	360	410	460	510	580







			FOR SUCTION DUCT	FOR BLOW DUCT

CENKAY TEKNİK

MODEL	AIR SPEED m/s.	AIR FLOW m3/h	125 Pa - 250 HZ		250 Pa - 250 HZ		500 Pa - 250 HZ		750 Pa - 250 HZ		125 Pa - 250 HZ		250 Pa - 250 HZ		500 Pa - 250 HZ		750 Pa - 250 HZ	
			Pa	dBA	Pa	dBA	Pa	dBA	Pa	dBA	Pa	dBA	Pa	dBA	Pa	dBA	Pa	dBA
CK-100	2	55	*	44	*	48		51	21	54	*	*	*	23	*	29	*	33
	4	110	*	50	20	53	25	57	27	59	*	23	*	30	*	36	23	40
	6	160	22	54	25	57	29	60	31	62	*	27	*	34	23	40	27	44
	8	215	26	58	28	60	32	63	34	65	*	30	*	37	26	43	30	47
	10	270	29	61	32	63	34	65	37	67	*	32	21	39	28	45	32	49
	12	320	32	64	34	65	37	67	39	69	*	34	23	41	30	47	33	51
CK-125	2	84	*	43	*	47		52	21	54	*	24	*	31	*	37	*	41
	4	168	*	49	20	53	25	57	27	60	*	31	*	38	*	44	23	48
	6	253	22	54	25	57	29	61	31	63	*	35	*	42	23	48	27	52
	8	337	22	58	28	60	32	64	34	66	*	38	*	45	26	51	30	55
	10	421	25	61	32	63	34	66	37	68	*	40	21	47	28	53	32	57
	12	505	29	64	34	66	37	69	39	70	*	42	23	49	30	55	33	59
CK-160	2	139	*	41	*	47	*	52	23	55	*	24	*	31	*	37	*	41
	4	279	*	48	20	53	26	58	30	61	*	31	*	38	*	44	23	48
	6	418	*	52	24	57	30	62	34	65	*	35	*	42	23	48	27	52
	8	558	24	56	28	60	34	65	37	68	*	38	*	45	26	51	30	55
	10	697	28	60	32	63	36	67	40	70	*	40	21	47	28	53	32	57
	12	836	31	63	35	66	39	69	42	72	*	42	23	49	30	55	33	59
CK-200	2	219	*	41	*	46	*	51	21	54	*	24	*	31	*	37	*	41
	4	440	*	48	21	54	27	59	31	62	*	31	*	38	*	44	23	48
	6	656	21	52	27	59	33	64	36	67	*	35	*	42	23	48	27	52
	8	880	26	56	31	63	37	67	40	70	*	38	*	45	26	51	30	55
	10	1100	30	60	35	66	40	70	43	73	*	40	21	47	28	53	32	57
	12	1320	33	63	38	68	43	72	46	75	*	42	23	49	30	55	33	59
CK-250	2	345	*	43	*	38	*	43	*	46	*	24	*	31	*	37	*	41
	4	690	*	51	*	49	20	53	23	56	*	31	*	38	*	44	23	48

	6	1040	*	56	22	55	27	59	30	61	*	35	*	42	23	48	27	52
	8	1380	23	60	27	59	32	63	35	66	*	38	*	45	26	51	30	55
	10	1725	27	63	31	63	36	67	39	69	*	40	21	47	28	53	32	57
	12	2070	31	66	35	66	39	70	42	72	*	42	23	49	30	55	33	59
CK-315	2	550	*	45	*	47	*	52	22	55	*	24	*	31	*	37	*	41
	4	1100	*	52	23	55	28	60	32	63	*	31	*	38	*	44	23	48
	6	1650	23	57	28	60	34	65	37	68	*	35	*	42	23	48	27	52
	8	2200	28	61	33	64	38	68	41	71	*	38	*	45	26	51	30	55
	10	2752	32	64	36	67	41	71	44	74	*	40	21	47	28	53	32	57
	12	3300	36	67	39	70	44	73	47	76	*	42	23	49	30	55	33	59
CK-355	2	701	*	52	*	50	22	55	26	58	*	24	*	31	*	37	*	41
	4	1401	*	56	24	56	29	61	33	64	*	31	*	38	*	44	23	48
	6	2100	24	60	28	60	34	65	37	67	*	35	*	42	23	48	27	52
	8	2803	29	63	33	64	37	68	40	70	*	38	*	45	26	51	30	55
	10	3503	34	66	36	67	40	70	43	72	*	40	21	47	28	53	32	57
	12	4200	39	69	40	69	43	72	45	75	*	42	23	49	30	55	33	59
CK-400	2	891	*	54	24	57	31	62	34	65	*	24	*	31	*	37	*	41
	4	1783	24	58	29	61	35	66	39	69	*	31	*	38	*	44	23	48
	6	2674	28	62	32	64	38	68	41	71	*	35	*	42	23	48	27	52
	8	3565	32	65	35	66	40	70	44	73	*	38	*	45	26	51	30	55
	10	4456	36	68	38	69	43	72	45	75	*	40	21	47	28	53	32	57
	12	5350	40	71	42	71	45	74	47	76	*	42	23	49	30	55	33	59
CK-500	2	905	21	56	27	59	33	64	37	67	*	24	*	31	*	37	*	41
	4	1810	26	60	31	63	37	68	41	71	*	31	*	38	*	44	23	48
	6	2712	30	64	35	66	40	70	44	73	*	35	*	42	23	48	27	52
	8	3620	34	67	38	68	43	72	46	75	*	38	*	45	26	51	30	55
	10	4520	37	70	41	71	45	74	48	77	*	40	21	47	28	53	32	57
	12	5425	42	73	43	73	47	76	50	78	*	42	23	49	30	55	33	59

CENKAY TEKNİK

VARIBLE VOLUME UNITS – PRISMATIC - VAV – CKV-02

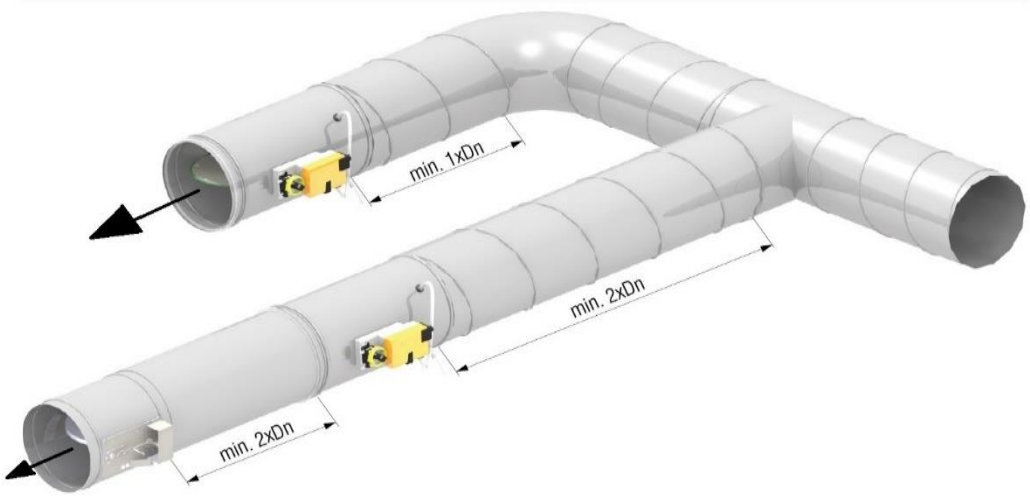
AREAS OF USAGE AND FEATURES: It is used with automation in ventilation systems. It provides ease of use in situations where the airflow needs to be changed optionally. Ease of use is provided in intensive care units, operating theatres, buildings where savings and comfort are sought. The degree of sealing complies with EN 1751 Class –C. It is controlled by servomotor.

MATERIAL: CKV-02 VAV Damper Body 1 mm. It is manufactured from the galvanized plate without a bolt-nut method without welding. Damper blade 1.5 mm. It is manufactured from the aluminium profile with a sealed gasket. Elements that provide damper sensitivity are used from the aluminium profile. A Specially designed servomotor is used as the main control element.

INSTALLATION: bolted as standard.

COATING: Your body is made of galvanized coated sheet metal, blades are made of Al.profil.

CKV-02 VAV DAMPER MOUNTING



STANDARD DIMENSIONS

L (cm.)	H (cm)	W (cm.)												
		20	30	35	40	45	50	60	70	75	80	85	90	100
35	15	*	*	*	*	*	*	*						
35	20	*	*	*	*	*	*	*	*	*	*			
35	25		*	*	*	*	*	*	*	*	*	*		
35	30		*	*	*	*	*	*	*	*	*	*	*	*
35	35			*	*	*	*	*	*	*	*	*	*	*
35	40				*	*	*	*	*	*	*	*	*	*

VAV DAMPERS ARE MANUFACTURED WITH STANDARD 30 mm.

SOUND AND PRESSURE LOSSES

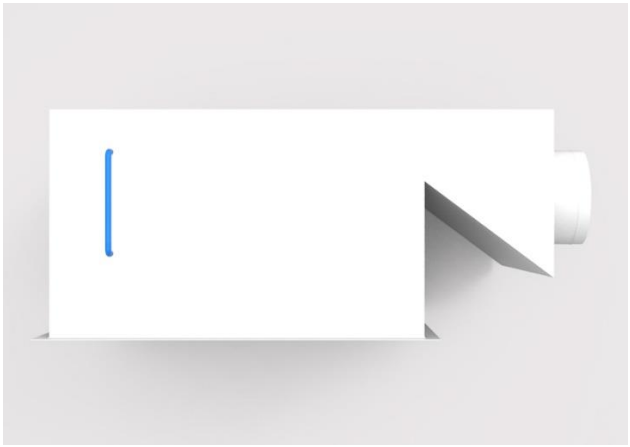
CENKAY TEKNİK

W*H	AIR SPEED THAT VAV DAMPER (m/s)	AIR FLOW (m3/h)	LOST SOUND LEVEL (dBA) SUCTION - BLOWING FOR 250Pa AIR SUCTION - AIR BLOW		AUDITABLE SOUND LEVEL (dBA) - FOR 250 Pa AIR SUCTION - AIR BLOW	
35*30	2	770	17	17	43	36
	4	1.521	20	16	54	47
	6	2.262	30	28	63	56
	8	3.013	31	29	63	57
	10	3.787	26	24	60	53
	12	4.550	24	21	57	50
35*35	2	890	20	15	42	35
	4	1.755	20	15	53	47
	6	1.655	30	28	61	55
	8	3.534	29	28	61	54
	10	4.458	26	25	58	52
	12	5.351	36	36	60	56
40*40	2	1.152	24	21	45	38
	4	2.301	23	21	56	49
	6	3.466	33	30	64	57
	8	4.613	34	31	65	58
	10	5.762	30	28	62	55
	12	6.915	29	26	60	53
50*40	2	1.442	21	20	44	37
	4	2.883	25	23	58	51
	6	4.356	34	31	65	58
	8	5.801	32	29	63	56
	10	7.153	28	26	60	53
	12	8.690	27	24	58	51
60*40	2	1.739	21	19	43	36
	4	3.461	23	21	56	49
	6	5.181	33	30	64	57
	8	6.911	32	29	63	56
	10	8.649	30	28	62	55
	12	10.375	29	26	60	53
80*40	2	2.301	22	20	44	37
	4	4.611	23	21	56	49
	6	6.915	35	32	66	59
	8	9.222	33	30	64	57
	10	11.526	30	28	62	55
	12	13.822	29	26	60	53

CENKAY TEKNİK

HEPA FILTER BOX – CKF-01 /CKF-01A

CKF-01



CKF-01A

AREAS OF USAGE AND FEATURES: CKF-01/01A Hepa filter boxes are used together with HEPA filter and diffuser in places where hygiene is required. Hepa filter is manufactured in a structure with a full leak-proof feature. Since the filter and diffuser must be removed frequently, they are easy to install. Hepa filter boxes are manufactured in two ways as side or top, considering the conditions in the worksite environment. The Additional blind case is used in clip-in ceiling applications.

MATERIAL: It is manufactured as welded from 1,2 mm DKP plate as standard. Box surfaces are covered with electrostatic paint. Optionally, it can be manufactured from 1.2 mm stainless plate.

INSTALLATION: Diffuser assembly is bolted from the hub as standard.

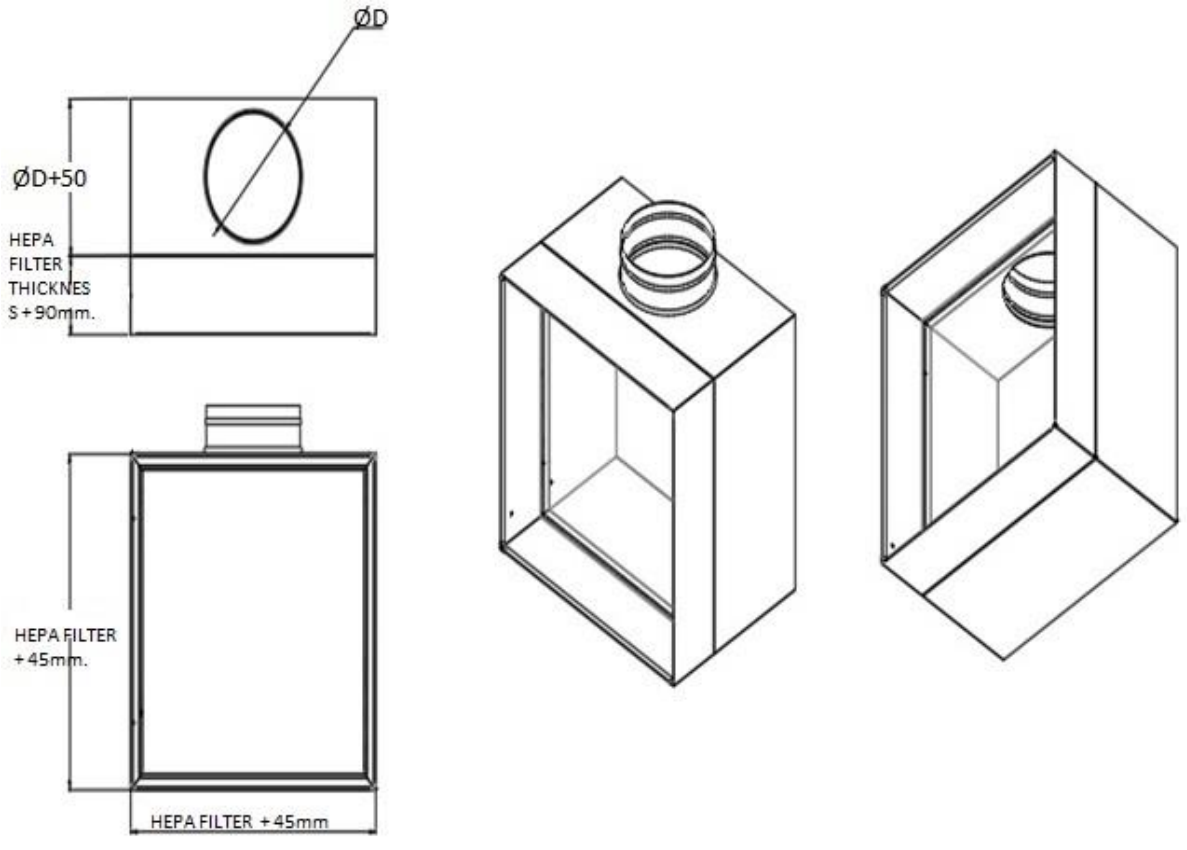
COATING: Electrostatic painted or 304 stainless

ACCESSORIES: Regulatory damper, Hepa filter, Diffuser

CENKAY TEKNİK

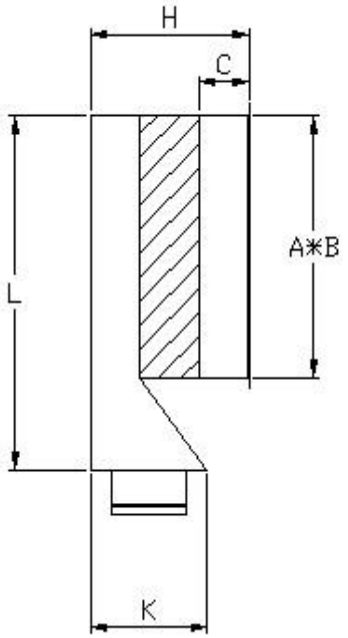
TECHNICAL MEASUREMENT

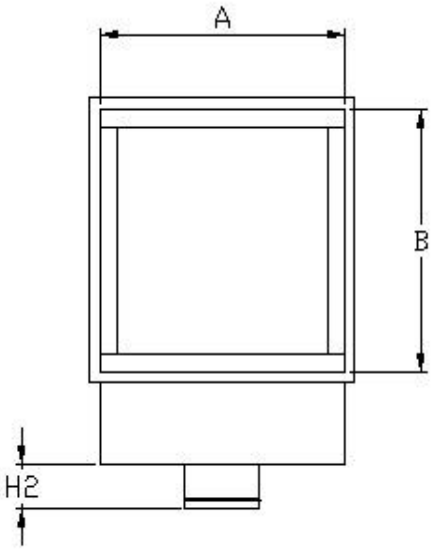
CKF-01 - HEPA FILTER BOX WITH SIDE ENTRY:

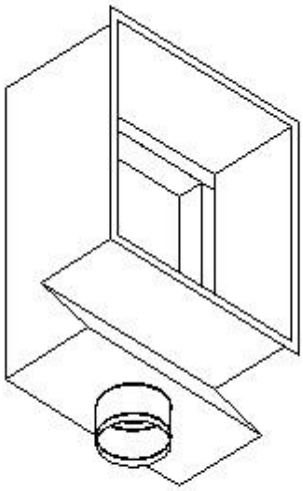


CENKAY TEKNİK

CKF-01A - SIDE INLET HEPA FILTER BOX:



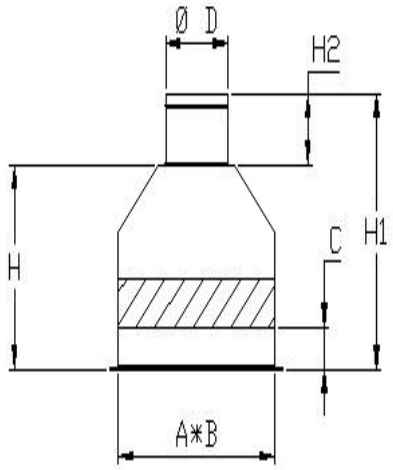


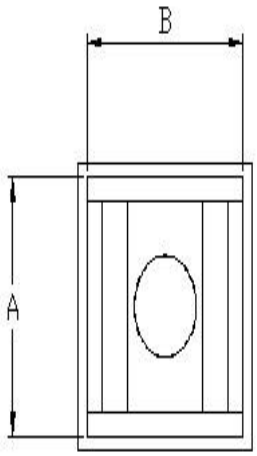


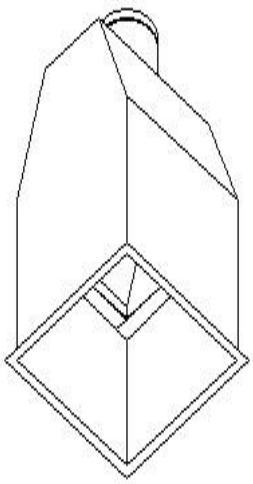
HEPA FILTER BOX SIDE ENTRY (H13 HEPA FILTER)										
HEPA FILTER DIMENSIONS	SURFACE AREA (m2)	AIR FLOW (m3 / h)	PRESSURE LOSS (Pa)	A	B	C	Ø D	H	K	H2
305*305*78	2,5	150	110	345	345	100	145	291	195	100
457*457*78	5,6	335	110	497	497	100	195	316	245	100
535*535*78	9,1	460	110	575	575	100	195	316	245	100
575*575*78	9,7	535	110	615	615	100	195	316	245	100
305*610*78	5,1	300	110	345	650	100	195	316	245	100
457*610*78	7,2	450	110	497	650	100	195	316	245	100
610*610*78	10,2	610	110	650	650	100	195	316	245	100
610*762*78	12,5	750	110	650	800	100	195	316	245	100
610*915*78	15,1	900	110	650	955	100	250	343	300	100
610*1220*78	20,6	1200	110	650	1260	100	315	376	365	100
305*305*149	3,8	250	250	345	345	100	145	362	195	100
457*457*149	8,5	560	250	497	497	100	195	387	245	100
535*535*149	12,9	770	250	575	575	100	195	387	245	100
575*575*149	13,8	900	250	615	615	100	195	387	245	100
305*610*149	7,5	500	250	345	650	100	195	387	245	100
457*610*149	9,9	750	250	497	650	100	195	387	245	100
610*610*149	14,9	1000	250	650	650	100	195	387	245	100
610*762*149	18,6	1250	250	650	800	100	195	387	245	100
610*915*149	22,4	1560	250	650	955	100	250	414	300	100
610*1220*149	29,8	2000	250	650	1260	100	315	447	365	100

CENKAY TEKNİK

TOP ENTRY HEPA FILTER BOX:







HEPA FILTER BOX SIDE ENTRY (H13 HEPA FILTER)										
HEPA FILTER DIMENSIONS	SURFACE AREA (m2)	AIR FLOW (m3 / h)	PRESSURE LOSS (Pa)	A	B	C	Ø D	H	H1	H2
305*305*78	2,5	150	110	345	345	100	145	240	340	100
457*457*78	5,6	335	110	497	497	100	195	240	340	100
535*535*78	9,1	460	110	575	575	100	195	240	340	100
575*575*78	9,7	535	110	615	615	100	195	240	340	100
305*610*78	5,1	300	110	345	650	100	195	240	340	100
457*610*78	7,2	450	110	497	650	100	195	240	340	100
610*610*78	10,2	610	110	650	650	100	195	240	340	100
610*762*78	12,5	750	110	650	800	100	195	240	340	100
610*915*78	15,1	900	110	650	955	100	250	240	340	100
610*1220*78	20,6	1200	110	650	1260	100	315	240	340	100
305*305*149	3,8	250	250	345	345	100	145	311	411	100
457*457*149	8,5	560	250	497	497	100	195	311	411	100
535*535*149	12,9	770	250	575	575	100	195	311	411	100
575*575*149	13,8	900	250	615	615	100	195	311	411	100
305*610*149	7,5	500	250	345	650	100	195	311	411	100
457*610*149	9,9	750	250	497	650	100	195	311	411	100
610*610*149	14,9	1000	250	650	650	100	195	311	411	100
610*762*149	18,6	1250	250	650	800	100	195	311	411	100
610*915*149	22,4	1560	250	650	955	100	250	311	411	100
610*1220*149	29,8	2000	250	650	1260	100	315	311	411	100

CENKAY TEKNİK

FIBER HOLDER FILTER – CKF-02

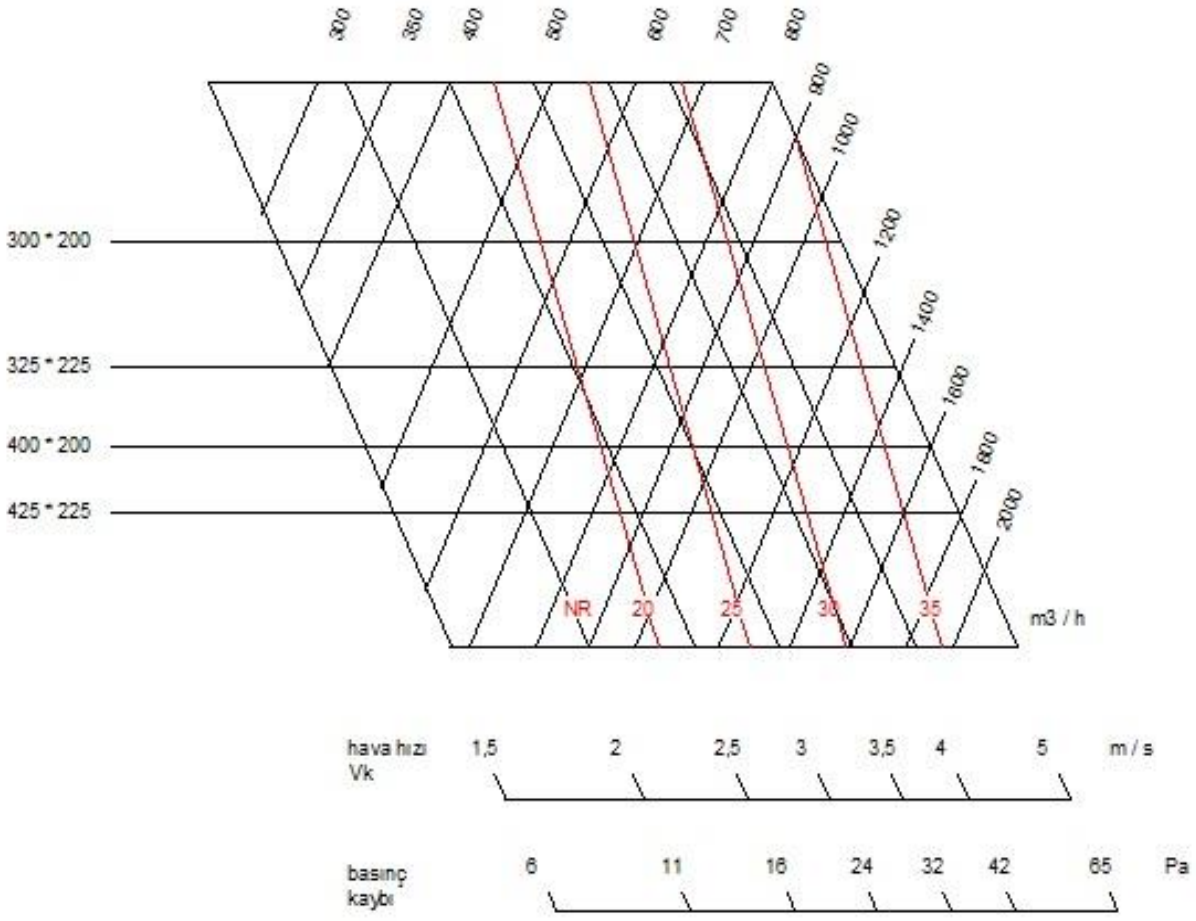
AREAS OF USAGE AND FEATURES: It is used as a suction grille in HVAC systems and operating room, intensive care rooms, clean rooms, laboratories and textile companies where hygiene is important. It prevents the particles in the absorbed air from accumulating in the channel and causing damage to the device and collecting on the grill. The grille part is easily removed and installed during cleaning

MATERIAL: Optionally, it is manufactured from 304-316 stainless material. Filter pore structure complies with DIN 4185 standards

INSTALLATION: Without screws as standard

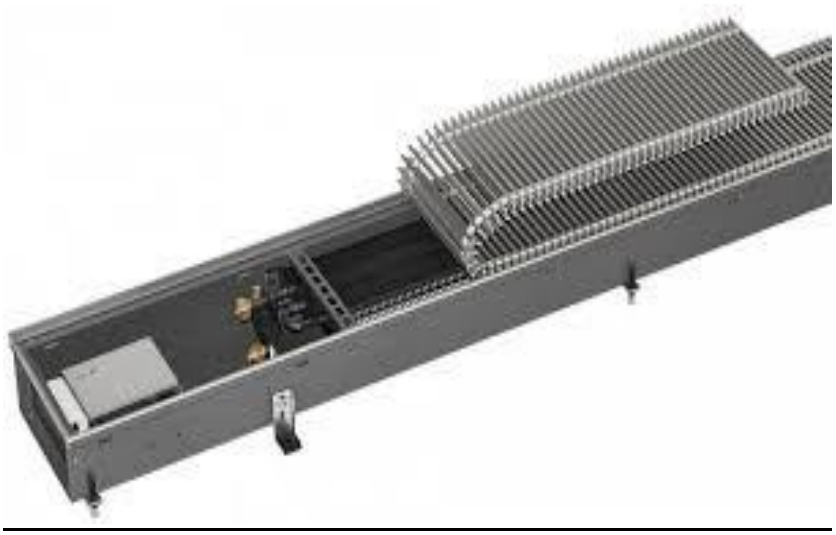
COAT: 304-316 Stainless

CENKAY TEKNİK



CENKAY TEKNİK

FLOOR CONVECTOR - NATURAL CONVECTION - CKYK-01



CKYK-01

Material: The body is made of aluminium or galvanized material in black. The blades can be made of anodized material or made of wood. The wings are manufactured parallel to the short edge. It can be manufactured with or without a frame of 10 mm-22mm-32 mm upon request. The batteries used in the device are 1/2 ” PN16 class copper tube and aluminium fins. Easy-to-use levelling bolts are used in flooring applications. In devices with forced convection, 24v or 230v -50 Hz low noise level tangential fans are used. Functionally, electronic cards are used in the devices. With the electronic card, fan motors can be used in two stages and motorized valves can be controlled.

Place of Use: It can be used with forced convection in heating and cooling in HVAC systems. Floor convectors are devices that can be used as an alternative to underfloor heating systems. Wall applications are not required like old generation devices. The devices placed under the floor have a stylish appearance with metallic or wooden grilles following architectural applications. Since the wings are parallel to the short edge, their load carrying capacity is high. Hot water or cold water can be used in the device. Forced convection floor convectors can be used as a primary heater and main heater. Forced convection floor convectors are used to prevent evaporation on glass surfaces and to reduce the heat load of the environment.

Assembly: Screwless as standard.

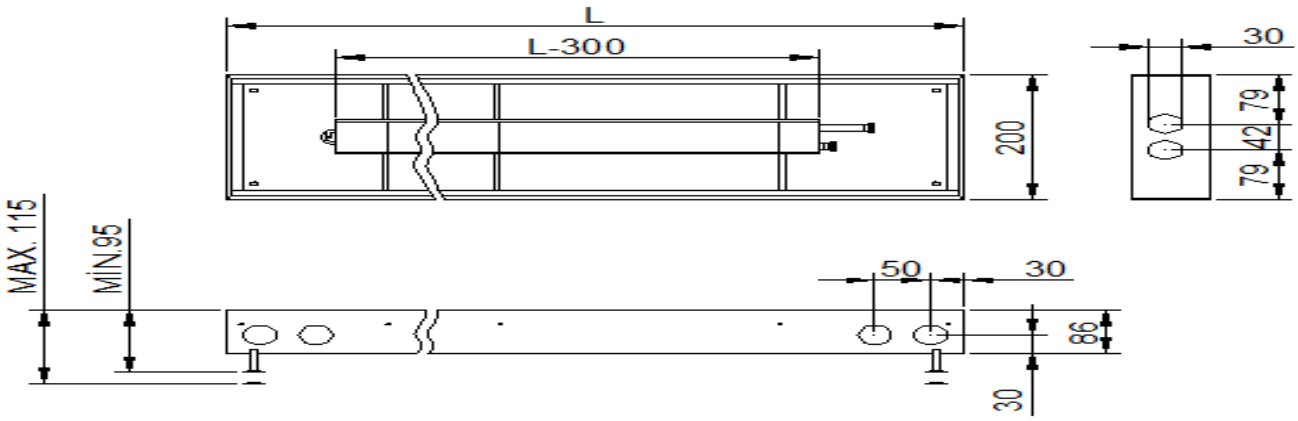
Coating: Painted

CENKAY TEKNİK

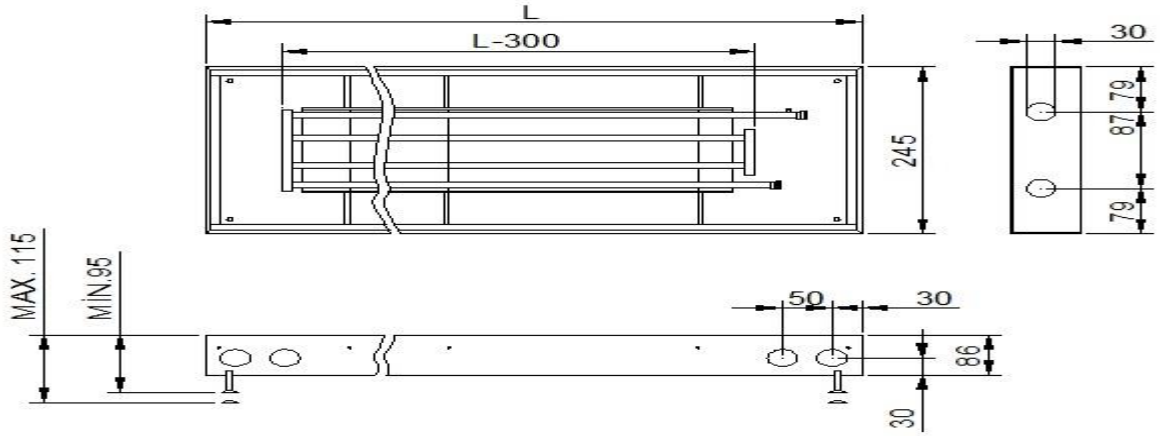
CKYK- 01 – FLOOR CONVECTOR WITH NATURAL CONVECTION

TECHNICAL MEASUREMENT

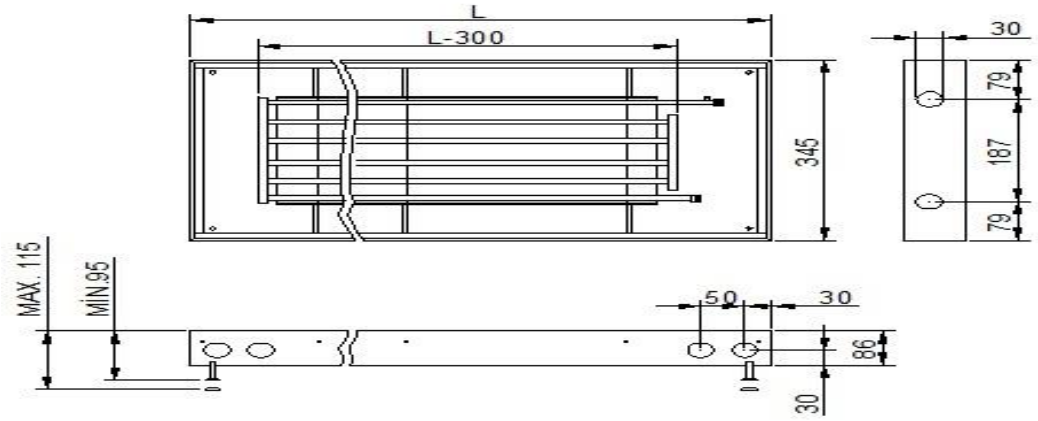
CKYK – 01 A



CKYK – 01 B



CKYK – 01 C



CKYK – 1A – 1B – 1C SELECTION CHART FOR FLOOR CONVECTORS WITH NATURAL CONVECTION

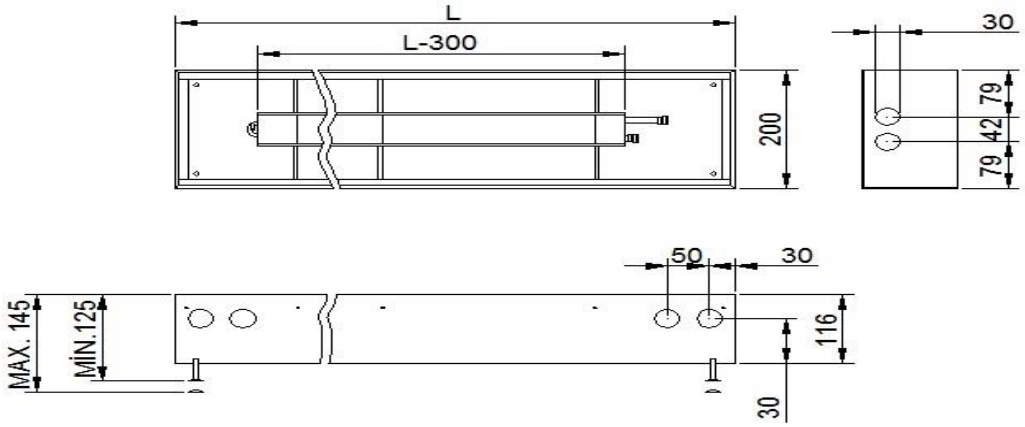
SUPPLY INLET AND OUTLET WATER TEMPERATURE		70 ˚C - 90 ˚C			60 ˚C - 80 ˚C			55 ˚C - 70 ˚C			40 ˚C - 55 ˚C		
CONVECTOR MODEL		YK - 1A	YK - 1B	YK - 1C	YK - 1A	YK - 1B	YK - 1C	YK - 1A	YK - 1B	YK - 1C	YK - 1A	YK - 1B	YK - 1C
CONVECTOR DIMENSIONS mm. (W/H)		1R/2T-200*86	1R/4T - 245*86	1R/6T - 345*86	1R/2T-200*86	1R/4T - 245*86	1R/6T - 345*86	1R/2T-200*86	1R/4T - 245*86	1R/6T - 345*86	1R/2T-200*86	1R/4T - 245*86	1R/6T - 345*86
CONVECTOR LENGTH mm. (W)	SERPANTINE LENGTH mm (L)	CONVECTOR HEATING CAPACITIES (W)											
1000	700	241	367	536	199	304	444	171	262	383	106	167	246
1250	950	327	491	735	268	406	598	230	349	514	141	224	331
1500	1200	391	611	922	338	506	723	289	437	620	179	281	399
1750	1450	492	765	1088	406	604	876	348	521	759	215	336	469
2000	1700	574	955	1158	474	730	949	406	631	815	252	406	502
2250	1950	663	1014	1317	540	783	1084	462	686	930	286	430	567
2500	2200	747	1065	1373	574	846	1134	491	740	972	309	454	594
2750	2450	811	1109	1423	605	901	1179	516	779	1010	323	474	618
3000	2*1200	781	1222	1844	674	1012	1447	578	873	1241	359	561	800
3500	2*1400	985	1529	2176	811	1208	1751	695	1042	1518	430	670	938
4000	2*1700	1148	1911	2317	947	1460	1899	811	1264	1631	504	811	1002

Ambient temperature has been accepted as 18˚C.

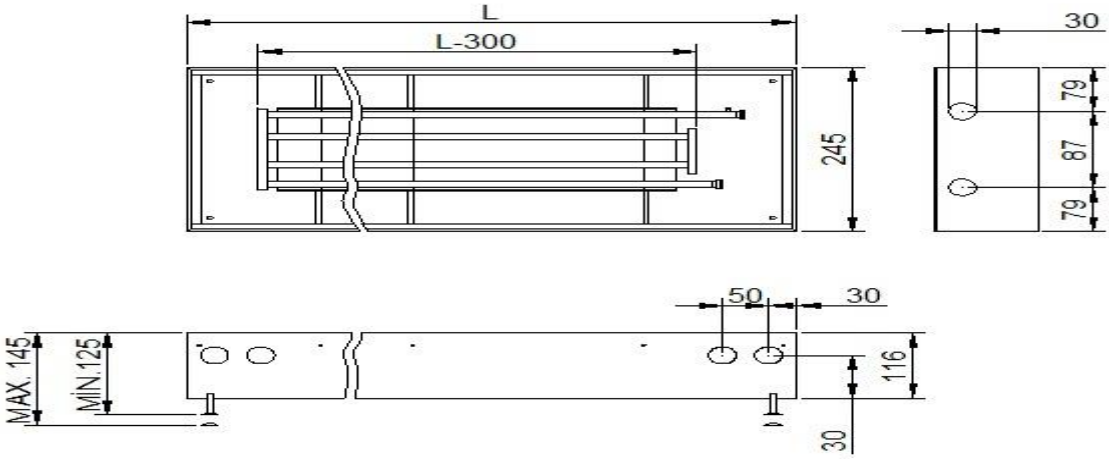
CENKAY TEKNİK

WE KNOW THE VALUE OF SILENT AND COMFORTABLE WORK

CKYK – 01 AD

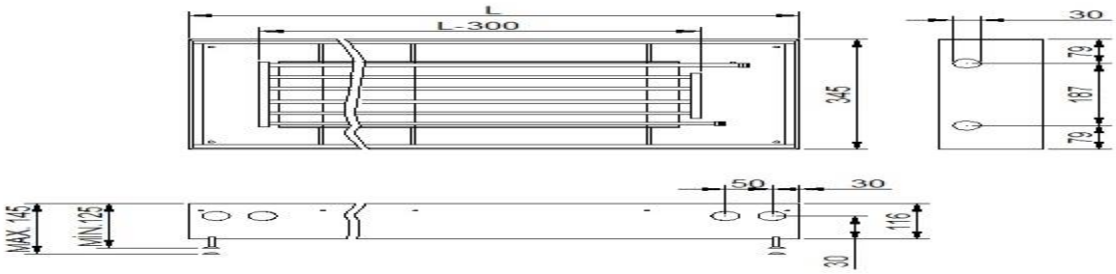


CKYK – 01 BD



CENKAY TEKNİK

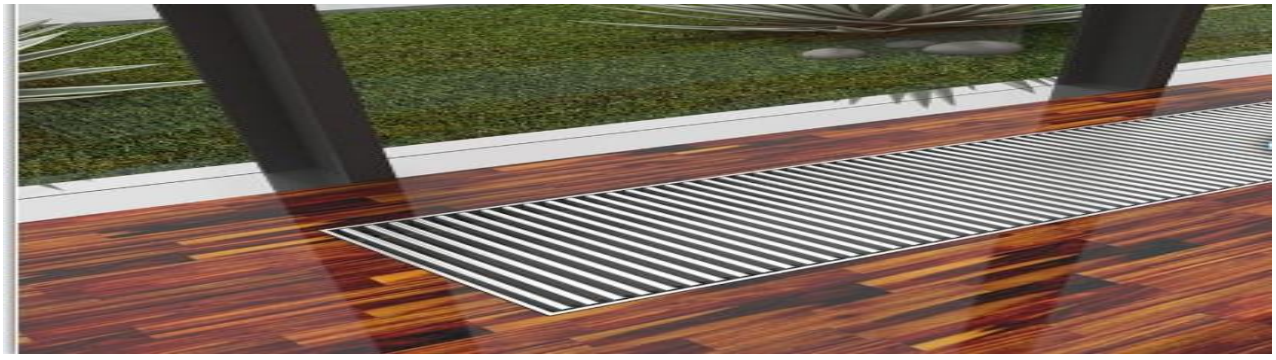
CKYK – 01 CD



CKYK – 1AD – 1BD – 1CD SELECTION CHART FOR FLOOR CONVECTORS WITH NATURAL CONVECTION

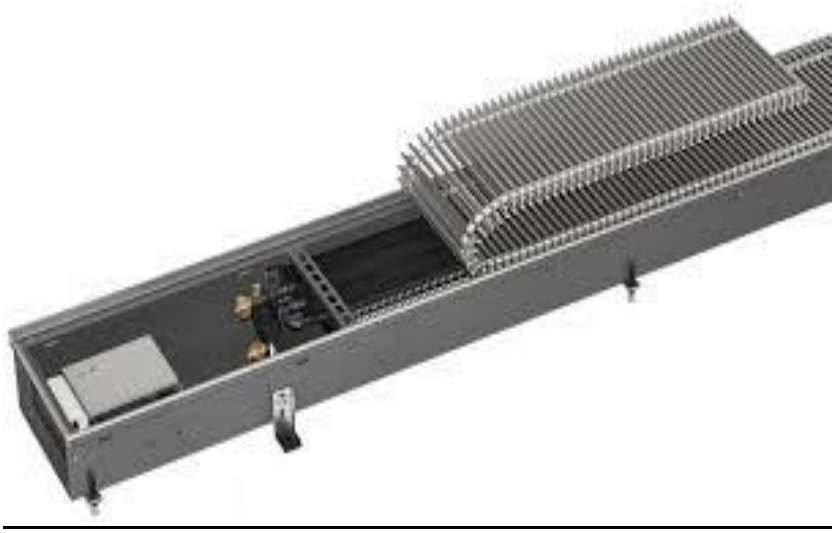
SUPPLY INLET AND OUTLET WATER TEMPERATURE		70 ˚C - 90 ˚C			60 ˚C - 80 ˚C			55 ˚C - 70 ˚C			40 ˚C - 55 ˚C		
CONVECTOR MODEL		YK - 1AD	YK - 1BD	YK - 1CD	YK - 1AD	YK - 1BD	YK - 1CD	YK - 1AD	YK - 1BD	YK - 1CD	YK - 1AD	YK - 1BD	YK - 1CD
CONVECTOR DIMENSIONS mm. (W/H)		2R/4T-200*116	2R/8T - 245*116	2R/12T - 345*116	2R/4T-200*116	2R/8T - 245*116	2R/12T - 345*116	2R/4T-200*116	2R/8T - 245*116	2R/12T - 345*116	2R/4T-200*116	2R/8T - 245*116	2R/12T - 345*116
CONVECTOR LENGTH mm. (W)	SERPANTINE LENGTH mm (L)	CONVECTOR HEATING CAPACITIES (W)											
1000	700	385	588	857	319	486	711	273	419	612	169	268	394
1250	950	523	785	1176	429	649	957	368	558	822	225	359	530
1500	1200	625	977	1475	540	810	1156	463	699	993	287	449	639
1750	1450	787	1223	1741	649	966	1401	556	834	1214	343	537	750
2000	1700	919	1528	1853	759	1169	1519	649	1010	1304	403	649	803
2250	1950	1061	1623	2107	864	1253	1734	739	1098	1487	458	688	906
2500	2200	1195	1704	2196	919	1353	1815	785	1184	1556	495	727	950
2750	2450	1297	1774	2277	968	1441	1887	825	1246	1616	517	759	989
3000	2*1200	1250	1955	2950	1079	1619	2314	924	1397	1985	574	898	1280
3500	2*1400	1575	2446	3481	1297	1932	2802	1112	1667	2429	688	1072	1501
4000	2*1700	1837	3057	3707	1515	2336	3038	1297	2022	2610	806	1297	1603

Ambient temperature has been accepted as 18˚C.



CENKAY TEKNİK

FLOOR CONVECTOR WITH PENSTOCK CONVECTION - CKYK-02



CKYK-02

Material: The body is made of aluminium or galvanized material in black. The blades can be made of anodized material or made of wood. The wings are manufactured parallel to the short edge. It can be manufactured with or without a frame of 10 mm-22mm-32 mm upon request. The batteries used in the device are 1/2 ” PN16 class copper tube and aluminium fins. Easy-to-use levelling bolts are used in flooring applications. In devices with forced convection, 24v or 230v -50 Hz low noise level tangential fans are used. Functionally, electronic cards are used in the devices. With the electronic card, fan motors can be used in two stages and motorized valves can be controlled.

Place of Use: It can be used with forced convection in heating and cooling in HVAC systems. Floor convectors are devices that can be used as an alternative to underfloor heating systems. Wall applications are not required like old generation devices. The devices placed under the floor have a stylish appearance with metallic or wooden grilles following architectural applications. Since the wings are parallel to the short edge, their load carrying capacity is high. Hot water or cold water can be used in the device. Forced convection floor convectors can be used as a primary heater and main heater. Forced convection floor convectors are used to prevent evaporation on glass surfaces and to reduce the heat load of the environment.

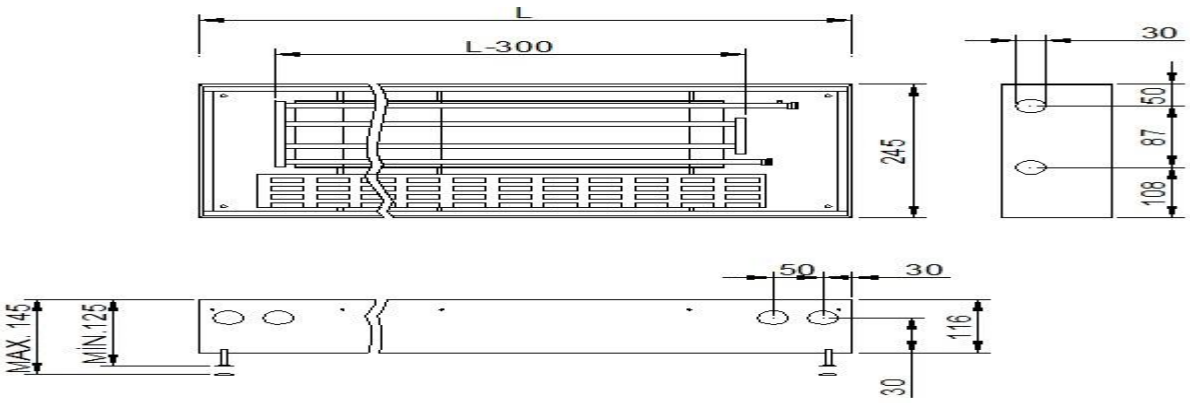
Assembly: Screwless as standard.

Coating: Painted

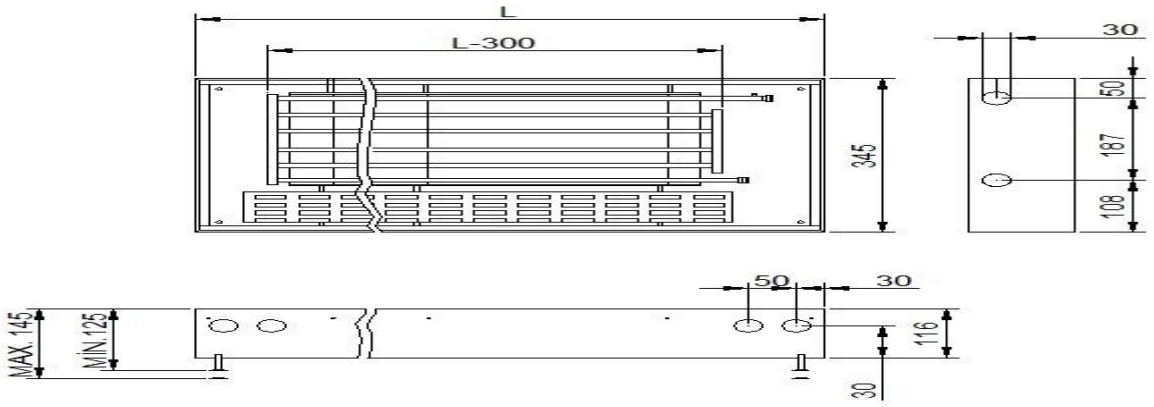
CKYK-02 - FLOOR CONVECTOR WITH PENSTOCK CONVECTION

TECHNICAL MEASUREMENT

KYK - 02 A

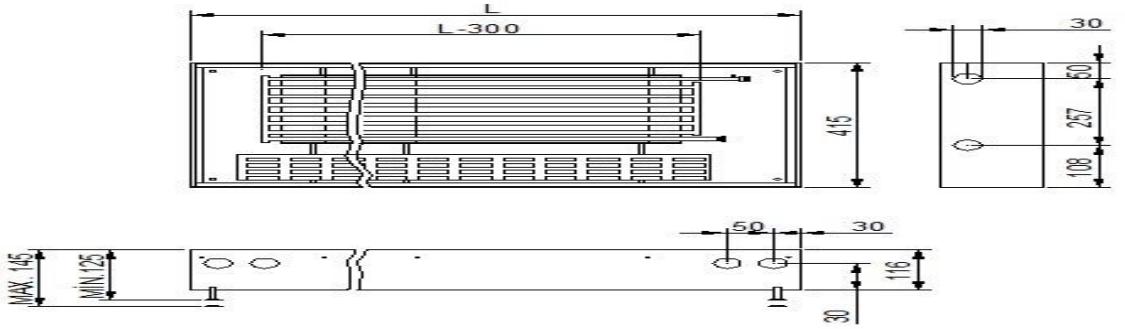


CKYK – 02 B



CKYK – 02 C

CENKAY TEKNİK



SELECTION CHART FOR CKYK - 2A - 2B - 2C MODEL PENSTOCK CONVECTION FLOOR CONVECTORS

SUPPLY INLET AND OUTLET WATER TEMPERATURE			70 ˚C - 90 ˚C						60 ˚C - 80 ˚C					
CONVECTOR MODEL		MODEL	YK - 2A		YK - 2B		YK - 2C		YK - 2A		YK - 2B		YK - 2C	
CONVECTOR DIMENSIONS mm. (W / H)		BATTERY	1R/2T- 200*116		1R/4T- 45*116		1R/6T- 45*116		1R/2T- 200*116		1R/4T- 45*116		1R/6T- 45*116	
FAN SPEED			750	1500	750	1500	750	1500	750	1500	750	1500	750	1500
CONVECTOR LENGTH mm. (W)	SERPANTINE LENGTH mm (L)	FAN QTY	CONVECTOR HEATING CAPACITIES (W)											
1000	700	1	384	593	669	1024	825	1277	313	404	494	799	658	1032
1250	950	2	522	805	907	1389	1120	1734	424	548	669	1085	894	1401
1500	1200	2	617	1040	1050	1618	1262	1975	499	655	818	1297	1027	1614
1750	1450	3	1026	1519	1507	2293	1801	2790	668	1167	1219	1864	1479	2295
2000	1700	3	1147	1706	1634	2505	1931	3016	876	1342	1332	2049	1594	2492
2250	1950	4	1485	2184	2097	3185	2477	3838	1175	1744	1721	2617	2052	3176
2500	2200	4	1597	2361	2213	3390	2603	4056	1277	1899	1827	2793	2161	3365
2750	2450	5	1935	2842	2678	4076	3146	4883	1561	2301	2211	3364	2616	4055
3000	2*1200	6	2051	3039	3012	4586	3600	5579	1337	2333	2439	3726	2959	4591
3500	2*1400	6	2293	3414	3268	5010	3861	6031	1750	2684	2666	4095	3189	4981
4000	2*1700	6	2640	3883	3728	5663	4404	6823	2090	3073	3060	4652	3648	5647
4500	2*1950	8	2970	4368	4194	6370	4955	7676	2351	3458	3442	5138	4103	6353

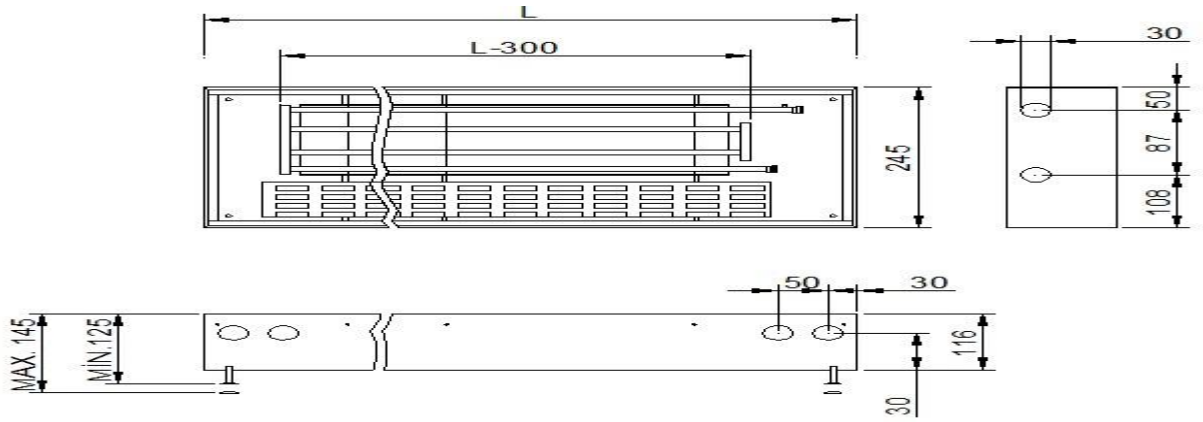
Ambient temperature has been accepted as 18˚C.

SUPPLY INLET AND OUTLET WATER TEMPERATURE		55 ˚C - 70 ˚C						40 ˚C - 55 ˚C					
CONVECTOR MODEL	MODEL	YK - 2A		YK - 2B		YK - 2C		YK - 2A		YK - 2B		YK - 2C	
CONVECTOR DIMENSIONS mm. (W / H)	BATTERY	1R/2T- 200*116		1R/4T- 45*116		1R/6T- 45*116		1R/2T- 200*116		1R/4T- 45*116		1R/6T- 45*116	
FAN SPEED		750	1500	750	1500	750	1500	750	1500	750	1500	750	1500

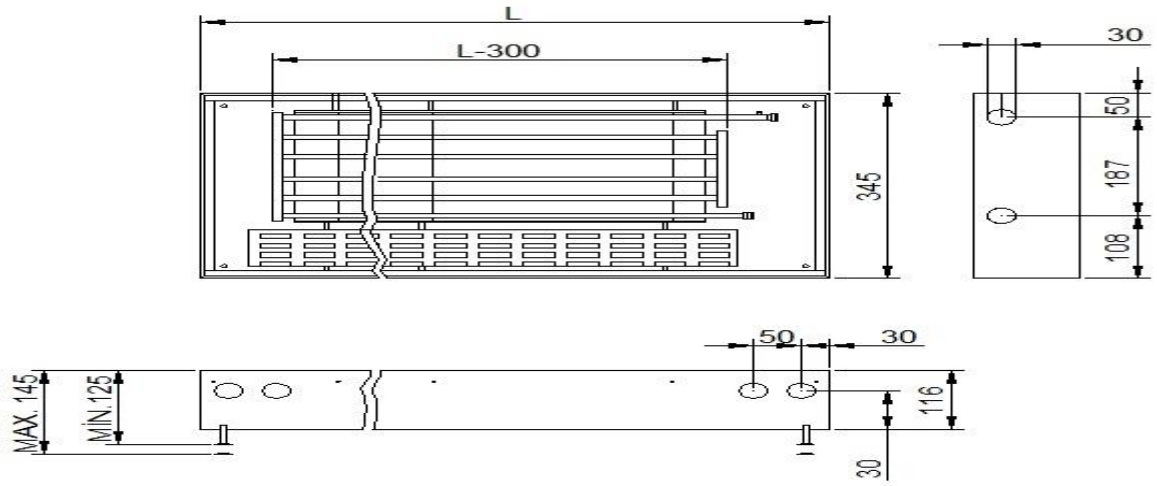
CONVERTER LENGTH mm. (W)	SERPENTINE LENGTH mm (L)	FAN QTY	CONVECTOR HEATING CAPACITIES (W)											
1000	700	1	211	326	368	562	454	701	172	222	271	439	361	566
1250	950	2	349	453	549	889	729	1148	208	298	335	458	424	602
1500	1200	2	410	541	666	1063	838	1321	246	317	386	536	481	693
1750	1450	3	549	960	998	1527	1210	1880	329	419	525	721	662	1108
2000	1700	3	718	998	1045	1596	1271	2037	366	473	574	943	717	1225
2250	1950	4	964	1101	1089	1678	1302	2599	449	574	715	1257	1013	1588
2500	2200	4	1046	1432	1408	2199	1677	2752	487	629	842	1363	1079	1696
2750	2450	5	1280	1889	1808	2754	2136	3316	570	783	1050	1442	1322	2056
3000	2*1200	6	1429	1918	1996	3054	2419	3757	657	1007	1079	1665	1344	2210
3500	2*1400	6	1435	2203	2179	3356	2604	4075	732	10479	1149	1824	1433	2439
4000	2*1700	6	1485	2276	2252	3470	2692	4214	757	1061	1188	1824	1482	2533
4500	2*1950	8	1927	2864	2816	4396	3354	5198	900	1149	1431	1886	2027	3175

Ambient temperature has been accepted as 18˚C.

CKYK – 02 AD

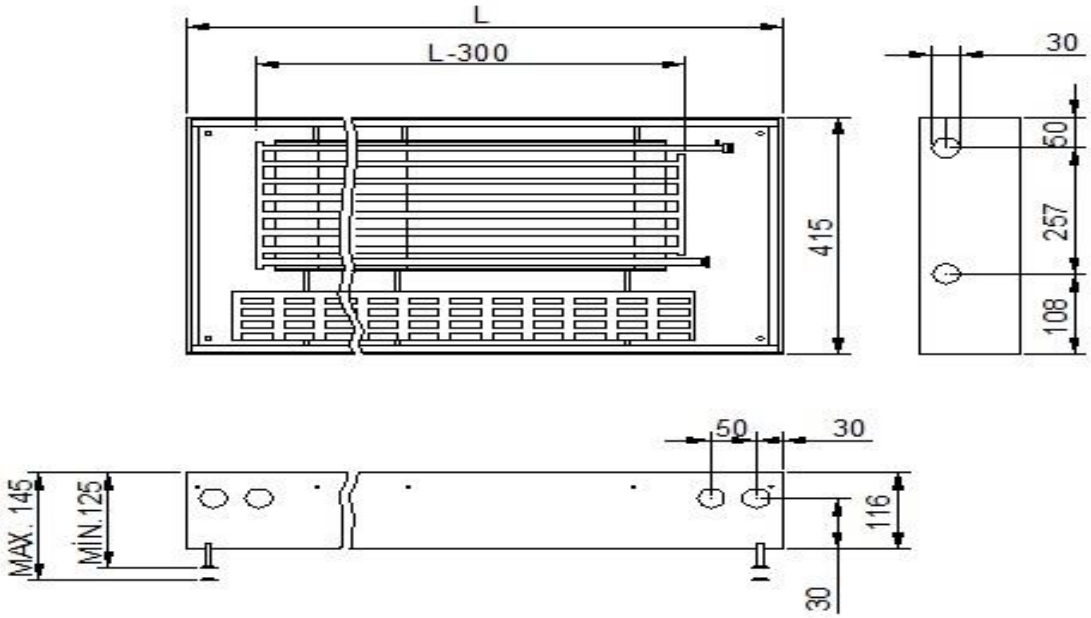


CKYK – 02 BD



CKYK – 02 CD

CENKAY TEKNİK



SELECTION CHART FOR KYK - 2AD - 2BD - 2CD MODEL PENSTOCK CONVECTION FLOOR CONVECTORS

SUPPLY INLET AND OUTLET WATER TEMPERATURE			70 ˚C - 90 ˚C						60 ˚C - 80 ˚C					
CONVECTOR MODEL		MODEL	YK - 1AD		YK - 1BD		YK - 1CD		YK - 1AD		YK - 1BD		YK - 1CD	
CONVECTOR DIMENSIONS mm. (W / H)		BATTERY	1R/2T-200*116		1R/4T-245*116		1R/6T-345*116		1R/2T-200*116		1R/4T-245*116		1R/6T-345*116	
FAN DEVİRİ			750	1500	750	1500	750	1500	750	1500	750	1500	750	1500
CONVECTOR LENGTH mm. (W)	SERPANTINE LENGTH mm (L)	FAN QTY	CONVECTOR HEATING CAPACITIES (W)											
1000	700	1	615	949	1070	1638	1320	2043	501	647	790	1278	1053	1651
1250	950	2	835	1289	1452	2223	1793	2774	679	877	1070	1735	1430	2241
1500	1200	2	988	1663	1680	2589	2019	3160	798	1048	1309	2075	1643	2582
1750	1450	3	1641	2431	2411	3669	2881	4464	1068	1866	1950	2982	2367	3672
2000	1700	3	1835	2730	2614	4008	3090	4825	1401	2147	2132	3278	2550	3987
2250	1950	4	2376	3494	3355	5095	3963	6140	1880	2790	2754	4187	3283	5082
2500	2200	4	2555	3778	3541	5425	4165	6490	2043	3039	2923	4469	3457	5384
2750	2450	5	3096	4548	4284	6522	5033	7812	2498	3681	3538	5383	4185	6488
3000	2*1200	6	3281	4862	4820	7338	5761	8926	2139	3733	3903	5962	4734	7345
3500	2*1400	6	3669	5462	5228	8015	6177	9650	2801	4294	4266	6552	5102	7970
4000	2*1700	6	4224	6213	5964	9060	7046	10917	3343	4917	4896	7442	5836	9035
4500	2*1950	8	4753	6989	6710	10193	7928	12281	3762	5532	5507	8220	6565	10164

Ambient temperature has been accepted as 18˚C.

BESLEME GİRİŞ ÇIKIS SUYU SICAKLIĞI		55 ˚C - 70 ˚C			40 ˚C - 55 ˚C		
KONVEKTÖR MODELİ	MODEL	YK - 1AD	YK - 1BD	YK - 1CD	YK - 1AD	YK - 1BD	YK - 1CD

CENKAY TEKNİK

CONVECTOR DIMENSIONS mm. (W / H)		BATTERY	1R/2T-200*116		1R/4T-245*116		1R/6T-345*116		1R/2T-200*116		1R/4T-245*116		1R/6T-345*116	
FAN DEVİRİ			750	1500	750	1500	750	1500	750	1500	750	1500	750	1500
CONVECTOR LENGTH mm. (W)	SERPENTINE LENGTH mm (L)	FAN QTY	CONVECTOR HEATING CAPACITIES (W)											
1000	700	1	338	521	588	899	726	1122	276	354	433	702	578	906
1250	950	2	558	724	879	1423	1166	1836	333	477	536	732	679	963
1500	1200	2	655	865	1065	1700	1341	2113	393	507	618	857	769	1109
1750	1450	3	879	1536	1596	2443	1935	3007	526	670	840	1154	1058	1772
2000	1700	3	1149	1596	1672	2554	2033	3259	586	756	919	1509	1147	1961
2250	1950	4	1542	1762	1742	2685	2083	4158	719	919	1144	2011	1621	2540
2500	2200	4	1673	2292	2253	3518	2683	4403	780	1006	1347	2181	1727	2713
2750	2450	5	2048	3022	2893	4407	3417	5305	912	1253	1680	2307	2115	3289
3000	2*1200	6	2286	3069	3194	4887	3871	6011	1052	1611	1727	2664	2150	3536
3500	2*1400	6	2297	3525	3486	5369	4166	6520	1171	16766	1838	2918	2293	3903
4000	2*1700	6	2376	3642	3604	5552	4308	6742	1211	1697	1900	2918	2370	4052
4500	2*1950	8	3083	4583	4506	7034	5366	8316	1440	1838	2290	3017	3242	5080

Ambient temperature has been accepted as 18˚C.

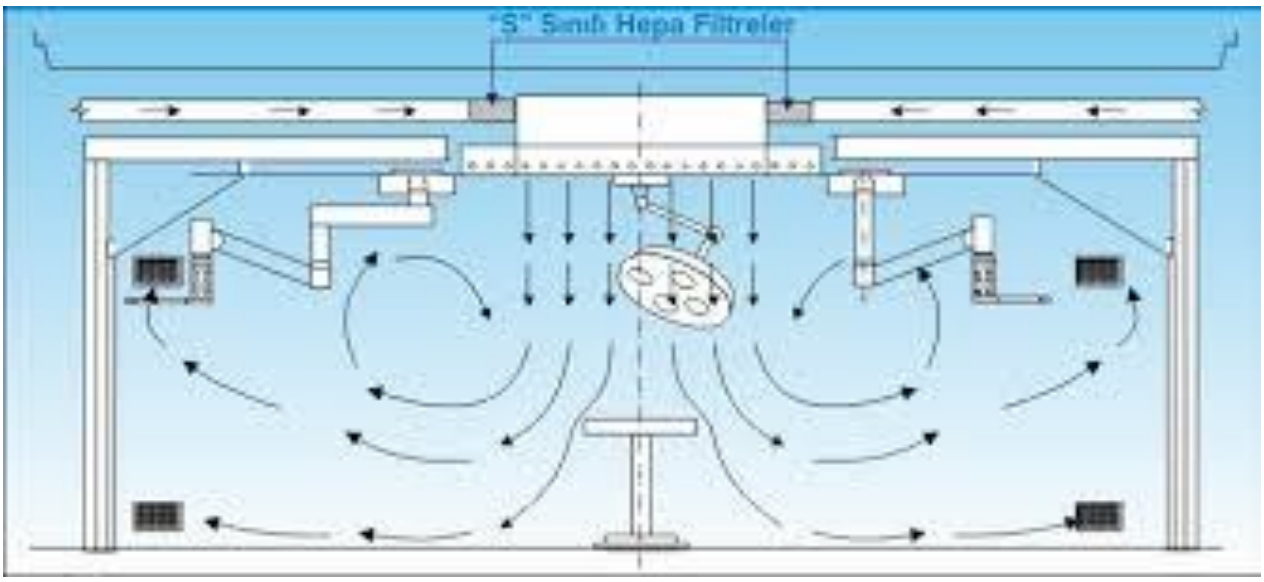
CENKAY TEKNİK

LAMINEER FLOW UNITS – CKLF-01

USAGE AREA AND FEATURES: It is given to the environment after being cleaned with hepa filters in operating theatres, intensive care rooms, clean rooms, laboratories, chemical industries, electronic industry and textile companies where hygiene is important in hvac systems. Should be between 0.23 m/s. Especially in the operating rooms, it ensures that the particles in the air given to the environment are prevented by laminar flow by passing through the laminar flow unit. Laminar flow provides ease of use thanks to its laminator, which can be easily disassembled and installed during maintenance.

MATERIAL: Made of 304-316 stainless material.

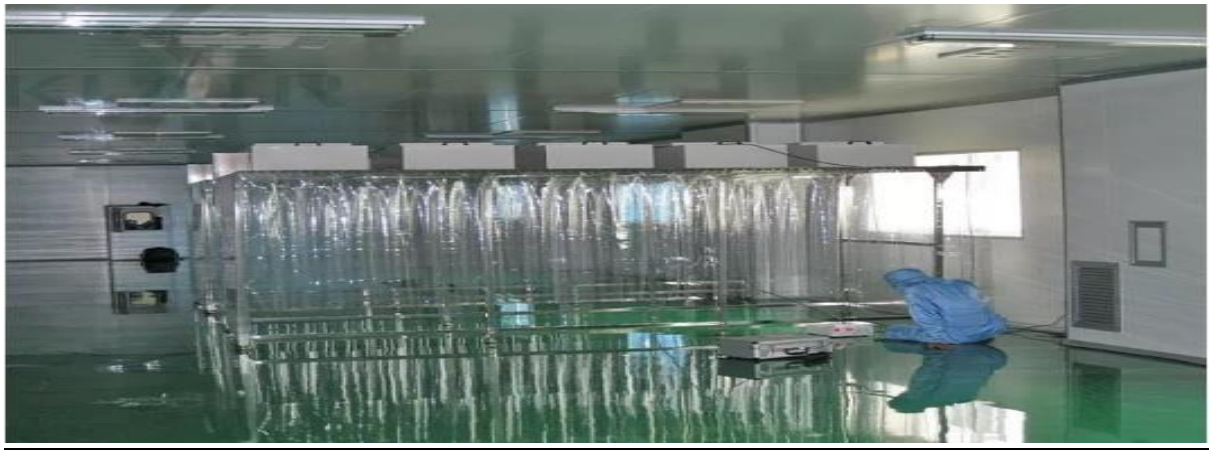
SURFACE COATING: Stainless.s as standard.



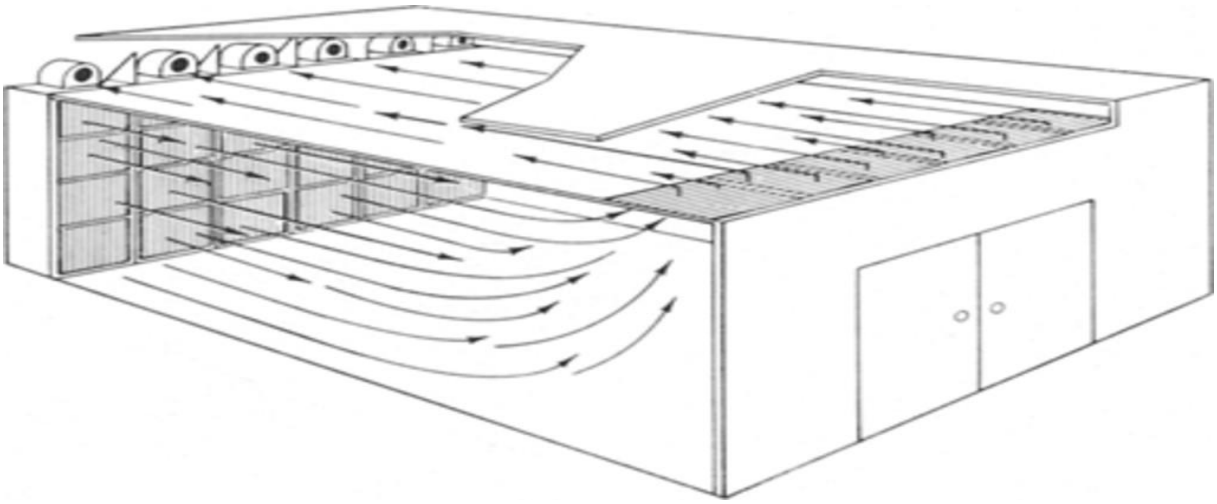
VARIOUS USAGE AREAS

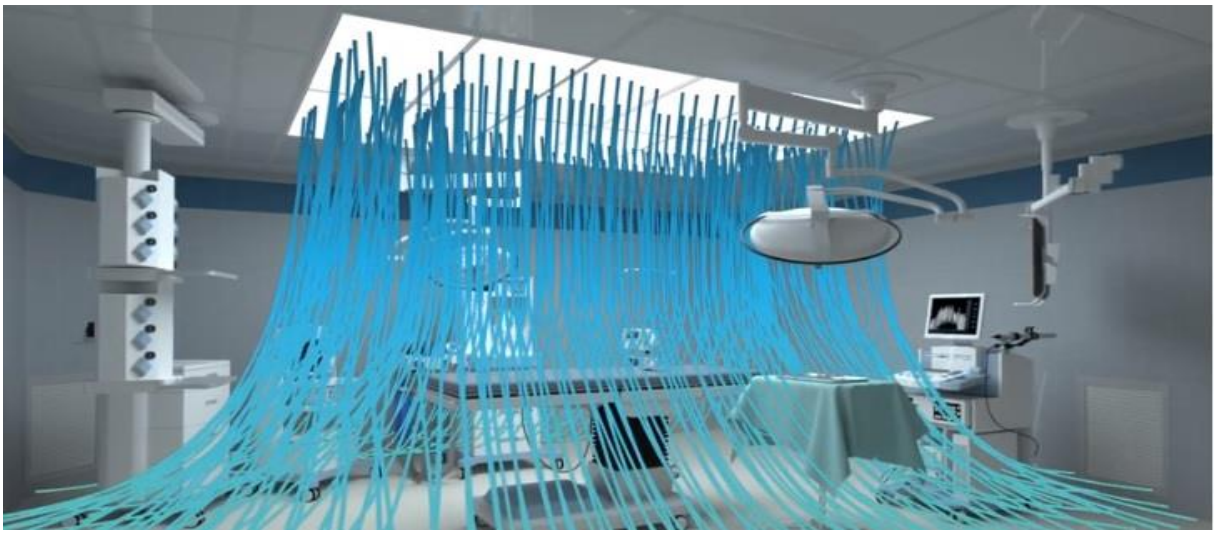
OPERATING ROOMS

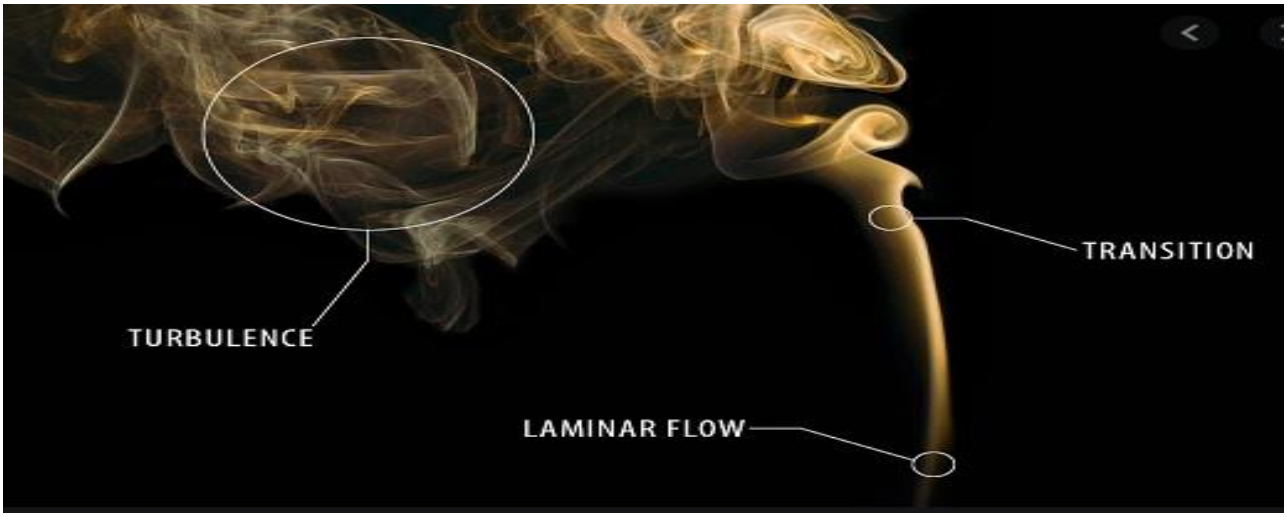
CLEAN ROOMS



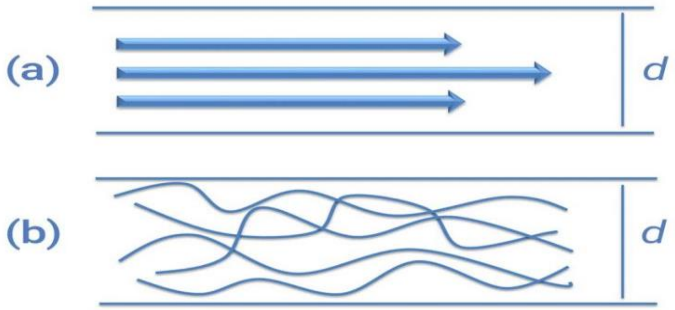
AIR FLOWS






TURBULENCE
TRANSITION
LAMINAR FLOW

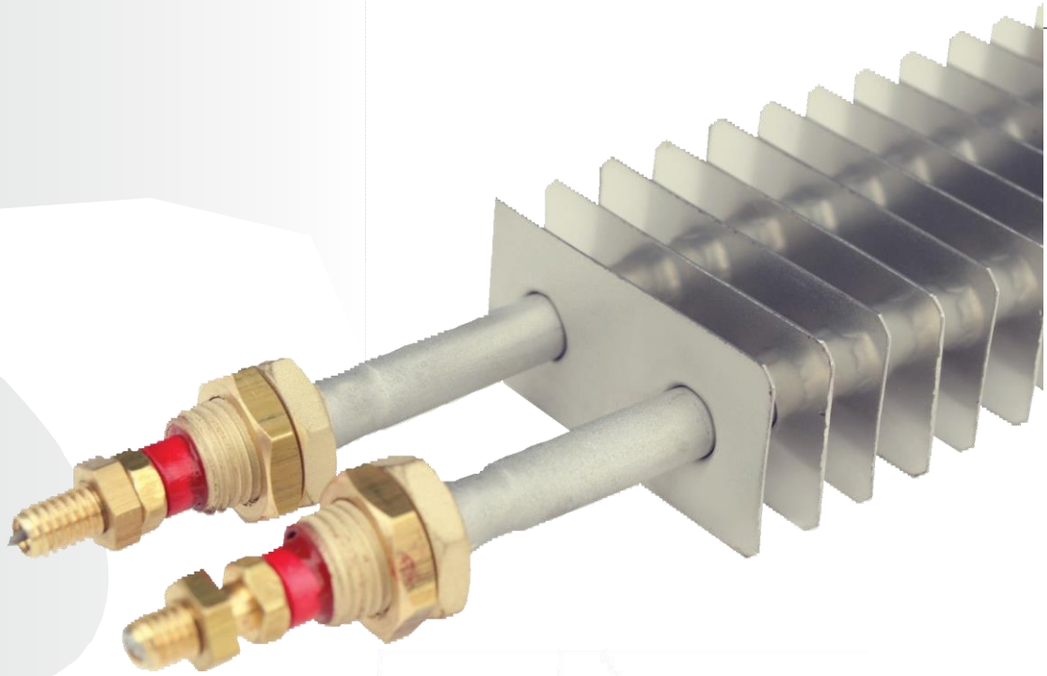
CENKAY TEKNİK



TECNICAL DATA

LAMINEER FLOW TECNICAL DATA

MODEL	SIZE	E mm.	B mm.	H mm.	DUCT SIZE.	HEPA FİLTRE	HEPA FİLTRE	AIRFLOW 0,23m/s	PRESSURE LOSS 0,23m/s
CKLF-1	1200*2400	1200	2400	450	60*30*2 ADET	610*305*292	H13 // H14	2400 m3/h	100 Pa
		1310	2510	450					
CKLF-2	1400*2400	1400	2400	450	60*30*4 ADET	610*305*292	H13 // H14	2800 m3/h	110 Pa
		1510	2510	450					
CKLF-3	1600*2400	1600	2400	450	60*30*4 ADET	610*305*292	H13 // H14	3200 m3/h	125 Pa
		1710	2510	450					
CKLF-4	1800*2400	1800	2400	450	60*30*4 ADET	610*305*292	H13 // H14	3600 m3/h	150 Pa
		1910	2510	450					
CKLF-5	2000*2400	2000	2400	450	60*30*4 ADET	610*305*292	H13 // H14	4000 m3/h	160 Pa
		2110	2510	450					
CKLF-6	2200*2400	2200	2400	450	60*30*4 ADET	610*305*292	H13 // H14	4400 m3/h	125 Pa
		2310	2510	450					
CKLF-7	2400*2400	2400	2400	450	60*30*6 ADET	610*305*292	H13 // H14	4800 m3/h	135 Pa
		2510	2510	450					
CKLF-8	3000*2400	3000	2400	450	60*30*6 ADET	610*305*292	H13 // H14	6000 m3/h	175 Pa
		3110	2510	450					
CKLF-9	3200*2400	3200	2400	450	60*30*6 ADET	610*305*292	H13 // H14	7000 m3/h	175 Pa
		3310	2510	450					
CKLF-10	3200*3200	3200	3200	450	60*30*6 ADET	610*305*292	H13 // H14	8000 m3/h	175 Pa
		3310	3310	450					



CENKAY TEKNİK®

KLİMA HAVALANDIRMA SAN. İÇ ve DIŞ TİC. LTD. ŞTİ.

Duct Type Heaters

Duct type heaters are produced in special sizes in round and rectangular sections. The resistance parts of the heaters, whose body material is produced as galvanized sheet or stainless steel sheet, is 304 stainless steel, with pipes or by increasing the heating surface.
It is produced with serpentine where more efficient heating is obtained.

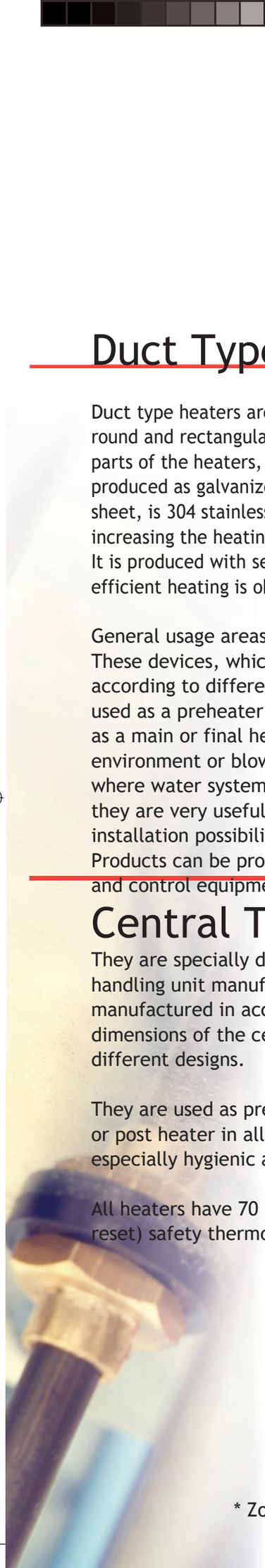
General usage areas are ventilation systems. These devices, which are specially produced according to different duct types and sizes, are used as a preheater to heat the outside air, and as a main or final heater to heat the environment or blowing air. Especially in cases where water system heaters cannot be used, they are very useful devices with easy installation possibilities to the duct.
Products can be produced with optional power and control equipment.

Central Type Heaters

They are specially designed devices for air handling unit manufacturers. The products manufactured in accordance with the dimensions of the central cell are detailed in 2 different designs.

They are used as preheater, basic heater and / or post heater in all air handling units, especially hygienic air handling units.

All heaters have 70 ˚C and 110 ˚C (manual reset) safety thermostats as standard.



* Zone 2 and Exproof upon special requests special products can be made.

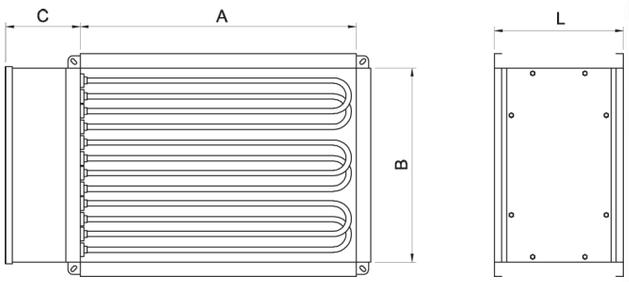
Rectangular Duct Type Electric Heater

Rectangular Duct Type Electric Heater Power Range

Min. 0,5 kW – Max. 2.000 kW

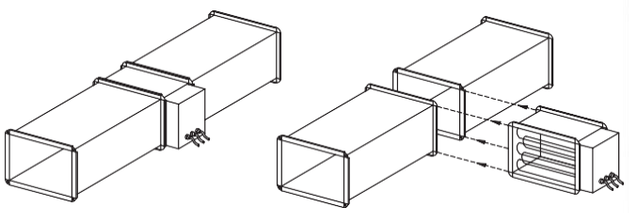
Rectangular Duct Type Electric Heater Dimensions

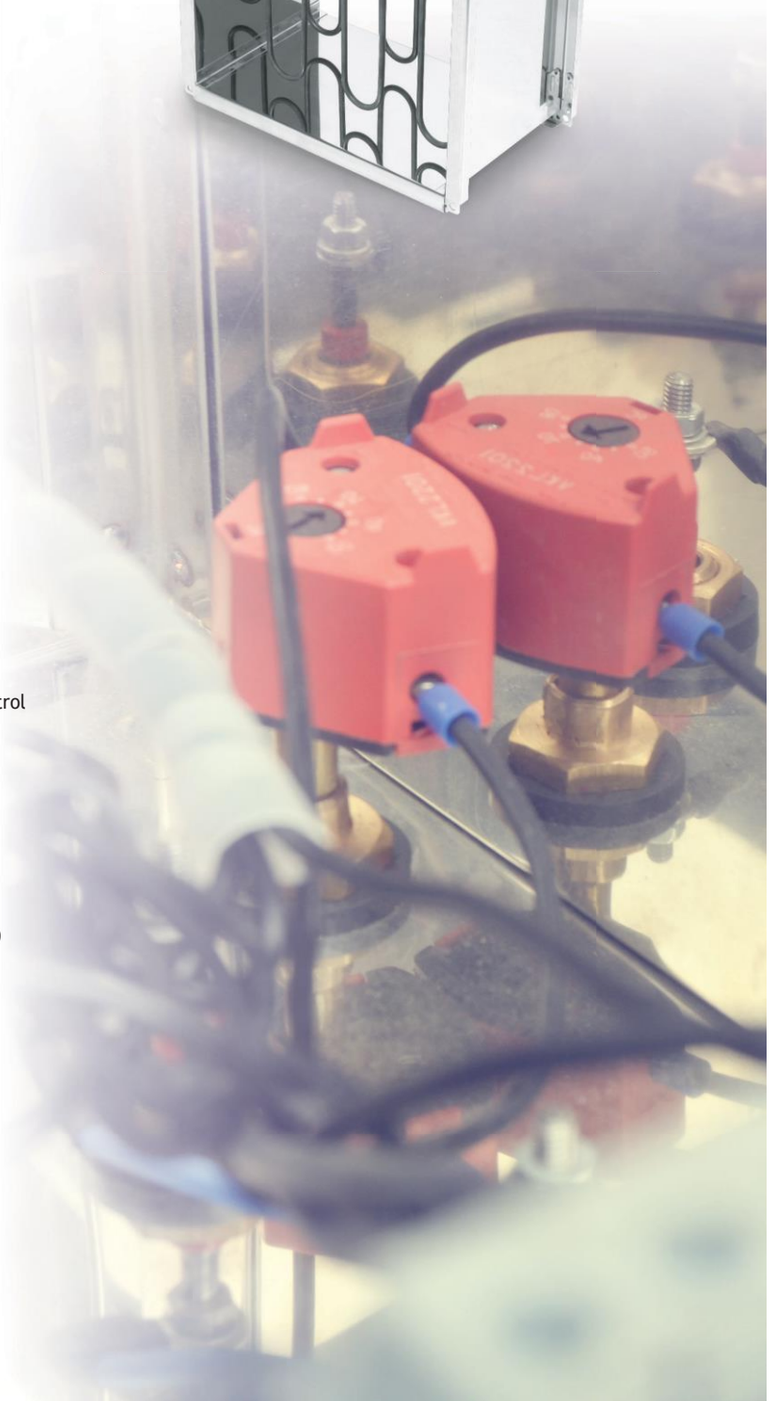
A :	Min. 200 mm	/ Max. 3000 mm
B :	Min. 200 mm	/ Max. 3000 mm
L :	Min. 150 mm	/ Max. 1000 mm
C : Standard 120 mm	/ İf Control Equipment is 220 mm	



RRH-350x400-380-3-0/1/2/3-0/T

- Control Equipment 0: No, T: Yes
- Panel Type 0: No, 1: Suitable for step control 2: 0-10V 3 Suitable for step kontrol 3: 0-10V Suitable for proportional control
- Tier İnformation
- Feeding İnformation
- Capaciyt (kW)
- Rectangular Duct Size (mmxmm)
- Rectangular Type Duct Heater





Round Duct Type Electric Heater

Round Duct Type Electric Heater Powder

Min. 0,5 kW – Max. 12 kW

Round Duct Type Electric Heater Dimensions

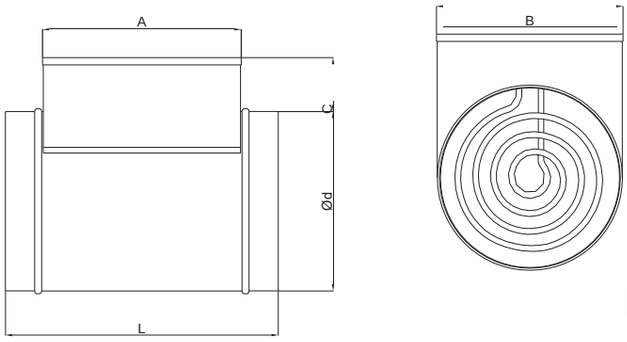
D : Min. 100 mm / Max. 500 mm

L : Standard 380 mm / Max. 500 mm

A : Min. 275 mm / Max. 395 mm

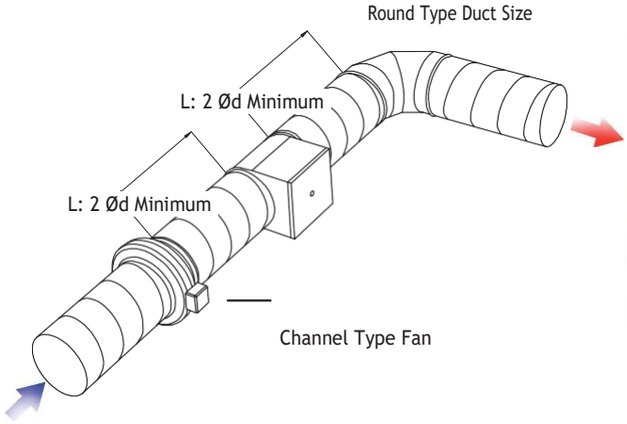
B : Standard 200 mm

C : Standard 75 mm / İf ther is control equipment 220 mm



RCH-Ø315-6-380-3-0/1/2/3-0/T

- Control Equitment
  - 0: No T: Yes
- Panel Type
  - 0: No 1: Suitable fpr step control
  - 2: 0-10V 3 Suitable for step control
  - 3: 0-10V Suitable for proportional control
- Tier İnformation
- Feeding İnformation
- Capacity (kW)
- Round Duct Size (mmxmm)
- Round Type Duct Size



Standard Central Type Electric Heater

Standard Plant Type Electric Heater Power Range

Min. 0,5 kw – Max. 2.000 kw

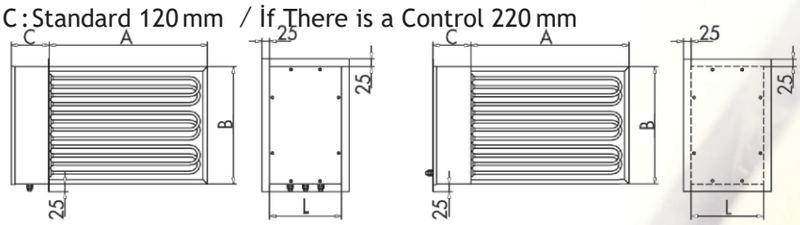
Standard Central Type Electric Heater Dimensions

A : Min. 200 mm / Max. 3000 mm

B : Min. 200 mm / Max. 3000 mm

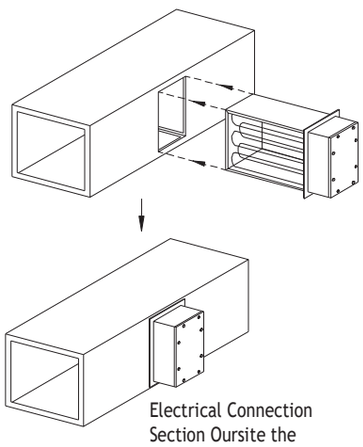
L : Min. 150 mm / Max. 1000 mm

C : Standard 120 mm / İf There is a Control 220 mm

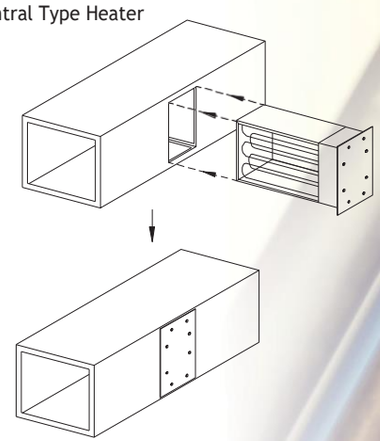


FSH-350x400-6-380-3-0/1/2/3

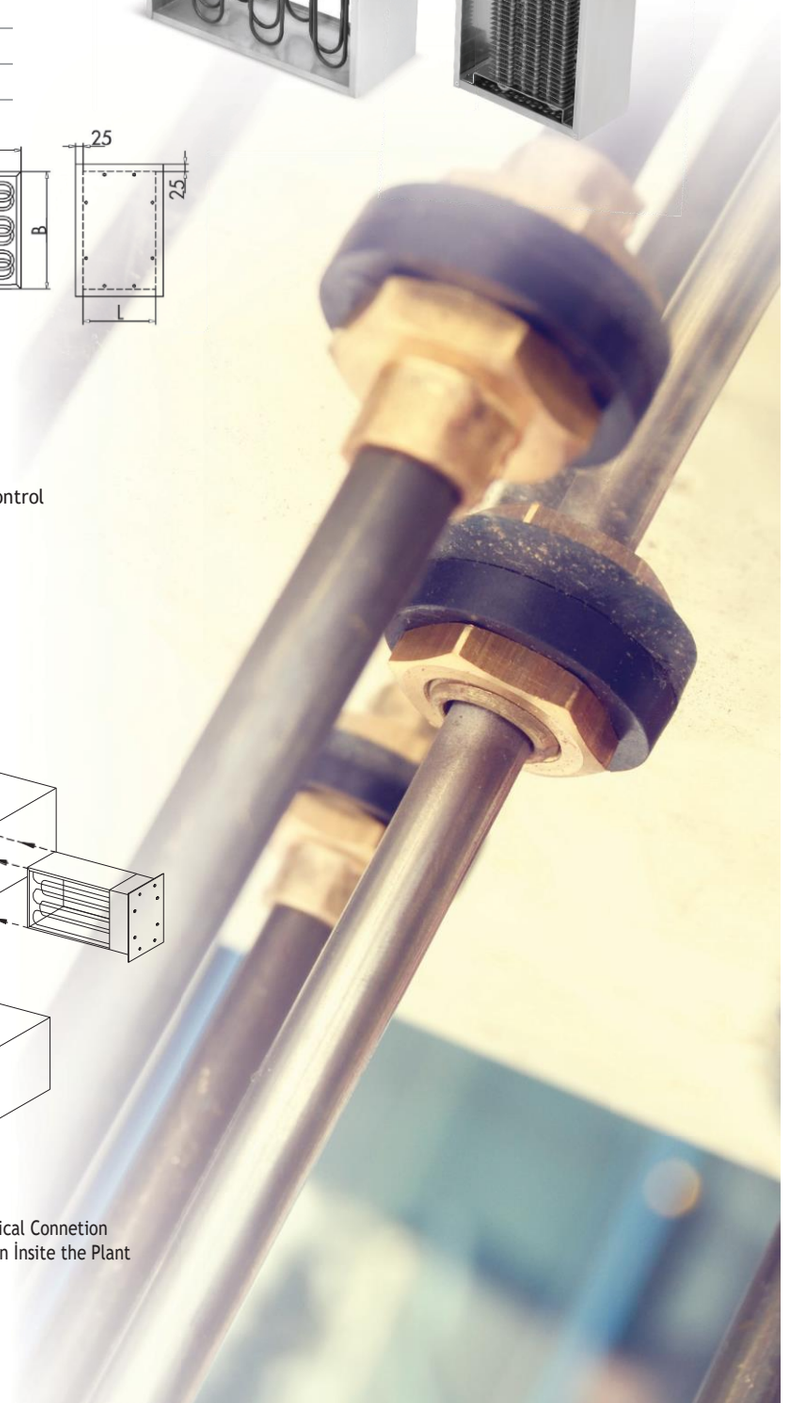
- Panel Type 0: No, 1: Suitable for step control 2: 0-10V 3 Suitable for step control 3: 0-10V Suitable for proportional control
- Tier İnformation
- Feeding İnformation
- Capactiy (kW)
- Power Plant Size (mmxmm)
- Central Type Heater



Electrical Connection Section Oursite the Plant



Electrical Connetion Section İnsite the Plant



Slide Type Electric Heater

Slide Station Type Electric Heater Power Range

Min. 0,5 kW – Max. 2000 kW

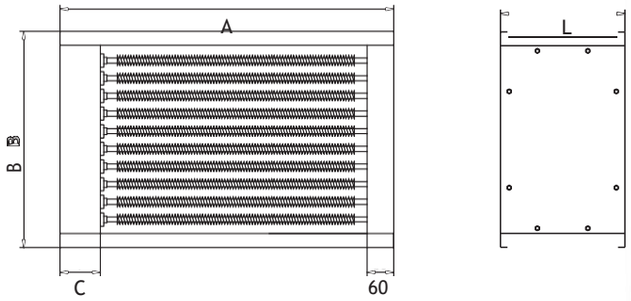
Dimensions of Slide Station Type Electric Heater

A : Min. 500 mm / Max. 6000 mm

B : Min. 200 mm / Max. 3000 mm

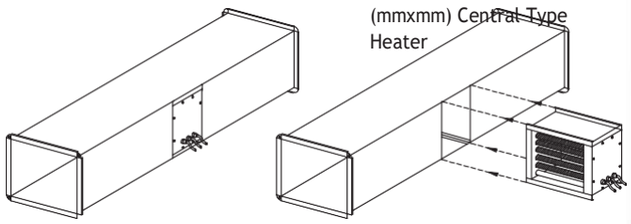
L : Min. 150 mm / Max. 1000 mm

C : Standard 80 mm / İf there is a Control Equipment 220 mm



RSH-350x400-380-3-0/1/2/3

- Panel Type
  0: No, 1: Suitable for step control
  2: 0-10V 3 Suitable for step control
  3: 0-10V Suitable for proportional control
- Tier İnformation
- Supply Voltage
- Capacity (kW)
- Power Plant Size (mmxmm) Central Type Heater



Calculations

Capacity Calculation

- Electric heaters outlet temperature max. It should be desingned to be 50°C
- Air velocity in the electric heater min . It should be 1.5 m/s.

$P = 0,36 \times Q \times \Delta T$

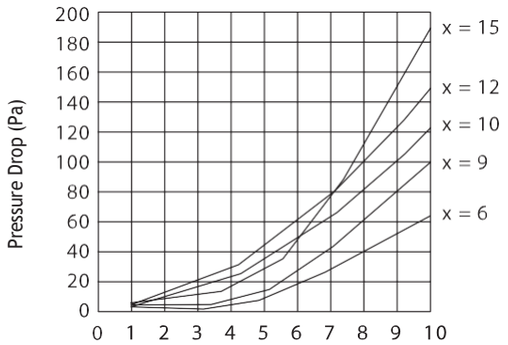
P = Total Power (W)
Q = Air Flow (m^3 /h)
ΔT= Temperature difference (°C)

Pressure Loss Calculation:

$$X = \frac{P}{S \times 15}$$

X = Number of Heating Resistance Rows

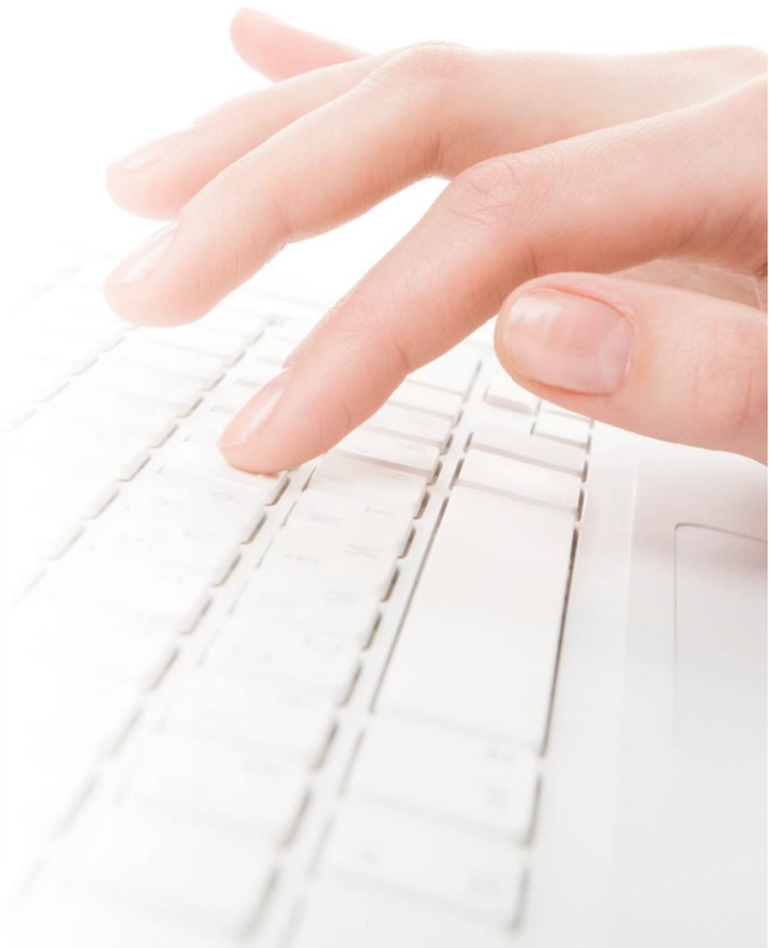
P = Total Power (kW)
S = Cross-Sectional Area (m^2) (S = A x B)



Pressure loss in the channel : Depends on the design speed and the number of resistances is calculated from the formula on the right and the number of rows and the pressure loss value corresponding to the appropriate air velocity is found in the graphic above.

Points to Consider During Installation

- So that the condensation inside the duct does not damage the heater, the elections junction box should not stay in the downstream plane .
- To ensure proper airflow on duct type electrical heater; In the duct, equipment such as fans, bends and dampers should be installed at a certain distance. This distance; Diagonal length for rectangular type heater is two times of duct heater diameter for round type heater.



Quality Control Tests

- Resistances/duct heaters produced are subjected to the functionality and electrical safety tests stated below.
- High voltage withstand test
- Leakage current test
- Hot insulation resistance test
- Cold insulation resistance test
- Work scenario test (optional)

Control Equipment

Safety Thermostats

There are two safety thermostats on the device that are activated at 70 C and 110 C. When the temperature in the device exceeds 70 C, the immersion type 70 C thermostat cuts the circuit and closes the heating contactor circuit. In case of any malfunction in the 70 C thermostat, when the temperature reaches 110 C, the 110 C thermostat with manual reset closes the contactor circuit. For the device to be reactivated, the Reset button must be pressed. To prevent this problem, which is usually encountered when the device is operated without airflow, devices should not be operated without airflow.

Control Panel

Depending on the heater power, internal or external type panel can be applied on the device in line with the customer demand. Panels using equipment suitable for the requested control scenario are specially manufactured and delivered to the customer in working condition by performing scenario tests.

On/Off Step Control Panel

It consists of a two-part structure, a control card + digital control panel. Provides On / Off control up to 3 steps. With the digital control panel, the user can adjust the temperature, temperature monitoring, manual/automatic temperature control. Used in the panel together with the step contactor circuit.

Proportional Step Control Card

It performs On / Off control up to 3 steps with a 0-10V control signal sent from an external control panel and/or automation system. With the step contactor circuit in the panel used.

Power Thyristör

It performs proportional control with a 0-10V control signal sent from an external control panel and/or automation system. The required control is provided with the product to be selected with power suitable for the total power of the electric heater, which is produced as a single stage.

Air Flow Switch

It is a piece of safety equipment that prevents the electric heater from working when there is no airflow. It is connected in series to the contactor circuit.

Temperature Sensors

They are used for temperature measurement in the channel where the heaters are connected. With the control panels they are connected to, the heater outlet temperature is controlled or limited.

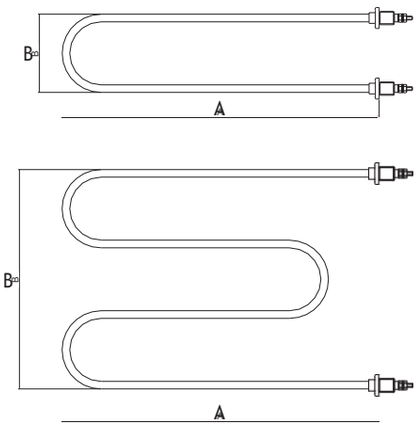
Resistances

The resistances used as the main equipment in duct type electrical heaters are produced in 2 different types as tubular and serpentine. The resistance pipe is made of AISI 304 quality stainless material. Resistance; Centering of Ni / Cr 80/20 wire in the middle of the stainless pipe under vibration with MgO powder It is produced by filling and compacting the MgO powder. Completed resistances are annealed in special annealing furnaces for easy bending and tempering. Easy assembly of the resistance to the casing is ensured with the M14 brass fitting used at the resistance ends..

Resistances can be produced in Ø6.5 mm, Ø8.5 mm and Ø11 mm diameters according to technical competence such as duct dimensions or usage areas. Serpentine resistances are produced by wrapping the coil made of AISI 304 stainless material in special winding machines on the resistance produced as tubular. Are Being.

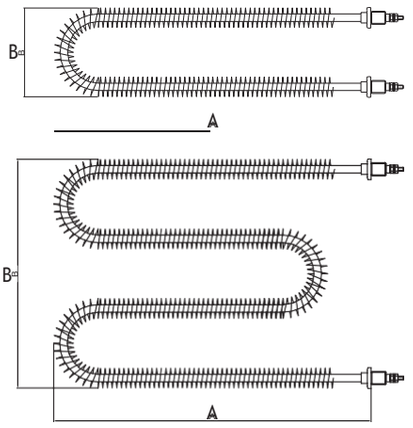
Resistance Power Range

Min. 0,4 kW – Max. 9,0 kW



Tubular Resistance U Type
A : Min. 200 mm – Max. 3.000 mm
B : Min. 40 mm

Tubular Resistance M Type :
A : Min. 200 mm – Max. 2.000 mm
B : Min. 120 mm



Serpentine Resistance U Type :
A : Min. 200 mm – Max. 3.000 mm
B : Min. 70 mm

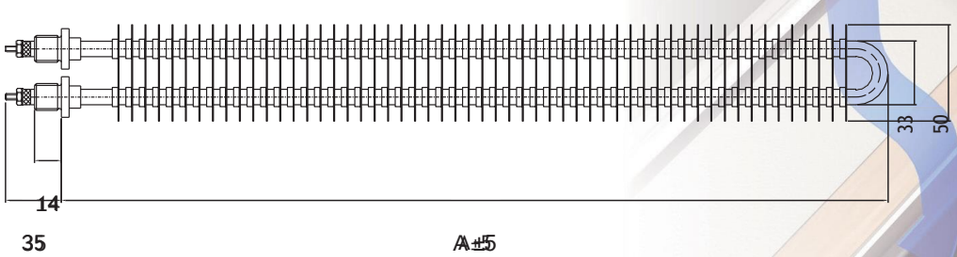
Serpentine Resistance M Type :
A : Min. 200 mm – Max. 2.000 mm
B : Min. 210 mm

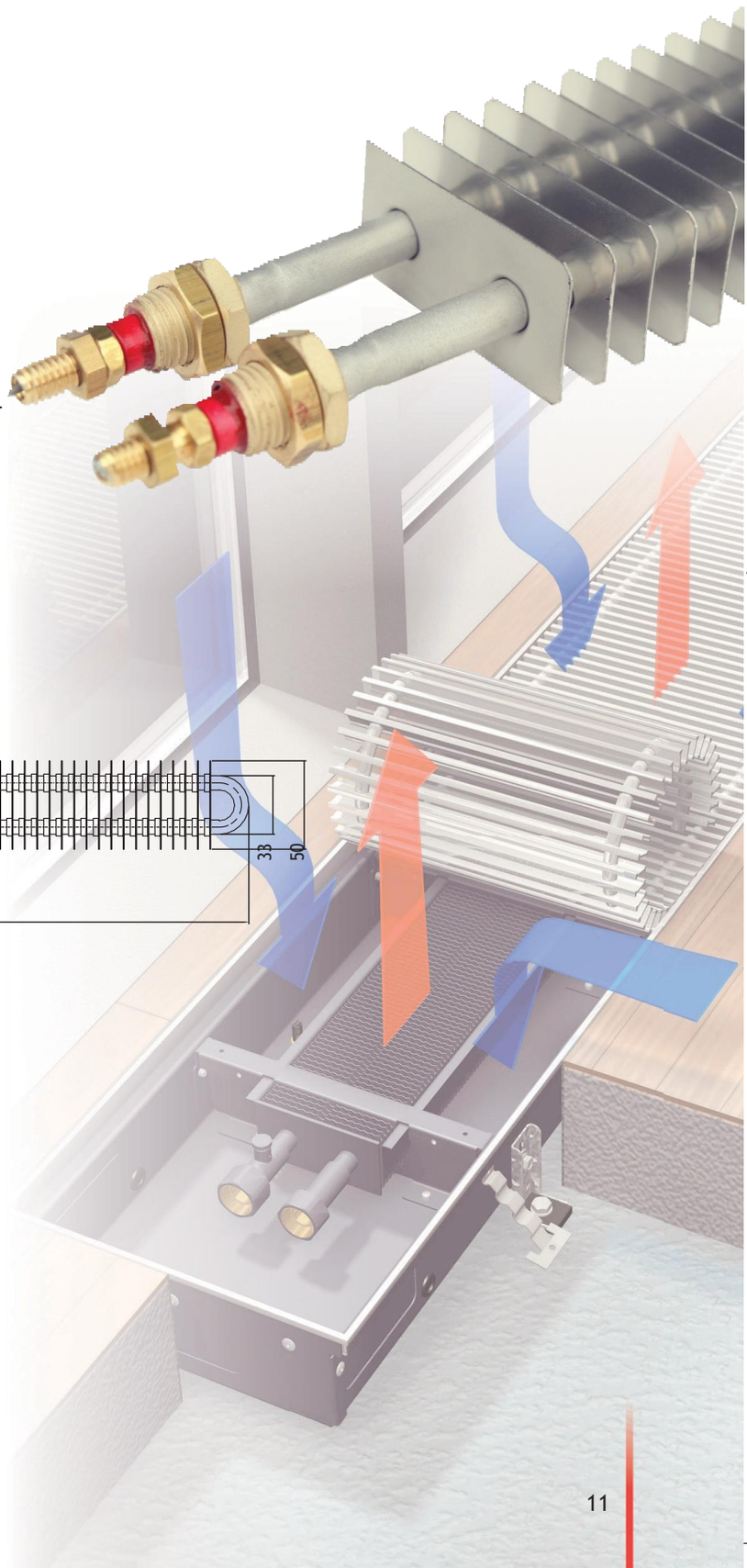
Floor Convector Heaters

Nowadays, with the increase of glass facade structures (offices, interior centres, villas, etc.), the area of use is increasingly
These are the resistances specially designed for common floor convectors. Special moulds for U type heaters
High heating efficiency is obtained by increasing the air contact surface thanks to the stainless steel blades installed. They ensure that floor convectors, which are mainly produced with water batteries, are electric batteries without any design changes. Prepared for floor convector producers, these products are produced entirely from 304 stainless steel material in different sizes and capacities by following per under the convector size..

Floor Convector Heater Power Range :
Min. 0,4 kW – Max. 9,0 kW

Floor Convector Heater Dimensions
A : Min. 200 mm / Max. 3000 mm





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: Fatih Mh. İnci Cd. No:75/1 Sultanbeyli / İSTANBUL

: +90 216 592 50 36 **: +90 216 592 50 37**

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