GRADA

EXPERT
IN AIR DISTRIBUTION

www.grada.com

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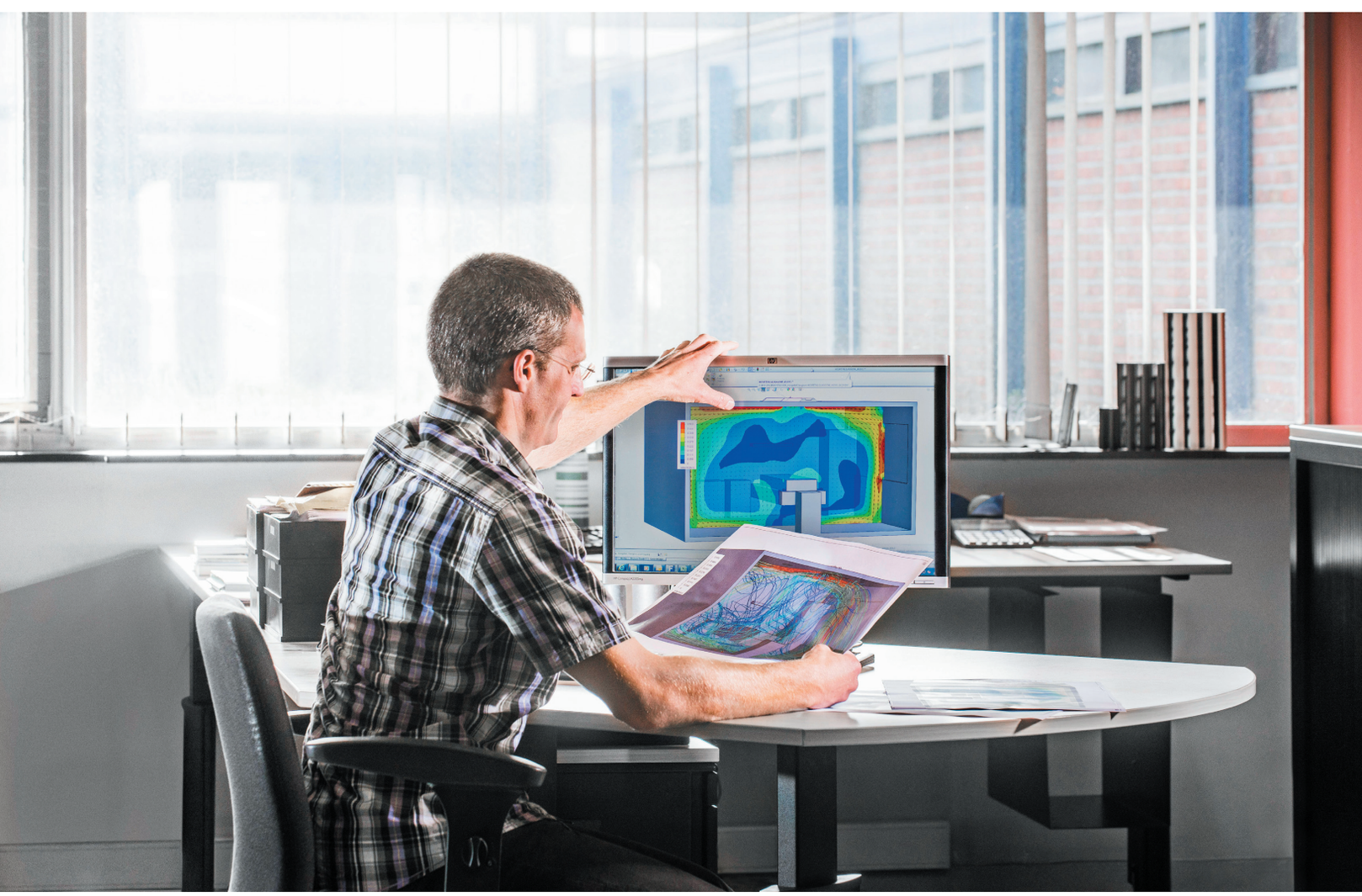
QUICK RESPONSE CULTURE
SMART SOLUTIONS
EXPERT IN AIR DISTRIBUTION AND CONTROL
EXTENSIVE TECHNICAL SUPPORT

MISSION

Our mission is to continuously develop and deliver smart solutions for your air distribution projects. We strive to offer you extensive technical support and we are committed to having the shortest lead times in the industry.

VISION

Providing a peace of mind. We believe it is our responsibility to produce high quality products and to provide you with the tools necessary to develop the best performing air distribution systems.



GRADA INTERNATIONAL

For over half a century Grada International has been a reliable partner and expert supplier of smart solutions in the field of air distribution, air control and air comfort for residential, commercial, industrial and public buildings. We have more than 50 years of experience in the development, production and sales of air diffusers and air flow controllers.

CONTRIBUTING TOWARDS A MORE COMFORTABLE AND HEALTHIER BUILDING ENVIRONMENT.

CORE COMPETENCIES

- QUICK RESPONSE CULTURE
- SMART SOLUTIONS
- SHORTEST LEAD TIMES IN THE MARKET
- EXPERT IN AIR DISTRIBUTION AND CONTROL
- EXTENSIVE TECHNICAL SUPPORT
- INHOUSE TESTING AND VALIDATION
- DEVELOPED AND MANUFACTURED IN EUROPE, ACCORDING TO STRICT MANUFACTURING QUALITY STANDARDS

EUROPEAN

As a Belgian manufacturer we have a strong presence in Europe with our own sales offices in Belgium and France.

Our sales offices in Belgium and France and our production plant in Belgium, in the heart of Europe, give you the certainty that the products will be delivered in time.

GRADA PRODUCTION & SALES OFFICE (HEAD OFFICE)

TOEKOMSTLAAN 18
9160 LOKEREN
BELGIUM
T +32 (0)9 340 40 40
F +32 (0)9 340 40 50
info@grada.be

GRADA FRANCE

6 RUE JEAN ROISIN 59800
LILLE
FRANCE
T +33 3 20 11 63 90
isdfrance@gradafrance.com
devis@gradafrance.com

CUSTOMER QUOTE :

“ I received the products from Grada even before I received the offer from their competitor! ”

HIGH QUALITY STANDARDS

Our products are being carefully developed in our headquarters in Belgium. Starting from sheet steel or extruded aluminum profiles to ultimately a finished, coated and packaged product.

ACOUSTICS & COMFORT LAB

Being a reliable supplier of air diffusers means that all selection data are consistent and accurate. We have a well-equipped laboratory for acoustic and comfort measurements to ensure this. Our specialists and technicians can rely on years of experience and are driven by continuous improvement.

SHORTEST LEAD TIMES

Thanks to an efficient quick response manufacturing process, smart inventory management and the excellent logistics department we can offer you very fast delivery times.

MADE TO ORDER

We design and manufacture any type of diffuser, plenum box, external louvre or penthouse to meet the challenges that your company faces during any construction or renovation project.

POWDER COATING

We are equipped with an advanced powder coating system, which allows us to offer premium quality and a flexible choice in colours.

RESEARCH & DEVELOPMENT

Our R&D department concentrates on the development of new products and the improvement of existing ones. With modern, well-equipped facilities such as our laboratories, CAD and CFD tools the products can also be modified in line with specific project requirements where necessary.

SMART SOLUTIONS

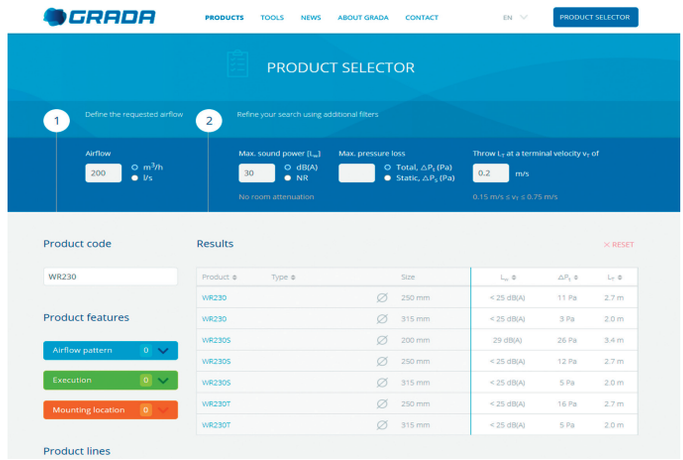
Providing a peace of mind

We provide several tools to support engineering companies, installers and architects with the right choice of products.

PRODUCT SELECTOR

With the product selector tool on our website, you can easily search through our assortment and find the right product for your project.

Visit: www.grada.com > tools > Product Selector



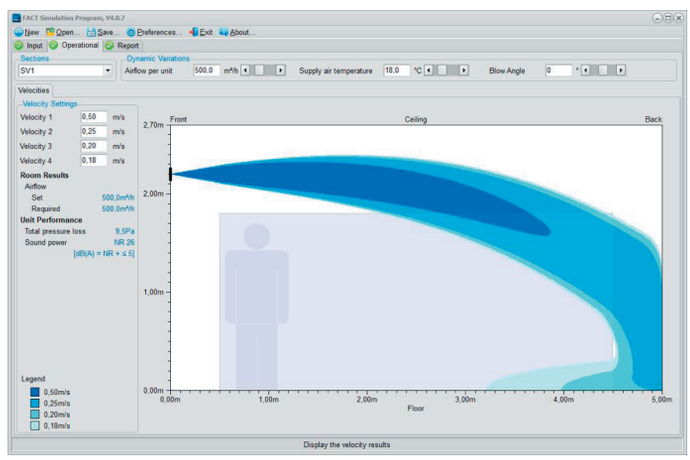
FACT SIMULATION TOOL

FACT (Flow & Air Comfort Tool) software allows the computation of air velocity profiles in a rectangular room in which single or multiple diffusers or grilles are mounted.

MAIN FUNCTIONALITIES:

- Diffuser and grille selection from the Grada product range
- Calculation of jet velocity profile, (static and total) pressure loss and sound level
- Extensive reporting capabilities with several export possibilities; optional addition of logos and extra information to the report is possible
- Ergonomic and logic layout of the user interface, following the workflow, which gives quicker results.

Visit: www.grada.com > tools > FACT

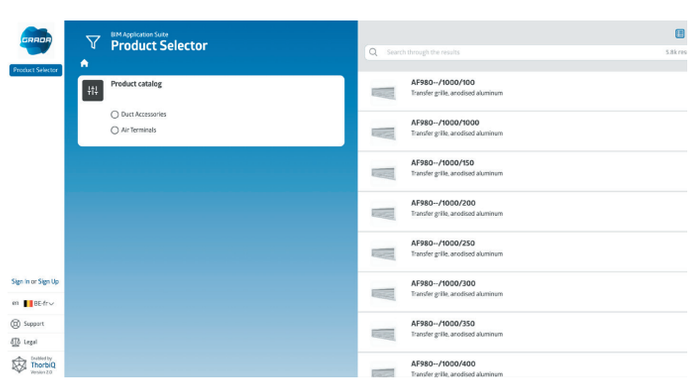


BIM

Every construction professional (architects, engineers, installers, contractors, facility managers, etc.) needs accessible and reliable data and content.

Through an open standard, all building actors are able to access and use the common generic parametric objects library.
The library can streamline and strengthen the digital collaboration between the different actors throughout the building lifecycle.

Visit www.grada.com > tools > BIM > BIM OBJECT SELECTOR



STANDARD COLOURS:

RAL 1000 green beige	RAL 1028 Melon yellow	RAL 3009 Oxide red	RAL 4010 Telemagenta	RAL 5020 Ocean blue	RAL 6014 Yellow olive	RAL 7004 Signal grey	RAL 7036 Platinum grey	RAL 8016 Mahogany brown
RAL 1001 Beige	RAL 1032 Broom yellow	RAL 3011 Brown red	RAL 5000 Violet blue	RAL 5021 Water blue	RAL 6015 Black olive	RAL 7005 Mouse grey	RAL 7037 Dusty grey	RAL 8017 Chocolate brown
RAL 1002 Sand yellow	RAL 1033 Dahlia yellow	RAL 3012 Beige red	RAL 5001 Green blue	RAL 5022 Night blue	RAL 6016 Turquoise green	RAL 7006 Beige grey	RAL 7038 Agate grey	RAL 8019 Grey brown
RAL 1003 Signal yellow	RAL 1034 Pastel yellow	RAL 3013 Tomato red	RAL 5002 Ultramarine blue	RAL 5023 Distant blue	RAL 6017 May green	RAL 7008 Khaki grey	RAL 7039 Quartz grey	RAL 8022 Black brown
RAL 1004 Golden yellow	RAL 1037 Sun yellow	RAL 3014 Antique pink	RAL 5003 Sapphire blue	RAL 5024 Pastel blue	RAL 6018 Yellow green	RAL 7009 Green grey	RAL 7040 Window grey	RAL 8023 Orange brown
RAL 1005 Honey yellow	RAL 2000 Yellow orange	RAL 3015 Light pink	RAL 5004 Black blue	RAL 6000 Platina green	RAL 6019 Pastel green	RAL 7010 Tarpaulin grey	RAL 7042 Traffic grey A	RAL 8024 Beige brown
RAL 1006 Maize yellow	RAL 2001 Red orange	RAL 3016 Coral red	RAL 5005 Signal blue	RAL 6001 Emerald green	RAL 6020 Chrome green	RAL 7011 Iron grey	RAL 7043 Traffic grey B	RAL 8025 Pale brown
RAL 1007 Daffodil yellow	RAL 2002 Vermillion	RAL 3017 Rose	RAL 5007 Brillant blue	RAL 6002 Leaf green	RAL 6021 Chrome green	RAL 7012 Basalt grey	RAL 7044 Silk grey	RAL 8028 Terra brown
RAL 1011 Brown beige	RAL 2003 Pastel orange	RAL 3018 Strawberry red	RAL 5008 Grey blue	RAL 6003 Olive green	RAL 6022 Olive drab	RAL 7013 Brown grey	RAL 7045 Telegrey 1	RAL 9001 Cream
RAL 1012 Lemon yellow	RAL 2004 Pure orange	RAL 3020 Traffic red			RAL 6024 Traffic green	RAL 7015 Slate grey	RAL 7046 Telegrey 2	RAL 9002 Grey white
RAL 1013 Oyster white	RAL 2008 Bright red orange	RAL 3022 Salmon pink			RAL 6025 Fern green	RAL 7016 Anthracite grey	RAL 7047 Telegrey 4	RAL 9003 Signal white
RAL 1014 Ivory	RAL 2009 Traffic orange	RAL 3027 Raspberry red			RAL 6026 Opal green	RAL 7021 Black grey	RAL 8000 Green brown	RAL 9004 Signal black
RAL 1015 Light ivory	RAL 2010 Signal orange	RAL 3031 Orient red	RAL 5009 Azure blue	RAL 6004 Blue green	RAL 6027 Light green	RAL 7022 Umbra grey	RAL 8001 Ochre brown	RAL 9005 Jet black
RAL 1016 Sulfur yellow	RAL 2011 Deep orange	RAL 4001 Red lilac	RAL 5010 Gentian blue	RAL 6005 Moss green	RAL 6028 Pine green	RAL 7023 Concrete grey	RAL 8002 Signal brown	RAL 9006 White aluminium
RAL 1017 Saffron yellow	RAL 2012 Salmon orange	RAL 4002 Red violet	RAL 5011 Steel blue	RAL 6006 Grey olive	RAL 6029 Mint green	RAL 7024 Graphite grey	RAL 8003 Clay brown	RAL 9007 Grey aluminium
RAL 1018 Zinc yellow	RAL 3000 Flame red	RAL 4003 Heather violet	RAL 5012 Light blue	RAL 6007 Bottle green	RAL 6032 Signal green	RAL 7026 Ganite grey	RAL 8004 Copper brown	RAL 9010 Pure white
RAL 1019 Grey beige	RAL 3001 Signal red	RAL 4004 Claret violet	RAL 5013 Cobalt blue	RAL 6008 Brown green	RAL 6033 Mint turquoise	RAL 7030 Stone grey	RAL 8007 Fawn brown	RAL 9011 Graphite black
RAL 1020 Olive yellow	RAL 3002 Carmine red	RAL 4005 Blue lilac	RAL 5014 Pigeon blue	RAL 6009 Fir green	RAL 6034 Pastel turquoise	RAL 7031 Blue grey	RAL 8008 Olive brown	RAL 9016 Traffic white
RAL 1021 Rape yellow	RAL 3003 Ruby red	RAL 4006 Traffic purple	RAL 5015 Sky blue	RAL 6010 Grass green	RAL 7000 Squirrel grey	RAL 7032 Pebble grey	RAL 8011 Nut brown	RAL 9017 Traffic black
RAL 1023 Traffic yellow	RAL 3004 Purple red	RAL 4007 Purple violet	RAL 5017 Traffic blue	RAL 6011 Reseda green	RAL 7001 Silver grey	RAL 7033 Cement grey	RAL 8012 Red brown	RAL 9018 Papyrus white
RAL 1024 Ochre yellow	RAL 3005 Wine red	RAL 4008 Signal violet	RAL 5018 Turquoise blue	RAL 6012 Black green	RAL 7002 Olive grey	RAL 7034 Yellow grey	RAL 8014 Sepia brown	
RAL 1027 Curry	RAL 3007 Black red	RAL 4009 Pastel violet	RAL 5019 Capri blue	RAL 6013 Reed green	RAL 7003 Moss grey	RAL 7035 Light grey	RAL 8015 Chestnut brown	

PRICE SUPPLEMENTS PAINTS

Standard gloss level 60 ≥ 80%

Colour supplement group G1 (Standard painted grilles):

- Standard colours RAL9010-RAL9003-RAL9005-RAL9016 (standard & matt): surcharge 0%
- Other RAL colours (standard & matt): surcharge 20% + setup costs per colour of € 80
- Anodic colours: surcharge 40% + setup costs per colour of € 80

Colour supplement group G2 (Standard unpainted grilles):

- Standard colours RAL9010-RAL9003-RAL9005-RAL9016 (standard & matt): surcharge 15%
- Other RAL colours (standard & matt): surcharge 25% + setup costs per colour of € 80
- Anodic colours: surcharge 45% + setup costs per colour of € 80

- Other colours available on request -

CEILING DIFFUSERS

WT100
P18

WT500
P18

WS400
P19

WR400
P19

WR210
P20

WR230
P20

WR250
P21

WS210
P21

WS230
P22

WS360
P22

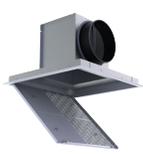
EG400
P23

MS
P23

WR300
P24

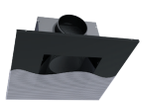
CS400
P24

CC600
P25

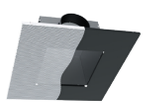


DA340
P25

DA350
P26



DC560
P26



DC570
P27

DC360
P27

DG300
P28

MCAS
P28

AC700
P29

DR160
P29

DE100
P30

EE100
P30

EE200
P31

EE400
P31

TE370
P32

TS600
P32

TS750
P33

GRILLES

A-100 / G-100
P35

A-170 / G-170
P36

A-600
P37

B-600
P37

CB400
P38

AG300_W
P38

A-700
P39

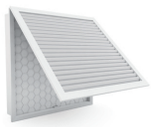
A-980
P39

GP360
P40

GP440T
P41

GK250
P42

WGC
P42



AH700
P43

FH100
P43

DUCT DIFFUSERS

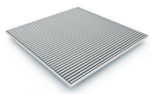
SF130
P45

FLOOR DIFFUSERS

AG300
P47

AK700
P48

Z-600
P49



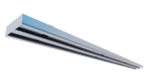
AV500
P50

VM011
P51

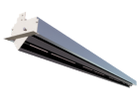
WGR
P51

SLOT DIFFUSERS

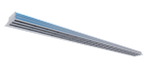
SLS
P53



SLB
P53



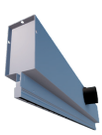
SLF
P54



RT350
P54

RT450
P55

RT360
P55



LT151
P56

TE600
P56

AIR VALVES

VA061
P58

VT061
P58

RLV
P59

JETS

JD LONG
P61

JD SHORT
P62

EXTERNAL LOUVRES

W-330
P64

WO330
P65

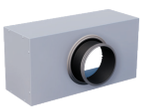
W-800 / G-800
P66

-B900
P67

PENTHOUSES

WBP
P69

PLENUM BOXES



OP100
P71

AIR FLOW CONTROLLERS

BR
P73

URSIL
P73

BS
P73

USSIL
P73

BB
P73

RDR
P74

VRK232
P74

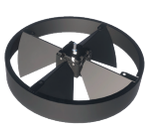
VRK233
P74

PR
P74

PS
P74

DAMPERS

KA100
P76



DT004
P76

V-750
P76

CHILLED BEAM

K6
P78

OPTIMAIR
P78

CEILING DIFFUSERS

WT100

Square swirl diffuser with adjustable air pattern

Supply Q_v [m³/h]				
ØN [mm]	A [mm]	L_w	WT100 + WP100S	WT100 + WP100T
125 (9)	294	25 dB(A)	102	123
		35 dB(A)	142	167
160 (12)	394	25 dB(A)	130	129
		35 dB(A)	186	188
200 (24)	494	25 dB(A)	266	260
		35 dB(A)	363	353
250 (36)	594	25 dB(A)	336	353
		35 dB(A)	464	495
315 (48)	594	25 dB(A)	481	462
		35 dB(A)	636	617
355 (48)	819	25 dB(A)	458	524
		35 dB(A)	640	745

WT500

Circular swirl diffuser with adjustable air pattern

Supply Q_v [m³/h]			
ØN [mm]	ØA [mm]	L_w	WT500 + WP500S
125 (9)	448	25 dB(A)	102
		35 dB(A)	142
160 (12)	448	25 dB(A)	130
		35 dB(A)	186
200 (24)	600	25 dB(A)	266
		35 dB(A)	363
250 (36)	600	25 dB(A)	336
		35 dB(A)	464

WS400

Square swirl diffuser with fixed blades

Supply Q_v [m³/h]				
ØN [mm]	A [mm]	L_w	WS400 + WP100S	WS400 + WP100T
125	294	25 dB(A)	94	103
		35 dB(A)	151	167
160	394	25 dB(A)	246	270
		35 dB(A)	395	434
200	494	25 dB(A)	246	270
		35 dB(A)	395	434
250	594	25 dB(A)	410	450
		35 dB(A)	651	714
315	594	25 dB(A)	410	450
		35 dB(A)	651	714

WR400

Circular swirl diffuser with fixed blades

Supply Q_v [m³/h]			
ØN [mm]	A [mm]	L_w	WR400 + WP400S
160	448	25 dB(A)	246
		35 dB(A)	395
200	448	25 dB(A)	246
		35 dB(A)	395
250	600	25 dB(A)	410
		35 dB(A)	651
315	600	25 dB(A)	410
		35 dB(A)	651

WR210

Circular swirl diffuser with fixed blades

Supply Q_v [m³/h]				
ØN [mm]	L_w	WR210	WR210 + WP210T	WR210 + WP210S
100	25 dB(A)	29	-	33
	35 dB(A)	43	-	50
125	25 dB(A)	43	48	49
	35 dB(A)	64	67	73
160	25 dB(A)	78	75	73
	35 dB(A)	116	112	114
200	25 dB(A)	128	89	132
	35 dB(A)	191	130	202
250	25 dB(A)	212	160	208
	35 dB(A)	309	234	316
315	25 dB(A)	343	318	263
	35 dB(A)	510	460	409
400	25 dB(A)	574	474	411
	35 dB(A)	857	640	591
500	25 dB(A)	928	-	724
	35 dB(A)	1394	-	1023

WR230

Circular swirl diffuser with fixed blades and diffuser ring

Supply Q_v [m³/h]				
ØN [mm]	L_w	WR230	WR230 + WP210T	WR230 + WP210S
100	25 dB(A)	37	-	43
	35 dB(A)	54	-	57
125	25 dB(A)	50	53	59
	35 dB(A)	81	77	80
160	25 dB(A)	88	84	107
	35 dB(A)	134	121	146
200	25 dB(A)	137	128	181
	35 dB(A)	203	184	238
250	25 dB(A)	221	214	271
	35 dB(A)	333	302	366
315	25 dB(A)	477	387	412
	35 dB(A)	663	551	563
400	25 dB(A)	747	589	668
	35 dB(A)	1074	834	855
500	25 dB(A)	1044	-	1027
	35 dB(A)	1539	-	1346

WR250

Circular swirl diffuser with fixed blades, diffuser ring and friction spring mounting

Supply Q_v [m³/h]	Ø [mm]			
L_w	80	100	125	160
25 dB(A)	19	37	50	88
35 dB(A)	27	54	81	134

WS210

Square swirl diffuser with fixed blades

Supply Q_v [m³/h]				
ØN [mm]	L_w	WS210	WS210 + WP210T	WS210 + WP210S
100	25 dB(A)	29	-	33
	35 dB(A)	43	-	50
125	25 dB(A)	43	48	49
	35 dB(A)	64	67	73
160	25 dB(A)	78	75	73
	35 dB(A)	116	112	114
200	25 dB(A)	128	89	132
	35 dB(A)	191	130	202
250	25 dB(A)	212	160	208
	35 dB(A)	309	234	316
315	25 dB(A)	343	318	263
	35 dB(A)	510	460	409
400	25 dB(A)	574	474	411
	35 dB(A)	857	640	591
500	25 dB(A)	928	-	724
	35 dB(A)	1394	-	1023

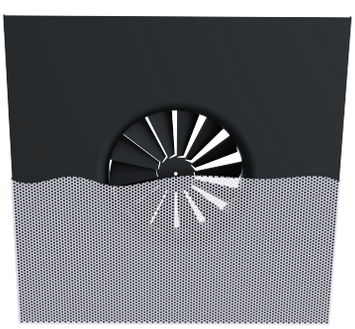
WS230

Square swirl diffuser with fixed blades and diffuser ring

Supply Q_v [m³/h]				
ØN [mm]	L_w	WS230	WS230 + WP210T	WS230 + WP210S
100	25 dB(A)	37	-	43
	35 dB(A)	54	-	57
125	25 dB(A)	50	53	59
	35 dB(A)	81	77	80
160	25 dB(A)	88	84	107
	35 dB(A)	134	121	146
200	25 dB(A)	137	128	181
	35 dB(A)	203	184	238
250	25 dB(A)	221	214	271
	35 dB(A)	333	302	366
315	25 dB(A)	477	387	412
	35 dB(A)	663	551	563
400	25 dB(A)	747	589	668
	35 dB(A)	1074	834	855
500	25 dB(A)	1044	-	1027
	35 dB(A)	1539	-	1346

WS360

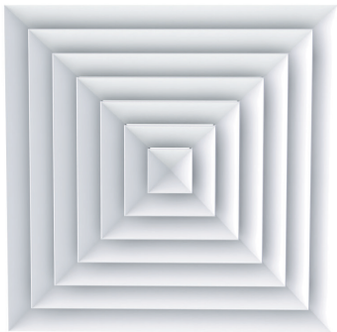
Perforated diffuser with swirl effect



Supply Q_v [m³/h]				
ØN [mm]	L_w	WS360	WS360 + WP210T	WS360 + WP210S
125	25 dB(A)	49	50	47
	35 dB(A)	69	69	66
160	25 dB(A)	86	82	71
	35 dB(A)	118	114	106
200	25 dB(A)	138	123	85
	35 dB(A)	191	170	136
250	25 dB(A)	205	200	176
	35 dB(A)	280	274	263
315	25 dB(A)	268	313	230
	35 dB(A)	389	428	341
400	25 dB(A)	436	420	371
	35 dB(A)	609	567	525

EG400

Multidirectional diffuser with
4 way pattern



EG400 + DP120-S

Supply Q_v [m³/h]	L x H [mm]					
L_w	150 x 150	225 x 225	300 x 300	375 x 375	450 x 450	470 x 470
25 dB(A)	128	263	324	467	863	920
35 dB(A)	178	392	469	688	1275	1361

MS

Multinozzle diffuser

Supply Q_v [m³/h]	L_w	
	25 dB(A)	35 dB(A)
MSS/9/294	70	96
MSS/25/394	152	201
MSS/49/494	263	343
MSS/81/594	390	511
MSH/81/594	442	585
MSH/94/594	503	667

WR300

Variable swirl diffuser

Supply Q_v [m³/h]				
			L_w	
ØN	Pos.	G [mm]	25 dB(A)	35 dB(A)
100	3	5	78	104
125	3	5	121	165
160	3	5	237	319
200	3	5	318	436
250	3	5	431	584
315	3	5	545	747

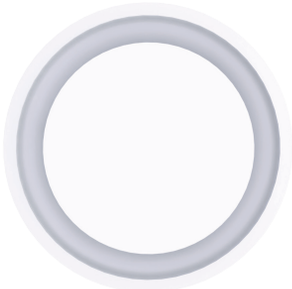
CS400

Architectural ceiling diffuser with adjustable core

Supply Q_v [m³/h]				
			L_w	
ØN	Pos.	G [mm]	25 dB(A)	35 dB(A)
100	4	0	75	106
125	4	0	110	154
160	5	-5	188	264
200	5	-5	235	342
250	5	-5	320	448

CC600

Round architectural ceiling diffuser
with adjustable core



Supply Q_v [m³/h]	ØN [mm]					
L_w	100	125	160	200	250	315
25 dB(A)	84	123	179	250	344	483
35 dB(A)	115	168	244	340	472	666

DA340

Ceiling diffuser with perforated
plate for supply

Supply Q_v [m³/h]	L_w	ØN [mm]			
		160	200	250	315
DA340_S	25 dB(A)	125	198	334	418
	35 dB(A)	179	284	478	599
DA340_T	25 dB(A)	144	229	385	482
	35 dB(A)	207	329	552	692

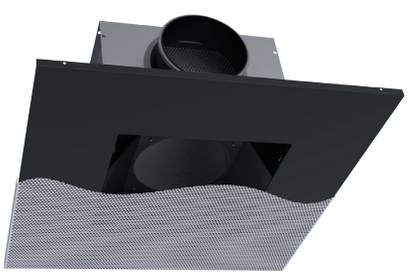
DA350

Ceiling diffuser with perforated plate for exhaust

Exhaust Q_v [m³/h]	L_w	ØN [mm]			
		160	200	250	315
DA350_S	25 dB(A)	144	240	360	505
	35 dB(A)	220	367	547	770
DA350_T	25 dB(A)	157	261	391	550
	35 dB(A)	240	399	595	838

DC560

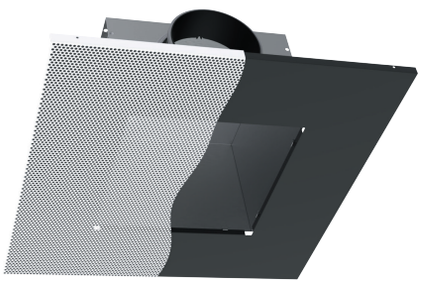
Adjustable perforated diffuser for supply



Supply Q_v [m³/h]	L_w	ØN [mm]				
		125	160	200	250	315
DC560_S	25 dB(A)	145	190	310	420	595
	35 dB(A)	190	275	380	540	854
DC560_T	25 dB(A)	140	150	240	365	560
	35 dB(A)	185	215	335	470	755

DC570

Perforated diffuser for exhaust



Exhaust Q_v [m³/h]	L_w	ØN [mm]				
		125	160	200	250	315
DC570_S	25 dB(A)	145	220	300	325	500
	35 dB(A)	260	425	660	810	860
DC570_T	25 dB(A)	165	225	365	375	420
	35 dB(A)	245	345	515	560	700

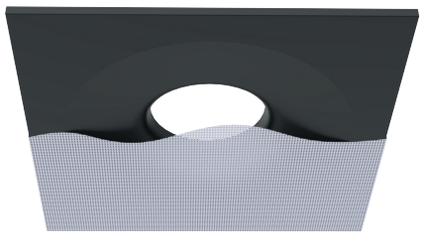
DC360

Perforated ceiling plate
for exhaust

Exhaust Q_v [m³/h]	
L_w	594 x 594
25 dB(A)	583
35 dB(A)	1016

DG300

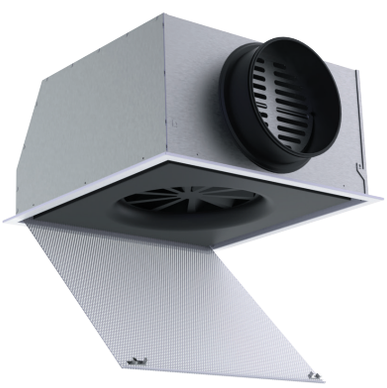
Perforated ceiling diffuser with strong coanda effect



Supply Q_v [m³/h]	ØN [mm]	L_w	
		25 dB(A)	35 dB(A)
DG330T - 26%	80	52	79
	100	136	185
	125	196	267
	160	263	359
	200	506	689
DG330S - 26%	125	130	182
	160	169	249
	200	315	426
DG360T - 51%	100	61	98
	125	86	135
	160	139	223
	200	239	346
DG360S - 51%	125	95	121
	160	142	201
	200	223	321

MCAS

Modular perforated ceiling diffuser

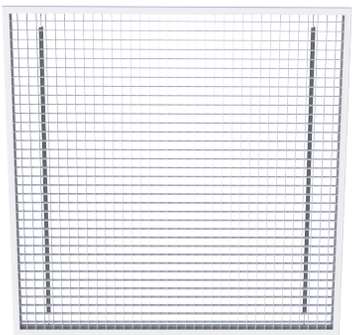


Supply Q_v [m³/h]	L_w		
	A [mm]	25 dB(A)	35 dB(A)
MCAS_100 + MCWS_125	294	48	72
	594	53	77
MCAS_125 + MCWS_160	294	84	120
	594	78	112
MCAS_160 + MCWS_200	594	125	181
MCAS_200 + MCWS_250	594	171	237
MCAS_250 + MCWS_315	594	244	347

Exhaust Q_v [m³/h]	L_w		
	A [mm]	25 dB(A)	35 dB(A)
MCAS_100 + MCAV	294	132	191
MCAS_125 + MCAV	294	190	268
	594	210	292
MCAS_160 + MCAV	294	238	331
	594	403	579
MCAS_200 + MCAV	594	449	666
MCAS_250 + MCAV	594	492	804

AC700

Grille with grid core



Exhaust Q_v [m³/h]	L x H [mm]			
L_w	595 x 295	595 x 595	670 x 670	1195 x 595
25 dB(A)	1223	2284	2852	4507
35 dB(A)	1612	3019	3760	5941

DR160

Round diffuser with fixed pattern

Supply Q_v [m³/h]	ØN [mm]			
L_w	160	200	250	315
25 dB(A)	202	245	335	479
35 dB(A)	285	346	467	671

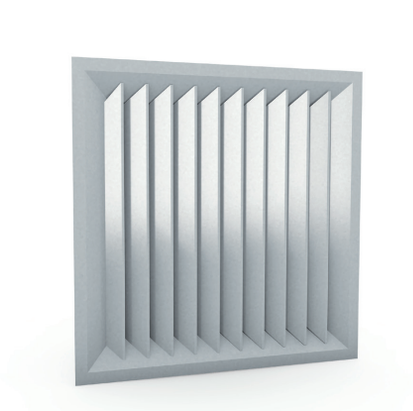
DE100

Round ceiling diffuser with adjustable core

Supply Q_v [m³/h]	ØN [mm]					
L_w	160	200	250	315	355	400
25 dB(A)	138	235	366	514	681	864
35 dB(A)	202	348	537	753	998	1264

EE100

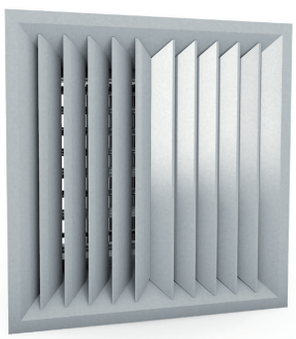
Multidirectional diffuser
1 way air pattern



Supply Q_v [m³/h]	L_w	
L x H [mm]	25 dB(A)	35 dB(A)
150x150 mm	88	138
225x150 mm	124	194
225x225 mm	161	254
300x150 mm	161	254
300x225 mm	215	339
300x300 mm	266	418
375x150 mm	186	295
375x225 mm	266	418
375x300 mm	341	533
375x375 mm	384	604
450x225 mm	307	479
450x300 mm	384	604
450x450 mm	537	841
525x225 mm	341	533
525x525 mm	684	1071

EE200

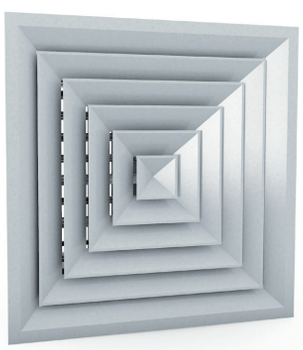
Multidirectional diffuser
2 way air pattern



Toevoer Q_v [m³/h]	L_w	
L x H [mm]	25 dB(A)	35 dB(A)
150x150 mm	90	140
225x150 mm	124	195
225x225 mm	164	257
300x150 mm	164	257
300x225 mm	217	341
300x300 mm	263	413
375x150 mm	187	294
375x225 mm	263	413
375x300 mm	337	526
375x375 mm	384	600
450x225 mm	304	473
450x300 mm	384	600
450x450 mm	533	835
525x225 mm	337	526
525x525 mm	678	1066
600x300 mm	670	1069

EE400

Multidirectional diffuser
4 way air pattern



Supply Q_v [m³/h]	L_w	
L x H [mm]	25 dB(A)	35 dB(A)
150x150 mm	98	153
225x225 mm	188	295
300x300 mm	300	468
375x375 mm	432	676
450x450 mm	583	909
525x525 mm	751	1164
600x600 mm	941	1475
225x150 mm	135	211
300x150 mm	174	274
300x225 mm	243	380
375x225 mm	290	454
375x300 mm	381	594
450x225 mm	341	533
450x300 mm	425	667
450x375 mm	496	783
525x225 mm	381	594
525x300 mm	496	783
525x375 mm	579	914
525x450 mm	687	1079

TE370

2 way slot diffuser with central perforated exhaust

Supply Q_v [m³/h]	A [mm]	L_w	
		25 dB(A)	35 dB(A)
TE371	594 x 594	210	285
TE372	594 x 594	325	445
TE373	594 x 594	350	500
TE374	594 x 594	360	525

TS600

4 way slot diffuser

Supply Q_v [m³/h]	A [mm]	L_w	
		25 dB(A)	35 dB(A)
TS601	670 x 670	284	412
TS602	670 x 670	413	601
TS603	670 x 670	513	749
TS604	670 x 670	599	871

TS750

4 way slot diffuser with central exhaust grill

Supply Q_v [m³/h]	A [mm]	L_w	
		25 dB(A)	35 dB(A)
TS751	594 x 594	285	400
TS752	594 x 594	360	520
TS753	594 x 594	360	545
TS751	670 x 670	300	425
TS752	670 x 670	320	485
TS753	670 x 670	350	535

GRILLES

A-100 / G-100

Aluminium / steel wall grille with adjustable vanes

Supply Q_v [m³/h]		L [mm]												
H [mm]	L_w	150	200	250	300	400	500	600	700	800	900	1000	1100	1200
100	25 dB(A)	94	131	164	192	263	324	415	506	597	641	684	742	800
	35 dB(A)	128	178	224	263	358	439	567	690	812	873	933	1010	1086
150	25 dB(A)	-	192	263	324	415	517	597	699	800	919	1037	1097	1157
	35 dB(A)	-	263	358	439	567	705	812	949	1086	1247	1408	1493	1578
200	25 dB(A)	-	263	324	415	597	684	800	919	1037	1148	1259	1385	1511
	35 dB(A)	-	358	439	567	812	933	1086	1247	1408	1561	1713	1885	2056
250	25 dB(A)	-	-	-	506	699	861	679	1126	1274	1417	1560	1690	1821
	35 dB(A)	-	-	-	690	949	1171	1332	1532	1732	1928	2125	2303	2481
300	25 dB(A)	-	-	-	597	800	1037	1157	1334	1511	1686	1860	1995	2130
	35 dB(A)	-	-	-	812	1086	1408	1578	1817	2056	2296	2536	2721	2905
350	25 dB(A)	-	-	-	-	919	1148	1334	1510	1686	1899	2113	2279	2446
	35 dB(A)	-	-	-	-	1247	1561	1817	2057	2296	2585	2874	3101	3329
400	25 dB(A)	-	-	-	-	1037	1259	1511	1686	1860	2113	2365	2564	2762
	35 dB(A)	-	-	-	-	1408	1713	2056	2296	2536	2874	3211	3482	3753
450	25 dB(A)	-	-	-	-	-	1385	1686	1899	2113	2338	2564	2785	3007
	35 dB(A)	-	-	-	-	-	1885	2296	2585	2874	3178	3482	3785	4088
500	25 dB(A)	-	-	-	-	-	1511	1860	2113	2365	2564	2762	3007	3251
	35 dB(A)	-	-	-	-	-	2056	2536	2874	3211	3482	3753	4088	4422

A-170 / G-170

Aluminium / steel wall grille with fixed vanes for exhaust

Exhaust Q_v [m³/h]		L [mm]							
H [mm]	L_w	200	250	300	400	500	600	800	1000
100	25 dB(A)	102	119	157	183	227	-	-	-
	35 dB(A)	135	157	209	244	303	-	-	-
150	25 dB(A)	-	183	227	289	356	406	553	-
	35 dB(A)	-	244	303	388	473	541	731	-
200	25 dB(A)	-	-	-	406	481	553	702	906
	35 dB(A)	-	-	-	541	639	731	935	1204
300	25 dB(A)	-	-	-	-	702	807	1066	1333
	35 dB(A)	-	-	-	-	935	1083	1424	1790

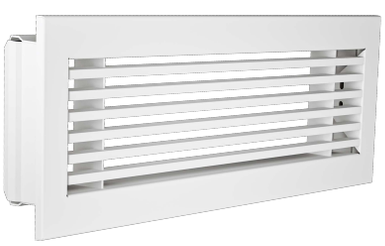
A-600

Aluminium bar grille for wall mounting

Supply/Exhaust Qv [m³/h]		L [mm]												
H [mm]	L_w	150	200	250	300	400	500	600	700	800	900	1000	1100	1200
50	25 dB(A)	32	42	51	60	78	94	109	123	137	150	163	175	187
	35 dB(A)	52	68	84	98	127	153	177	201	223	244	265	285	304
75	25 dB(A)	51	67	82	96	124	150	174	197	219	239	259	279	297
	35 dB(A)	83	109	134	157	202	244	283	321	356	390	423	454	484
100	25 dB(A)	-	90	110	129	166	201	233	264	293	321	347	373	398
	35 dB(A)	-	146	179	211	271	327	380	430	477	523	566	609	649
150	25 dB(A)	-	-	162	191	245	296	343	389	432	473	512	550	587
	35 dB(A)	-	-	265	312	400	483	561	635	705	772	837	899	959
200	25 dB(A)	-	-	-	-	321	388	450	510	566	620	671	721	769
	35 dB(A)	-	-	-	-	526	635	738	835	927	1015	1099	1181	1260
250	25 dB(A)	-	-	-	-	-	480	557	631	700	766	830	891	951
	35 dB(A)	-	-	-	-	-	788	915	1035	1149	1258	1362	1463	1561
300	25 dB(A)	-	-	-	-	-	574	666	753	836	916	991	1065	1136
	35 dB(A)	-	-	-	-	-	944	1096	1239	1376	1506	1631	1751	1868
400	25 dB(A)	-	-	-	-	-	770	894	1011	1122	1228	1329	1427	1522
	35 dB(A)	-	-	-	-	-	1273	1477	1670	1854	2029	2196	2358	2515
500	25 dB(A)	-	-	-	-	-	984	1142	1290	1432	1566	1695	1820	1940
	35 dB(A)	-	-	-	-	-	1633	1895	2142	2376	2600	2814	3021	3220
600	25 dB(A)	-	-	-	-	-	1220	1415	1598	1773	1939	2099	2252	2401
	35 dB(A)	-	-	-	-	-	2034	2359	2665	2956	3233	3499	3755	4003

B-600

Aluminium/steel bar grille for wall mounting



Supply/Exhaust Qv [m³/h]		L [mm]									
H [mm]	L_w	200	250	300	400	500	600	800	1000	1200	1500
100	25 dB(A)	90	110	129	166	201	233	293	347	398	469
	35 dB(A)	146	179	211	271	327	380	477	566	649	765
150	25 dB(A)	132	162	191	245	296	343	432	512	587	692
	35 dB(A)	216	265	312	400	483	561	705	837	959	1130
200	25 dB(A)	174	213	250	321	388	450	566	671	769	906
	35 dB(A)	284	348	410	526	635	738	927	1099	1260	1484
250	25 dB(A)	-	263	310	398	480	557	700	830	951	1120
	35 dB(A)	-	432	509	653	788	915	1149	1362	1561	1839
300	25 dB(A)	-	-	370	476	574	666	836	991	1136	1337
	35 dB(A)	-	-	609	782	944	1096	1376	1631	1868	2200

CB400

Aluminium round grille
with bars

ØN [mm]	L_w	Supply Q_v [m³/h]	Exhaust Q_v [m³/h]
100	25 dB(A)	64	66
	35 dB(A)	87	87
125	25 dB(A)	80	80
	35 dB(A)	124	120
160	25 dB(A)	114	120
	35 dB(A)	185	168

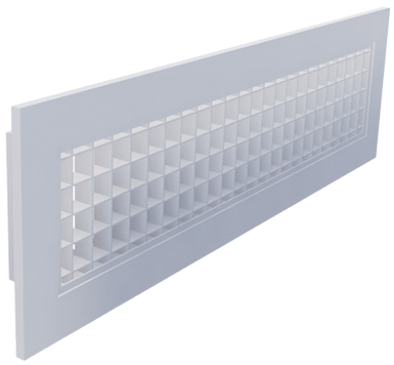
AG300_W

Aluminium bar grille for wall
mounting without flange

Supply Q_v [m³/h]		L [mm]							
H [mm]	L_w	200	250	300	400	500	600	800	1000
75	25 dB(A)	69	87	95	128	153	184	243	277
	35 dB(A)	115	145	157	214	255	306	398	454
100	25 dB(A)	95	113	128	171	205	246	322	367
	35 dB(A)	157	187	214	286	341	409	532	606
150	25 dB(A)	-	153	205	229	296	355	444	506
	35 dB(A)	-	255	341	382	494	593	739	843
200	25 dB(A)	-	-	-	324	382	458	561	675
	35 dB(A)	-	-	-	541	636	763	937	1119
250	25 dB(A)	-	-	-	-	442	530	655	747
	35 dB(A)	-	-	-	-	871	1045	1288	1468
300	25 dB(A)	-	-	-	-	561	673	795	949
	35 dB(A)	-	-	-	-	937	1124	1326	1579

A-700

Aluminium grille with grid core



Exhaust Q_v [m³/h]		L [mm]							
H [mm]	L_w	200	250	300	400	500	600	800	1000
100	25 dB(A)	152	180	210	-	-	-	-	-
	35 dB(A)	200	237	277	-	-	-	-	-
150	25 dB(A)	210	279	323	429	548	-	-	-
	35 dB(A)	277	369	425	564	720	-	-	-
200	25 dB(A)	279	360	429	548	695	834	-	-
	35 dB(A)	369	475	564	720	918	1099	-	-
300	25 dB(A)	-	-	634	834	1038	1223	1579	1948
	35 dB(A)	-	-	836	1099	1365	1612	2081	2568
400	25 dB(A)	-	-	-	1107	-	1579	2096	2538
	35 dB(A)	-	-	-	1459	-	2081	2762	3354
500	25 dB(A)	-	-	-	-	-	1948	2538	3130
	35 dB(A)	-	-	-	-	-	2598	3354	4126

A-980

Aluminium transfer grille

Supply Q_v [m³/h]		L [mm]				
H [mm]	L_w	200	300	400	500	600
100	25 dB(A)	42	61	79	97	114
	35 dB(A)	56	81	106	129	152
150	25 dB(A)	61	88	114	140	164
	35 dB(A)	81	118	152	186	219
200	25 dB(A)	79	114	148	180	212
	35 dB(A)	106	152	197	240	282
300	25 dB(A)	114	164	212	258	303
	35 dB(A)	152	219	282	343	403
400	25 dB(A)	148	212	273	332	390
	35 dB(A)	197	282	364	442	520

GP360

Round steel safety grille

GP360-F/100 - Supply		
Q_v [m³/h]	P_s [Pa]	L_w(A) [dB(A)]
47	52	21
55	71	25
63	95	29
72	127	33
83	170	37
95	228	42

GP360-F/100 - Exhaust		
Q_v [m³/h]	P_s [Pa]	L_w(A) [dB(A)]
42	35	21
49	50	25
59	70	30
67	93	34
77	123	38
89	163	42

GP360-F/125 - Supply		
Q_v [m³/h]	P_s [Pa]	L_w(A) [dB(A)]
69	44	21
82	62	25
96	84	30
111	111	34
128	146	38
148	193	42

GP360-F/125 - Exhaust		
Q_v [m³/h]	P_s [Pa]	L_w(A) [dB(A)]
62	28	20
75	40	25
89	57	29
106	79	34
120	102	38
137	132	42

GP360-F/160- Supply		
Q_v [m³/h]	P_s [Pa]	L_w(A) [dB(A)]
114	37	21
139	55	26
162	75	30
183	97	34
207	124	38
235	160	42

GP360-F/160 - Exhaust		
Q_v [m³/h]	P_s [Pa]	L_w(A) [dB(A)]
102	26	21
121	36	25
145	52	30
173	73	34
200	98	38
227	126	42

GP360-F/200 - Supply		
Q_v [m³/h]	P_s [Pa]	L_w(A) [dB(A)]
171	37	21
201	51	25
227	64	29
256	82	33
289	104	37
326	133	41

GP360-F/200 - Exhaust		
Q_v [m³/h]	P_s [Pa]	L_w(A) [dB(A)]
137	23	21
184	40	27
214	55	31
239	68	34
261	82	37
286	99	40

GP440T

Square steel safety grille

Supply Q_v [m³/h]		L [mm]				
H [mm]	L_w	150	200	250	300	450
100	25 dB(A)	-	55	-	-	-
	35 dB(A)	-	88	-	-	-
150	25 dB(A)	91	135	-	-	-
	35 dB(A)	142	208	-	-	-
200	25 dB(A)	-	-	229	-	-
	35 dB(A)	-	-	355	-	-
250	25 dB(A)	-	-	226	-	-
	35 dB(A)	-	-	340	-	-
300	25 dB(A)	-	-	-	317	-
	35 dB(A)	-	-	-	489	-
450	25 dB(A)	-	-	-	-	489
	35 dB(A)	-	-	-	-	707

Exhaust Q_v [m³/h]		L [mm]				
H [mm]	L_w	150	200	250	300	450
100	25 dB(A)	-	95	-	-	-
	35 dB(A)	-	133	-	-	-
150	25 dB(A)	115	181	-	-	-
	35 dB(A)	172	257	-	-	-
200	25 dB(A)	-	-	265	-	-
	35 dB(A)	-	-	381	-	-
250	25 dB(A)	-	-	280	-	-
	35 dB(A)	-	-	401	-	-
300	25 dB(A)	-	-	-	368	-
	35 dB(A)	-	-	-	547	-
450	25 dB(A)	-	-	-	-	540
	35 dB(A)	-	-	-	-	800

GK250

Steel exhaust air grille

Exhaust Q_v [m³/h]		L [mm]					
H [mm]	L_w	200	300	400	500	600	750
200	25 dB(A)	96	144	195	243	294	368
	35 dB(A)	142	205	271	333	397	491
300	25 dB(A)	-	218	294	368	444	556
	35 dB(A)	-	300	397	491	586	726
400	25 dB(A)	-	-	393	492	591	693
	35 dB(A)	-	-	522	647	770	956
500	25 dB(A)	-	-	-	617	741	930
	35 dB(A)	-	-	-	802	956	1187

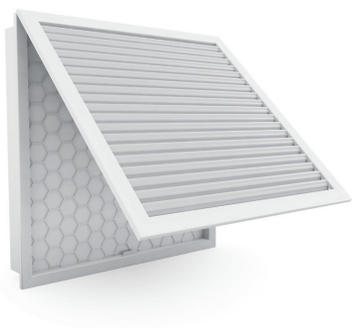
WGC

Round perforated steel wall grille
with friction springs

ØN [mm]	L_w	Supply Q_v [m³/h]	Exhaust Q_v [m³/h]
125	25 dB(A)	101	80
	35 dB(A)	133	121

AH700

Aluminium exhaust grille with filter frame



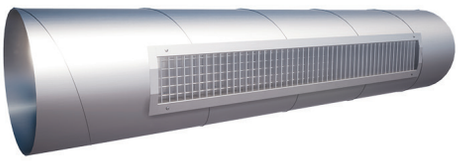
FH100

Aluminium exhaust grille with filter frame

DUCT DIFFUSERS

SF130

Grille for round ducts



SF130-- + ST005									
Supply Q_v [m³/h]		L [mm]							
H [mm]	L_w	225	325	425	525	625	825	1025	1225
75	35 dB(A)	60	90	120	160	185	240	320	370
125	35 dB(A)	-	-	250	300	365	500	600	730
225	35 dB(A)	-	-	460	550	680	920	1100	1360

SF130-- + ST005									
Exhaust Q_v [m³/h]		L [mm]							
H [mm]	L_w	225	325	425	525	625	825	1025	1225
75	35 dB(A)	60	90	120	160	220	240	320	440
125	35 dB(A)	-	-	300	340	400	600	680	800
225	35 dB(A)	-	-	500	600	710	1000	1200	1420

FLOOR DIFFUSERS

AG300

Aluminium floor grille with removable core

Supply Q_v [m³/h]		L [mm]							
H [mm]	L_w	200	250	300	400	500	600	800	1000
75	25 dB(A)	69	87	95	128	153	184	243	277
	35 dB(A)	115	145	157	214	255	306	398	454
100	25 dB(A)	95	113	128	171	205	246	322	367
	35 dB(A)	157	187	214	286	341	409	532	606
150	25 dB(A)	-	153	205	229	296	355	444	506
	35 dB(A)	-	255	341	382	494	593	739	843
200	25 dB(A)	-	-	-	324	382	458	561	675
	35 dB(A)	-	-	-	541	636	763	937	1119
250	25 dB(A)	-	-	-	-	442	530	655	747
	35 dB(A)	-	-	-	-	871	1045	1288	1468
300	25 dB(A)	-	-	-	-	561	673	795	949
	35 dB(A)	-	-	-	-	937	1124	1326	1579

AK700

Aluminium bar grille for floor mounting

Supply/Exhaust Q_v [m³/h]		L [mm]												
H [mm]	L_w	150	200	250	300	400	500	600	700	800	900	1000	1100	1200
50	25 dB(A)	32	42	51	60	78	94	109	123	137	150	163	175	187
	35 dB(A)	52	68	84	98	127	153	177	201	223	244	265	285	304
75	25 dB(A)	51	67	82	96	124	150	174	197	219	239	259	279	297
	35 dB(A)	83	109	134	157	202	244	283	321	356	390	423	454	484
100	25 dB(A)	-	90	110	129	166	201	233	264	293	321	347	373	398
	35 dB(A)	-	146	179	211	271	327	380	430	477	523	566	609	649
150	25 dB(A)	-	-	162	191	245	296	343	389	432	473	512	550	587
	35 dB(A)	-	-	265	312	400	483	561	635	705	772	837	899	959
200	25 dB(A)	-	-	-	-	321	388	450	510	566	620	671	721	769
	35 dB(A)	-	-	-	-	526	635	738	835	927	1015	1099	1181	1260
250	25 dB(A)	-	-	-	-	-	480	557	631	700	766	830	891	951
	35 dB(A)	-	-	-	-	-	788	915	1035	1149	1258	1362	1463	1561

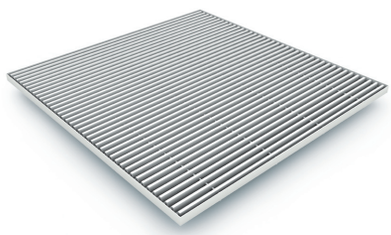
Z-600

Aluminium bar grille for windowsill mounting

Supply/Exhaust Q_v [m³/h]		L [mm]							
H [mm]	L_w	200	300	400	500	600	700	800	1000
50	25 dB(A)	42	60	78	94	109	123	137	163
	35 dB(A)	68	98	127	153	177	201	223	265
75	25 dB(A)	67	96	124	150	174	197	219	259
	35 dB(A)	109	157	202	244	283	321	356	423
100	25 dB(A)	90	129	166	201	233	264	293	347
	35 dB(A)	146	211	271	327	380	430	477	566
150	25 dB(A)	132	191	245	296	343	389	432	512
	35 dB(A)	216	312	400	483	561	635	705	837
200	25 dB(A)	174	250	321	388	450	510	566	671
	35 dB(A)	284	410	526	635	738	835	927	1099
250	25 dB(A)	215	310	398	480	557	631	700	830
	35 dB(A)	353	509	653	788	915	1035	1149	1362
300	25 dB(A)	257	370	476	574	666	753	836	991
	35 dB(A)	423	609	782	944	1096	1239	1376	1631

AV500

Computer floor grille



Supply Q_v [m³/h]	
L_w	600 x 600 mm
NR20	720
NR23	975
NR26	1300
NR28	1625
NR30	1950
NR31	2275
NR34	2600

Exhaust Q_v [m³/h]	
L_w	600 x 600 mm
NR25	650
NR27	1300
NR31	1950
NR34	2600
NR36	3250
NR42	3900
NR44	4550
NR47	5200

VM011

Floor grille swirl diffuser

Supply Q_v [m³/h]			
ØN [mm]	L_w	VMV011	VMH011
150	25 dB(A)	26	24
	35 dB(A)	41	36
200	25 dB(A)	56	48
	35 dB(A)	84	71

WGR

Staircase swirl diffuser

Supply Q_v [m³/h]	L_w	Ø [mm]
		125
WGR	25 dB(A)	48
	35 dB(A)	68
WGS	25 dB(A)	48
	35 dB(A)	68

SLOT DIFFUSERS

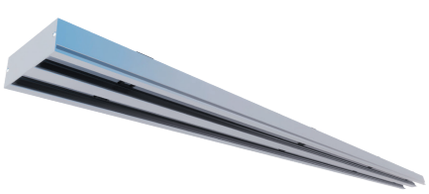
SLS

Aluminium adjustable slot diffuser with flange

Supply Q_v [m³/h]	L_w	L [mm]			
		600	1000	1500	2000
SLS-1	25 dB(A)	64	99	138	174
	35 dB(A)	91	140	195	246
SLS-2	25 dB(A)	137	212	296	374
	35 dB(A)	192	296	414	524
SLS-3	25 dB(A)	166	256	356	450
	35 dB(A)	235	362	504	637
SLS-4	25 dB(A)	206	320	449	569
	35 dB(A)	286	442	619	786
SLS-5	25 dB(A)	263	406	567	718
	35 dB(A)	368	568	793	1004
SLS-6	25 dB(A)	348	535	744	939
	35 dB(A)	494	760	1058	1336

SLB

Aluminium adjustable slot diffuser without flange



Supply Q_v [m³/h]	L_w	L [mm]			
		600	1000	1500	2000
SLB-1	25 dB(A)	64	99	138	174
	35 dB(A)	91	140	195	246
SLB-2	25 dB(A)	137	212	296	374
	35 dB(A)	192	296	414	524
SLB-3	25 dB(A)	166	256	356	450
	35 dB(A)	235	362	504	637
SLB-4	25 dB(A)	206	320	449	569
	35 dB(A)	286	442	619	786
SLB-5	25 dB(A)	263	406	567	718
	35 dB(A)	368	568	793	1004
SLB-6	25 dB(A)	348	535	744	939
	35 dB(A)	494	760	1058	1336

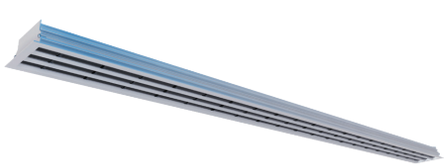
SLF

Aluminium adjustable slot diffuser with flange, with filter access door

Exhaust Q_v [m³/h]	L_w	L [mm]		
		600	1000	1500
SLF-2	25 dB(A)	150	231	322
	35 dB(A)	213	328	457
SLF-3	25 dB(A)	228	350	486
	35 dB(A)	327	503	698
SLF-4	25 dB(A)	265	407	566
	35 dB(A)	377	580	807
SLF-5	25 dB(A)	299	452	618
	35 dB(A)	461	696	952
SLF-6	25 dB(A)	358	530	711
	35 dB(A)	604	894	1200

RT350

Aluminium drum slot diffuser with flange and direct mounting



Supply Q_v [m³/h]	L_w	L [mm]			
		600	1000	1500	2000
RT351	25 dB(A)	55	85	118	149
	35 dB(A)	79	121	169	213
RT352	25 dB(A)	93	143	198	250
	35 dB(A)	133	204	283	357
RT353	25 dB(A)	132	202	281	355
	35 dB(A)	188	289	402	507
RT354	25 dB(A)	155	238	330	417
	35 dB(A)	222	340	473	597
RT355	25 dB(A)	200	307	427	539
	35 dB(A)	286	439	610	770
RT356	25 dB(A)	222	341	473	597
	35 dB(A)	318	488	678	855

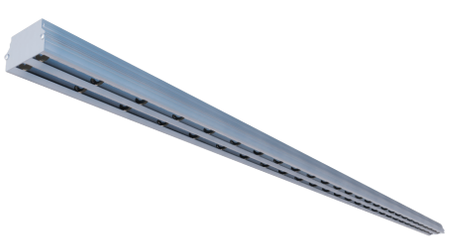
RT450

Aluminium drum slot diffuser with flange and concealed screw fixing

Supply Q_v [m³/h]	L_w	L [mm]			
		600	1000	1500	2000
RT451	25 dB(A)	55	85	118	149
	35 dB(A)	79	121	169	213
RT452	25 dB(A)	93	143	198	250
	35 dB(A)	133	204	283	357
RT453	25 dB(A)	132	202	281	355
	35 dB(A)	188	289	402	507
RT454	25 dB(A)	155	238	330	417
	35 dB(A)	222	340	473	597
RT455	25 dB(A)	200	307	427	539
	35 dB(A)	286	439	610	770
RT456	25 dB(A)	222	341	473	597
	35 dB(A)	318	488	678	855

RT360

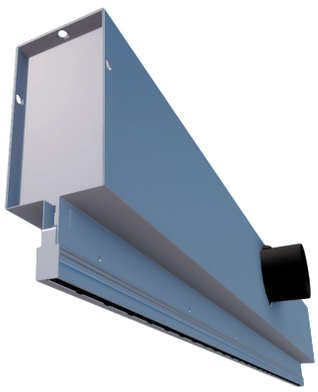
Aluminium drum slot diffuser without flange and direct mounting



Supply Q_v [m³/h]	L_w	L [mm]			
		600	1000	1500	2000
RT361	25 dB(A)	55	85	118	149
	35 dB(A)	79	121	169	213
RT362	25 dB(A)	93	143	198	250
	35 dB(A)	133	204	283	357

LT151

Aluminium drum slot diffuser without flange and direct mounting



Supply Q_v [m³/h]	L_w	L [mm]			
		600	1000	1500	2000
LT151	25 dB(A)	24	37	52	65
	35 dB(A)	36	54	76	95

TE600

Fixed slot diffuser

Supply Q_v [m³/h]		L_w	L [mm]
			1000
TE601	>	25 dB(A)	96
		35 dB(A)	136
TE611	<>	25 dB(A)	173
		35 dB(A)	245
TE602	>>	25 dB(A)	173
		35 dB(A)	245
TE612	<>>	25 dB(A)	245
		35 dB(A)	345
TE603	>>>	25 dB(A)	245
		35 dB(A)	345
TE622	<<>>	25 dB(A)	310
		35 dB(A)	438
TE604	>>>>	25 dB(A)	310
		35 dB(A)	438

AIR VALVES

V-061

Air valves

VT061

VA061

VT061 - Supply Q_v [m³/h]	Ø [mm]			
L_w	100	125	160	200
25 dB(A)	47	93	117	173
35 dB(A)	106	179	200	349

VA061 - Exhaust Q_v [m³/h]	Ø [mm]			
L_w	100	125	160	200
25 dB(A)	37	112	150	172
35 dB(A)	71	188	278	333

RLV

Residential architectural valve

Supply Q_v [m³/h]	L_w	
Ø [mm]	25 dB(A)	35 dB(A)
125	86	125

Exhaust Q_v [m³/h]	L_w	
Ø [mm]	25 dB(A)	35 dB(A)
125	86	121

JETS

JD LONG

Jet diffuser long pipe

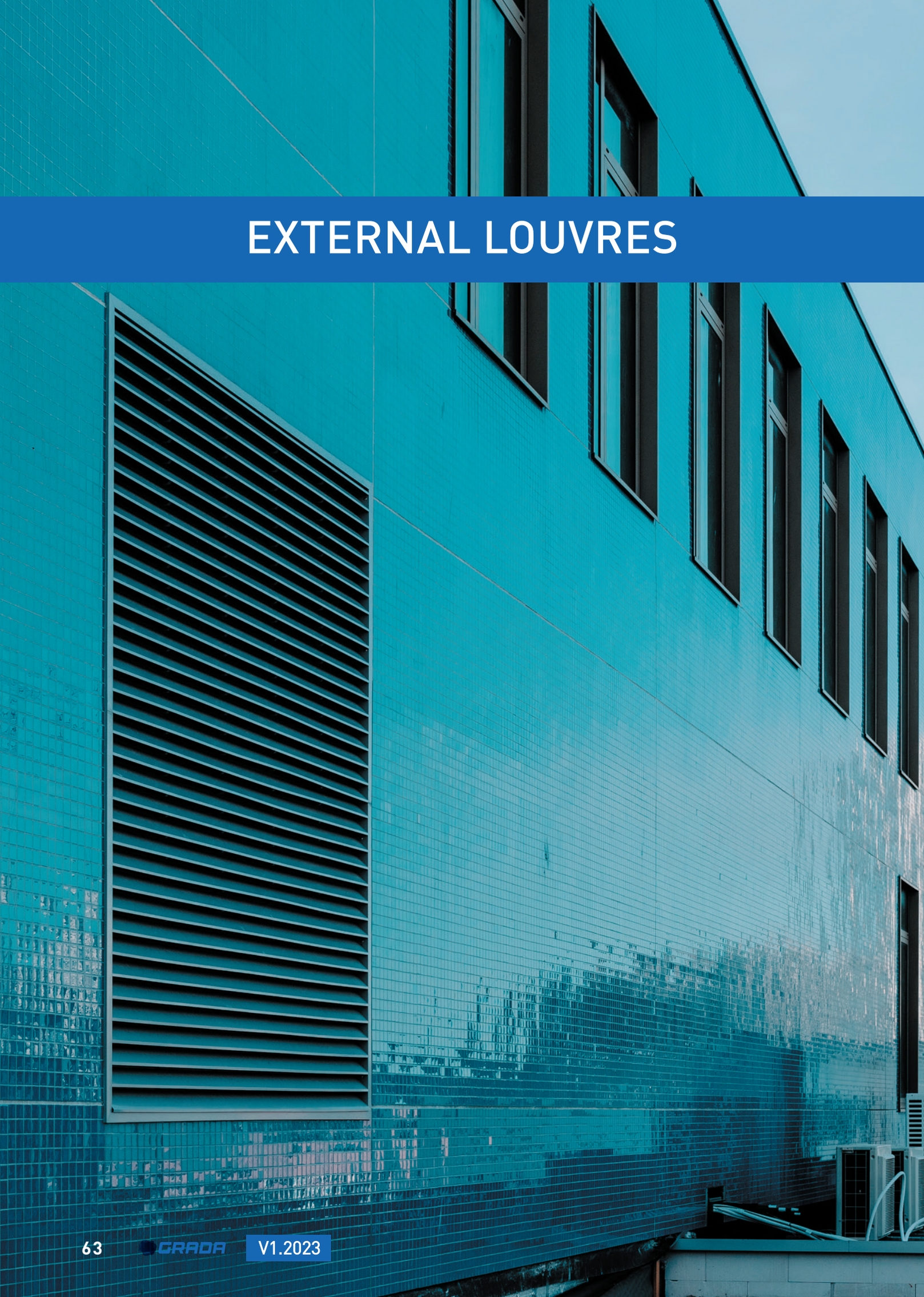
Supply Q_v [m³/h]		ØN [mm]					
		125	160	200	250	315	400
50	$L_{T0,20}$ [m]	8,0	6,0	-	-	-	-
	ΔP_{tot}	11	5	-	-	-	-
	L_w [dB(A)]	<20	<20	-	-	-	-
100	$L_{T0,20}$ [m]	15,6	11,9	9,3	-	-	-
	ΔP_{tot}	46	18	2	-	-	-
	L_w [dB(A)]	<20	<20	<20	-	-	-
150	$L_{T0,20}$ [m]	23,4	17,7	13,8	10,9	-	-
	ΔP_{tot}	103	41	14	5	-	-
	L_w [dB(A)]	27	<20	<20	<20	-	-
200	$L_{T0,20}$ [m]	-	23,6	18,4	14,5	11,7	-
	ΔP_{tot}	-	72	24	9	3	-
	L_w [dB(A)]	-	<20	<20	<20	<20	-
250	$L_{T0,20}$ [m]	-	29,5	22,9	18,0	14,5	11,7
	ΔP_{tot}	-	113	38	14	5	2
	L_w [dB(A)]	-	<20	<20	<20	<20	<20
400	$L_{T0,20}$ [m]	-	-	36,3	28,7	22,9	18,4
	ΔP_{tot}	-	-	97	36	12	5
	L_w [dB(A)]	-	-	21	<20	<20	<20
500	$L_{T0,20}$ [m]	-	-	45,5	35,6	28,6	22,9
	ΔP_{tot}	-	-	151	57	19	8
	L_w [dB(A)]	-	-	27	<20	<20	<20
700	$L_{T0,20}$ [m]	-	-	-	49,6	39,9	31,9
	ΔP_{tot}	-	-	-	111	38	15
	L_w [dB(A)]	-	-	-	27	21	<20
900	$L_{T0,20}$ [m]	-	-	-	63,8	51,2	40,8
	ΔP_{tot}	-	-	-	184	63	25
	L_w [dB(A)]	-	-	-	35	28	<20
1200	$L_{T0,20}$ [m]	-	-	-	-	67,9	54,3
	ΔP_{tot}	-	-	-	-	112	44
	L_w [dB(A)]	-	-	-	-	36	<20
1300	$L_{T0,20}$ [m]	-	-	-	-	73,6	58,7
	ΔP_{tot}	-	-	-	-	131	52
	L_w [dB(A)]	-	-	-	-	38	22
2000	$L_{T0,20}$ [m]	-	-	-	-	-	89,8
	ΔP_{tot}	-	-	-	-	-	122
	L_w [dB(A)]	-	-	-	-	-	34

JD SHORT

Jet diffuser short pipe

Supply Q_v [m³/h]		ØN [mm]				
		160	200	250	315	400
50	$L_{T0,20}$ [m]	4,8	-	-	-	-
	ΔP_{tot}	2	-	-	-	-
	L_w [dB(A)]	<20	-	-	-	-
100	$L_{T0,20}$ [m]	W9,3	6,2	-	-	-
	ΔP_{tot}	9	3	-	-	-
	L_w [dB(A)]	<20	<20	-	-	-
150	$L_{T0,20}$ [m]	13,8	9,2	6,1	-	-
	ΔP_{tot}	20	7	3	-	-
	L_w [dB(A)]	<20	<20	<20	-	-
200	$L_{T0,20}$ [m]	18,3	12,2	8,0	4,9	-
	ΔP_{tot}	36	12	4	2	-
	L_w [dB(A)]	<20	<20	<20	<20	-
250	$L_{T0,20}$ [m]	22,7	15,2	10,0	6,0	2,7
	ΔP_{tot}	56	19	7	3	1
	L_w [dB(A)]	23	<20	<20	<20	<20
400	$L_{T0,20}$ [m]	-	24,2	15,9	9,7	4,4
	ΔP_{tot}	-	48	18	7	3
	L_w [dB(A)]	-	22	<20	<20	<20
500	$L_{T0,20}$ [m]	-	30,1	19,8	12,1	5,5
	ΔP_{tot}					
	L_w [dB(A)]	-	27	<20	<20	<20
700	$L_{T0,20}$ [m]	-	-	27,6	16,9	7,8
	ΔP_{tot}	-	-	55	20	8
	L_w [dB(A)]	-	-	23	<20	<20
900	$L_{T0,20}$ [m]	-	-	35,4	21,7	10,0
	ΔP_{tot}	-	-	91	33	13
	L_w [dB(A)]	-	-	30	<20	<20
1200	$L_{T0,20}$ [m]	-	-	-	28,9	13,4
	ΔP_{tot}	-	-	-	59	24
	L_w [dB(A)]	-	-	-	<20	<20
1300	$L_{T0,20}$ [m]	-	-	-	31,3	14,6
	ΔP_{tot}	-	-	-	69	28
	L_w [dB(A)]	-	-	-	<20	<20
2000	$L_{T0,20}$ [m]	-	-	-	-	22,4
	ΔP_{tot}	-	-	-	-	66
	L_w [dB(A)]	-	-	-	-	<20

EXTERNAL LOUVRES



W-330

Aluminium external louvre

Q_v [m³/h] Intake - v_{eff}=2,0m/s												
H [mm]	L [mm]											
	200	300	400	500	600	800	1000	1200	1400	1600	1800	2000
200	108	166	223	281	338	454	569	684	799	914	1030	1145
300	166	252	338	432	518	698	871	1051	1224	1404	1584	1757
400	223	338	461	583	698	936	1181	1418	1656	1894	2131	2376
500	281	432	583	734	878	1181	1483	1786	2088	2383	2686	2988
600	338	518	698	878	1066	1426	1786	2153	2513	2880	3240	3600
800	454	698	936	1181	1426	1915	2398	2887	3370	3859	4349	4831
1000	569	871	1181	1483	1786	2398	3010	3622	4234	4838	5450	6062
1200	684	1051	1418	1786	2153	2887	3622	4356	5090	5825	6559	7294
1400	799	1224	1656	2088	2513	3370	4234	5090	5947	6804	7661	8525
1600	914	1404	1894	2383	2880	3859	4838	5825	6804	7790	8770	9749
1800	1030	1584	2131	2686	3240	4349	5450	6559	7661	8770	9878	10980
2000	1145	1757	2376	2988	3600	4831	6062	7294	8525	9749	10980	12211

Q_v [m³/h] Discharge - v_{eff}=3,0m/s												
H [mm]	L [mm]											
	200	300	400	500	600	800	1000	1200	1400	1600	1800	2000
200	162	248	335	421	508	680	853	1026	1199	1372	1544	1717
300	248	378	508	648	778	1048	1307	1577	1836	2106	2376	2635
400	335	508	691	875	1048	1404	1771	2128	2484	2840	3197	3564
500	421	648	875	1102	1318	1771	2225	2678	3132	3575	4028	4482
600	508	778	1048	1318	1598	2138	2678	3229	3769	4320	4860	5400
800	680	1048	1404	1771	2138	2873	3596	4331	5054	5789	6523	7247
1000	853	1307	1771	2225	2678	3596	4514	5432	6350	7258	8176	9094
1200	1026	1577	2128	2678	3229	4331	5432	6534	7636	8737	9839	10940
1400	1199	1836	2484	3132	3769	5054	6350	7636	8921	10206	11491	12787
1600	1372	2106	2840	3575	4320	5789	7258	8737	10206	11686	13154	14623
1800	1544	2376	3197	4028	4860	6523	8176	9839	11491	13154	14818	16470
2000	1717	2635	3564	4482	5400	7247	9094	10940	12787	14623	16470	18317

WO330

Surface mounted aluminium external louvre

Q_v [m³/h] Intake - v_{eff}=2,0m/s										
H [mm]	L [mm]									
	150	200	300	400	500	600	700	800	900	1000
150	14	22	36	58	79	94	115	130	151	173
200	22	36	72	108	137	173	209	245	274	310
300	36	72	137	202	266	331	396	461	526	590
400	58	108	202	295	396	490	583	684	778	871
500	79	137	266	396	518	648	778	900	1030	1152
600	94	173	331	490	648	806	965	1123	1282	1440
700	115	209	396	583	778	965	1152	1339	1534	1721
800	130	245	461	684	900	1123	1339	1562	1778	2002
900	151	274	526	778	1030	1282	1534	1778	2030	2282
1000	173	310	590	871	1152	1440	1721	2002	2282	2563

Q_v [m³/h] Discharge - v_{eff}=3,0m/s										
H [mm]	L [mm]									
	150	200	300	400	500	600	700	800	900	1000
150	22	32	54	86	119	140	173	194	227	259
200	32	54	108	162	205	259	313	367	410	464
300	54	108	205	302	400	497	594	691	788	886
400	86	162	302	443	594	734	875	1026	1166	1307
500	119	205	400	594	778	972	1166	1350	1544	1728
600	140	259	497	734	972	1210	1447	1685	1922	2160
700	173	313	594	875	1166	1447	1728	2009	2300	2581
800	194	367	691	1026	1350	1685	2009	2344	2668	3002
900	227	410	788	1166	1544	1922	2300	2668	3046	3424
1000	259	464	886	1307	1728	2160	2581	3002	3424	3845

W-800 /G-800

Aluminium / steel external louvre

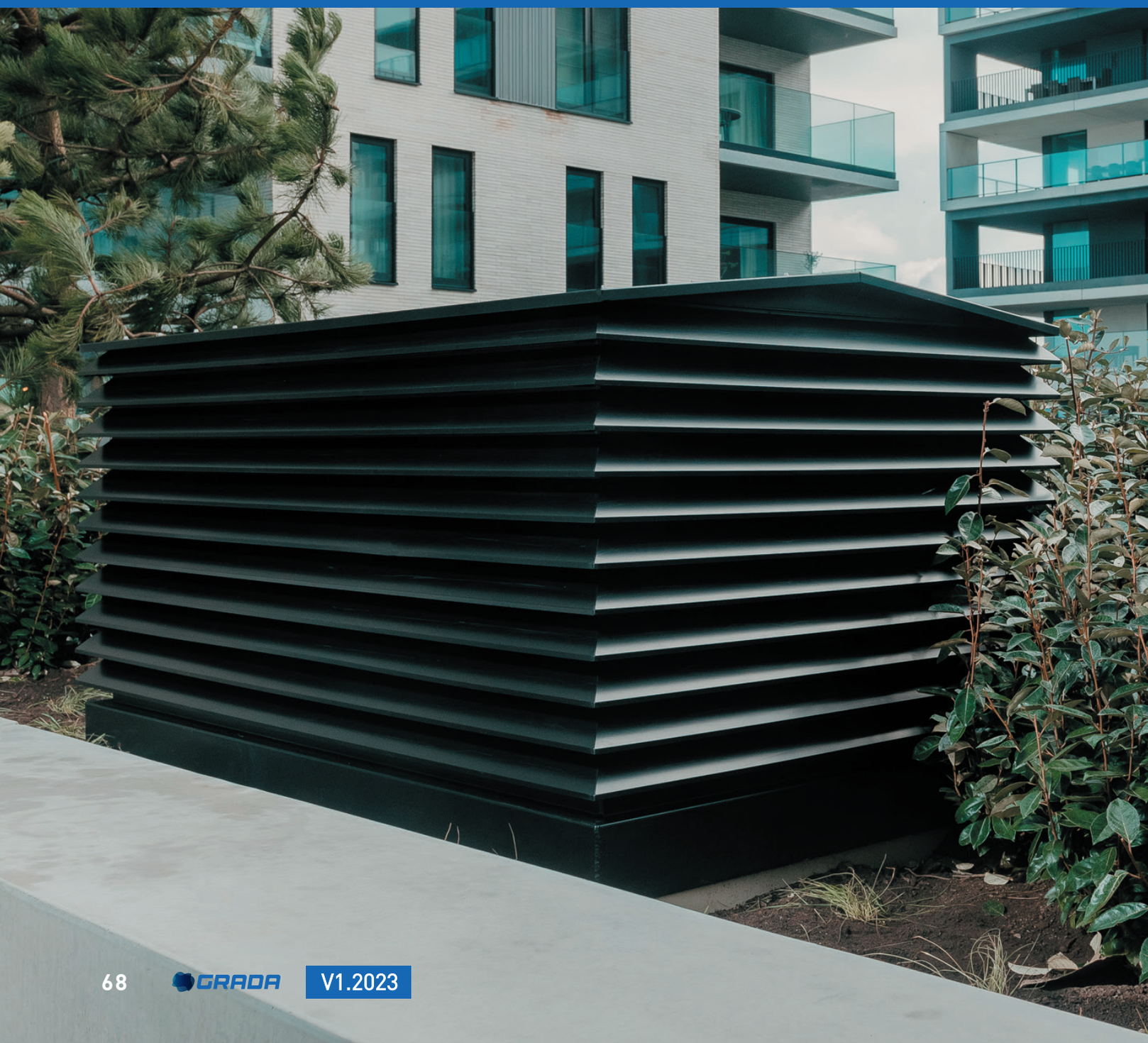
Q_v [m³/h] Intake - v_{eff}=2,0m/s										
H [mm]	L [mm]									
	400	500	600	800	1000	1200	1400	1600	1800	2000
400	576	720	864	1224	1512	1800	2088	2376	2736	3024
500	792	1008	1152	1584	2016	2376	2808	3168	3600	4032
600	1008	1224	1512	2016	2520	3024	3528	4032	4536	5040
800	1368	1728	2088	2808	3456	4176	4896	5616	6336	6984
1000	1728	2232	2664	3600	4464	5400	6264	7200	8136	9000
1200	2160	2664	3240	4392	5472	6552	7704	8784	9936	11016
1400	2520	3168	3816	5184	6480	7776	9072	10368	11736	13032
1600	2952	3672	4464	5976	7488	9000	10512	12024	13536	15048
1800	3312	4176	5040	6768	8424	10152	11880	13608	15336	16992
2000	3672	4680	5616	7560	9432	11376	13248	15192	17136	19008

Q_v [m³/h] Discharge - v_{eff}=3,0m/s										
H [mm]	L [mm]									
	400	500	600	800	1000	1200	1400	1600	1800	2000
400	864	1080	1296	1836	2268	2700	3132	3564	4104	4536
500	1188	1512	1728	2376	3024	3564	4212	4752	5400	6048
600	1512	1836	2268	3024	3780	4536	5292	6048	6804	7560
800	2052	2592	3132	4212	5184	6264	7344	8424	9504	10476
1000	2592	3348	3996	5400	6696	8100	9396	10800	12204	13500
1200	3240	3996	4860	6588	8208	9828	11556	13176	14904	16524
1400	3780	4752	5724	7776	9720	11664	13608	15552	17604	19548
1600	4428	5508	6696	8964	11232	13500	15768	18036	20304	22572
1800	4968	6264	7560	10152	12636	15228	17820	20412	23004	25488
2000	5508	7020	8424	11340	14148	17064	19872	22788	25704	28512

-B900

Sand trap louvre

PENTHOUSES



WBP

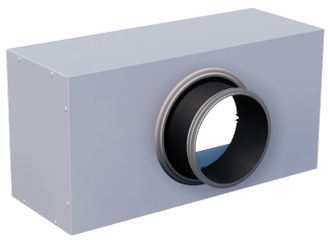
Aluminium penthouse

	L [mm]	B [mm]	H [mm]	Effective air discharge area [m²]	Q_v [m³/h] Intake v_{eff}=2,0m/s	Q_v [m³/h] Discharge v_{eff}=3,0m/s
WBP	300	300	220	0,05	359	539
WBP	400	400	220	0,07	479	719
WBP	500	500	220	0,08	611	916
WBP	600	600	220	0,10	733	1099
WBP	400	400	300	0,13	958	1438
WBP	500	500	300	0,17	1221	1832
WBP	600	600	300	0,20	1465	2198
WBP	800	800	300	0,27	1954	2931
WBP	400	400	380	0,20	1438	2157
WBP	600	600	380	0,31	2198	3297
WBP	800	800	380	0,41	2931	4396
WBP	1000	1000	380	0,51	3663	5495
WBP	500	500	460	0,34	2442	3663
WBP	600	600	460	0,41	2931	4396
WBP	800	800	460	0,54	3908	5861
WBP	1000	1000	460	0,68	4884	7327
WBP	500	500	540	0,45	3226	4838
WBP	600	600	540	0,54	3871	5806
WBP	800	800	540	0,72	5161	7741
WBP	1000	1000	540	0,90	6451	9677
WBP	600	600	620	0,67	4811	7216
WBP	800	800	620	0,89	6414	9622
WBP	1000	1000	620	1,11	8018	12027
WBP	1200	1200	620	1,34	9622	14432
WBP	800	800	700	1,08	7741	11612
WBP	1000	1000	700	1,34	9677	14515
WBP	1200	1200	700	1,61	11612	17418
WBP	1400	1400	700	1,88	13548	20321
WBP	1500	1500	700	2,02	14515	21773
WBP	800	800	780	1,23	8847	13271
WBP	1000	1000	780	1,54	11059	16589
WBP	1200	1200	780	1,84	13271	19907
WBP	1400	1400	780	2,15	15483	23224
WBP	1500	1500	780	2,30	16589	24883
WBP	1000	1000	860	1,76	12649	18973
WBP	1200	1200	860	2,11	15179	22768
WBP	1400	1400	860	2,46	17709	26563
WBP	1600	1600	860	2,81	20238	30358
WBP	1200	1200	940	2,38	17142	25713
WBP	1400	1400	940	2,78	19999	29998
WBP	1600	1600	940	3,17	22856	34284
WBP	1800	1800	940	3,57	25713	38569

PLENUM BOXES

OP100

Plenum box for square wall grilles



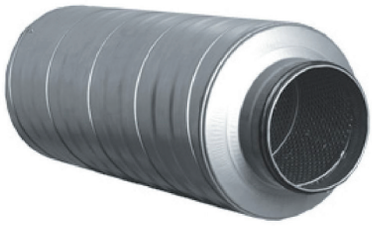
AIR FLOW CONTROLLERS

BR

Round variable air volume controller VAV

URSIL

Circular duct silencer for variable air volume controller

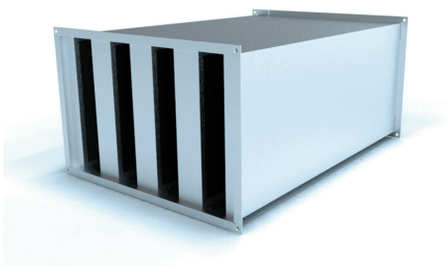


BS

Rectangular variable air volume controller VAV

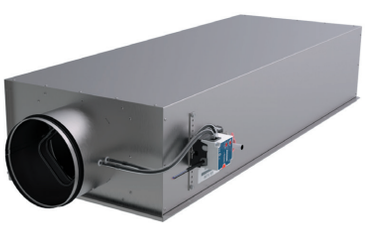
USSIL

Rectangular splitter silencer for variable air volume controller



BB

Terminal box variable air volume controller VAV



RDR

Constant flow regulator in plastic

VRK232

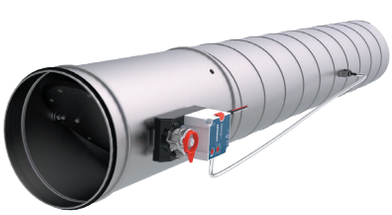
Constant flow regulator 50-500Pa

VRK233

Constant flow regulator
50-1000Pa

PR

Round variable pressure
controller



PS

Rectangular variable pressure controller

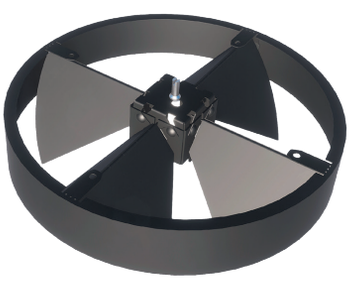
DAMPERS

KA100

Opposed blade damper

DT004

Butterfly damper



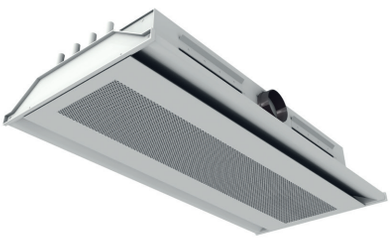
V-750

Pressure relief dampers

CHILLED BEAM

K6

Active closed chilled beam



OPTIMAIR

Active closed chilled beam

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