



FİTA TEKNİK

1952'den Beri / Since 1952

DEĞİŞKEN DEBİ HAVA AYAR DAMPERİ VARIABLE AIR VOLUME CONTROL DAMPER

Made in Türkiye

DEĞİŞKEN DEBİ HAVA AYAR DAMPERİ VARIABLE AIR FLOW CONTROL DAMPER

ÜRÜN KODU: VAV/VAP
PRODUCT CODE: VAV/VAP

GENEL BAKIŞ / OVERVIEW

VAV-C / VAV-R Değişken Debi Hava Ayar Damperleri, maksimum ve minimum hava debilerinin hassas bir biçimde dengeleneceği ortamlarda kullanılır. Bina otomasyon sistemleri veya termostattan iletilen veriler doğrultusunda, mahale gönderilen şartlandırılmış hava debisini düşük ses değerleri sağlayarak ayarlar. Ünite içerisindeki hava akış sensörüyle, anlık hava değişimini algılayarak damper kanatlarının pozisyonunu, kalibre edilen debide hava geçişi sağlayacak şekilde konumlandırır.

VAV-C / VAV-R Variable Air Flow Control Dampers, are used in environments where minimum and maximum air flow rates are to be precisely balanced. in line with the data transmitted from the building automation system or the thermostat, they adjust the calibrated air flow rate sent to the environment meanwhile providing low noise levels. With the air flow sensor inside the unit, they detect the instantaneous air change and position damper blades to provide air passage as the calibrated flow rate.



PRİZMATİK DEĞİŞKEN DEBİ HAVA AYAR DAMPERİ
PRISMATIC VARIABLE AIR FLOW CONTROL DAMPER

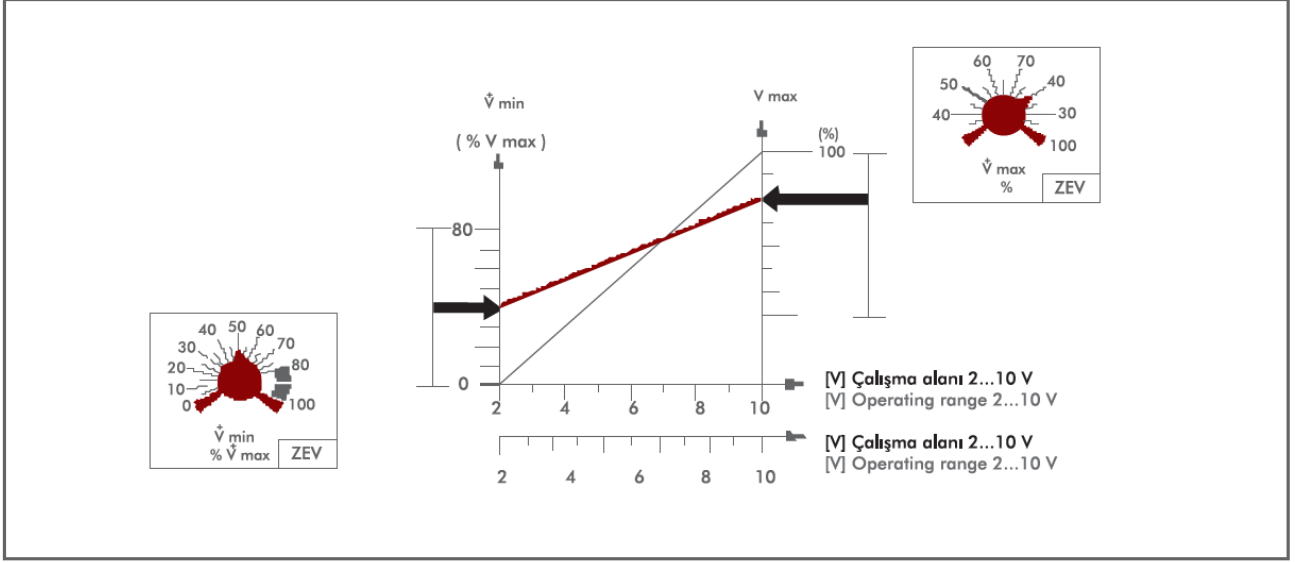


DAİRESEL DEĞİŞKEN DEBİ HAVA AYAR DAMPERİ
CIRCULAR VARIABLE AIR FLOW CONTROL DAMPER

Fita Teknik VAV-C / VAV-R Değişken Debi Hava Ayar Damperleri, 2006/42/AT Makina Emniyet Yönetmeliği referans alınarak, TS EN ISO 12100:2010, TS EN 60204-1, DiN 1946/4, DiN 1402-A2 ve DiN 24194 standartları doğrultusunda denetime tabi tutulmuş ve sertifikalandırılmıştır.

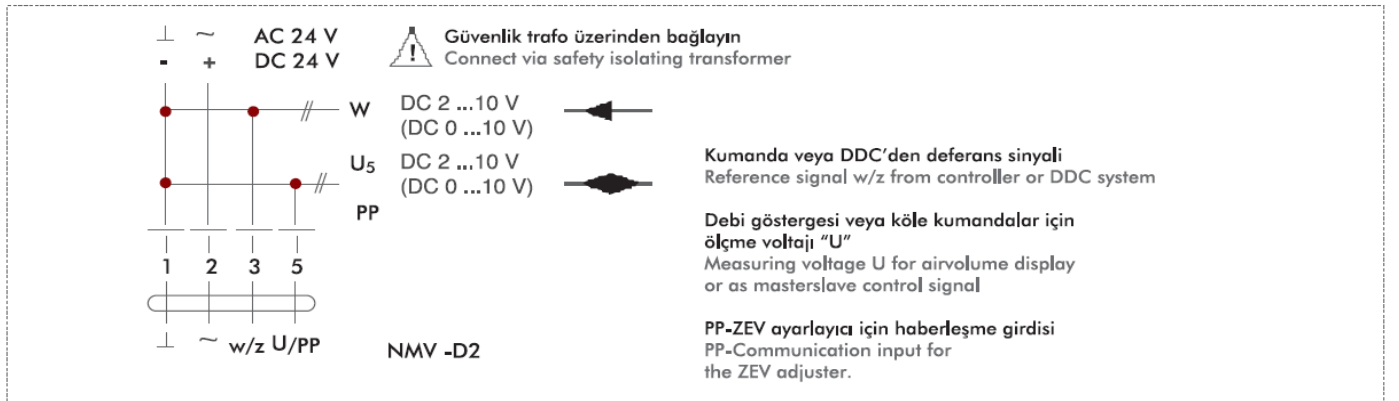
Fita Teknik VAV-C / VAV-R Variable Air Flow Control Dampers have been audited and certified based on 2006/42/AT Machinery Security Regulation and according to TS EN ISO 12100:2010, TS EN 60204-1, DiN 1946/4, DiN 1402-A2 ve DiN 24194 standards.

OTOMATİK KONTROL / AUTOMATIC CONTROL



ASHRAE terminolojisine uygun pilot tüpleri ile girişteki havanın toplam basınç ile statik basınçları arasındaki fark ölçülür ve bu ölçüm değeri elektronik kumanda merkezine iletilir. Toplam istasyonunda cihaz çapına bağlı olarak minimum 12 adet toplam basınç ölçme noktası bulunmaktadır. Aynı şekilde statik basınç ölçme istasyonunda da minimum 12 ölçme noktası bulunmaktadır. Bu noktalardan ölçülen değerlerin ortalamaları arasındaki diferansiyel basınç farkı dinamik olarak işlemci üniteye gönderilmektedir. İşlemci, bu değerlere BSM veya DDC ana kumanda sisteminden giden sinyalleri karşılaştırarak hava debisinin artırılması ya da azaltılması yönünde karar verir.

The difference between the total pressure and the static pressure of the inlet air is measured with pilot tubes in accordance with ASHRAE terminology and this measurement value is transmitted to the electronic control center. There are at least 12 total pressure measuring points depending on the device diameter in the total base station. Likewise, there are at least 12 measuring points in the static pressure measuring station. The differential pressure difference between the averages of the values measured from these points is sent to the processor unit dynamically. The processor decides whether to increase or decrease the airflow by comparing these numbers with the signals from the BSM or DDC main control system.



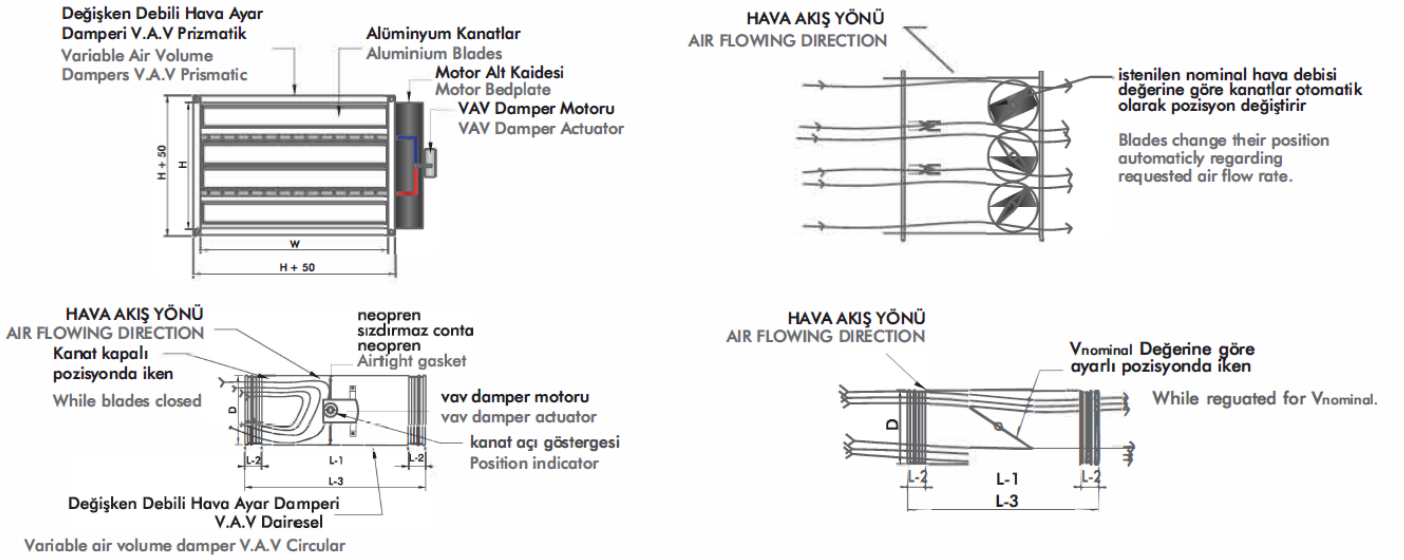
NMV-D2 kontrol elemanları 0-1 O VCD veya 2-1 0VCD oransal kumanda sinyali ile çalışmaktadır. 0-1 O VCD ile çalışma durumunda 1 O VCD kumanda sinyali maksimum kapasiteye, 0 VCD ise tam kapalı konuma tekamül eder. 0 VCD ise cihazın kapalı konumunu belirler.

Aşağıdaki şekilde görüldüğü gibi IDH-D ünitelerini otomatik-manuel olarak çalıştırmak mümkündür. Bunun uygulanması çoklmlu röle veya döner şalter vasıtasıyla gerçekleştirilir. U5 sinyali bağımlı üniteleri kontrol için kullanabildiği gibi geçmekte olan hava debisinin BMS'te okunmasını sağlar.

NMV-D2 control elements operate with a 0-10 VDC or 2-10 VDC proportional control signal. When operating with a 0-10 VDC signal, a 10 VDC control signal corresponds to maximum capacity, and 0 VDC corresponds to the fully closed position. 0 VDC also determines the closed position of the device.

As seen in the figure below, it is also possible to operate the IDH-D units in automatic or manual mode. This is achieved using a multi-pole relay or a rotary switch. The U5 signal can be used to control dependent units and also allows the air flow rate to be read in the BMS.

TAM OTOMATİK ÇALIŞMA DURUMU / FULLY AUTOMATIC OPERATION MODE



W : Genişlik (Sipariş Örneğine bkz.) / Width (Please refer to "How to Order")
H : Yükseklik (Sipariş Örneğine bkz.) / Height (Please refer to "How to Order")
F : Flanş yüksekliği W=400mm'ye kadar F=25mm, W=400mm, F=35mm / Flanş height Up to W=400mm'ye kadar F=25mm, W=400mm, F=35mm
İzolasyon : Üzeri galvaniz sac kaplı 25 mm cam yünü / Insulation is 25 mm glasswool and covered galvanized sheet.

STANDART ÖLÇÜLER / STANDARD DIMENSIONS

VAV terminal units have a wide range of models and meet all kinds of technical demands. Requests other than the specified dimensions can be produced specially.

VAV terminal üniteleri geniş bir model yelpazesine sahip olup her türlü teknik talebi karşılamaktadır. Belirtilen ölçüler dışında talepler özel olarak imal edilebilir.

VAV-C

ÇAP - DIAMETER										
100	125	160	200	250	315	350	400	450	500	550

Yükseklik - Height												
Genişlik Width	200	250	300	350	400	450	500	600	700	800	900	1000
200	●											
250	●	●										
300	●	●	●									
350	●	●	●	●								
400	●	●	●	●	●							
450	●	●	●	●	●	●						
500	●	●	●	●	●	●	●					
550		●	●	●	●	●	●					
600			●	●	●	●	●	●				
650			●	●	●	●	●	●				
700			●	●	●	●	●	●	●			
800				●	●	●	●	●	●	●		
900					●	●	●	●	●	●	●	
1000					●	●	●	●	●	●		●

VAV ünitelerinin nominal debileri fabrikada kalibre edilmektedir ve bu debiler 10 m/s'ye hava giriş hızına ve ana kontrol cihazından gelen 10 VCD kumanda sinyaline tekabül etmektedir.

Minimum hava debisi fabrikada kalibre edilmiş olup 2 VCD kumanda sinyali girişine tekabül etmektedir Bu nedenle BSM veya DDC kumanda sistemleri kullanılan yerlerde giriş kumanda sinyali 2 ila 10 VCD arasındaki değişik değerlerde limitlenerek farklı debilere ayarlamak mümkündür.

VAV üniteleri,talep edildiği takdirde, belirtilen debiler haricinde de, belirtilen değerler arasında kalmak şartıyla kalibre edilebilirler. Bu durumda, 10 VCD ayarı müşterinin V max talebine eşit olacaktır. Vmin talebi de VCD'ye tekabül edecektir.

The nominal flow rates of the VAV units are calibrated at the factory and these flow rates correspond to an air intake velocity of 10 m/s and a 10 VCD control signal from the main controller.

The minimum air flow is calibrated at the factory and corresponds to 2 VCD control signal inputs. Therefore, in places where BSM or DDC control systems are used, it is possible to set different flow rates by limiting the input control signal to different values between 2 and 10 VCD.

If requested, it is possible to make different adjustments in between the above given flow rates.

v=2 m/s

Genişlik Width					YÜKSEKLİK/ HEIGHT							
	200	250	300	350	400	450	500	600	700	800	900	1000
200	288											
250	360	450										
300	432	540	648									
350	504	630	756	882								
400	576	720	864	1008	1152							
450	648	810	972	1134	1296	1458						
500	720	900	1080	1260	1440	1620	1800					
550		990	1188	1386	1584	1782	1980					
600			1296	1512	1728	1944	2160	2592				
650			1404	1638	1872	2106	2340	2808				
700			1512	1764	2016	2268	2520	3024	3528			
800				2016	2304	2592	2880	3456	4032	4608		
900					2592	2916	3240	3888	4536	5184	5832	
1000					2880	3240	3600	4320	5040	5760	6480	7200

v=4 m/s

Genişlik Width	YÜKSEKLİK/ HEIGHT											
	200	250	300	350	400	450	500	600	700	800	900	1000
200	576											
250	720	900										
300	884	1080	1296									
350	1008	1260	1512	1764								
400	1152	1440	1728	2016	2304							
450	1296	1620	1944	2268	2592	2916						
500	1440	1800	2160	2520	2880	3240	3600					
550		1980	2376	2772	3168	3564	3960					
600			2592	3024	3456	3888	4320	5184				
650			2808	3276	3744	4212	4680	5616				
700			3024	3528	4032	4536	5040	6043	7056			
800				4032	4608	5184	5760	6912	8064	9216		
900					5184	5832	6480	7776	9072	10368	11664	
1000					5760	6480	7200	8640	10080	11520	12960	14400

v=6 m/s

Genişlik Width	YÜKSEKLİK/ HEIGHT											
	200	250	300	350	400	450	500	600	700	800	900	1000
200	864											
250	1080	1350										
300	1296	1620	1944									
350	1512	1890	2668	2646								
400	1728	2160	2592	3024	4374							
450	1944	2430	2916	3402	3888	4374						
500	2160	2700	3240	3780	4320	4860	5400					
550		2970	3564	4158	4752	5346	5940					
600			3888	4536	5184	5832	6480	7776				
650			4212	4914	5616	6318	7560	8424				
700			4536	5292	6048	6804	7560	9072	10584			
800				6048	6912	7776	8640	10368	12096	13824		
900					776	8748	9720	11664	13608	15552	17496	
1000					8640	9720	10800	12960	15120	17280	19440	21600

v=8 m/s

Genişlik Width	YÜKSEKLİK/ HEIGHT											
	200	250	300	350	400	450	500	500	700	800	900	1000
200	1152											
250	1440	1800										
300	1728	2160	2592									
350	2016	2520	3024	3528								
400	2304	2880	3456	4032	4508							
450	2592	3240	3888	4536	5184	5832						
500	2880	3600	4320	5040	5760	6480	7200					
550		3690	4752	5544	6336	6968	7920					
600			5184	6048	6904	7776	8640	10368				
650			5616	6552	7488	8424	9360	11232				
700			6048	7056	8064	9072	10080	12096	14112			
800				8064	9216	10368	11520	13824	16128	18432		
900					10368	11664	12960	15552	18144	20736	23328	
1000					11520	12690	14400	17280	20160	23040	25920	28800

v=10 m/s

Genişlik Width	YÜKSEKLİK/ HEIGHT											
	200	250	300	350	400	450	500	600	700	800	900	1000
200	1440											
250	1800	2250										
300	2160	2700	3240									
350	2520	3150	3780	4410								
400	2880	3600	4320	5040	5760							
450	3240	4050	4860	5670	6480	72920						
500	3600	4500	5400	6300	7200	8100	9000					
550		4950	5940	6930	7920	8710	9900					
600			6480	7560	8630	9720	10800	12960				
650			7020	8190	9360	10530	11700	14040				
700			7560	8820	10080	11340	12600	15120	17640			
800				10080	11520	12960	14400	17280	20160	23040		
900					12960	14580	16200	19440	22680	25920	29160	
1000					14400	16200	18000	21600	25200	28800	31400	36000

50 PASCAL BASINÇ İÇİN SES SEVİYELERİ /
NOISE LEVELS WITH 50 PA PRESSURE

ÜRÜN KODU: VAV/VAP
PRODUCT CODE: VAV/VAP

ROW	ÜRÜN KODU / PRODUCT CODE	DEBİ / AIRFLOW [m³/h]	HAVA SESİ / AIR REGENERATED NOISE L, W, A	GÖVDEDEN YAYILAN SES / CASE RADIATED NOISE L, W, A	HAVA SESİ / AIR REGENERATED NOISE L, P, A	GÖVDEDEN YAYILAN SES / CASE RADIATED NOISE L, P, A	HAVA AKIM HIZI / AIRFLOW VELOCITY V [M/S]
1	VAV-R - 200*200	500	45	32	37	23	3,47
2	VAV-R - 200*200	850	47	34	36	25	5,9
3	VAV-R - 200*200	1200	48	36	36	27	8,33
4	VAV-R - 300*300	1400	49	36	36	27	4,32
5	VAV-R - 300*300	2100	50	38	36	29	6,48
6	VAV-R - 300*300	2800	51	39	35	30	8,64
7	VAV-R - 400*400	3000	51	39	35	30	5,21
8	VAV-R - 400*400	4000	52	40	35	31	6,94
9	VAV-R - 400*400	5000	53	41	35	32	8,68
10	VAV-R - 500*500	4000	52	40	35	31	4,44
11	VAV-R - 500*500	5500	54	41	35	32	6,11
12	VAV-R - 500*500	7000	54	42	34	33	7,78
13	VAV-R - 600*600	5500	53	41	35	32	4,24
14	VAV-R - 600*600	8000	55	42	34	33	6,17
15	VAV-R - 600*600	10500	56	43	34	34	8,1
16	VAV-R - 700*700	8000	55	42	34	33	4,54
17	VAV-R - 700*700	11500	56	44	34	35	6,52
18	VAV-R - 700*700	15000	57	45	34	36	8,5
19	VAV-R - 800*800	10000	55	43	43	34	4,34
20	VAV-R - 800*800	14000	57	44	34	35	6,08
21	VAV-R - 800*800	18000	58	45	33	36	7,81
22	VAV-R - 900*900	13000	56	44	34	35	4,46
23	VAV-R - 900*900	19000	58	45	33	36	6,52
24	VAV-R - 900*900	24000	59	46	33	37	8,23
25	VAV-R - 1000*1000	15000	57	44	34	35	4,17
26	VAV-R - 1000*1000	22000	58	46	33	37	6,11
27	VAV-R - 1000*1000	29000	59	47	33	38	8,06

100 PASCAL BASINÇ İÇİN SES SEVİYELERİ /
NOISE LEVELS WITH 100 PA PRESSURE

ROW	ÜRÜN KODU / PRODUCT CODE	DEBİ / AIRFLOW [m³/h]	HAVA SESİ / AIR REGENERATED NOISE L, W, A	GÖVDEDEN YAYILAN SES / CASE RADIATED NOISE L, W, A	HAVA SESİ / AIR REGENERATED NOISE L, P, A	GÖVDEDEN YAYILAN SES / CASE RADIATED NOISE L, P, A	HAVA AKIM HIZI / AIRFLOW VELOCITY V [M/S]
1	vap - 200*200	500	52	39	44	30	3,47
2	vap - 200*200	850	54	42	44	33	5,9
3	vap - 200*200	1200	55	43	43	34	8,33
4	vap - 300*300	1400	56	43	43	34	4,32
5	vap - 300*300	2100	57	45	43	36	6,48
6	vap - 300*300	2800	58	46	43	37	8,64
7	vap 400*400	3000	58	46	42	37	5,21
8	vap 400*400	4000	60	47	42	38	6,94
9	vap 400*400	5000	60	48	42	39	8,68
10	vap 500*500	4000	59	47	42	38	4,44
11	vap 500*500	5500	61	48	42	39	6,11
12	vap 500*500	7000	62	49	42	40	7,78
13	vap 600*600	5500	60	48	42	39	4,24
14	vap 600*600	8000	62	49	42	40	6,17
15	vap 600*600	10500	63	50	41	41	8,1
16	vap - 700*700	8000	62	49	41	40	4,54
17	vap - 700*700	11500	63	51	41	42	6,52
18	vap - 700*700	15000	64	52	41	43	8,5
19	vap - 800*800	10000	63	50	41	41	4,34
20	vap - 800*800	14000	64	51	41	42	6,08
21	vap - 800*800	18000	65	52	41	43	7,81
22	vap - 900*900	13000	63	51	41	42	4,46
23	vap - 900*900	19000	65	52	41	43	6,52
24	vap - 900*900	24000	66	53	41	44	8,23
25	vap - 1000*1000	15000	64	51	41	42	4,17
26	vap - 1000*1000	22000	65	53	41	44	6,11
27	vap - 1000*1000	29000	67	54	40	45	8,06

250 PASCAL BASINÇ İÇİN SES SEVİYELERİ /
NOISE LEVELS WITH 250 PA PRESSURE

ÜRÜN KODU: VAV/VAP
PRODUCT CODE: VAV/VAP

ROW	ÜRÜN KODU / PRODUCT CODE	DEBİ / AIRFLOW [m³/h]	HAVA SESİ / AIR REGENERATED NOISE L, W, A	GÖVDEDEN YAYILAN SES / CASE RADIATED NOISE L, W, A	HAVA SESİ / AIR REGENERATED NOISE L, P, A	GÖVDEDEN YAYILAN SES / CASE RADIATED NOISE L, P, A	HAVA AKIM HIZI / AIRFLOW VELOCITY V [M/S]
1	VAV-R - 200*200	500	61	49	53	40	3,47
2	VAV-R - 200*200	850	63	51	53	42	5,9
3	VAV-R - 200*200	1200	65	52	53	43	8,33
4	VAV-R - 300*300	1400	65	52	52	43	4,32
5	VAV-R - 300*300	2100	67	54	52	45	6,48
6	VAV-R - 300*300	2800	68	55	52	46	8,64
7	VAV-R 400*400	3000	68	55	52	46	5,21
8	VAV-R 400*400	4000	69	56	52	47	6,94
9	VAV-R 400*400	5000	70	57	52	48	8,68
10	VAV-R 500*500	4000	69	56	52	47	4,44
11	VAV-R 500*500	5500	70	57	51	48	6,11
12	VAV-R 500*500	7000	71	58	51	49	7,78
13	VAV-R 600*600	5500	70	57	51	48	4,24
14	VAV-R 600*600	8000	71	59	51	50	6,17
15	VAV-R 600*600	10500	72	60	51	51	8,1
16	VAV-R - 700*700	8000	71	59	51	50	4,54
17	VAV-R - 700*700	11500	73	60	51	51	6,52
18	VAV-R - 700*700	15000	74	61	51	52	8,5
19	VAV-R - 800*800	10000	72	59	51	50	4,34
20	VAV-R - 800*800	14000	73	61	51	52	6,08
21	VAV-R - 800*800	18000	74	62	50	53	7,81
22	VAV-R - 900*900	13000	73	60	51	51	4,46
23	VAV-R - 900*900	19000	74	62	50	53	6,52
24	VAV-R - 900*900	24000	75	63	50	54	8,23
25	VAV-R - 1000*1000	15000	73	61	50	52	4,17
26	VAV-R - 1000*1000	22000	75	62	50	53	6,11
27	VAV-R - 1000*1000	29000	76	63	50	54	8,06

500 PASCAL BASINÇ İÇİN SES SEVİYELERİ /
NOISE LEVELS WITH 500 PA PRESSURE

ROW	ÜRÜN KODU / PRODUCT CODE	DEBİ / AIRFLOW [m³/h]	HAVA SESİ / AIR REGENERATED NOISE L, W, A	GÖVDEDEN YAYILAN SES / CASE RADIATED NOISE L, W, A	HAVA SESİ / AIR REGENERATED NOISE L, P, A	GÖVDEDEN YAYILAN SES / CASE RADIATED NOISE L, P, A	HAVA AKIM HIZI / AIRFLOW VELOCITY V [M/S]
1	VAV-R - 200*200	500	68	56	60	47	3,47
2	VAV-R - 200*200	850	70	58	60	49	5,9
3	VAV-R - 200*200	1200	72	59	60	50	8,33
4	VAV-R - 300*300	1400	72	60	60	51	4,32
5	VAV-R - 300*300	2100	74	61	59	52	6,48
6	VAV-R - 300*300	2800	75	62	59	58	8,64
7	VAV-R 400*400	3000	75	62	59	53	5,21
8	VAV-R 400*400	4000	76	63	59	54	6,94
9	VAV-R 400*400	5000	77	64	59	55	8,68
10	VAV-R 500*500	4000	76	63	59	54	4,44
11	VAV-R 500*500	5500	77	65	59	56	6,11
12	VAV-R 500*500	7000	78	65	58	56	7,78
13	VAV-R 600*600	5500	77	64	58	55	4,24
14	VAV-R 600*600	8000	78	66	58	57	6,17
15	VAV-R 600*600	10500	79	67	58	58	8,1
16	VAV-R - 700*700	8000	78	66	58	57	4,54
17	VAV-R - 700*700	11500	80	67	58	58	6,52
18	VAV-R - 700*700	15000	81	68	58	59	8,5
19	VAV-R - 800*800	10000	79	66	58	57	4,34
20	VAV-R - 800*800	14000	80	68	58	59	6,08
21	VAV-R - 800*800	18000	81	69	58	60	7,81
22	VAV-R - 900*900	13000	80	67	58	58	4,46
23	VAV-R - 900*900	19000	81	69	57	60	6,52
24	VAV-R - 900*900	24000	82	70	57	61	8,23
25	VAV-R - 1000*1000	15000	80	68	57	59	4,17
26	VAV-R - 1000*1000	22000	82	69	57	60	6,11
27	VAV-R - 1000*1000	29000	83	70	57	61	8,06

1000 PASCAL BASINÇ İÇİN SES SEVİYELERİ /
NOISE LEVELS WITH 1000 PA PRESSURE

ÜRÜN KODU: VAV/VAP
PRODUCT CODE: VAV/VAP

ROW	ÜRÜN KODU / PRODUCT CODE	DEBİ / AIRFLOW [m³/h]	HAVA SESİ / AIR REGENERATED NOISE L, W, A	GÖVDEDEN YAYILAN SES / CASE RADIATED NOISE L, W, A	HAVA SESİ / AIR REGENERATED NOISE L, P, A	GÖVDEDEN YAYILAN SES / CASE RADIATED NOISE L, P, A	HAVA AKIM HIZI / AIRFLOW VELOCITY V [M/S]
1	VAV-R - 200*200	500	75	63	67	54	3,47
2	VAV-R - 200*200	850	78	65	67	56	5,9
3	VAV-R - 200*200	1200	79	66	67	67	8,33
4	VAV-R - 300*300	1400	79	67	67	58	4,32
5	VAV-R - 300*300	2100	81	68	66	59	6,48
6	VAV-R - 300*300	2800	82	69	66	60	8,64
7	VAV-R 400*400	3000	82	69	66	60	5,21
8	VAV-R 400*400	4000	83	71	66	62	6,94
9	VAV-R 400*400	5000	84	71	66	62	8,68
10	VAV-R 500*500	4000	83	70	66	61	4,44
11	VAV-R 500*500	5500	84	72	66	63	6,11
12	VAV-R 500*500	7000	85	73	66	64	7,78
13	VAV-R 600*600	5500	84	71	65	62	4,24
14	VAV-R 600*600	8000	85	73	65	64	6,17
15	VAV-R 600*600	10500	86	74	65	65	8,1
16	VAV-R - 700*700	8000	85	73	65	64	4,54
17	VAV-R - 700*700	11500	87	74	65	65	6,52
18	VAV-R - 700*700	15000	88	75	65	66	8,5
19	VAV-R - 800*800	10000	86	73	65	64	4,34
20	VAV-R - 800*800	14000	87	75	65	66	6,08
21	VAV-R - 800*800	18000	88	76	65	67	7,81
22	VAV-R - 900*900	13000	87	74	65	65	4,46
23	VAV-R - 900*900	19000	88	76	65	67	6,52
24	VAV-R - 900*900	24000	89	77	64	68	8,23
25	VAV-R - 1000*1000	15000	87	75	65	66	4,17
26	VAV-R - 1000*1000	22000	89	76	64	67	6,11
27	VAV-R - 1000*1000	29000	90	78	64	69	8,06

50 PASCAL BASINÇ İÇİN SES SEVİYELERİ /
NOISE LEVELS WITH 50 PA PRESSURE

ROW	ÜRÜN KODU / PRODUCT CODE	DEBİ / AIRFLOW [m³/h]	HAVA SESİ / AIR REGENERATED NOISE L, W, A	GÖVDEDEN YAYILAN SES / CASE RADIATED NOISE L, W, A	HAVA SESİ / AIR REGENERATED NOISE L, P, A	GÖVDEDEN YAYILAN SES / CASE RADIATED NOISE L, P, A	HAVA AKIM HIZI / AIRFLOW VELOCITY V [M/S]
1	VAV-C - 100	100	41	25	33	16	3,68
2	VAV-C - 100	150	45	29	37	20	5,52
3	VAV-C - 100	200	48	32	40	23	7,37
4	VAV-C - 125	150	40	24	32	15	3,51
5	VAV-C - 125	225	43	27	35	18	5,26
6	VAV-C - 125	300	46	30	37	21	7,01
7	VAV-C 160	275	45	26	37	17	3,9
8	VAV-C 160	400	47	28	39	19	5,67
9	VAV-C 160	525	49	30	41	21	7,44
10	VAV-C 200	425	47	28	39	19	3,83
11	VAV-C 200	625	50	31	41	22	5,64
12	VAV-C 200	800	52	33	41	24	7,22
13	VAV-C 250	710	48	33	38	24	4,08
14	VAV-C 250	950	50	35	39	26	5,46
15	VAV-C 250	1100	51	36	39	27	6,33
16	VAV-C - 315	1000	49	35	38	26	3,61
17	VAV-C - 315	1500	52	38	39	29	5,42
18	VAV-C - 315	2000	54	40	40	31	7,22
22	VAV-C - 400	2200	48	34	34	25	4,91
23	VAV-C - 400	2800	49	35	34	26	6,25
24	VAV-C - 400	3400	50	36	34	27	7,59

100 PASCAL BASINÇ İÇİN SES SEVİYELERİ /
NOISE LEVELS WITH 100 PA PRESSURE

ÜRÜN KODU: VAV/VAP
PRODUCT CODE: VAV/VAP

ROW	ÜRÜN KODU / PRODUCT CODE	DEBİ / AIRFLOW [m³/h]	HAVA SESİ / AIR REGENERATED NOISE L, W, A	GÖVDEDEN YAYILAN SES / CASE RADIATED NOISE L, W, A	HAVA SESİ / AIR REGENERATED NOISE L, P, A	GÖVDEDEN YAYILAN SES / CASE RADIATED NOISE L, P, A	HAVA AKIM HIZI / AIRFLOW VELOCITY V [M/S]
1	VAV-C - 100	100	47	31	39	22	3,68
2	VAV-C - 100	150	51	35	43	26	5,52
3	VAV-C - 100	200	54	38	46	29	7,37
4	VAV-C - 125	150	46	30	39	21	3,51
5	VAV-C - 125	225	50	34	42	25	5,26
6	VAV-C - 125	300	52	36	44	27	7,01
7	VAV-C 160	275	51	32	43	23	3,9
8	VAV-C 160	400	54	35	46	26	5,67
9	VAV-C 160	525	56	37	48	28	7,44
10	VAV-C 200	425	53	34	45	25	3,83
11	VAV-C 200	625	56	37	47	28	5,64
12	VAV-C 200	800	57	38	47	29	7,22
13	VAV-C 250	710	53	38	44	29	4,08
14	VAV-C 250	950	55	40	44	31	5,46
15	VAV-C 250	1100	56	41	45	32	6,33
16	VAV-C - 315	1000	55	41	44	32	3,61
17	VAV-C - 315	1500	58	44	45	35	5,42
18	VAV-C - 315	2000	60	46	46	37	7,22
22	VAV-C - 400	2200	56	42	41	33	4,91
23	VAV-C - 400	2800	57	43	42	34	6,25
24	VAV-C - 400	3400	58	44	42	35	7,59

250 PASCAL BASINÇ İÇİN SES SEVİYELERİ /
NOISE LEVELS WITH 250 PA PRESSURE

ROW	ÜRÜN KODU / PRODUCT CODE	DEBİ / AIRFLOW [m³/h]	HAVA SESİ / AIR REGENERATED NOISE L, W, A	GÖVDEDEN YAYILAN SES/ CASE RADIATED NOISE L, W, A	HAVA SESİ / AIR REGENERATED NOISE L, P, A	GÖVDEDEN YAYILAN SES / CASE RADIATED NOISE L, P, A	HAVA AKIM HIZI / AIRFLOW VELOCITY V [M/S]
1	VAV-C - 100	100	55	39	47	30	3,68
2	VAV-C - 100	150	59	43	51	34	5,52
3	VAV-C - 100	200	62	46	54	37	7,37
4	VAV-C - 125	150	55	39	47	30	3,51
5	VAV-C - 125	225	58	42	51	33	5,26
6	VAV-C - 125	300	61	45	53	36	7,01
7	VAV-C - 160	275	60	41	52	32	3,9
8	VAV-C - 160	400	62	43	55	34	5,67
9	VAV-C - 160	525	64	45	56	36	7,44
10	VAV-C - 200	425	61	42	53	33	3,83
11	VAV-C - 200	625	63	44	54	35	5,64
12	VAV-C - 200	800	65	46	55	37	7,22
13	VAV-C - 250	710	61	46	51	37	4,08
14	VAV-C - 250	950	62	47	52	38	5,46
15	VAV-C - 250	1100	63	48	52	39	6,33
16	VAV-C - 315	1000	63	49	52	40	3,61
17	VAV-C - 315	1500	66	52	53	43	5,42
18	VAV-C - 315	2000	68	54	54	45	7,22
22	VAV-C - 400	2200	66	52	51	43	4,91
23	VAV-C - 400	2800	67	53	52	44	6,25
24	VAV-C - 400	3400	68	54	52	45	7,59

500 PASCAL BASINÇ İÇİN SES SEVİYELERİ /
NOISE LEVELS WITH 500 PA PRESSURE

ÜRÜN KODU: VAV/VAP
PRODUCT CODE: VAV/VAP

ROW	ÜRÜN KODU / PRODUCT CODE	DEBİ / AIRFLOW [m³/h]	HAVA SESİ / AIR REGENERATED NOISE L, W, A	GÖVDEDEN YAYILAN SES / CASE RADIATED NOISE L, W, A	HAVA SESİ / AIR REGENERATED NOISE L, P, A	GÖVDEDEN YAYILAN SES / CASE RADIATED NOISE L, P, A	HAVA AKIM HIZI / AIRFLOW VELOCITY V [M/S]
1	VAV-C - 100	100	61	45	53	36	3,68
2	VAV-C - 100	150	65	49	57	40	5,52
3	VAV-C - 100	200	68	52	60	43	7,37
4	VAV-C - 125	150	62	46	54	37	3,51
5	VAV-C - 125	225	65	49	57	40	5,26
6	VAV-C - 125	300	67	51	59	42	7,01
7	VAV-C - 160	275	66	47	59	38	3,9
8	VAV-C - 160	400	69	50	61	41	5,67
9	VAV-C - 160	525	71	52	63	43	7,44
10	VAV-C - 200	425	67	48	59	39	3,83
11	VAV-C - 200	625	69	50	60	41	5,64
12	VAV-C - 200	800	71	52	61	43	7,22
13	VAV-C - 250	710	66	51	57	42	4,08
14	VAV-C - 250	950	68	53	57	44	5,46
15	VAV-C - 250	1100	69	54	57	45	6,33
16	VAV-C - 315	1000	69	55	58	46	3,61
17	VAV-C - 315	1500	72	58	59	49	5,42
18	VAV-C - 315	2000	74	60	60	51	7,22
22	VAV-C - 400	2200	74	60	60	51	4,91
23	VAV-C - 400	2800	75	61	59	52	6,25
24	VAV-C - 400	3400	76	62	59	53	7,59

1000 PASCAL BASINÇ İÇİN SES SEVİYELERİ /
NOISE LEVELS WITH 1000 PA PRESSURE

ROW	ÜRÜN KODU / PRODUCT CODE	DEBİ / AIRFLOW [m³/h]	HAVA SESİ / AIR REGENERATED NOISE L, W, A	GÖVDEDEN YAYILAN SES / CASE RADIATED NOISE L, W, A	HAVA SESİ / AIR REGENERATED NOISE L, P, A	GÖVDEDEN YAYILAN SES / CASE RADIATED NOISE L, P, A	HAVA AKIM HIZI / AIRFLOW VELOCITY V [M/S]
1	VAV-C - 100	100	67	51	59	42	3,68
2	VAV-C - 100	150	71	55	63	46	5,52
3	VAV-C - 100	200	74	58	66	49	7,37
4	VAV-C - 125	150	68	52	60	43	3,51
5	VAV-C - 125	225	71	55	64	46	5,26
6	VAV-C - 125	300	74	58	66	49	7,01
7	VAV-C 160	275	73	54	65	45	3,9
8	VAV-C 160	400	76	57	68	48	5,67
9	VAV-C 160	525	77	58	69	49	7,44
10	VAV-C 200	425	72	53	64	44	3,83
11	VAV-C 200	625	75	56	66	47	5,64
12	VAV-C 200	800	77	58	67	49	7,22
13	VAV-C 250	710	72	57	62	48	4,08
14	VAV-C 250	950	73	58	63	49	5,46
15	VAV-C 250	1100	74	59	63	50	6,33
16	VAV-C - 315	1000	75	61	64	52	3,61
17	VAV-C - 315	1500	78	64	65	55	5,42
18	VAV-C - 315	2000	80	66	66	57	7,22
22	VAV-C - 400	2200	81	67	66	58	4,91
23	VAV-C - 400	2800	82	68	67	59	6,25
24	VAV-C - 400	3400	83	69	67	60	7,59

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