

Perforeret armatur

PKA



Beskrivelse

PKA er et kvadratisk armatur med perforeret bundplade. PKA kan anvendes til såvel indblæsning som udsugning. PKA er velegnet til horisontal indblæsning af undertempereret luft og kan udrustes med flere typer tilbehør for at opnå optimal funktion. PKA kan med fordel monteres i trykfordelingsboks type MBB for at opnå stabil tilstrømning til armaturet samt mulighed for individuel indregulering.

Velegnet til både indblæsning og udsugning

- Velegnet til horisontal indblæsning med undertempereret luft
- Mulighed for 1-, 2- og 3-vejs indblæsning

Vedligeholdelse

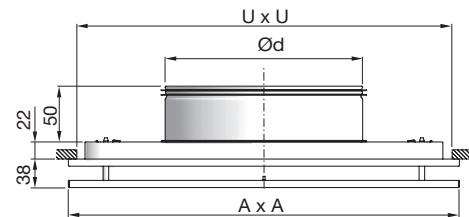
Bundplade kan demonteres i forbindelse med rengøring af indvendige dele eller for at opnå fri adgang til kanal eller boks. De synlige dele af armaturet kan aftørres med en fugtig klud.

Bestillingskode

Produkt	PKA	aaa
Type		
PKA		
Tilslutnings dim. Ød		
Ød 125-400		

Eksempel: PKA-200

Dimensioner



PKA Ød mm	A mm	U * mm	Friareal A m²	Vægt kg
125	235	200	0,018	1,10
160	295	260	0,023	1,80
200	395	360	0,03	2,80
250	495	460	0,043	4,20
315	595	560	0,057	5,70
400	595	560	0,075	5,70

U x U = Udsætningsmål i loft

Materialer og finish

Materiale: Galvaniseret stål
 Standardfinish: Pulverlakeret
 Standardfarve: Hvid RAL 9003, glans 30

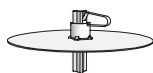
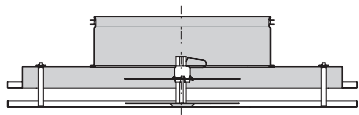
Armaturet kan leveres i andre farver. Kontakt venligst Lindabs salgsafdeling for nærmere information.

Perforeret armatur

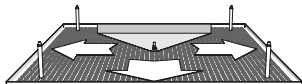
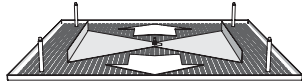
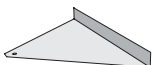
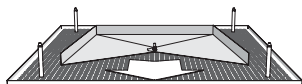
PKA

Tilbehør

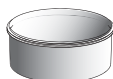
DRZ - Balanceret spjæld



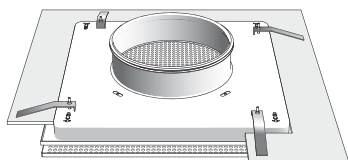
Luftmønsterafdækning (sæt)



MBZ - Forlængerstykke



DKZ - Monteringsbøjler (sæt)

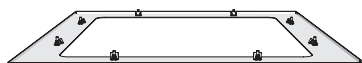


Bestillingskode - Tilbehør

Produkt _____
 Type _____
 Størrelse _____

Eksempel: DRZ-200

LM - Modulplade



Bestillingskode - Modulplade

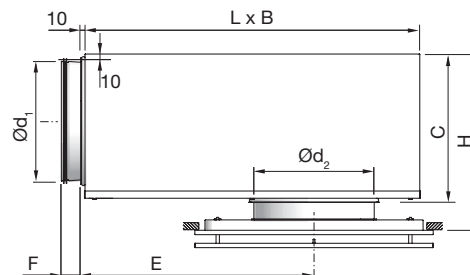
Produkt _____
 Type _____
 Loft system _____
 Armatur _____
 Størrelse _____

Eksempel: LM-1-PKA-200
 Loftsystem - se indledende afsnit.

MBB - Trykfordelingsboks



PKA + MBB



PKA + MBB		B	C	E	F	H*	L
Kanal	PKA						
Ød ₁ mm	Ød ₂ mm	mm	mm	mm	mm	mm	mm
100	125	260	159	216	50	180 - 220	310
100	160	260	159	216	50	180 - 220	310
125	125	310	184	262	50	205 - 245	376
125	160	310	184	262	50	205 - 245	376
125	200	310	184	262	50	205 - 245	376
160	160	380	220	323	50	239 - 279	459
160	200	380	220	323	50	239 - 279	459
160	250	380	220	323	50	239 - 279	459
200	200	460	259	396	70	280 - 320	565
200	250	460	259	396	70	280 - 320	565
200	315	460	259	396	70	280 - 320	565
250	250	540	309	486	70	330 - 370	698
250	315	540	309	486	70	330 - 370	698
250	400	540	309	486	70	330 - 370	698
315	315	540	373	646	70	395 - 435	858
315	400	540	373	646	70	395 - 435	858

* Anvendes tilbehør MBZ vil H-mål øges:

Ød₂ = 125 - 200 mm => H + 40 mm

Ød₂ = 250 - 315 mm => H + 60 mm

Ød₂ = 400 mm => H + 80 mm

Bestillingskode

Produkt _____
 Type _____
 MBB _____
 Kanaltilslutning Ød₁ _____
 Ø100-315 _____
 Armaturtilslutning Ød₂ _____
 Ø125-400 _____
 Funktion _____
 S = Indblæsning _____
 E = Udsugning _____

Eksempel: PKA-200+MBB-160-200-S

Perforeret armatur

PKA

Tekniske data

Kapacitet

Volumenstrøm q_v [l/s] og [m³/h], totaltryk Δp_t [Pa], kaste-længde $l_{0,2}$ [m] samt lydeffektniveau L_{WA} [dB(A)] aflæses i diagrammerne.

Frekvensopdelt lydeffektniveau

Lydeffektniveauet i frekvensbånd er defineret som $L_{WA} + K_{ok}$. K_{ok} -værdierne er angivet i skemaform under diagrammerne på de følgende sider.

Hurtigvalg, Indblæsning

PKA + MBB		Max. Volumenstrøm 30dB(A)		Max. Volumenstrøm 35dB(A)	
Kanal Ød ₁	PKA Ød ₂	l/s	m ³ /h	l/s	m ³ /h
100	125	33	119	39	140
100	160	39	140	47	169
125	125	40	144	48	173
125	160	51	184	61	220
125	200	58	209	70	252
160	160	59	212	70	252
160	200	67	241	84	302
160	250	77	277	99	356
200	200	83	299	100	360
200	250	96	346	118	425
200	315	112	403	139	500
250	250	118	425	139	500
250	315	133	479	163	587
250	400	128	461	174	626
315	315	145	522	173	623
315	400	173	623	209	752

Egendæmpning

Armaturets egendæmpning ΔL fra kanal til rum inklusive enderefleksion, se nedenstående tabel.

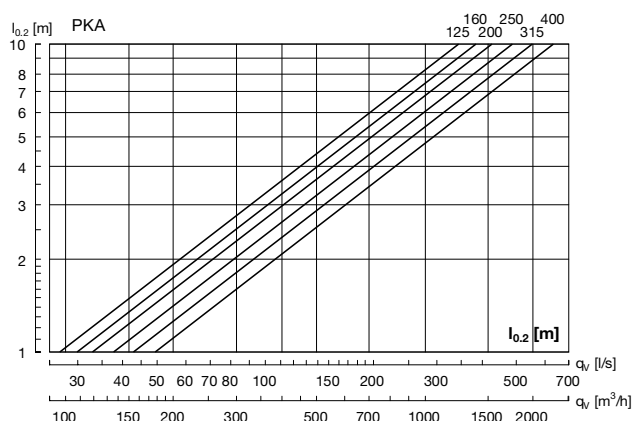
PKA + MBB		Middelfrekvens Hz							
Kanal Ød ₁	PKA Ød ₂	63	125	250	500	1K	2K	4K	8K
100	125	19	16	7	19	18	18	18	21
100	160	21	16	5	15	17	18	16	19
125	125	18	13	9	20	13	19	18	19
125	160	12	13	8	19	13	16	17	19
125	200	16	11	5	16	13	15	15	17
160	160	17	17	11	19	18	17	20	20
160	200	14	14	7	21	15	16	18	19
160	250	15	15	5	17	13	15	16	18
200	200	15	10	6	16	17	15	19	18
200	250	12	9	5	14	17	15	17	17
200	315	12	7	4	11	15	14	16	15
250	250	14	8	8	14	16	17	17	18
250	315	12	6	6	15	15	15	16	17
250	400	13	5	4	13	14	14	15	15
315	315	7	9	8	14	17	16	17	21
315	400	7	8	8	12	16	16	16	18

Indregulering

Indreguleringsdata findes i separat brochure.

Kastelængde $l_{0,2}$

Kastelængden er angivet ved en sluthastighed på 0,2 m/s.



Korrektion af kastelængde $l_{0,2}$

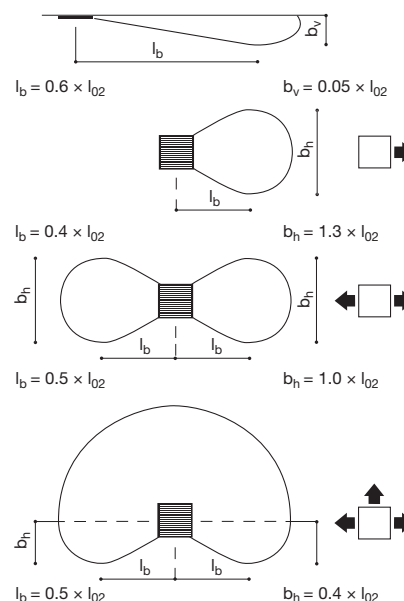
PKA Ød	1 - vejs	2 - vejs	3 - vejs
125	2.6	1.8	1.4
160	2.5	1.7	1.3
200	2.4	1.7	1.3
250	2.3	1.7	1.3
315	2.2	1.7	1.2
400	2.3	1.7	1.2

Stråleudbredelse

l_b = Afstand fra armaturet til det punkt, hvor spredningen er maksimal.

b_v = Strålens tykkelse i vertikalt plan.

b_h = Strålens bredde i horisontalt plan.

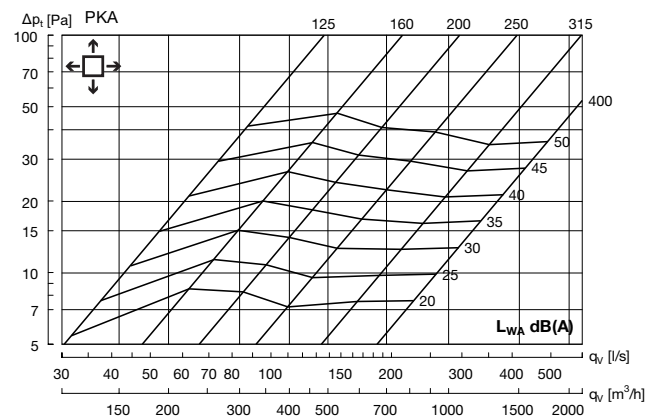


Perforeret armatur

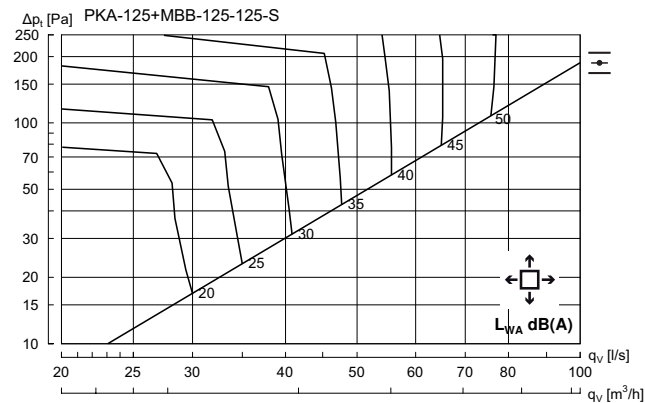
PKA

Tekniske data

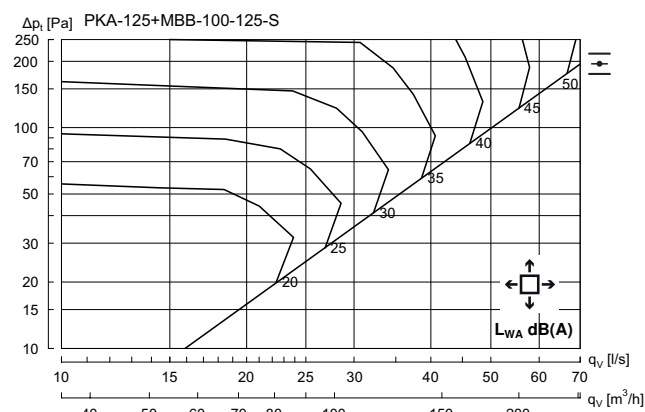
PKA uden boks - Indblæsning



PKA 125 + MBB - Indblæsning



Hz	63	125	250	500	1K	2K	4K	8K
K _{uk}	9	5	-1	-4	-3	-11	-20	-26



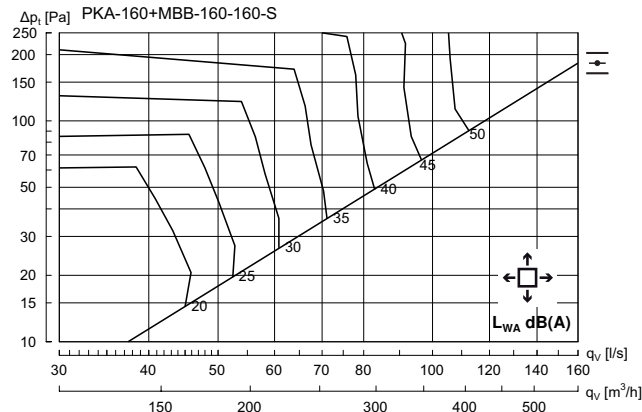
Hz	63	125	250	500	1K	2K	4K	8K
K _{uk}	11	7	3	-5	-5	-11	-18	-25

Perforeret armatur

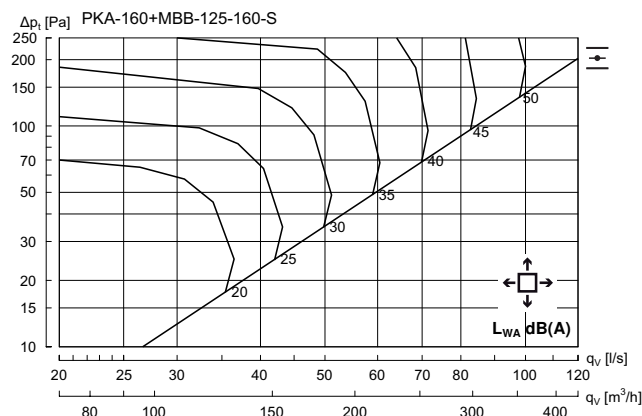
PKA

Tekniske data

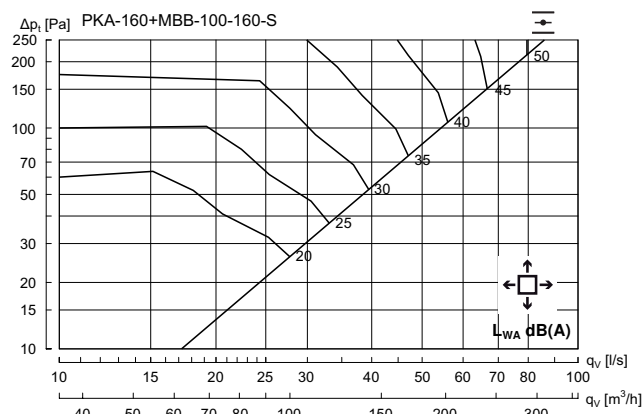
PKA 160 + MBB - Indblæsning



Hz	63	125	250	500	1K	2K	4K	8K
K_{vk}	8	5	-2	-4	-3	-11	-21	-29

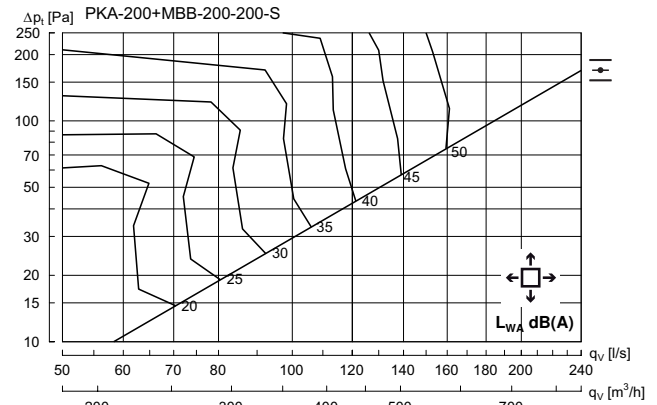


Hz	63	125	250	500	1K	2K	4K	8K
K_{vk}	9	5	1	-4	-4	-10	-17	-25

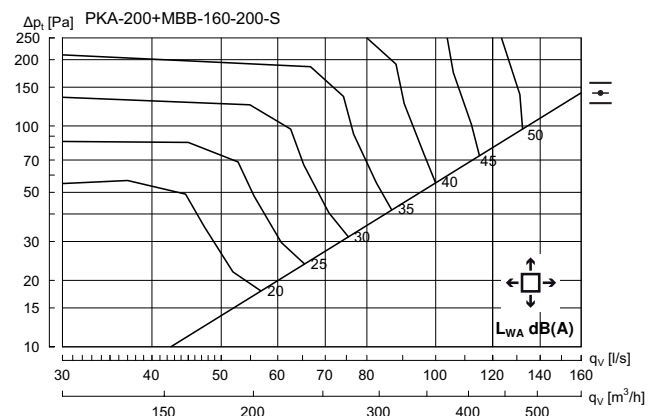


Hz	63	125	250	500	1K	2K	4K	8K
K_{vk}	9	4	1	-3	-5	-10	-15	-19

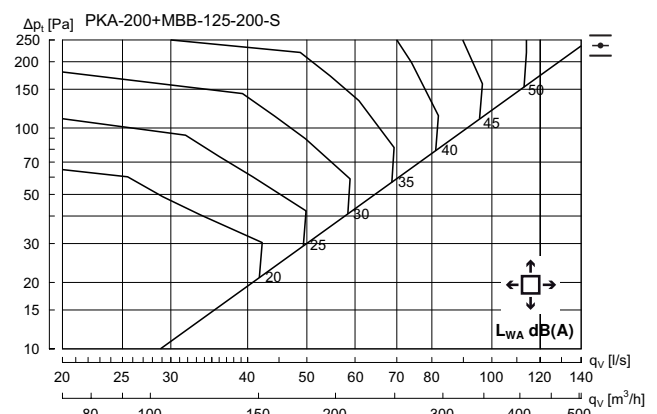
PKA 200 + MBB - Indblæsning



Hz	63	125	250	500	1K	2K	4K	8K
K_{vk}	11	5	-3	-3	-3	-11	-22	-29



Hz	63	125	250	500	1K	2K	4K	8K
K_{vk}	10	5	-2	-4	-3	-10	-20	-26



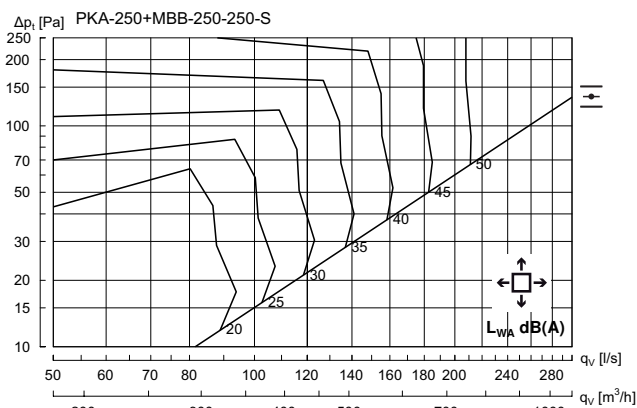
Hz	63	125	250	500	1K	2K	4K	8K
K_{vk}	10	5	1	-4	-5	-10	-15	-22

Perforeret armatur

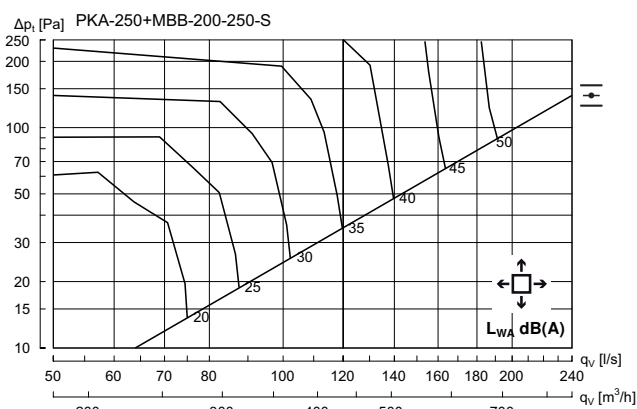
PKA

Tekniske data

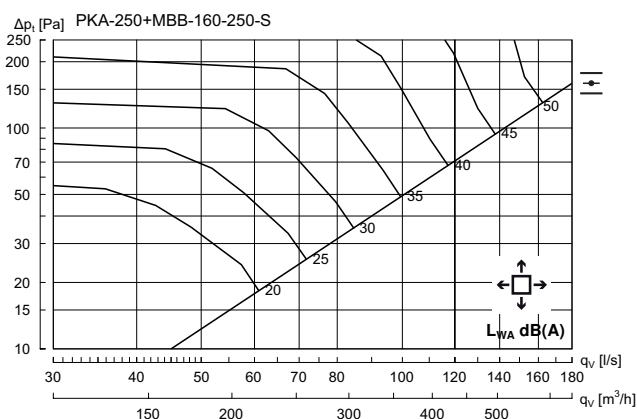
PKA 250 + MBB - Indblæsning



Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	11	3	-4	-3	-3	-12	-22	-30

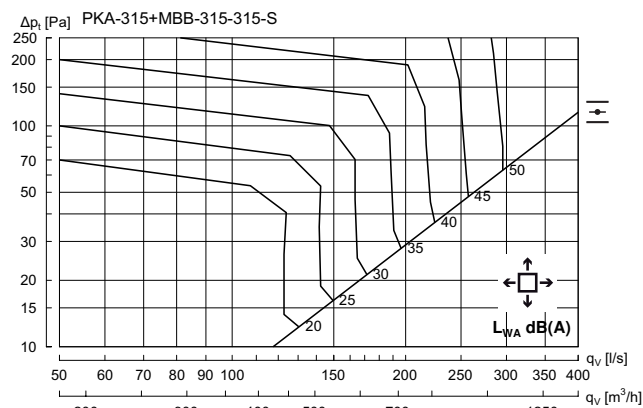


Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	10	5	-2	-3	-3	-11	-20	-28

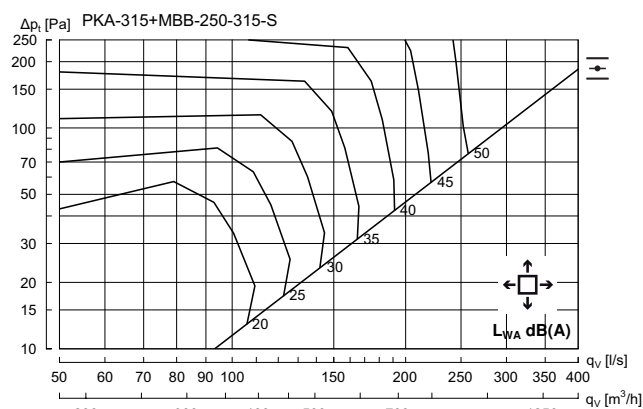


Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	8	5	0	-4	-4	-10	-17	-23

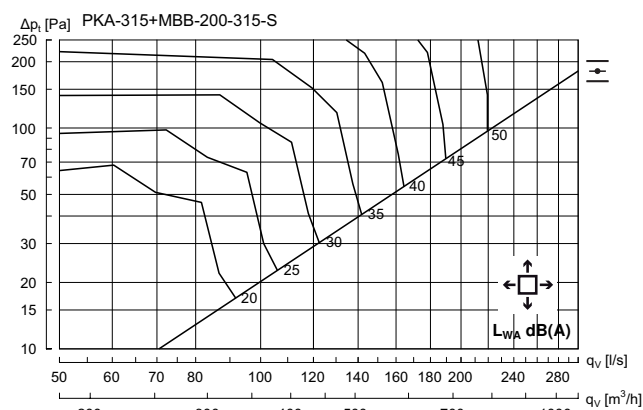
PKA 315 + MBB - Indblæsning



Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	12	2	-3	-2	-3	-13	-23	-33



Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	11	3	-2	-3	-4	-11	-18	-27



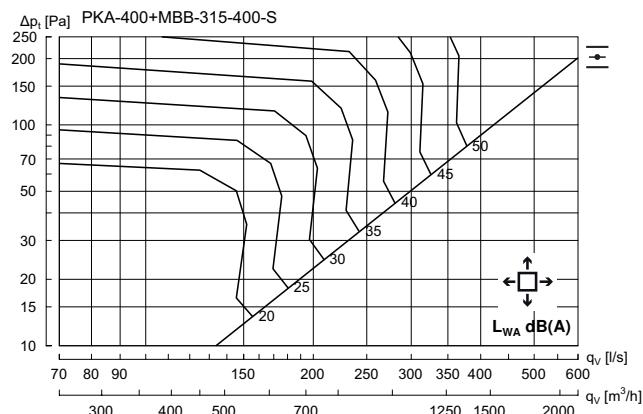
Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	10	5	-1	-3	-4	-11	-19	-25

Perforeret armatur

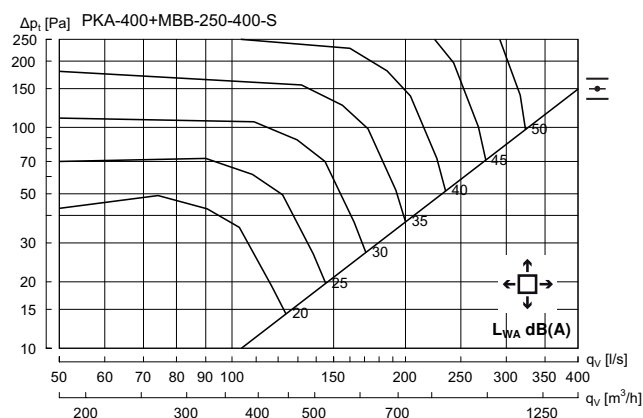
PKA

Tekniske data

PKA 400 + MBB - Indblæsning



Hz	63	125	250	500	1K	2K	4K	8K
K_{ek}	14	2	0	-2	-5	-13	-17	-26



Hz	63	125	250	500	1K	2K	4K	8K
K_{ek}	10	4	0	-2	-4	-11	-17	-24

PKA + MBB - Indblæsning

Korrektion af lydeffektniveau (L_{WA}) og tryktab (Δp_t)

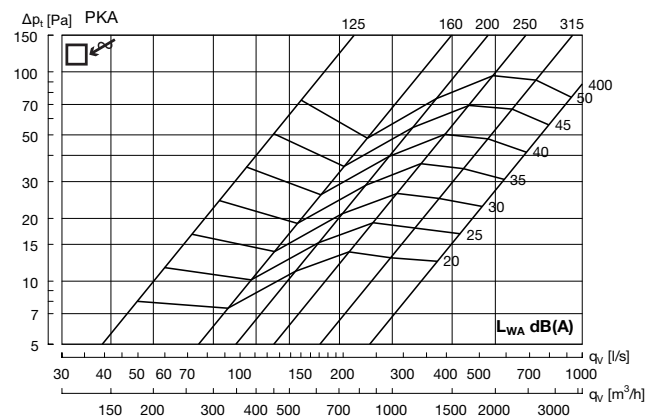
PKA + MBB		1 - vejs		2 - vejs		3 - vejs	
Kanal	PKA						
Ød_1	Ød_2	L_{WA}	Δp_t	L_{WA}	Δp_t	L_{WA}	Δp_t
100	125	+ 10	x 1.3	+ 4	x 1.1	+ 2	x 1.05
100	160	+ 5	x 1.1	+ 2	x 1.05	+ 1	x 1
125	125	+ 10	x 1,35	+ 6	x 1,1	+ 4	x 1,05
125	160	+ 10	x 1.4	+ 4	x 1.1	+ 1	x 1
125	200	+ 4	x 1.2	+ 2	x 1.05	+ 1	x 1
160	160	+ 13	x 1.8	+ 6	x 1.3	+ 2	x 1.1
160	200	+ 16	x 1.7	+ 10	x 1.2	+ 4	x 1.05
160	250	+ 10	x 1.3	+ 6	x 1,1	+ 3	x 1
200	200	+ 17	x 2.3	+ 11	x 1.4	+ 7	x 1.1
200	250	+ 13	x 1.8	+ 6	x 1.2	+ 4	x 1.1
200	315	+ 9	x 1.5	+ 4	x 1.1	+ 0	x 1.05
250	250	+ 21	x 2.1	+ 11	x 1.4	+ 7	x 1.2
250	315	+ 19	x 1.8	+ 7	x 1.2	+ 3	x 1.1
250	400	+ 10	x 1.5	+ 6	x 1.2	+ 0	x 1
315	315	+ 21	x 2.1	+ 10	x 1.3	+ 4	x 1.1
315	400	+ 21	x 1.8	+ 8	x 1.5	+ 3	x 1.2

Perforeret armatur

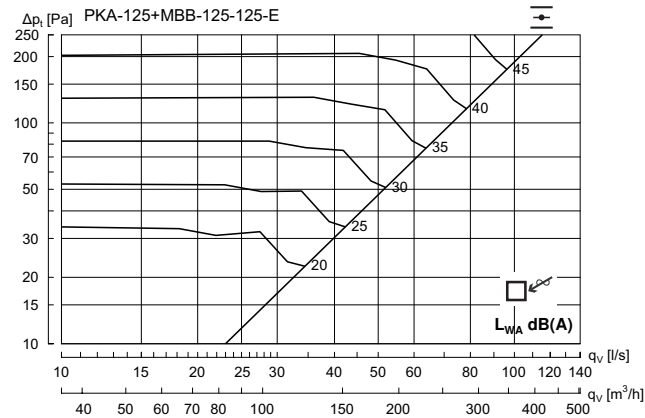
PKA

Tekniske data

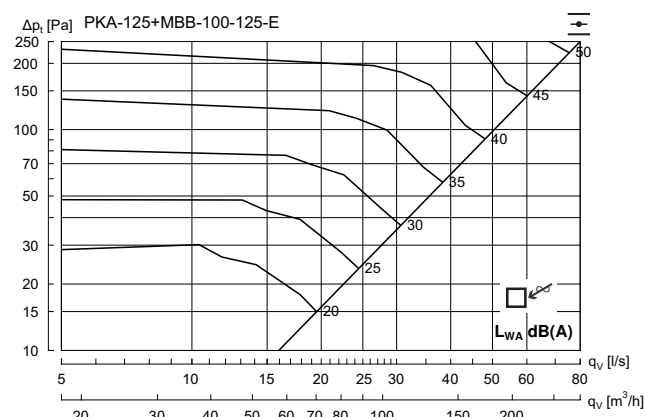
PKA uden boks - Udsugning



PKA 125 + MBB - Udsugning



Hz	63	125	250	500	1K	2K	4K	8K
K _{uk}	13	5	-1	-4	-4	-11	-15	-20



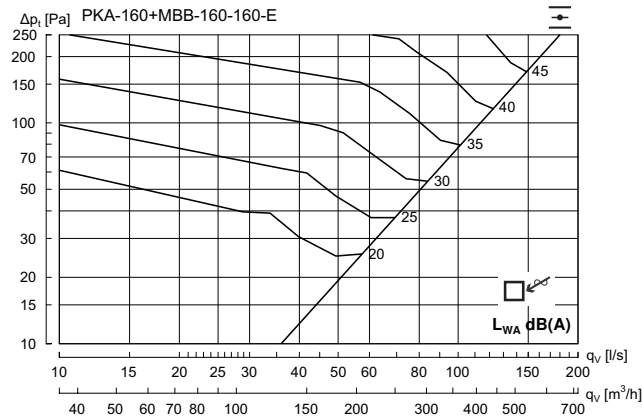
Hz	63	125	250	500	1K	2K	4K	8K
K _{uk}	13	-1	3	-3	-6	-10	-16	-19

Perforeret armatur

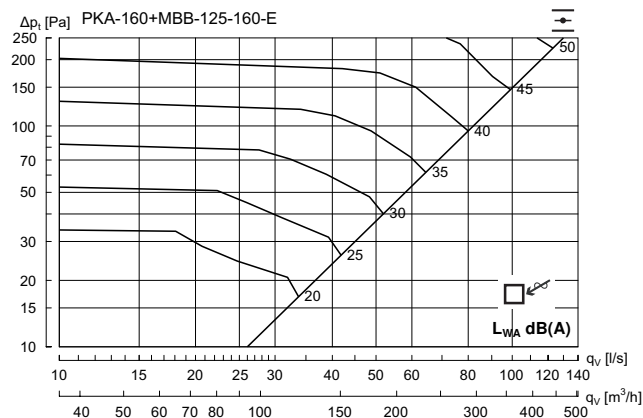
PKA

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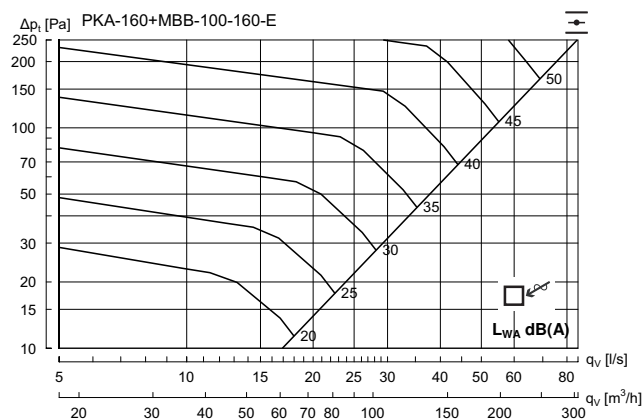
PKA 160 + MBB - Udsugning



Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	16	6	-1	-5	-4	-10	-15	-19

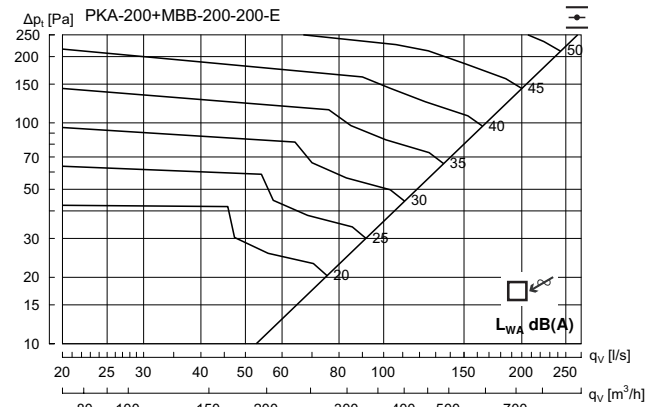


Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	13	5	0	-3	-5	-11	-15	-22

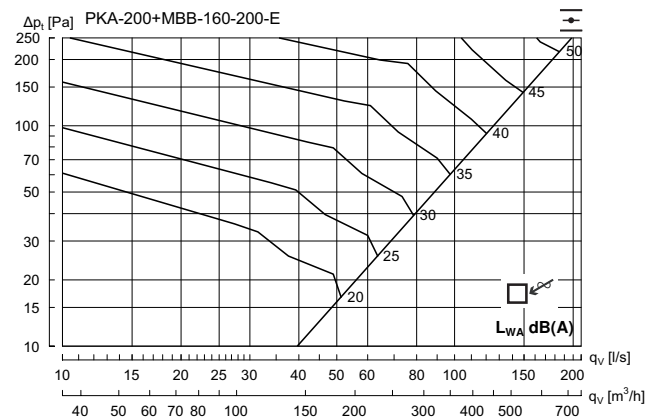


Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	10	-1	5	-3	-8	-11	-18	-25

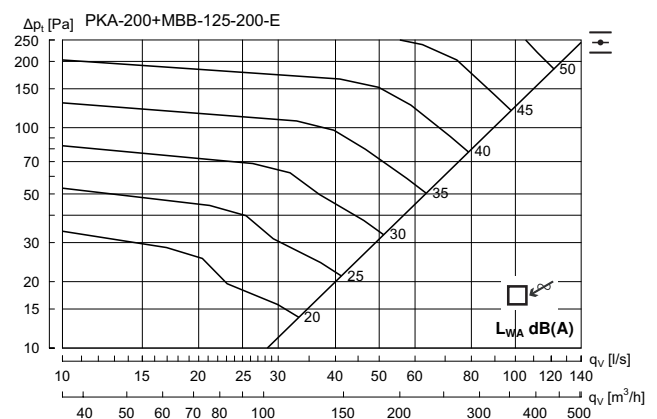
PKA 200 + MBB - Udsugning



Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	15	4	-1	-4	-5	-9	-16	-25



Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	15	6	-1	-5	-5	-9	-14	-20



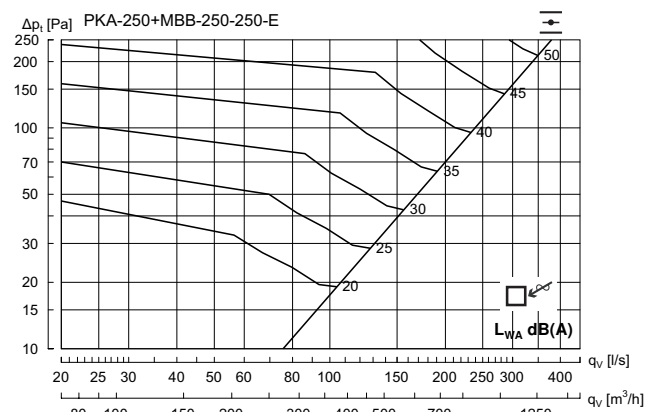
Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	9	3	1	-4	-5	-10	-14	-21

Perforeret armatur

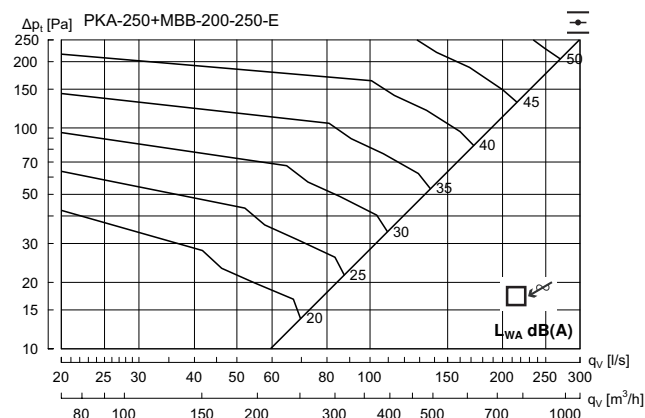
PKA

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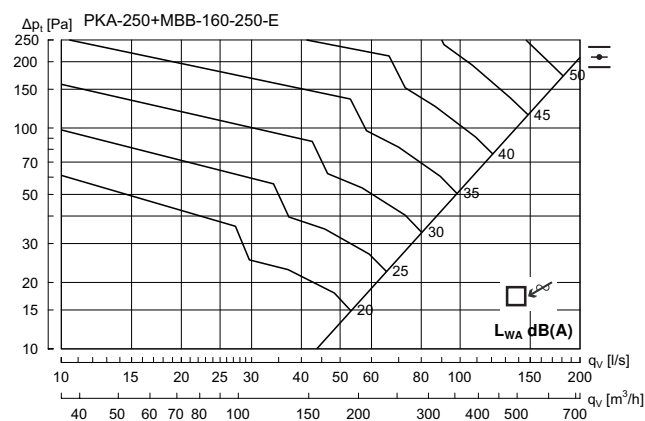
PKA 250 + MBB - Udsugning



Hz	63	125	250	500	1K	2K	4K	8K
K_{vk}	10	5	2	-3	-5	-11	-16	-25

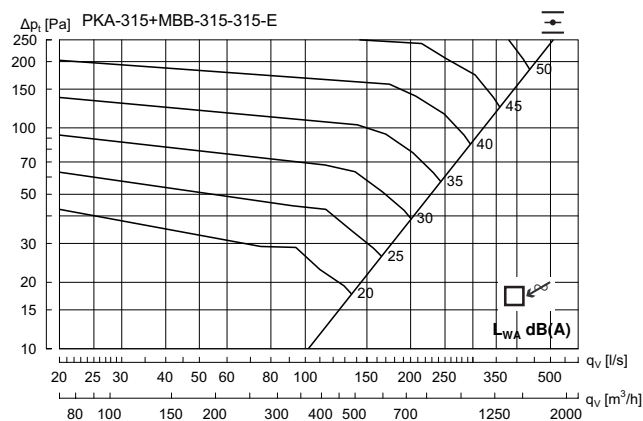


Hz	63	125	250	500	1K	2K	4K	8K
K_{vk}	12	5	0	-3	-5	-10	-14	-23

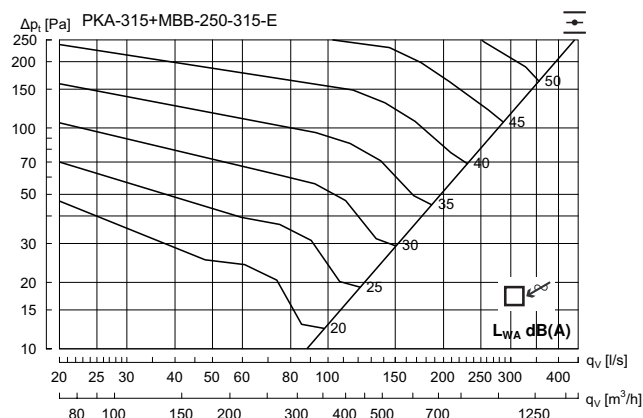


Hz	63	125	250	500	1K	2K	4K	8K
K_{vk}	16	6	0	-5	-5	-9	-15	-21

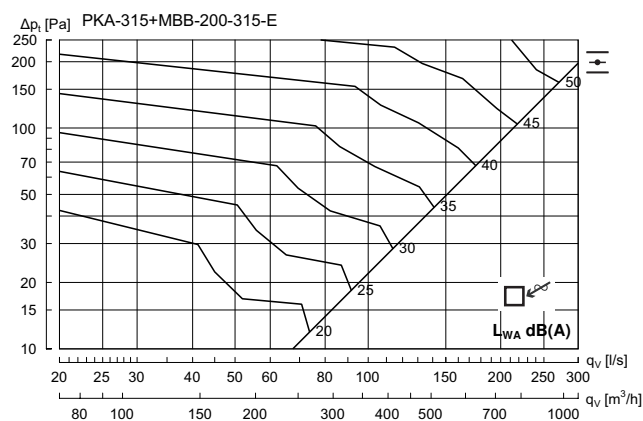
PKA 315 + MBB - Udsugning



Hz	63	125	250	500	1K	2K	4K	8K
K_{vk}	13	5	3	-4	-6	-10	-16	-26



Hz	63	125	250	500	1K	2K	4K	8K
K_{vk}	7	5	2	-3	-6	-10	-16	-24



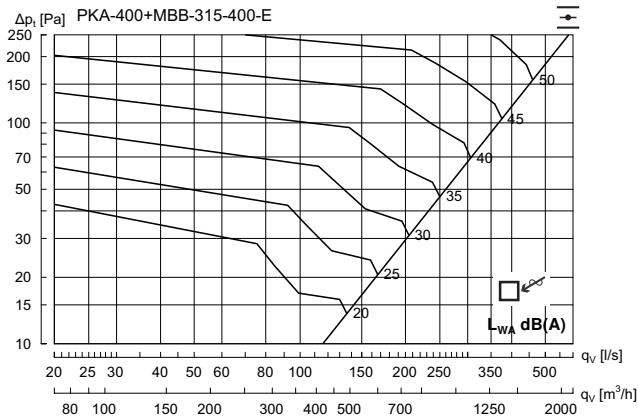
Hz	63	125	250	500	1K	2K	4K	8K
K_{vk}	13	5	0	-3	-5	-9	-15	-23

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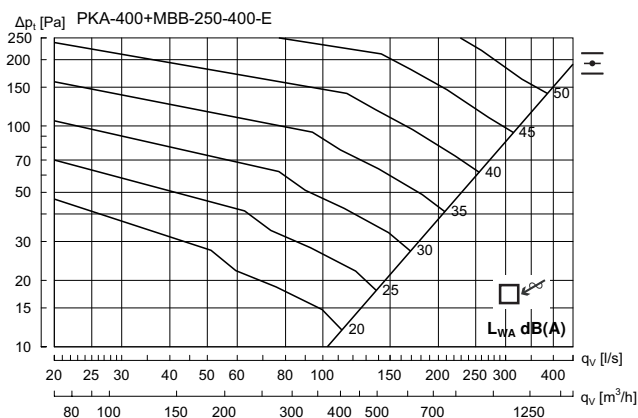
PKA

Tekniske data

PKA 400 + MBB - Udsugning



Hz	63	125	250	500	1K	2K	4K	8K
K_{ek}	10	4	2	-3	-6	-9	-14	-25



Hz	63	125	250	500	1K	2K	4K	8K
K_{ek}	10	5	2	-4	-5	-10	-15	-23