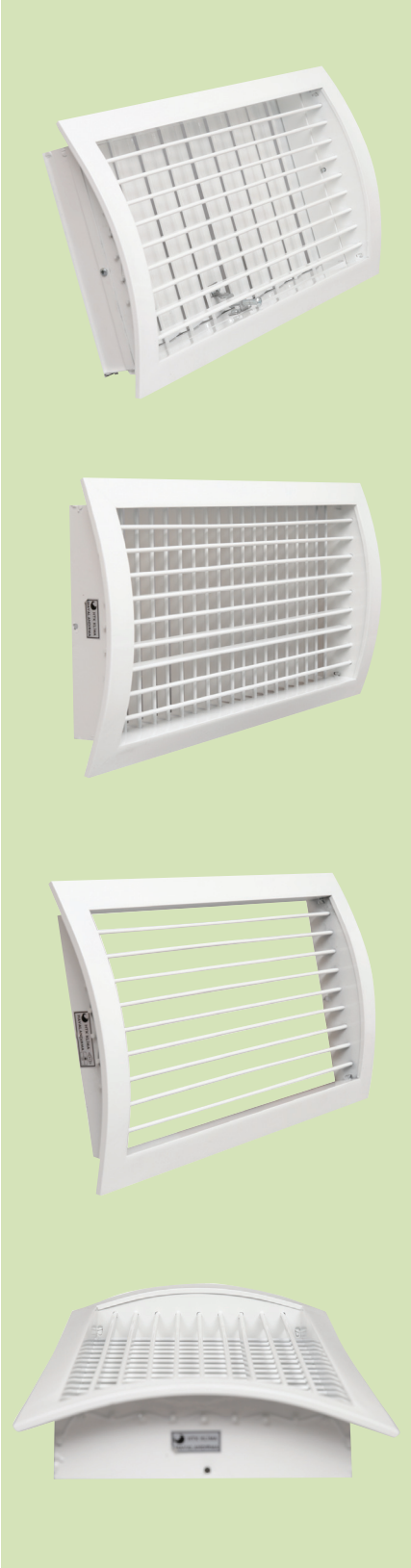


HDKM

DAİRESEL KANAL MENFEZİ

Round Duct Grille



TANIM

- **HDKM-S:** Üfleyci Tip Dairesel Kanal Menfezi.
- **HDKM-R:** Emici Tip Dairesel Kanal Menfezi.

MALZEME

Ekstrüzyon yöntemiyle üretilmiş alüminyum profilden mamul çerçeve ve kanatlar.

UYGULAMA

Dairesel kanallarda emiş ya da üfleme yapma amacıyla kullanılır. İsteğe bağlı olarak teksıra kanatlı ya da çiftsıra kanatlı olarak imalat yapılır. İstenilen kanal çapına göre menfeze radüs verilir bu sayede kanala rahatlıkla montaj olanağı sağlar. Hareketli kanatlar sayesinde havanın yatay ya da dikey atış yönü ayarlanabilir. İsteğe bağlı olarak damper takılarak reglaj yapma imkanı vardır. Dairesel Kanal menfezlerinin kasa ve kanatları alüminyumdan mamül olup, 1. Sınıf alüminyum profil kullanılmaktadır.

Menfez seçimi yapılırken kullanılacak menfezin yüksekliği, dairesele hava kanalının yarı çapını geçmemesine dikkat edilmelidir.

YÜZEY KAPLAMA

- Elektrostatik toz boya (Standart renkler RAL9010 ve RAL9016)
- Alüminyum eloksal
- İsteğe bağlı olarak RAL kodundaki diğer tüm renklerde temin edilmektedir.

ÇERÇEVE TİPLERİ

- 22 mm çerçeve
- 28 mm çerçeve

MONTAJ

- Yuvarlak hava kanalına vidalı montaj.

AKSESUARLAR

- **PK:** Paralel kanatlı damper
- **ZK:** Zıt kanatlı damper

DESCRIPTION

- **HDKM-S:** Supply Type Round Duct Grille.
- **HDKM-R:** Extract Type Round Duct Grille

MATERIAL

All of the product frame and blades are manufactured from extruded aluminium profiles.

APPLICATION

These grilles are used in round ducts for air supply and extraction. As an option single or double row blades types can be manufactured. The grilles can be manufactured in any desired radii to enable easy assembly into the ducts. Moving blades enable the throw direction of the air to be adjusted either vertically or horizontally. An optional damper can be attached for regulation.

Round blade grille frames and blades are made from aluminium and only 1st class aluminium profiles are used.

SURFACE COATING

- Electrostatic powder coating (Standard colours are RAL 9010 and RAL 9016)
- Aluminium anodised
- As an option, all the colours in other RAL codes can be provided.

FRAME TYPES

- 22 mm frame
- 28 mm frame

ASSEMBLY

- Installation with screw to round air duct.

ACCESSORIES

- **PK:** Parallel blade damper
- **ZK:** Opposed blade damper

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DAİRESEL KANAL MENFEZİ

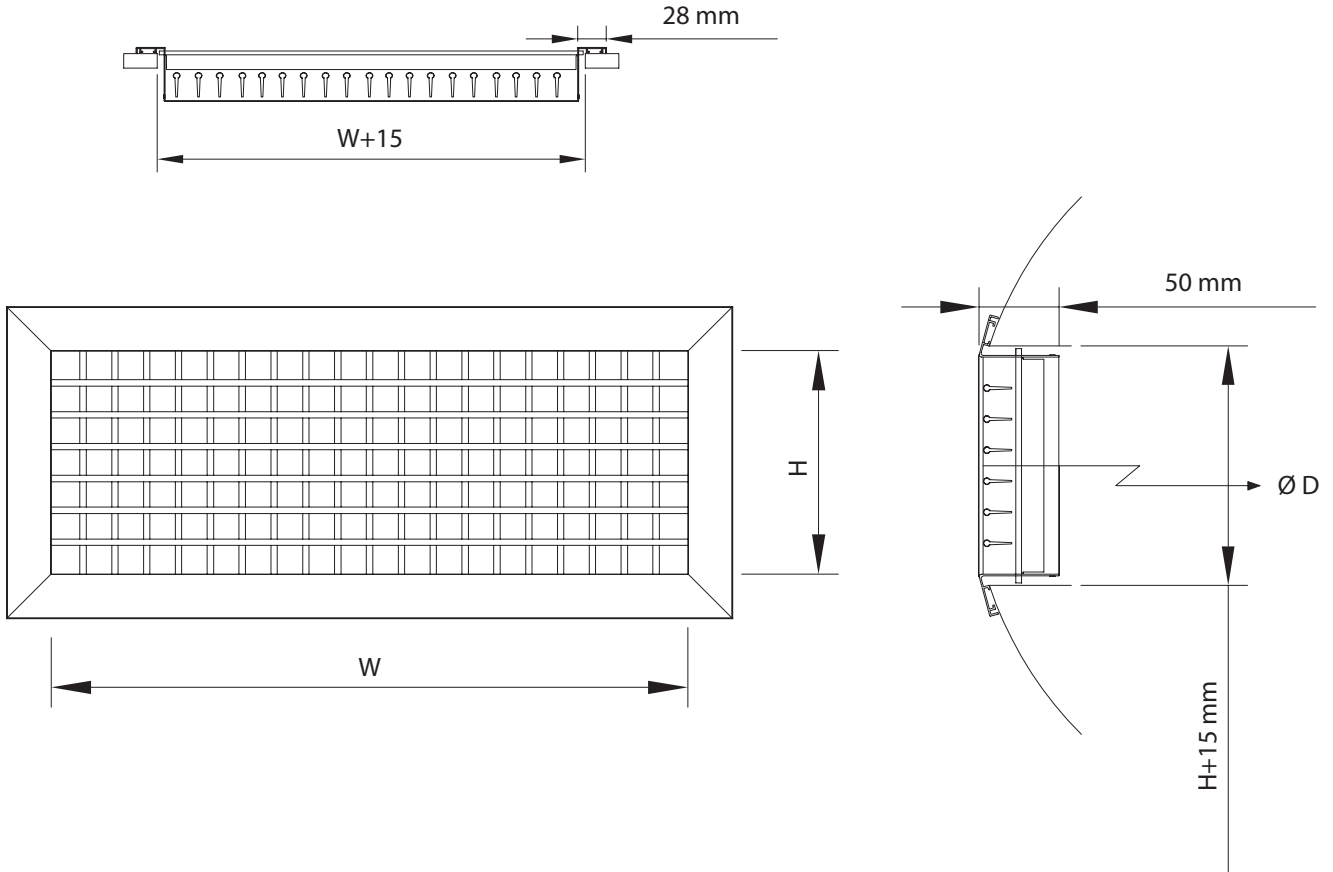
Round Duct Grille

DAİRESEL KANAL MENFEZİ ÖLÇÜLERİ ve EFEKTİF ALANLARI

ROUND DUCT GRILLE DIMENSIONS and EFFECTIVE AREAS

W: Boğaz genişliği (mm)
H: Boğaz yüksekliği (mm)
ØD: Menfezin montajlanacağı dairesel kesitli hava kanalının çapı (mm)
 $\text{ØD (mm)} - 50 \text{ mm} \geq H \text{ (mm)}$

Neck width (mm)
Neck height (mm)
Assembling a round duct grille of the air channel will diameter (mm)
 $\text{ØD (mm)} - 50 \text{ mm} \geq H \text{ (mm)}$



(HDKM-R) Emici Tip Dairesel Kanal Menfezi Etketif Alanı:
(HDKM-R) Return Type Round Duct Grille Effective Areas:

Aeff (m ²)		Emiş																		
		W (mm)																		
		150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	1000	1100	1200
H (mm)	75	0.009	0.012	0.015	0.018	0.021	0.024	0.027	0.030	0.033	0.036	0.039	0.042	0.045	0.048	0.051	0.054	0.060	0.066	0.072
	100	0.012	0.016	0.020	0.024	0.028	0.032	0.036	0.040	0.044	0.048	0.052	0.056	0.060	0.064	0.068	0.072	0.080	0.088	0.096
	125	0.015	0.020	0.025	0.030	0.035	0.040	0.045	0.050	0.055	0.060	0.065	0.070	0.075	0.080	0.085	0.090	0.100	0.110	0.120
	150	0.018	0.024	0.030	0.036	0.042	0.048	0.054	0.060	0.066	0.072	0.078	0.084	0.090	0.096	0.102	0.108	0.120	0.132	0.144
	175	0.021	0.028	0.035	0.042	0.049	0.056	0.063	0.070	0.077	0.084	0.091	0.098	0.105	0.112	0.119	0.126	0.140	0.154	0.168
	200	0.024	0.032	0.040	0.048	0.056	0.064	0.072	0.080	0.088	0.096	0.104	0.112	0.120	0.128	0.136	0.144	0.160	0.176	0.192
	225	0.027	0.036	0.045	0.054	0.063	0.072	0.081	0.090	0.099	0.108	0.117	0.126	0.135	0.144	0.153	0.162	0.180	0.198	0.216
	250	0.030	0.040	0.050	0.060	0.070	0.080	0.090	0.100	0.110	0.120	0.130	0.140	0.150	0.160	0.170	0.180	0.200	0.220	0.240
	275	0.033	0.044	0.055	0.066	0.077	0.088	0.099	0.110	0.121	0.132	0.143	0.154	0.165	0.176	0.187	0.198	0.220	0.242	0.264
	300	0.036	0.048	0.060	0.072	0.084	0.096	0.108	0.120	0.132	0.144	0.156	0.168	0.180	0.192	0.204	0.216	0.240	0.264	0.288

(HDKM-S) Üfleyci Tip Dairesel Kanal Menfezi Etketif Alanı:
(HDKM-S) Supply Type Round Duct Grille Effective Areas:

Aeff (m ²)		Üfleme																		
		W (mm)																		
		150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	1000	1100	1200
H (mm)	75	0.007	0.010	0.012	0.014	0.017	0.019	0.022	0.024	0.026	0.029	0.031	0.034	0.036	0.038	0.041	0.043	0.048	0.053	0.058
	100	0.010	0.013	0.016	0.019	0.022	0.026	0.029	0.032	0.035	0.038	0.042	0.045	0.048	0.051	0.054	0.058	0.064	0.070	0.077
	125	0.012	0.016	0.020	0.024	0.028	0.032	0.036	0.040	0.044	0.048	0.052	0.056	0.060	0.064	0.068	0.072	0.080	0.088	0.096
	150	0.014	0.019	0.024	0.029	0.034	0.038	0.043	0.048	0.053	0.058	0.062	0.067	0.072	0.077	0.082	0.086	0.096	0.106	0.115
	175	0.017	0.022	0.028	0.034	0.039	0.045	0.050	0.056	0.062	0.067	0.073	0.078	0.084	0.090	0.095	0.101	0.112	0.123	0.134
	200	0.019	0.026	0.032	0.038	0.045	0.051	0.058	0.064	0.070	0.077	0.083	0.090	0.096	0.102	0.109	0.115	0.128	0.141	0.154
	225	0.022	0.029	0.036	0.043	0.050	0.058	0.065	0.072	0.079	0.086	0.094	0.101	0.108	0.115	0.122	0.130	0.144	0.158	0.173
	250	0.024	0.032	0.040	0.048	0.056	0.064	0.072	0.080	0.088	0.096	0.104	0.112	0.120	0.128	0.136	0.144	0.160	0.176	0.192
	275	0.026	0.035	0.044	0.053	0.062	0.070	0.079	0.088	0.097	0.106	0.114	0.123	0.132	0.141	0.150	0.158	0.176	0.194	0.211
	300	0.029	0.038	0.048	0.058	0.067	0.077	0.086	0.096	0.106	0.115	0.125	0.134	0.144	0.154	0.163	0.173	0.192	0.211	0.230

HDKM

DAİRESEL KANAL MENFEZİ

Round Duct Grille

HDKM-R EMİCİ TİP DAİRESEL KANAL MENFEZİ KOLAY SEÇİM TABLOSU
HDKM-R RETURN TYPE ROUND DUCT GRILLE QUICK SELECTION TABLE

Aeff (m²): Efektif alan
 Ueff (m/s): Efektif hız
 V (m³/h): Hava debisi
 ΔPt (Pa): Toplam basınç kaybı
 SPL (dBA): Ses seviyesi

Effective area
Effective velocity
Air flow rate
Total pressure drop
Sound level

		Emiş																
		Aeff (m ²)																
V (m ³ /h)		0.015	0.018	0.024	0.030	0.036	0.048	0.064	0.072	0.096	0.117	0.144	0.180	0.220	0.240	0.264	0.288	
100	ueff. (m/s)	1.9																
	ΔPt (Pa)	9																
	SPL (dBA)	<20																
150	ueff. (m/s)	2.8	2.3	1.7														
	ΔPt (Pa)	18	11	8														
	SPL (dBA)	<20	<20	<20														
200	ueff. (m/s)	3.7	3.1	2.3	1.9	1.5												
	ΔPt (Pa)	31	18	12	8	5												
	SPL (dBA)	24	<20	<20	<20	<20												
250	ueff. (m/s)	4.6	3.9	2.9	2.3	1.9												
	ΔPt (Pa)	39	27	18	13	8												
	SPL (dBA)	28	23	20	<20	<20												
300	ueff. (m/s)		4.6	3.5	2.8	2.3	1.7											
	ΔPt (Pa)		40	26	18	11	6											
	SPL (dBA)		28	24	21	<20	<20											
350	ueff. (m/s)			4.1	3.2	2.7	2.0	1.5										
	ΔPt (Pa)			37	25	14	8	5										
	SPL (dBA)			28	24	<20	<20	<20										
400	ueff. (m/s)			4.6	3.7	3.1	2.3	1.7	1.5									
	ΔPt (Pa)			40	32	18	11	7	5									
	SPL (dBA)			29	27	22	<20	<20	<20									
500	ueff. (m/s)				4.6	3.9	2.9	2.2	1.9									
	ΔPt (Pa)				40	32	16	11	9									
	SPL (dBA)				30	27	21	<20	<20									
600	ueff. (m/s)					4.6	3.5	2.6	2.3	1.7								
	ΔPt (Pa)					41	27	14	11	8								
	SPL (dBA)					31	26	21	<20	<20								
700	ueff. (m/s)						4.1	3.0	2.7	2.0	1.7							
	ΔPt (Pa)						29	19	16	12	9							
	SPL (dBA)						28	24	21	<20	<20							
800	ueff. (m/s)						4.6	3.5	3.1	2.3	1.9							
	ΔPt (Pa)						37	26	21	12	10							
	SPL (dBA)						31	28	25	20	<20							
900	ueff. (m/s)							3.9	3.5	2.6	2.1	1.7						
	ΔPt (Pa)							32	27	18	13	10						
	SPL (dBA)							30	28	22	<20	<20						
1000	ueff. (m/s)							4.3	3.9	2.9	2.4	1.9						
	ΔPt (Pa)							38	30	20	15	10						
	SPL (dBA)							33	30	26	22	<20						
1200	ueff. (m/s)								4.6	3.5	2.8	2.3	1.9					
	ΔPt (Pa)								40	27	18	11	10					
	SPL (dBA)								34	30	25	21	<20					
1400	ueff. (m/s)									4.1	3.3	2.7	2.2	1.8				
	ΔPt (Pa)									32	25	14	11	9				
	SPL (dBA)									33	30	23	20	<20				
1600	ueff. (m/s)										4.6	3.8	3.1	2.5	2.0	1.9		
	ΔPt (Pa)										41	32	19	13	11	9		
	SPL (dBA)										36	33	28	23	<20	<20		
1800	ueff. (m/s)											4.3	3.5	2.8	2.3	2.1	1.9	
	ΔPt (Pa)											39	27	16	13	11	9	
	SPL (dBA)											34	32	27	22	<20	<20	
2000	ueff. (m/s)												3.9	3.1	2.5	2.3	2.1	1.9
	ΔPt (Pa)												30	19	14	13	11	10
	SPL (dBA)												34	28	25	23	<20	<20
2500	ueff. (m/s)													3.9	3.2	2.9	2.6	2.4
	ΔPt (Pa)													29	20	17	15	13
	SPL (dBA)													35	30	26	25	23
3000	ueff. (m/s)														3.8	3.5	3.2	2.9
	ΔPt (Pa)														28	24	20	18
	SPL (dBA)														34	30	28	26

HDKM-S ÜFLEYİCİ TİP DAİRESEL KANAL MENFEZİ KOLAY SEÇİM TABLOSU
HDKM-S SUPPLY TYPE ROUND DUCT GRILLE QUICK SELECTION TABLE

Aeff (m²): Efektif alan
 Ueff (m/s): Efektif hız
 V (m³/h): Hava debisi
 X (m): Atış mesafesi
 ΔPt (Pa): Toplam basınç kaybı

Effective area
Effective velocity
Air flow rate
Throw distance
Total pressure drop

		Üfleme															
		Aeff (m ²)															
V (m ³ /h)		0.016	0.020	0.026	0.029	0.038	0.045	0.053	0.064	0.072	0.084	0.096	0.109	0.136	0.160	0.194	0.230
100	ueff. (m/s)	1.7															
	X (m)	2.6															
	ΔPt (Pa)	11															
150	ueff. (m/s)	2.6	2.1														
	X (m)	4.8	4.3														
	ΔPt (Pa)	20	12														
200	ueff. (m/s)	3.5	2.8	2.1													
	X (m)	6.5	5.9	5.1													
	ΔPt (Pa)	35	22	14													
250	ueff. (m/s)	4.3	3.5	2.7	2.4												
	X (m)	7.3	6.9	6.2	5.7												
	ΔPt (Pa)	41	33	23	13												
300	ueff. (m/s)	5.2	4.2	3.2	2.9	2.2											
	X (m)	8.7	7.7	7.1	6.6	5.8											
	ΔPt (Pa)	59	45	33	20	12											
350	ueff. (m/s)		4.9	3.7	3.4	2.6	2.2										
	X (m)		8.6	8.1	7.7	6.7	6.2										
	ΔPt (Pa)		57	45	32	17	12										
400	ueff. (m/s)			4.3	3.8	2.9	2.5	2.1									
	X (m)			8.9	8.4	7.3	6.8	6.3									
	ΔPt (Pa)			54	44	22	14	12									
500	ueff. (m/s)				4.8	3.7	3.1	2.6	2.2								
	X (m)				9.7	8.7	7.9	7.2	6.8								
	ΔPt (Pa)				56	42	23	16	13								
600	ueff. (m/s)					4.4	3.7	3.1	2.6	2.3							
	X (m)					9.6	9.1	8.2	7.6	7.0							
	ΔPt (Pa)					55	41	25	17	14							
700	ueff. (m/s)					4.3	3.7	3.0	2.7	2.3							
	X (m)					9.7	9.3	8.4	7.8	7.2							
	ΔPt (Pa)					50	40	27	18	15							
800	ueff. (m/s)					4.9	4.2	3.5	3.1	2.6	2.3						
	X (m)					10.5	9.8	9.3	8.6	8.1	7.4						
	ΔPt (Pa)					57	54	40	29	20	17						
900	ueff. (m/s)						4.7	3.9	3.5	3.0	2.6	2.3					
	X (m)						10.7	9.9	9.5	8.8	8.3	7.7					
	ΔPt (Pa)						55	49	42	27	21	18					
1000	ueff. (m/s)							4.3	3.9	3.3	2.9	2.5					
	X (m)							10.4	10.0	9.4	8.9	8.4					
	ΔPt (Pa)							49	47	34	24	21					
1200	ueff. (m/s)								4.6	4.0	3.5	3.1	2.5	2.1			
	X (m)								11.0	10.4	9.9	9.4	8.7	8.3			
	ΔPt (Pa)								52	46	37	32	21	18			
1400	ueff. (m/s)									4.6	4.1	3.6	2.9	2.4			
	X (m)									11.6	10.7	10.1	9.5	8.9			
	ΔPt (Pa)									53	45	38	33	20			
1600	ueff. (m/s)										4.6	4.1	3.3	2.8	2.3		
	X (m)										12.1	11.7	11.2	9.7	9.1		
	ΔPt (Pa)										52	43	32	30	20		
1800	ueff. (m/s)											4.6	3.7	3.1	2.6	2.2	
	X (m)											12.7	11.9	11.3	9.8	9.4	
	ΔPt (Pa)											53	40	31	29	19	
2000	ueff. (m/s)												4.1	3.5	2.9	2.4	
	X (m)												12.5	11.8	11.0	10.0	
	ΔPt (Pa)												42	35	31	23	
2500	ueff. (m/s)													4.3	3.6	3.0	
	X (m)													12.9	12.2	11.4	
	ΔPt (Pa)													41	36	32	
3000	ueff. (m/s)														4.3	3.6	
	X (m)														14.0	12.7	
	ΔPt (Pa)														42	37	