

# Operforerat don

# LKP/LCP



LKP

## Beskrivning

LCP har rund bottenplatta och samma egenskaper som LKP.

LKP är ett planförsänkt, kvadratisk don med kvadratisk, operforerad bottenplatta för montering i systemtak. LKP kan användas för både till- och frånluft. LKP är lämpligt för horisontell inblåsning med undertempererad luft och har stort dynamikområde. LKP kan med fördel monteras i tryckfördelningslåda typ MBB för att få stabil tillströmning till donet och möjlighet till individuell justering.

- Enkelt och stilrent utseende
- Stort dynamikområde
- Kan användas för både till- och frånluft
- Kan anpassas till de flesta vanliga taksystem

## Underhåll

Bottenplattan kan demonteras för rengöring av invändiga delar eller för att komma åt kanal eller tryckfördelningslåda. De synliga delarna av donet kan torkas av med en fuktig trasa.

## Beställningskod

|                        |            |     |   |
|------------------------|------------|-----|---|
| <b>Produkt</b>         | LCP/LKP    | aaa | b |
| <b>Typ</b>             | LCP/LKP    |     |   |
| <b>Anslutningsdim.</b> | Ød 125-315 |     |   |
| <b>Taksystem</b>       | 1 - 14     |     |   |

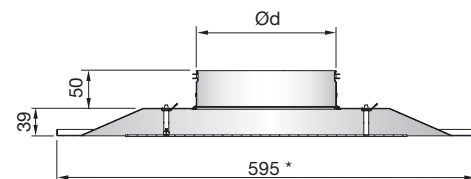
Exempel: LCP-160-1



LCP

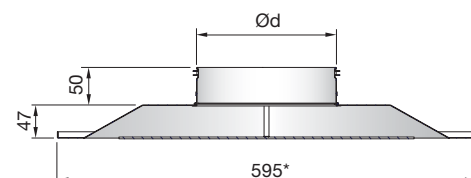
## Dimensioner

### LKP



\* Undertaksystem 1, andra undertaksystem, se Integra kapitel sida 122-123.

### LCP



### LCP

Ød 315, Inga monteringshål för MBB !

| LKP/LCP Ød | Vikt |
|------------|------|
| mm         | kg   |
| 125        | 3.2  |
| 160        | 3.2  |
| 200        | 3.3  |
| 250        | 3.4  |
| 315        | 3.5  |

## Material och ytbehandling

|                     |                    |
|---------------------|--------------------|
| Överdel:            | Galvaniserat stål  |
| Bottenplatta LKP:   | Galvaniserat stål  |
| Bottenplatta LCP:   | Aluminium          |
| Ytb., bottenplatta: | Pulverlackering    |
| Standardfärg:       | RAL 9003, glans 30 |

Donet kan levereras i andra färger. Kontakta Lindabs försäljningsavdelning för mer information.

# Operforerat don

# LCC/LKP/LCP

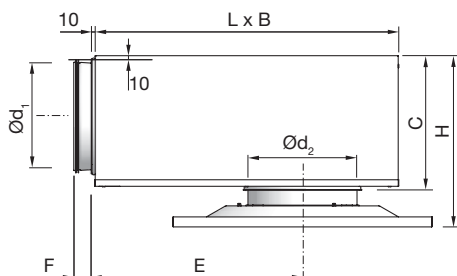
## Tillbehör

### Tryckfördeningslåda

MBB



### LKP + MBB



| LKP + MBB                        |                           | B<br>mm | C<br>mm | E<br>mm | F<br>mm | H*<br>mm  | L<br>mm |
|----------------------------------|---------------------------|---------|---------|---------|---------|-----------|---------|
| Kanalansl.<br>Ød <sub>1</sub> mm | LKP<br>Ød <sub>2</sub> mm |         |         |         |         |           |         |
| 100                              | 125                       | 260     | 159     | 216     | 50      | 198 - 238 | 310     |
| 100                              | 160                       | 260     | 159     | 216     | 50      | 198 - 238 | 310     |
| 125                              | 125                       | 310     | 184     | 262     | 50      | 223 - 263 | 376     |
| 125                              | 160                       | 310     | 184     | 262     | 50      | 223 - 263 | 376     |
| 125                              | 200                       | 310     | 184     | 262     | 50      | 223 - 263 | 376     |
| 160                              | 160                       | 380     | 220     | 323     | 50      | 257 - 297 | 459     |
| 160                              | 200                       | 380     | 220     | 323     | 50      | 257 - 297 | 459     |
| 160                              | 250                       | 380     | 220     | 323     | 50      | 257 - 297 | 459     |
| 200                              | 200                       | 460     | 259     | 396     | 70      | 298 - 338 | 565     |
| 200                              | 250                       | 460     | 259     | 396     | 70      | 298 - 338 | 565     |
| 200                              | 315                       | 460     | 259     | 396     | 70      | 298 - 338 | 565     |
| 250                              | 250                       | 540     | 309     | 486     | 70      | 348 - 388 | 698     |
| 250                              | 315                       | 540     | 309     | 486     | 70      | 348 - 388 | 698     |
| 315                              | 315                       | 540     | 373     | 648     | 70      | 413 - 453 | 858     |

\* Vid användning av MBZ ökar H-måttet enl. nedan:

Ød<sub>2</sub> = 125 - 200 mm => H +40 mm

Ød<sub>2</sub> = 250 - 315 mm => H +60 mm

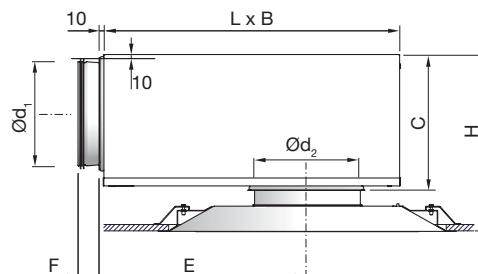
## Beställningskod

|                                       |                             |   |     |   |     |   |   |
|---------------------------------------|-----------------------------|---|-----|---|-----|---|---|
| <b>Produkt</b>                        | MBB                         | - | aaa | - | bbb | - | c |
| <b>Typ</b>                            | MBB                         |   |     |   |     |   |   |
| <b>Kanalanslutning Ød<sub>1</sub></b> | Ø100-315                    |   |     |   |     |   |   |
| <b>Donanslutning Ød<sub>2</sub></b>   | Ø125-315                    |   |     |   |     |   |   |
| <b>Användningsområde</b>              | S = Tilluft<br>E = Frånluft |   |     |   |     |   |   |

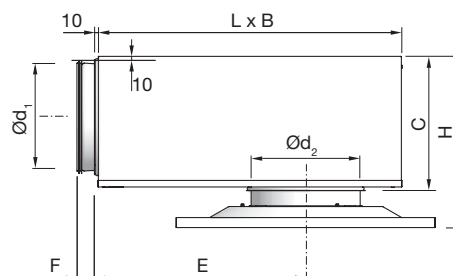
Exempel: LCP-160-1+MBB-160-160-S

## Tillbehör

### LCC + MBB



### LCP + MBB



| LCC / LCP + MBB                  |                           | B<br>mm | C<br>mm | E<br>mm | F<br>mm | H*<br>mm  | L<br>mm |
|----------------------------------|---------------------------|---------|---------|---------|---------|-----------|---------|
| Kanalansl.<br>Ød <sub>1</sub> mm | LCP<br>Ød <sub>2</sub> mm |         |         |         |         |           |         |
| 100                              | 125                       | 260     | 159     | 216     | 50      | 206 - 246 | 310     |
| 100                              | 160                       | 260     | 159     | 216     | 50      | 206 - 246 | 310     |
| 125                              | 125                       | 310     | 184     | 262     | 50      | 231 - 271 | 376     |
| 125                              | 160                       | 310     | 184     | 262     | 50      | 231 - 271 | 376     |
| 125                              | 200                       | 310     | 184     | 262     | 50      | 231 - 271 | 376     |
| 160                              | 160                       | 380     | 220     | 323     | 50      | 265 - 305 | 459     |
| 160                              | 200                       | 380     | 220     | 323     | 50      | 265 - 305 | 459     |
| 160                              | 250                       | 380     | 220     | 323     | 50      | 265 - 305 | 459     |
| 200                              | 200                       | 460     | 259     | 396     | 70      | 306 - 346 | 565     |
| 200                              | 250                       | 460     | 259     | 396     | 70      | 306 - 346 | 565     |
| 200                              | 315                       | 460     | 259     | 396     | 70      | 306 - 346 | 565     |
| 250                              | 250                       | 540     | 309     | 486     | 70      | 356 - 396 | 698     |
| 250                              | 315                       | 540     | 309     | 486     | 70      | 356 - 396 | 698     |
| 315                              | 315                       | 540     | 373     | 646     | 70      | 421 - 461 | 858     |

\* Vid användning av MBZ ökar H-måttet enl. nedan:

Ød<sub>2</sub> = 125 - 200 mm => H +40 mm

Ød<sub>2</sub> = 250 - 315 mm => H +60 mm

## Tekniska data

### Kapacitet

Volymflöde  $q_v$  [l/s] och [m<sup>3</sup>/h], totaltryck  $\Delta p_t$  [Pa], kastlängd  $l_{0,2}$  [m] samt ljudnivå  $L_{WA}$  [dB(A)] avläses i diagrammen.

### Frekvensuppdelad ljudeffektnivå

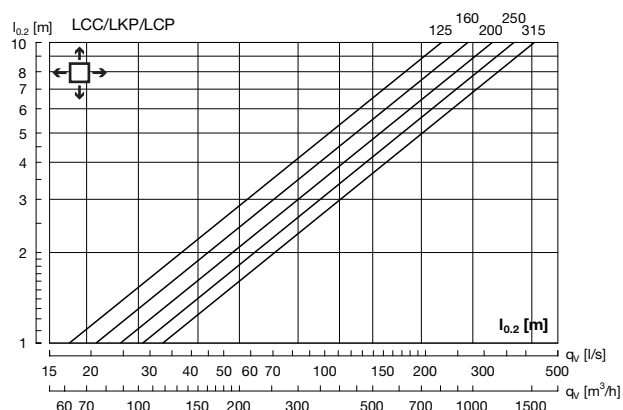
Ljudeffektnivån i frekvensband definieras som  $L_{WA} + K_{ok}$ . Värdena för  $K_{ok}$  anges i tabellform under diagrammen på följande sidor.

### Snabbval, Tilluft

| LCC/LKP/LCP + MBB  |                   | $\Delta p_t \geq 50$ Pa |                   | $\Delta p_t \geq 50$ Pa |                   |
|--------------------|-------------------|-------------------------|-------------------|-------------------------|-------------------|
| Kanalansl. LKP/LCP |                   | 30                      |                   | 35                      |                   |
| $\varnothing d_1$  | $\varnothing d_2$ | l/s                     | m <sup>3</sup> /h | l/s                     | m <sup>3</sup> /h |
| 100                | 125               | 37                      | 133               | 44                      | 158               |
| 100                | 160               | 39                      | 140               | 48                      | 173               |
| 125                | 125               | 48                      | 173               | 56                      | 202               |
| 125                | 160               | 56                      | 202               | 66                      | 238               |
| 125                | 200               | 61                      | 220               | 73                      | 263               |
| 160                | 160               | 67                      | 241               | 85                      | 306               |
| 160                | 200               | 79                      | 284               | 99                      | 356               |
| 160                | 250               | 95                      | 342               | 113                     | 407               |
| 200                | 200               | 92                      | 331               | 117                     | 421               |
| 200                | 250               | 105                     | 378               | 122                     | 439               |
| 200                | 315               | 118                     | 425               | 145                     | 522               |
| 250                | 250               | 112                     | 403               | 132                     | 475               |
| 250                | 315               | 131                     | 472               | 168                     | 605               |
| 315                | 315               | 144                     | 518               | 169                     | 608               |

### Kastlängd $l_{0,2}$

Kastlängd  $l_{0,2}$  (m) avläses i diagrammet, med isoterm luft, vid en sluthastighet på 0,2 m/s.



### Egendämning

Donens egendämning  $\Delta L$  från kanal till rum, inklusive ändreflektion, anges i nedanstående tabell.

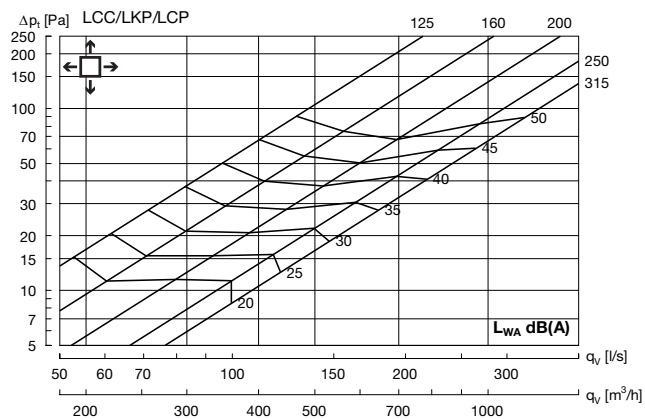
| LCC/LCP/LKP + MBB  |                   | Mittfrekvens Hz |     |     |     |    |    |    |    |
|--------------------|-------------------|-----------------|-----|-----|-----|----|----|----|----|
| Kanalansl. LCP/LKP |                   | 63              | 125 | 250 | 500 | 1K | 2K | 4K | 8K |
| $\varnothing d_1$  | $\varnothing d_2$ |                 |     |     |     |    |    |    |    |
| 100                | 125               | 17              | 15  | 10  | 17  | 15 | 18 | 19 | 21 |
| 100                | 160               | 17              | 16  | 6   | 10  | 18 | 18 | 18 | 21 |
| 125                | 125               | 17              | 15  | 10  | 17  | 15 | 18 | 19 | 21 |
| 125                | 160               | 15              | 14  | 10  | 17  | 16 | 17 | 18 | 21 |
| 125                | 200               | 13              | 12  | 7   | 13  | 13 | 16 | 17 | 18 |
| 160                | 160               | 17              | 15  | 12  | 21  | 19 | 19 | 21 | 21 |
| 160                | 200               | 17              | 16  | 10  | 20  | 17 | 17 | 19 | 20 |
| 160                | 250               | 16              | 14  | 7   | 17  | 15 | 16 | 19 | 20 |
| 200                | 200               | 13              | 11  | 10  | 17  | 18 | 15 | 19 | 18 |
| 200                | 250               | 14              | 11  | 8   | 15  | 19 | 15 | 18 | 17 |
| 200                | 315               | 14              | 9   | 7   | 13  | 18 | 14 | 17 | 17 |
| 250                | 250               | 15              | 10  | 9   | 17  | 18 | 18 | 19 | 19 |
| 250                | 315               | 15              | 8   | 9   | 16  | 18 | 16 | 18 | 18 |
| 315                | 315               | 8               | 10  | 10  | 17  | 18 | 17 | 18 | 24 |

### Injustering

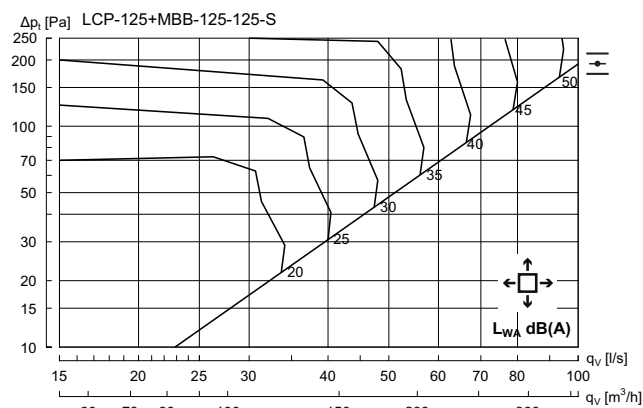
Injusteringsdata anges i separat häfte.

## Tekniska data

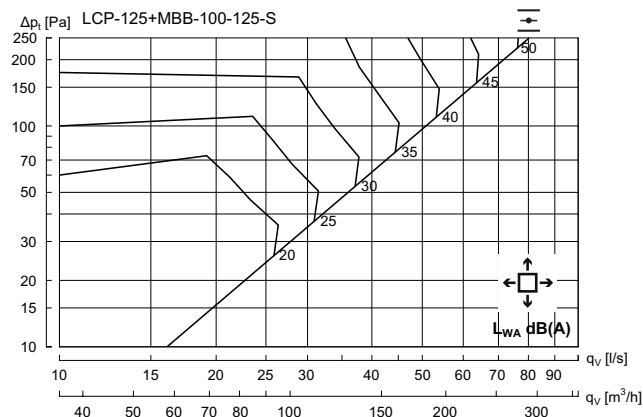
### LCC/LKP/LCP utan tryckfördelningslåda – Tilluft



### LCC/LKP/LCP 125 + MBB - Tilluft



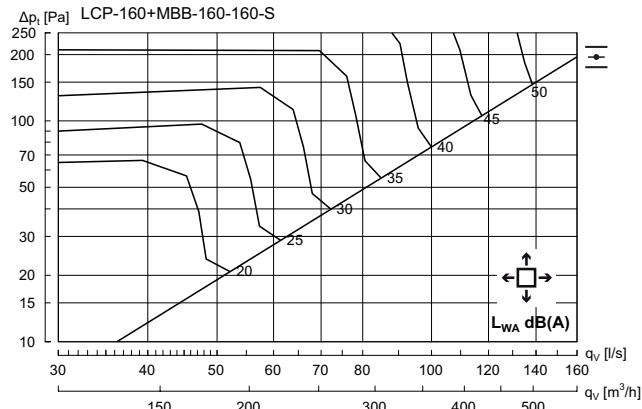
| Hz       | 63 | 125 | 250 | 500 | 1K | 2K  | 4K  | 8K  |
|----------|----|-----|-----|-----|----|-----|-----|-----|
| $K_{sk}$ | 13 | 7   | 1   | -2  | -6 | -14 | -20 | -25 |



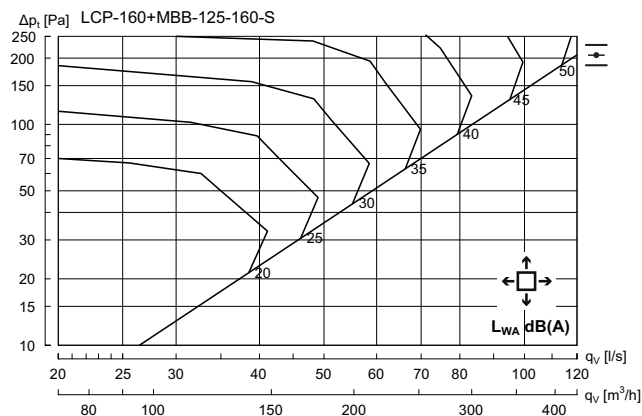
| Hz       | 63 | 125 | 250 | 500 | 1K | 2K  | 4K  | 8K  |
|----------|----|-----|-----|-----|----|-----|-----|-----|
| $K_{sk}$ | 10 | 4   | 2   | -2  | -6 | -10 | -17 | -23 |

## Tekniska data

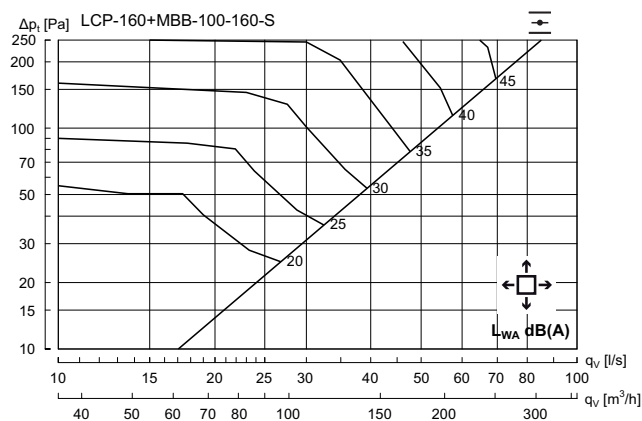
### LCC/LKP/LCP 160 + MBB - Tilluft



| Hz       | 63 | 125 | 250 | 500 | 1K | 2K  | 4K  | 8K  |
|----------|----|-----|-----|-----|----|-----|-----|-----|
| $K_{ok}$ | 13 | 8   | 0   | -3  | -6 | -10 | -19 | -25 |

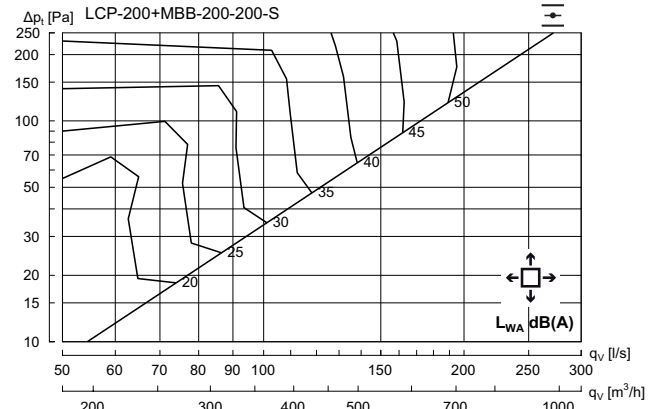


| Hz       | 63 | 125 | 250 | 500 | 1K | 2K  | 4K  | 8K  |
|----------|----|-----|-----|-----|----|-----|-----|-----|
| $K_{ok}$ | 9  | 8   | 1   | -3  | -6 | -11 | -16 | -22 |

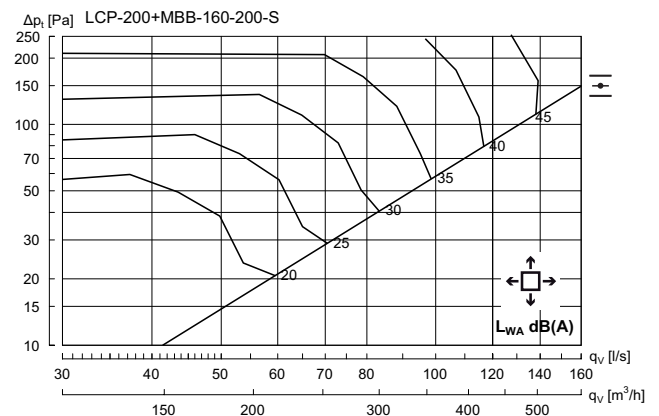


| Hz       | 63 | 125 | 250 | 500 | 1K | 2K  | 4K  | 8K  |
|----------|----|-----|-----|-----|----|-----|-----|-----|
| $K_{ok}$ | 9  | 5   | 0   | -1  | -7 | -10 | -16 | -21 |

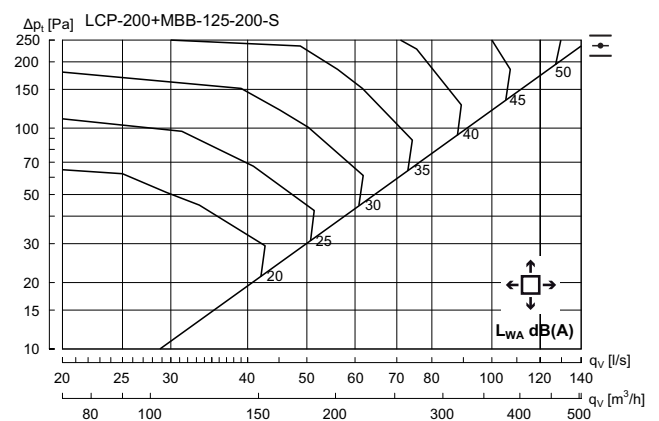
### LCC/LKP/LCP 200 + MBB - Tilluft



| Hz       | 63 | 125 | 250 | 500 | 1K | 2K  | 4K  | 8K  |
|----------|----|-----|-----|-----|----|-----|-----|-----|
| $K_{ok}$ | 12 | 8   | 0   | -3  | -5 | -14 | -21 | -24 |



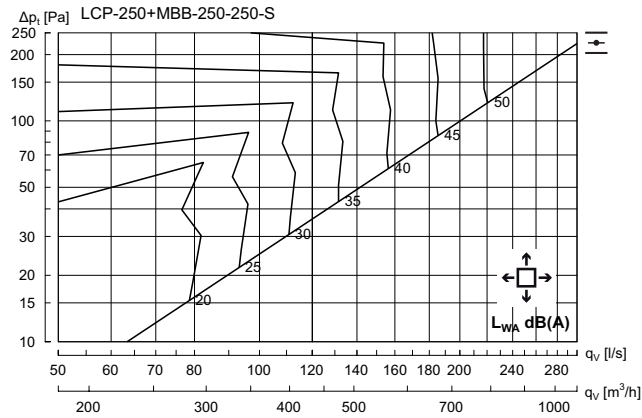
| Hz       | 63 | 125 | 250 | 500 | 1K | 2K  | 4K  | 8K  |
|----------|----|-----|-----|-----|----|-----|-----|-----|
| $K_{ok}$ | 12 | 7   | -1  | -3  | -5 | -10 | -15 | -21 |



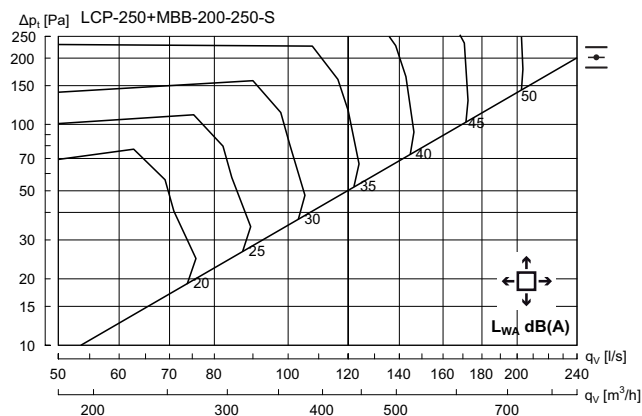
| Hz       | 63 | 125 | 250 | 500 | 1K | 2K | 4K  | 8K  |
|----------|----|-----|-----|-----|----|----|-----|-----|
| $K_{ok}$ | 6  | 6   | 0   | -3  | -5 | -9 | -16 | -21 |

## Tekniska data

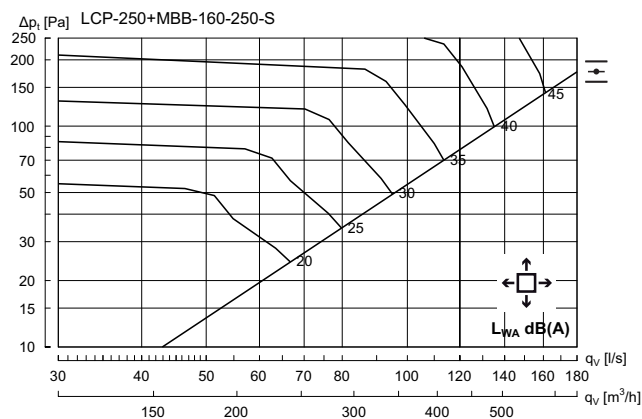
### LCC/LKP/LCP 250 + MBB - Tilluft



| Hz       | 63 | 125 | 250 | 500 | 1K | 2K  | 4K  | 8K  |
|----------|----|-----|-----|-----|----|-----|-----|-----|
| $K_{ok}$ | 15 | 6   | -1  | -1  | -5 | -15 | -23 | -29 |

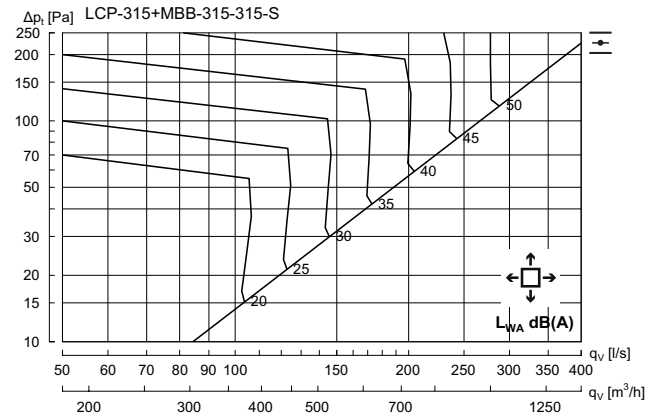


| Hz       | 63 | 125 | 250 | 500 | 1K | 2K  | 4K  | 8K  |
|----------|----|-----|-----|-----|----|-----|-----|-----|
| $K_{ok}$ | 13 | 8   | -1  | -2  | -5 | -13 | -20 | -26 |

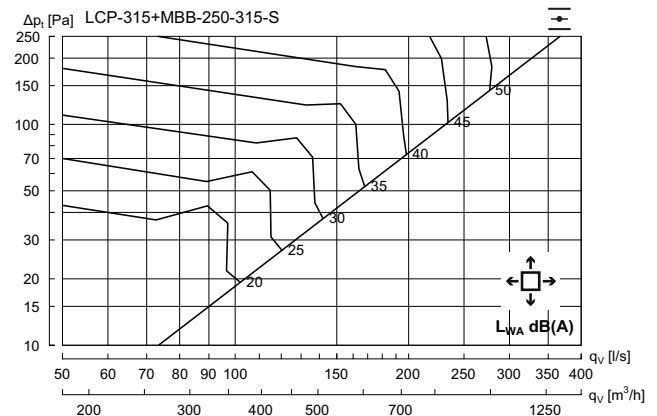


| Hz       | 63 | 125 | 250 | 500 | 1K | 2K  | 4K  | 8K  |
|----------|----|-----|-----|-----|----|-----|-----|-----|
| $K_{ok}$ | 13 | 7   | 0   | -4  | -5 | -11 | -16 | -22 |

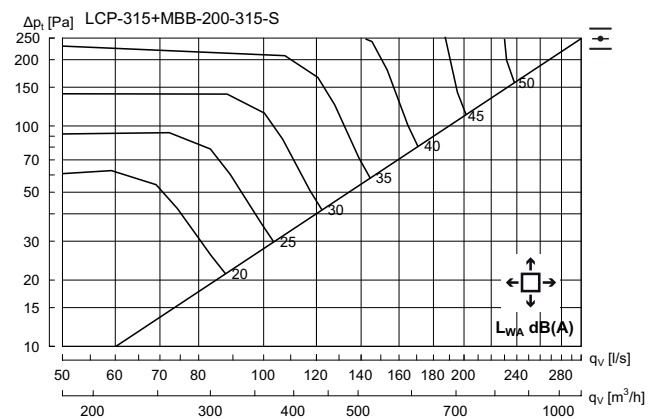
### LCC/LKP/LCP 315 + MBB - Tilluft



| Hz       | 63 | 125 | 250 | 500 | 1K | 2K  | 4K  | 8K  |
|----------|----|-----|-----|-----|----|-----|-----|-----|
| $K_{ok}$ | 12 | 4   | 0   | -2  | -4 | -14 | -19 | -27 |



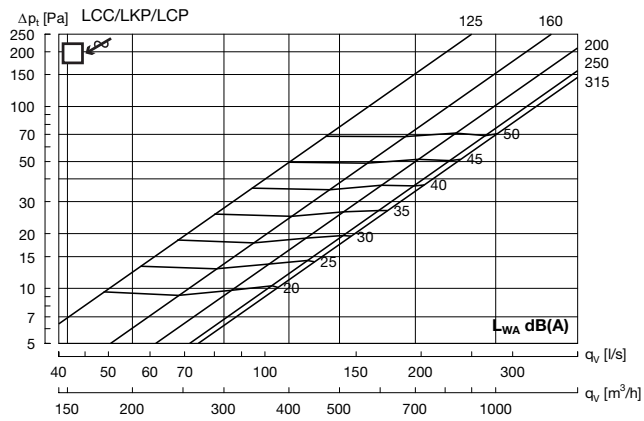
| Hz       | 63 | 125 | 250 | 500 | 1K | 2K  | 4K  | 8K  |
|----------|----|-----|-----|-----|----|-----|-----|-----|
| $K_{ok}$ | 13 | 7   | 0   | -2  | -6 | -10 | -17 | -23 |



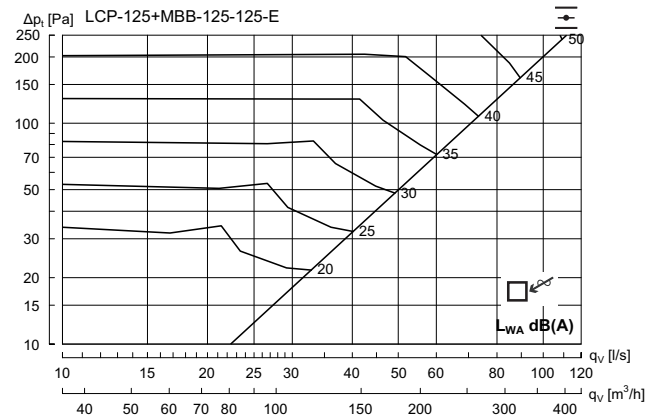
| Hz       | 63 | 125 | 250 | 500 | 1K | 2K  | 4K  | 8K  |
|----------|----|-----|-----|-----|----|-----|-----|-----|
| $K_{ok}$ | 12 | 10  | 0   | -3  | -6 | -12 | -19 | -24 |

## Tekniska data

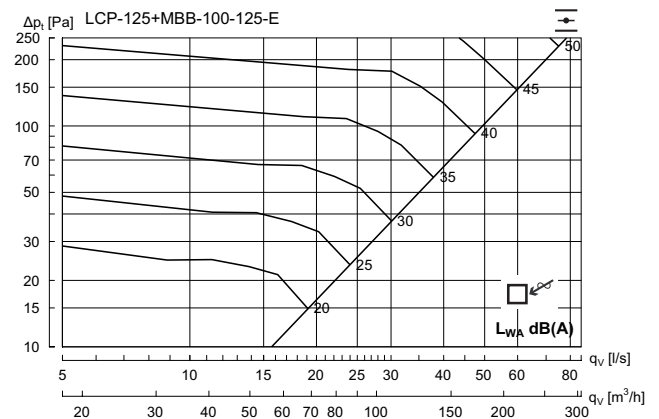
### LCC/LKP/LCP utan tryckfördelningslåda – Frånluft



### LCC/LKP/LCP 125 + MBB - Frånluft



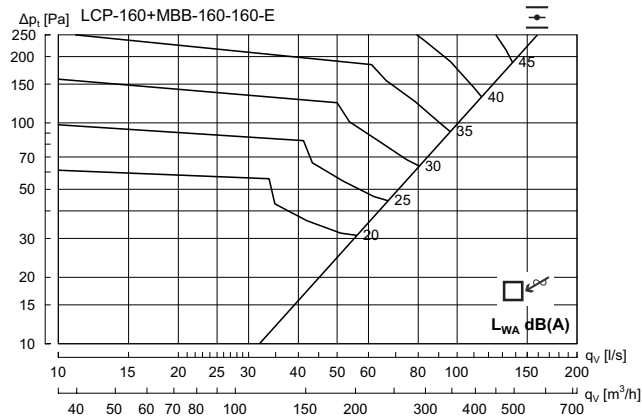
| Hz       | 63 | 125 | 250 | 500 | 1K | 2K  | 4K  | 8K  |
|----------|----|-----|-----|-----|----|-----|-----|-----|
| $K_{sk}$ | 12 | 4   | -1  | -1  | -6 | -12 | -16 | -22 |



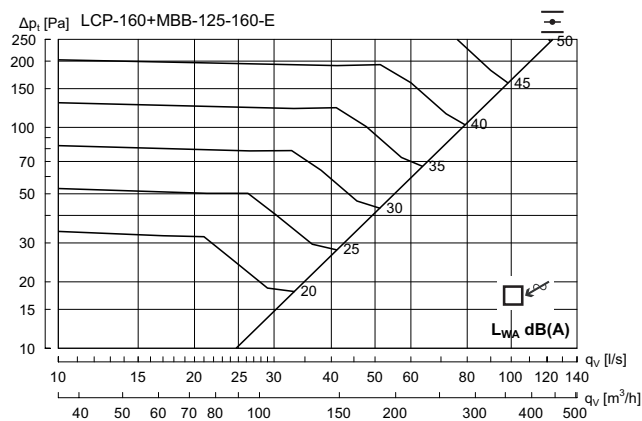
| Hz       | 63 | 125 | 250 | 500 | 1K | 2K  | 4K  | 8K  |
|----------|----|-----|-----|-----|----|-----|-----|-----|
| $K_{sk}$ | 13 | -1  | 3   | -1  | -9 | -11 | -17 | -23 |

## Tekniska data

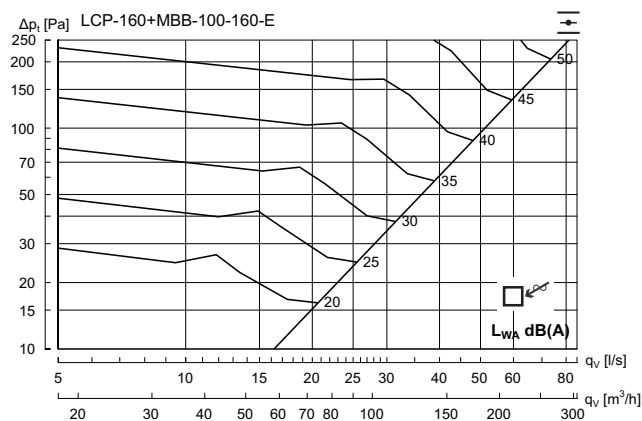
### LCC/LKP/LCP 160 + MBB - Frånluft



| Hz       | 63 | 125 | 250 | 500 | 1K | 2K  | 4K  | 8K  |
|----------|----|-----|-----|-----|----|-----|-----|-----|
| $K_{ok}$ | 16 | 4   | -1  | -2  | -5 | -10 | -16 | -21 |

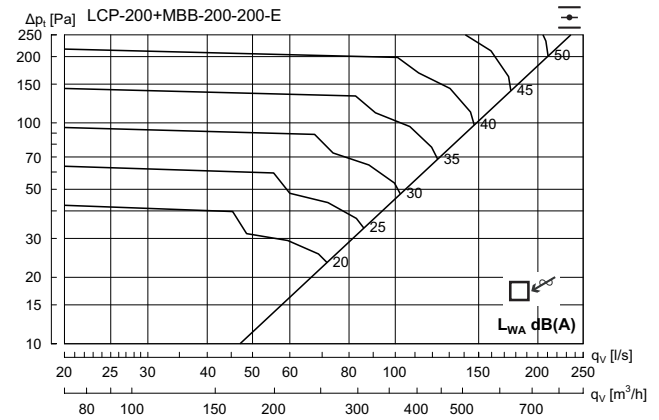


| Hz       | 63 | 125 | 250 | 500 | 1K | 2K  | 4K  | 8K  |
|----------|----|-----|-----|-----|----|-----|-----|-----|
| $K_{ok}$ | 14 | 5   | 0   | -1  | -6 | -11 | -15 | -21 |

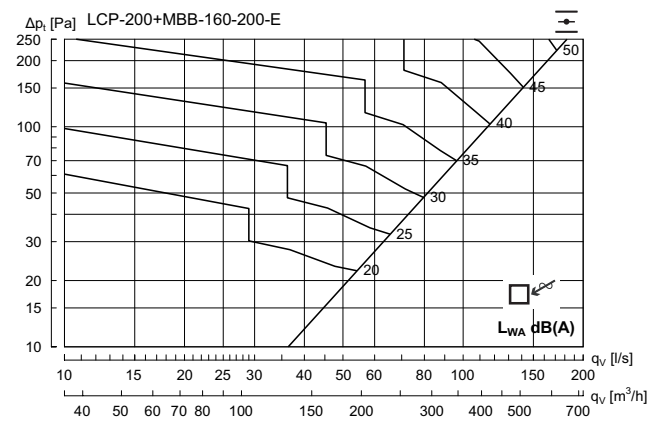


| Hz       | 63 | 125 | 250 | 500 | 1K | 2K  | 4K  | 8K  |
|----------|----|-----|-----|-----|----|-----|-----|-----|
| $K_{ok}$ | 11 | 3   | 2   | 0   | -8 | -13 | -17 | -23 |

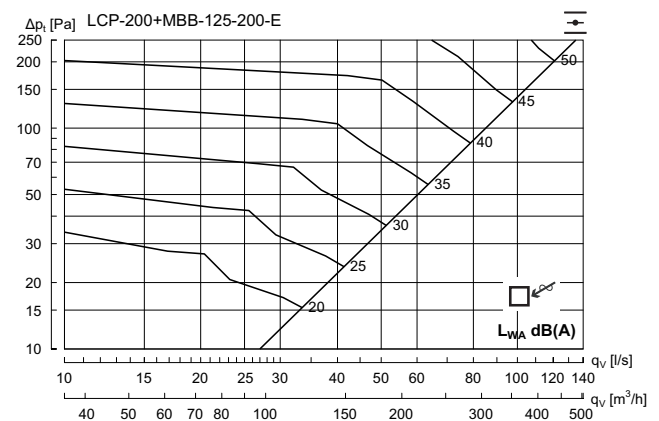
### LCC/LKP/LCP 200 + MBB - Frånluft



| Hz       | 63 | 125 | 250 | 500 | 1K | 2K  | 4K  | 8K  |
|----------|----|-----|-----|-----|----|-----|-----|-----|
| $K_{ok}$ | 15 | 5   | 0   | -2  | -6 | -10 | -15 | -23 |



| Hz       | 63 | 125 | 250 | 500 | 1K | 2K  | 4K  | 8K  |
|----------|----|-----|-----|-----|----|-----|-----|-----|
| $K_{ok}$ | 16 | 5   | -1  | -3  | -5 | -10 | -15 | -21 |

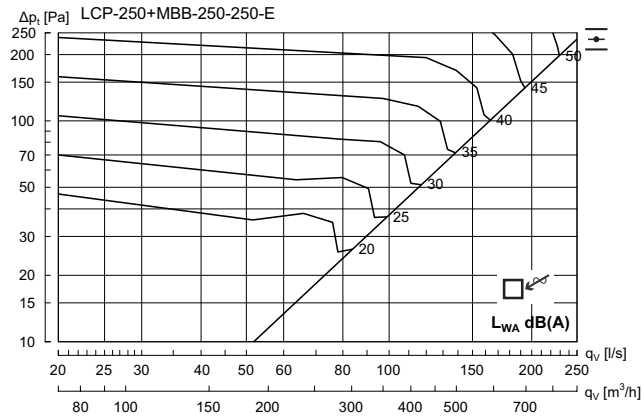


| Hz       | 63 | 125 | 250 | 500 | 1K | 2K  | 4K  | 8K  |
|----------|----|-----|-----|-----|----|-----|-----|-----|
| $K_{ok}$ | 11 | 3   | -1  | -2  | -5 | -10 | -16 | -22 |

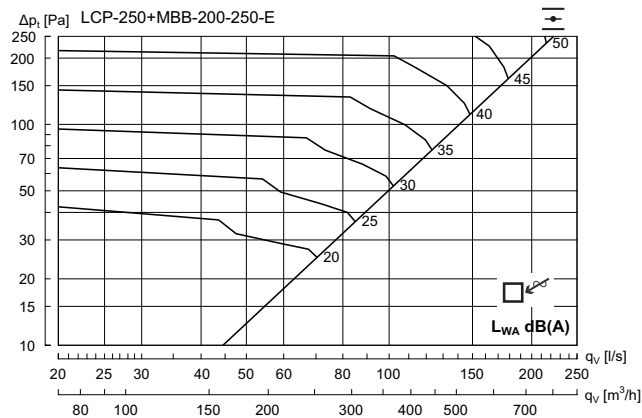


## Tekniska data

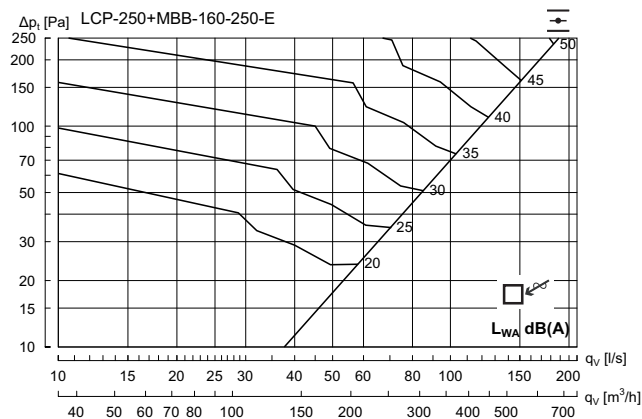
### LCC/LKP/LCP 250 + MBB - Frånluft



| Hz       | 63 | 125 | 250 | 500 | 1K | 2K  | 4K  | 8K  |
|----------|----|-----|-----|-----|----|-----|-----|-----|
| $K_{ok}$ | 11 | 4   | 1   | -2  | -5 | -11 | -17 | -25 |

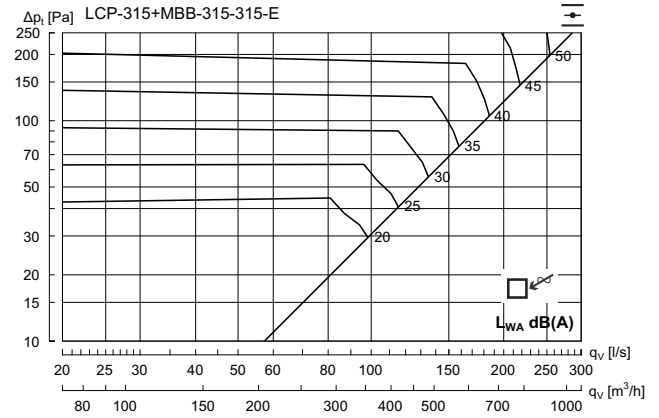


| Hz       | 63 | 125 | 250 | 500 | 1K | 2K  | 4K  | 8K  |
|----------|----|-----|-----|-----|----|-----|-----|-----|
| $K_{ok}$ | 14 | 4   | 0   | -2  | -6 | -11 | -16 | -25 |

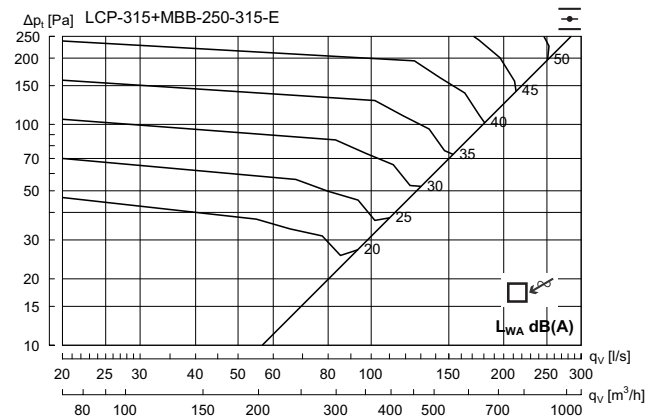


| Hz       | 63 | 125 | 250 | 500 | 1K | 2K  | 4K  | 8K  |
|----------|----|-----|-----|-----|----|-----|-----|-----|
| $K_{ok}$ | 19 | 6   | -1  | -4  | -5 | -12 | -18 | -26 |

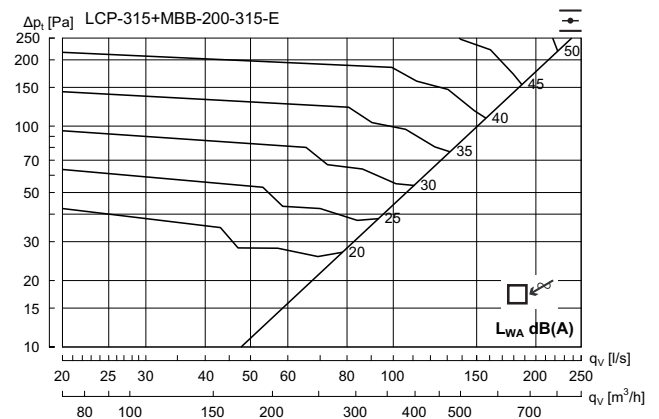
### LCC/LKP/LCP 315 + MBB - Frånluft



| Hz       | 63 | 125 | 250 | 500 | 1K | 2K | 4K  | 8K  |
|----------|----|-----|-----|-----|----|----|-----|-----|
| $K_{ok}$ | 12 | 4   | 2   | -3  | -6 | -9 | -18 | -27 |



| Hz       | 63 | 125 | 250 | 500 | 1K | 2K  | 4K  | 8K  |
|----------|----|-----|-----|-----|----|-----|-----|-----|
| $K_{ok}$ | 12 | 5   | 2   | -3  | -6 | -10 | -17 | -24 |



| Hz       | 63 | 125 | 250 | 500 | 1K | 2K  | 4K  | 8K  |
|----------|----|-----|-----|-----|----|-----|-----|-----|
| $K_{ok}$ | 14 | 5   | 0   | -3  | -5 | -10 | -16 | -25 |