

Uperforeret armatur

LKA



Beskrivelse

LKA er et kvadratisk armatur med uperforeret bundplade og kan anvendes til såvel indblæsning som udsugning. LKA er velegnet til horisontal indblæsning af undertempereret luft, hvor man ønsker høj impuls og kan udrustes med flere typer tilbehør. LKA 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
- Høj impuls
- Mulighed for 1-, 2 og 3-vejs indblæsning

Vedligeholdelse

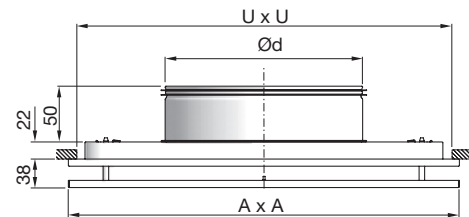
Bundplade kan demonteres i forbindelse med rengøring af indvendige dele eller for at opnå fri adgang til kanal eller boks. De synlige dele af armaturet kan aftørres med en fugtig klud.

Bestillingskode

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

Eksempel: LKA-200

Dimensioner



LKA Ød mm	A mm	U* mm	Friareal A m ²	Vægt kg
125	235	200	0,011	1,10
160	295	260	0,016	1,80
200	395	360	0,022	2,80
250	495	460	0,033	4,20
315	595	560	0,041	5,70
400	595	560	0,042	5,70

* U x U = Udsærmåling i loft

Materialer og finish:

Materiale: Galvaniseret stål
 Standardfinish: Pulverlakeret
 Standardfarve: Hvid RAL 9010, glans 30

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

Uperforeret armatur

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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

LKA + MBB		Max. Volumenstrøm		Max. Volumenstrøm	
Kanal	LKA	30dB(A)		35dB(A)	
Ød ₁	Ød ₂	l/s	m ³ /h	l/s	m ³ /h
100	125	31	112	38	137
100	160	40	144	49	176
125	125	42	151	50	180
125	160	53	191	64	230
125	200	63	227	75	270
160	160	60	216	73	263
160	200	70	252	88	317
160	250	94	338	115	414
200	200	98	353	118	425
200	250	106	382	129	464
200	315	133	479	159	572
250	250	116	418	141	508
250	315	136	490	167	601
250	400	139	500	182	655
315	315	153	551	183	659
315	400	169	608	200	720

Egendæmpning

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

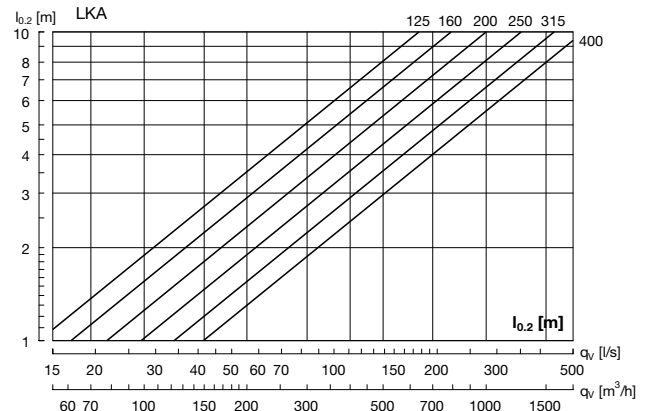
LKA + MBB		Middelfrekvens Hz							
Kanal	LKA	63	125	250	500	1K	2K	4K	8K
Ød ₁	Ød ₂								
100	125	20	17	6	16	19	20	18	22
100	160	21	17	5	12	19	20	18	21
125	125	17	14	9	19	15	21	18	20
125	160	13	13	9	18	18	18	18	20
125	200	14	12	7	15	16	18	17	19
160	160	18	17	11	16	21	19	20	21
160	200	15	14	9	20	21	20	20	20
160	250	16	16	7	17	13	18	19	20
200	200	14	11	8	15	21	18	20	18
200	250	13	10	8	16	20	17	19	17
200	315	15	9	6	14	17	17	18	17
250	250	16	9	9	17	20	19	19	19
250	315	15	8	9	16	18	16	18	18
250	400	13	6	6	14	16	17	17	17
315	315	8	10	10	16	20	19	18	23
315	400	8	10	10	13	19	19	17	21

Indregulering

Indreguleringsdata findes i separat hæfte.

Kastelængde $l_{0,2}$

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



Korrektion af kastelængde $l_{0,2}$

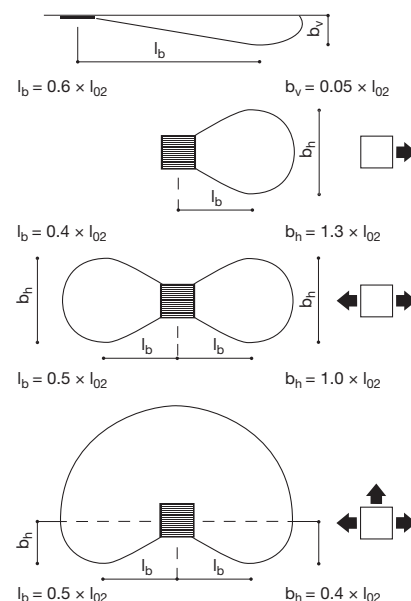
LKA Ød	1 - vejs	2 - vejs	3 - vejs
125	2.3	1.8	1.3
160	2.3	1.8	1.3
200	2.3	1.9	1.3
250	2.3	2	1.3
315	2.3	2	1.3
400	2.2	2.1	1.3

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.

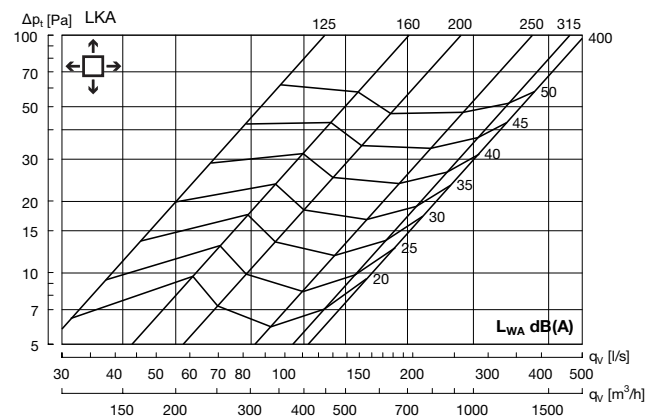


Uperforeret armatur

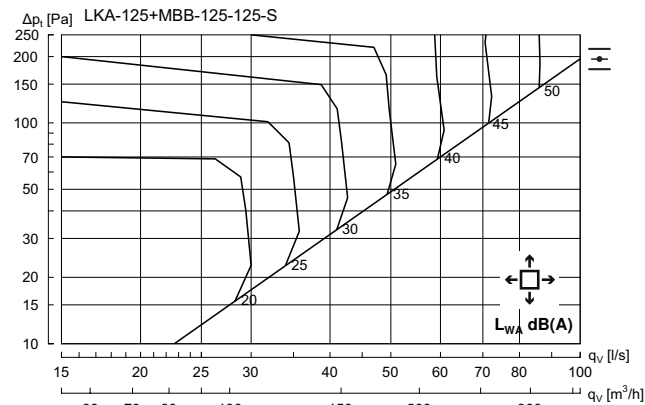
LKA

Tekniske data

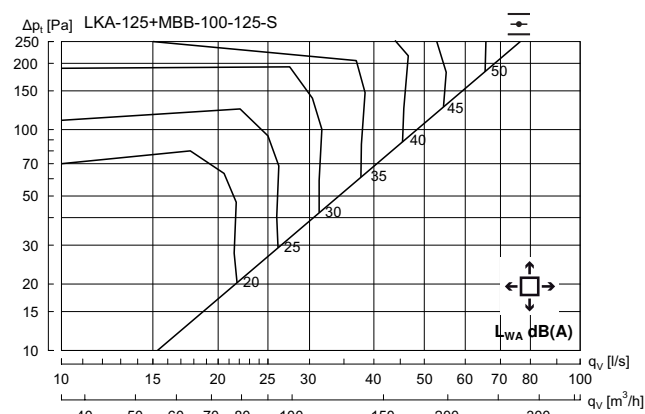
LKA uden boks - Indblæsning



LKA 125 + MBB - Indblæsning



Hz	63	125	250	500	1K	2K	4K	8K
K _{uk}	12	6	1	-4	-4	-13	-20	-28



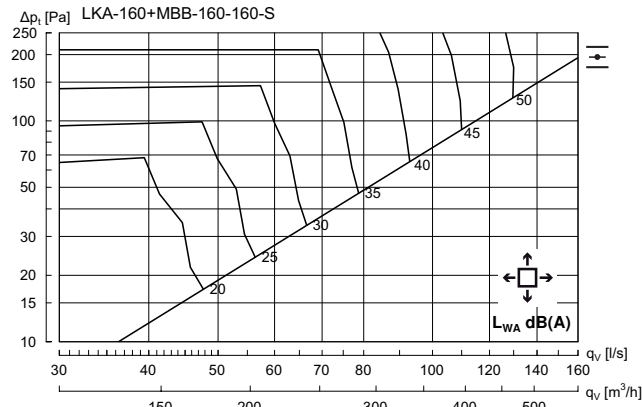
Hz	63	125	250	500	1K	2K	4K	8K
K _{uk}	11	7	3	-4	-5	-14	-18	-24

Uperforeret armatur

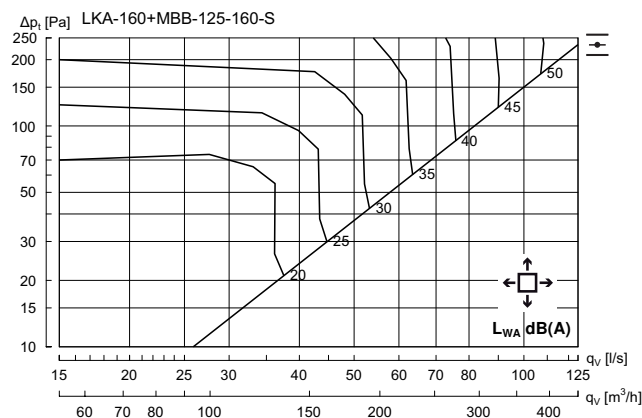
LKA

Tekniske data

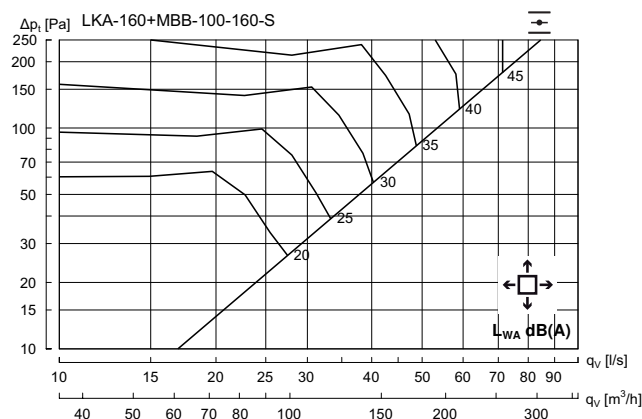
LKA 160 + MBB - Indblæsning



Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	11	11	0	-2	-7	-15	-22	-28

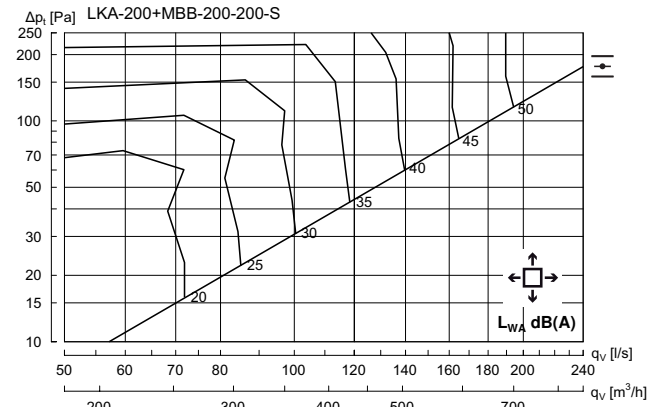


Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	13	8	1	-3	-6	-12	-17	-25

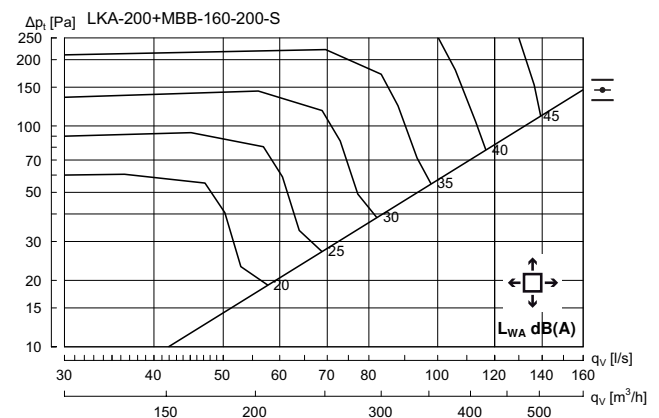


Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	12	5	1	-2	-6	-10	-14	-20

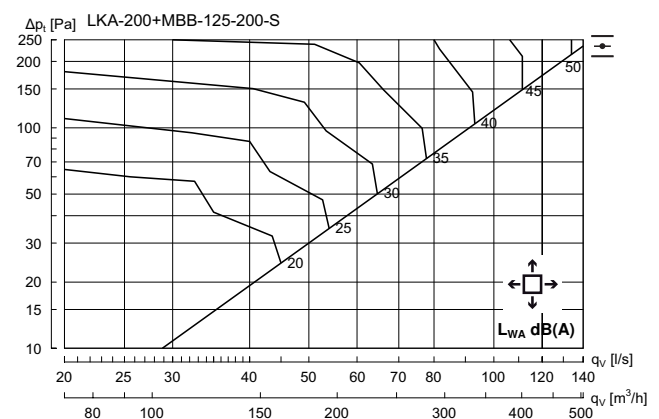
LKA 200 + MBB - Indblæsning



Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	12	6	-1	-1	-5	-15	-21	-26



Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	12	9	0	-2	-6	-12	-19	-24



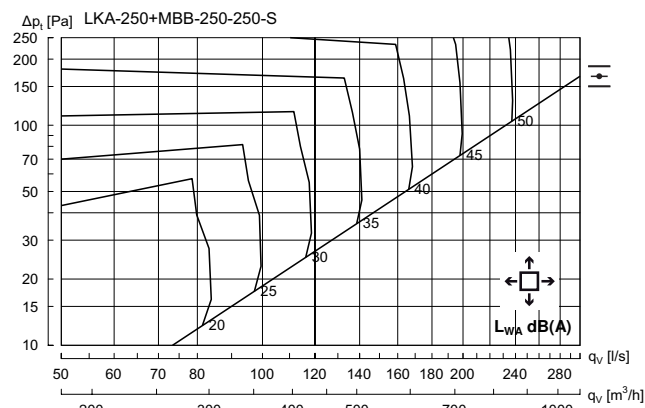
Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	12	7	1	-3	-6	-11	-15	-21

Uperforeret armatur

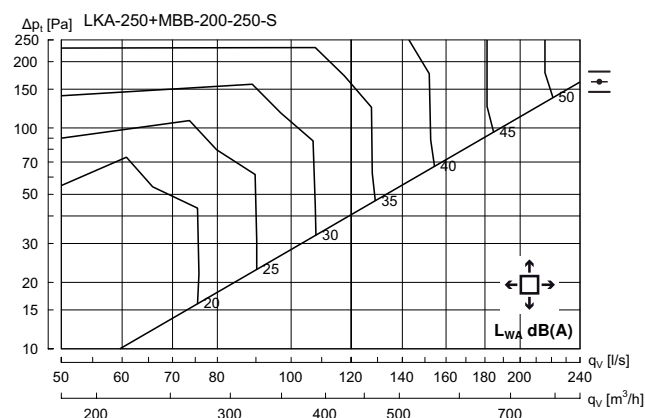
LKA

Tekniske data

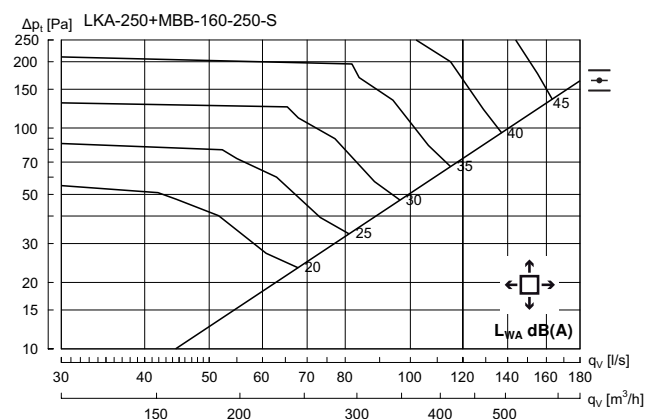
LKA 250 + MBB - Indblæsning



Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	12	3	-4	0	-4	-17	-24	-31

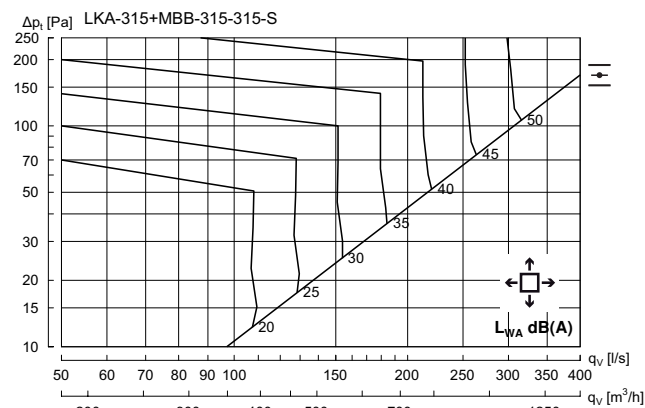


Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	12	6	-2	-1	-5	-14	-19	-23

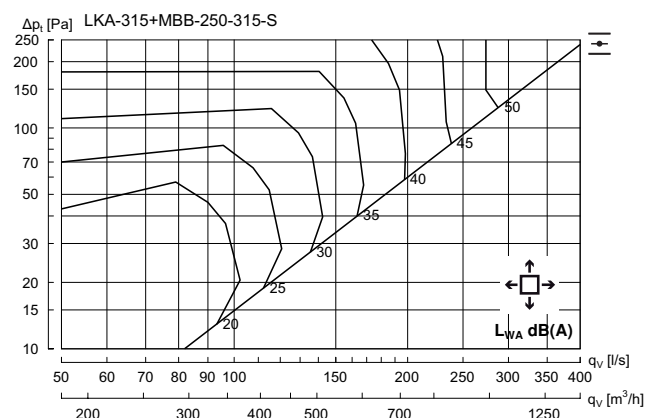


Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	9	7	-2	-3	-5	-10	-15	-21

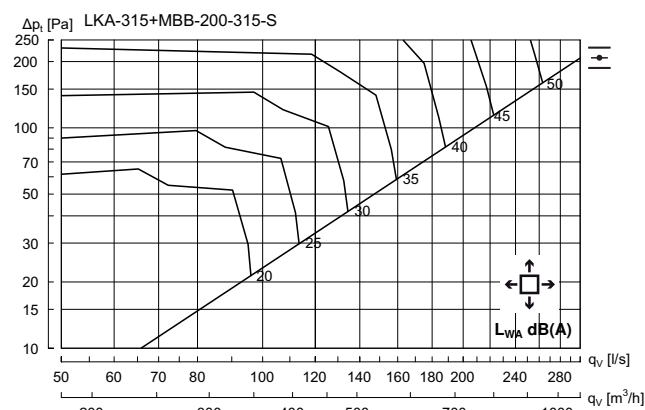
LKA 315 + MBB - Indblæsning



Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	13	5	-2	-1	-4	-17	-25	-36



Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	14	5	-2	-2	-4	-13	-19	-26



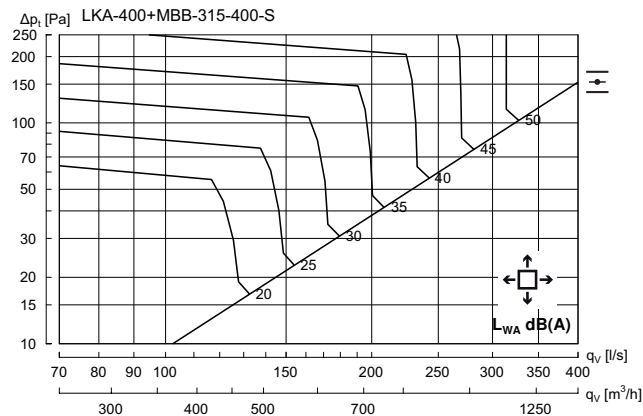
Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	13	6	-2	-3	-4	-11	-17	-22

Uperforeret armatur

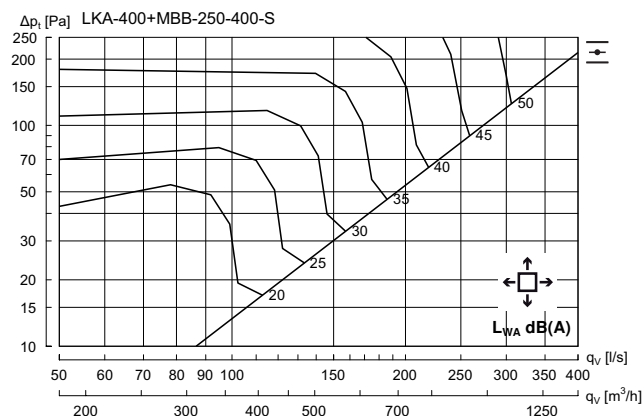
LKA

Tekniske data

LKA 400 + MBB - Indblæsning



Hz	63	125	250	500	1K	2K	4K	8K
K_{ek}	14	6	1	-1	-6	-16	-21	-27



Hz	63	125	250	500	1K	2K	4K	8K
K_{ek}	12	7	0	-2	-6	-12	-19	-26

LKA + MBB - Indblæsning

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

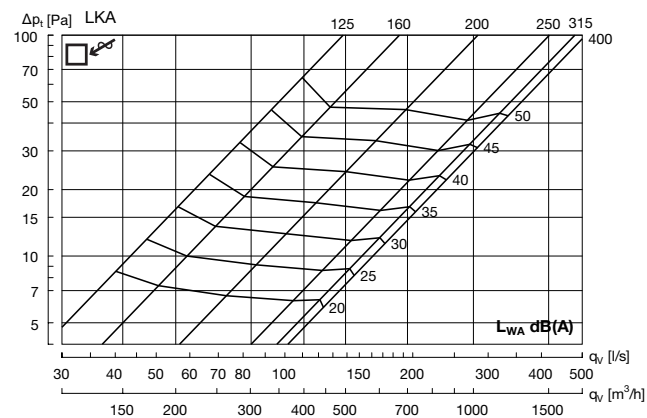
LKA + MBB		1 - vejs		2 - vejs		3 - vejs	
Kanal	PKA						
Ød_1	Ød_2	L_{WA}	Δp_t	L_{WA}	Δp_t	L_{WA}	Δp_t
100	125	+ 10	x 1,3	+ 4	x 1,1	+ 2	x 1,05
100	160	+ 5	x 1,1	+ 2	x 1,05	+ 1	x 1
125	125	+ 10	x 1,35	+ 6	x 1,1	+ 4	x 1,05
125	160	+ 10	x 1,4	+ 4	x 1,1	+ 1	x 1
125	200	+ 4	x 1,2	+ 2	x 1,05	+ 1	x 1
160	160	+ 16	x 1,8	+ 9	x 1,3	+ 4	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

Uperforeret armatur

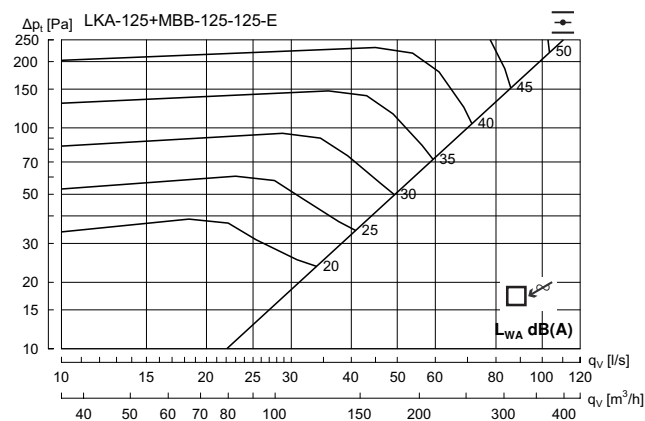
LKA

Tekniske data

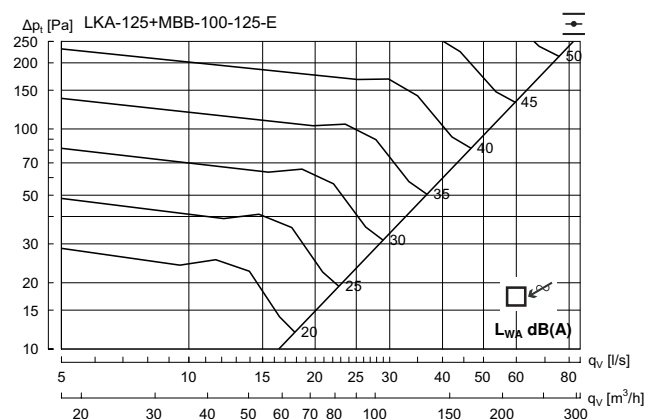
LKA uden boks - Udsugning



LKA 125 + MBB - Udsugning



Hz	63	125	250	500	1K	2K	4K	8K
K _{uk}	13	4	1	-2	-5	-12	-15	-22



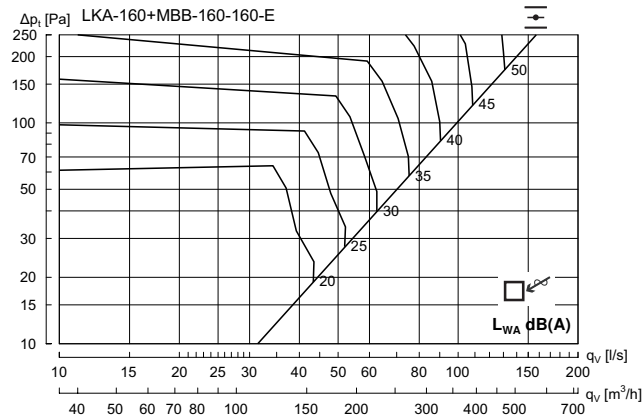
Hz	63	125	250	500	1K	2K	4K	8K
K _{uk}	13	0	4	-2	-8	-11	-16	-22

Uperforeret armatur

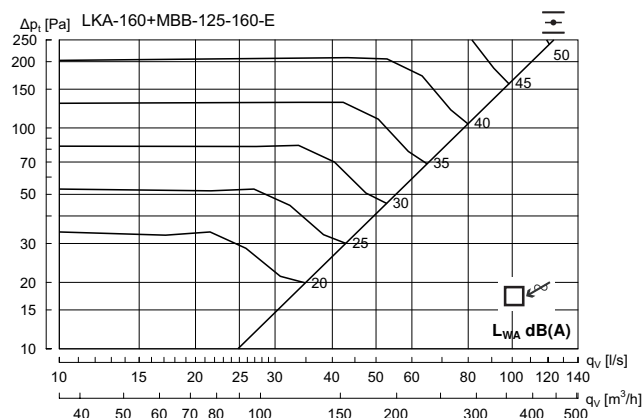
LKA

Tekniske data

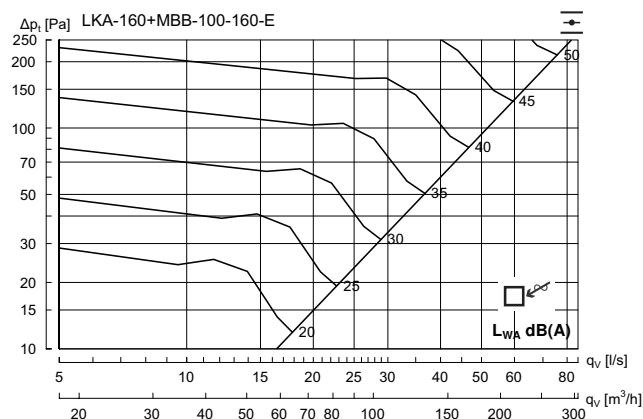
LKA 160 + MBB - Udsugning



Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	16	6	1	-4	-5	-11	-17	-24

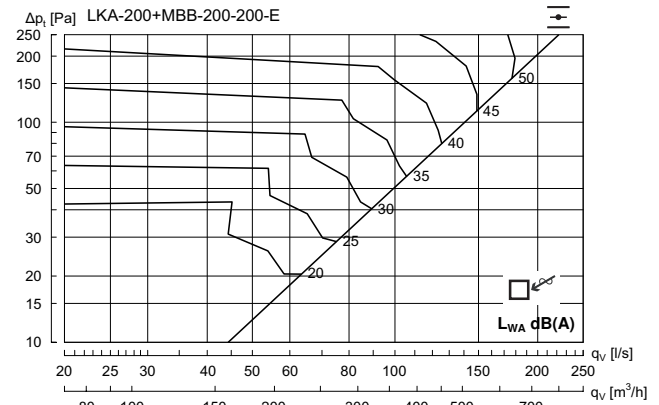


Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	12	6	2	-2	-7	-12	-14	-19

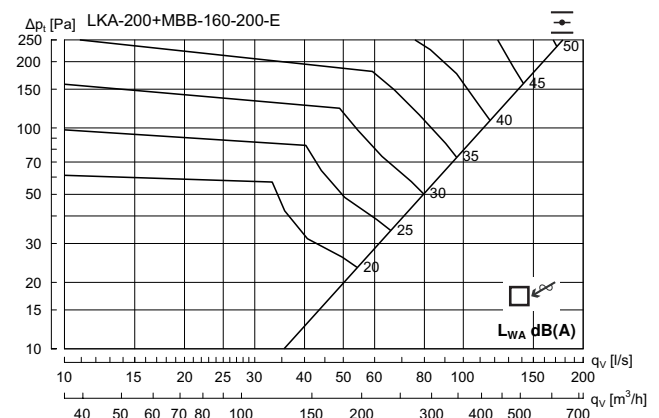


Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	11	-1	5	-2	-9	-13	-18	-24

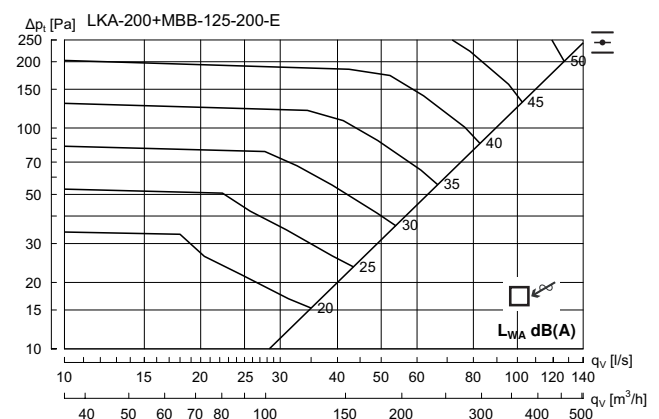
LKA 200 + MBB - Udsugning



Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	14	6	0	-3	-5	-10	-19	-27



Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	16	7	-1	-4	-6	-10	-14	-20



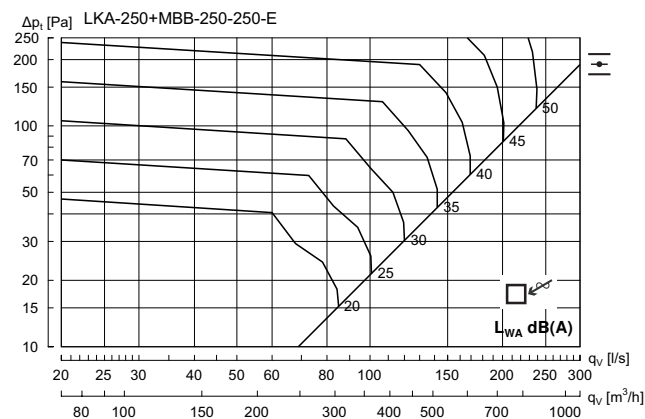
Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	11	3	0	-2	-5	-11	-14	-21

Uperforeret armatur

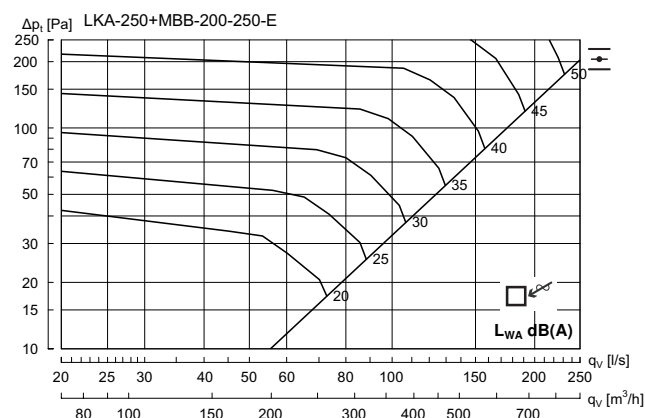
LKA

Tekniske data

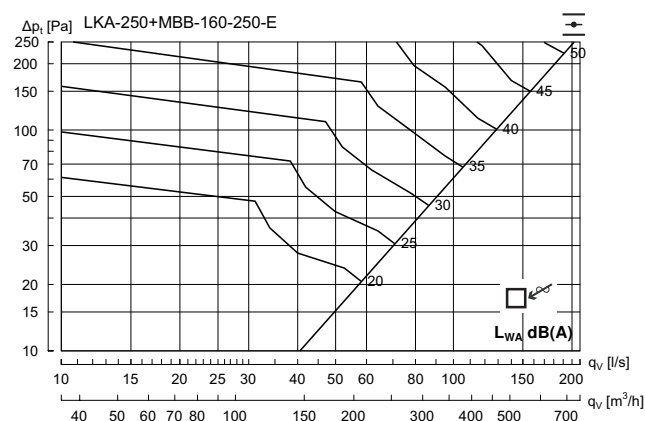
LKA 250 + MBB - Udsugning



Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	12	4	-1	-3	-3	-12	-19	-30

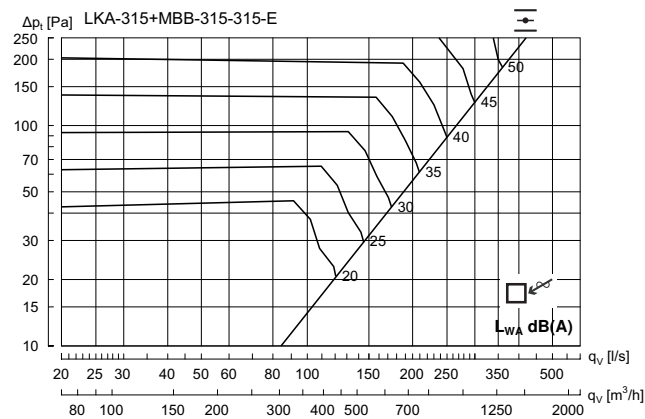


Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	13	3	-1	-3	-4	-11	-15	-24

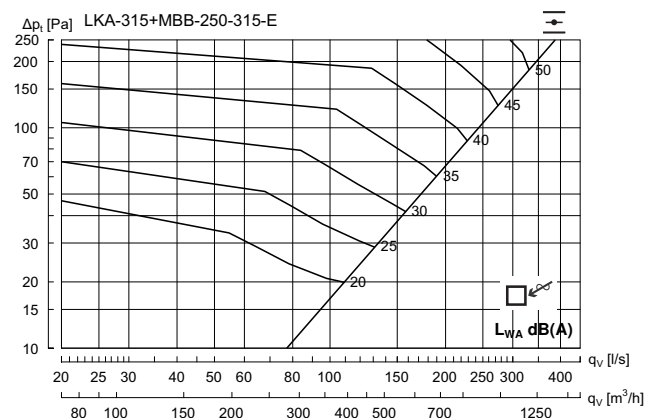


Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	14	6	0	-3	-5	-11	-15	-19

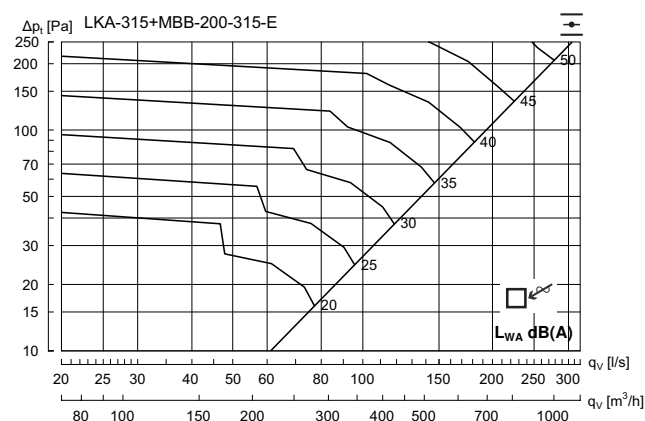
LKA 315 + MBB - Udsugning



Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	13	5	2	-2	-6	-12	-17	-27



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



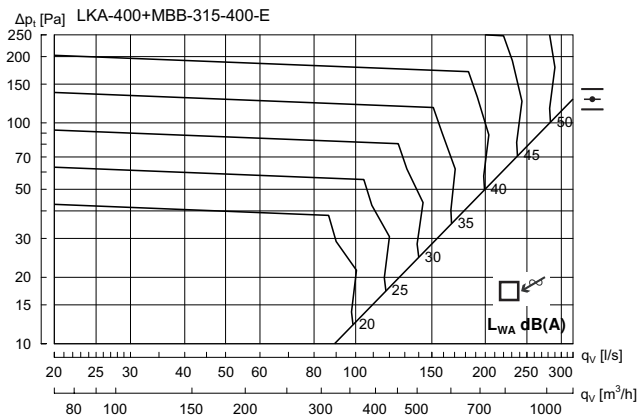
Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	14	5	0	-2	-6	-12	-14	-22

Uperforeret armatur

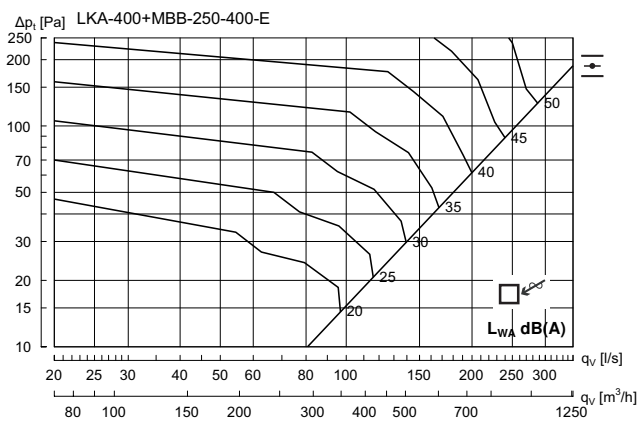
LKA

Tekniske data

LKA 400 + MBB - Udsugning



Hz	63	125	250	500	1K	2K	4K	8K
K_{ek}	10	5	0	0	-6	-15	-20	-27



Hz	63	125	250	500	1K	2K	4K	8K
K_{ek}	12	5	1	-1	-7	-12	-16	-24