

# HLTM

## LİF TUTUCU MENFEZ

### Fiber Filter Grille

#### TANIM

- **HLTM:** Lif Tutucu Menfez

#### MALZEME

Ürün kasası ve 0,5 x Ø0,3 mm gözenekli filtre kısmı AISI 304 kalite Cr - Ni paslanmaz çelik malzemeden imal edilmektedir.

#### UYGULAMA

HLTM tip menfezler havalandırma sistemlerinde emiş menfezi olarak kullanılırlar ve ortamdan emilen hava içerisinde bulunan istenmeyen partiküllerin tutulmasını sağlarlar. Bunun yanısıra havada uçuşan parçacıkların hava kanallarına girip birikmesini ve cihazlara ulaşip zarar vermesini engeller. Ameliyathaneler, temiz odalar ve tekstil sektöründeki hijyenik ortamlarda kullanılmaktadırlar. Gözenek yapısı tekstil ürünleri için istenen DIN 4185 standardına uygundur. Ayrıca filtre kısmı, civatayla açılabilir kapağı sayesinde kolayca sökülüp temizlenebilir.

#### MONTAJ

- Kanala veya duvara boğazdan gizli vidalı montaj.

#### DESCRIPTION

- **HLTM:** Fiber Filter Grille

#### MATERIAL

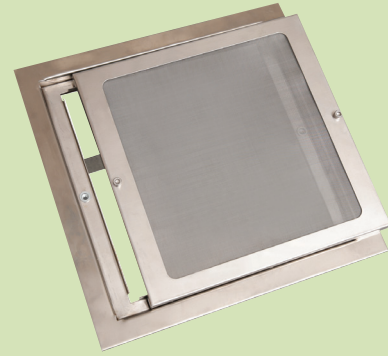
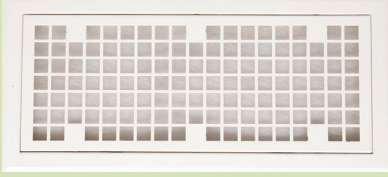
Product casing and 0,5 x Ø0,3 mm mesh filter section are manufactured from AISI 304 quality Cr - Ni stainless steel material.

#### APPLICATION

HLTM type grilles are used for return grilles in air-conditioning systems and ensure that unwanted particles in the air returned from the environment are filtered. In addition to this they prevent the pollution from particles in the air from accumulating in the air ducts and on the machines which may cause damage. They are used in hygienic environments such as operating theatres, clean rooms and in the textile sector. The structure of filter mesh is in accordance with DIN 4185 which is stipulated in the textile sector. Also the filter section can be easily disassembled and cleaned due to its screw secured cover.

#### ASSEMBLY

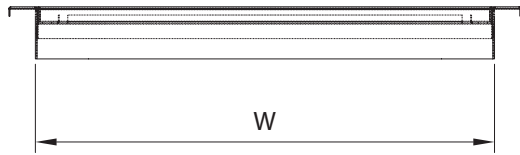
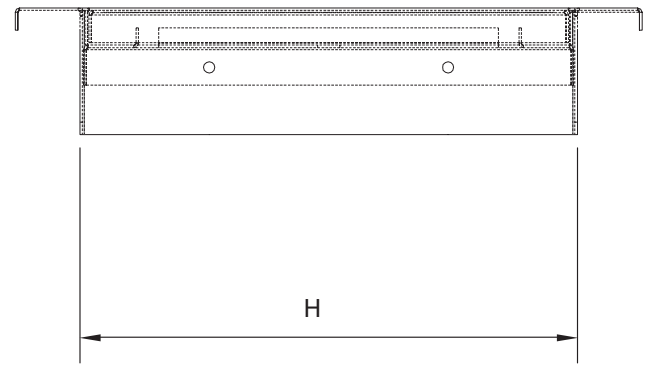
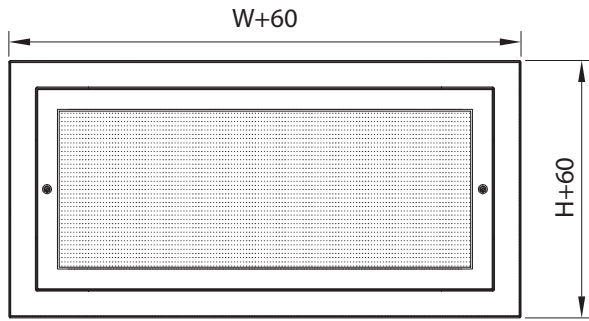
- Hidden screw assembly from neck to duct or wall



**LİF TUTUCU MENFEZİ ÖLÇÜLERİ ve EFEKTİF ALANLARI**  
**FIBER FILTER GRILLE DIMENSIONS and EFFECTIVE AREAS**

W: Boğaz genişliği (mm)  
H: Boğaz yüksekliği (mm)

Neck width (mm)  
Neck height (mm)



Aeff (m <sup>2</sup> )		W (mm)										
		200	250	300	350	400	450	500	550	600	650	700
H (mm)	200	0.021	0.028	0.035	0.042	0.050	0.057	0.064	0.071	0.078	0.086	0.093
	250	0.029	0.038	0.047	0.057	0.067	0.077	0.086	0.096	0.106	0.116	0.125
	300	0.034	0.047	0.060	0.072	0.084	0.096	0.108	0.121	0.133	0.145	0.157
	350	0.042	0.057	0.072	0.087	0.101	0.116	0.131	0.146	0.160	0.175	0.190
	400	0.050	0.067	0.084	0.101	0.118	0.136	0.153	0.170	0.187	0.205	0.222
	450	0.058	0.077	0.096	0.116	0.136	0.155	0.175	0.195	0.215	0.235	0.254
	500	0.064	0.086	0.108	0.131	0.153	0.175	0.197	0.220	0.242	0.264	0.286

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#### LİF TUTUCU MENFEZ KOLAY SEÇİM TABLOSU

FIBER FILTER GRILLE QUICK SELECTION TABLE

Aeff (m<sup>2</sup>): Efektif alan  
 Ueff (m/s): Efektif hız  
 V (m<sup>3</sup>/h): Hava debisi  
 ΔPt (Pa): Toplam basınç kaybı  
 SPL (dBA): Ses seviyesi

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

V (m <sup>3</sup> /h)		Aeff (m <sup>2</sup> )																	
		0.028	0.035	0.047	0.057	0.067	0.077	0.086	0.096	0.116	0.136	0.157	0.175	0.197	0.220	0.235	0.254	0.286	
200	ueff. (m/s)	2.0	1.6																
	ΔPt (Pa)	10	7																
	SPL (dBA)	<20	<20																
300	ueff. (m/s)	3.0	2.4	1.8	1.5														
	ΔPt (Pa)	24	15	9	7														
	SPL (dBA)	<20	<20	<20	<20														
400	ueff. (m/s)	4.0	3.2	2.4	1.9	1.7													
	ΔPt (Pa)	39	27	15	11	8													
	SPL (dBA)	23	21	<20	<20	<20													
500	ueff. (m/s)	5.0	4.0	3.0	2.4	2.1	1.8	1.6											
	ΔPt (Pa)	51	42	23	16	12	9	7											
	SPL (dBA)	35	31	24	<20	<20	<20	<20											
600	ueff. (m/s)		4.8	3.5	2.9	2.5	2.2	1.9	1.7										
	ΔPt (Pa)		49	33	23	17	13	10	9										
	SPL (dBA)		36	26	23	<20	<20	<20	<20										
700	ueff. (m/s)			4.1	3.4	2.9	2.5	2.3	2.0	1.7									
	ΔPt (Pa)			45	31	23	17	14	11	8									
	SPL (dBA)			30	27	23	21	<20	<20	<20									
800	ueff. (m/s)			4.7	3.9	3.3	2.9	2.6	2.3	1.9	1.6								
	ΔPt (Pa)			49	40	29	22	18	15	10	8								
	SPL (dBA)			36	30	26	24	21	<20	<20	<20								
900	ueff. (m/s)				4.4	3.7	3.2	2.9	2.6	2.2	1.8	1.6							
	ΔPt (Pa)				48	37	28	23	18	13	9	7							
	SPL (dBA)				35	28	26	24	21	<20	<20	<20							
1000	ueff. (m/s)					4.1	3.6	3.2	2.9	2.4	2.0	1.8	1.6						
	ΔPt (Pa)					44	35	28	23	16	12	9	7						
	SPL (dBA)					31	28	26	24	<20	<20	<20	<20						
1200	ueff. (m/s)						4.3	3.9	3.5	2.9	2.5	2.1	1.9	1.7	1.5				
	ΔPt (Pa)						48	40	32	22	16	13	10	8	7				
	SPL (dBA)						34	31	27	24	<20	<20	<20	<20	<20				
1400	ueff. (m/s)							4.5	4.1	3.4	2.9	2.5	2.2	2.0	1.8	1.7	1.5		
	ΔPt (Pa)							51	43	30	22	17	14	11	10	8	7		
	SPL (dBA)							34	32	27	20	<20	<20	<20	<20	<20	<20	<20	
1600	ueff. (m/s)								4.6	3.8	3.3	2.8	2.5	2.3	2.0	1.9	1.7	1.6	
	ΔPt (Pa)								53	39	29	22	18	14	11	10	9	7	
	SPL (dBA)								35	30	23	20	<20	<20	<20	<20	<20	<20	<20
1800	ueff. (m/s)									4.3	3.7	3.2	2.9	2.5	2.3	2.1	2.0	1.7	
	ΔPt (Pa)									49	36	27	22	18	15	13	11	8	
	SPL (dBA)									34	26	23	20	<20	<20	<20	<20	<20	<20
2000	ueff. (m/s)									4.8	4.1	3.5	3.2	2.8	2.5	2.4	2.2	1.9	
	ΔPt (Pa)									55	44	34	27	21	18	15	13	10	
	SPL (dBA)									41	28	23	22	20	<20	<20	<20	<20	<20