



**Characteristics**

Variable geometry diffusers.

**Material**

Casing in aluminium, blades in steel with simultaneously movable.

**Finish**

White epoxy powder paint RAL 9010.

**Fixing**

Fixing by screws located on the diffuser's neck.

**Models**

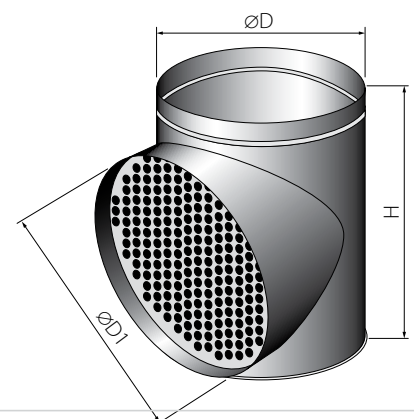
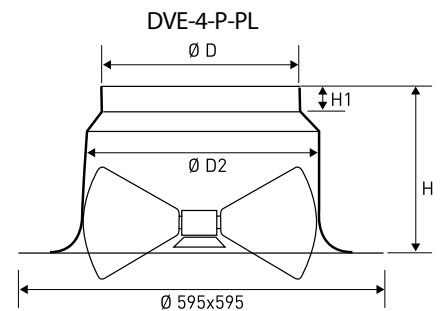
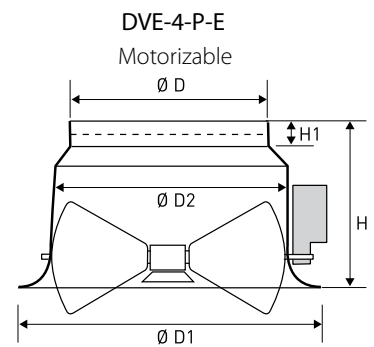
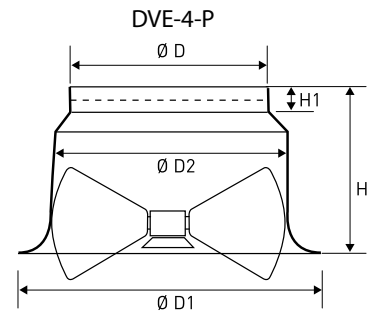
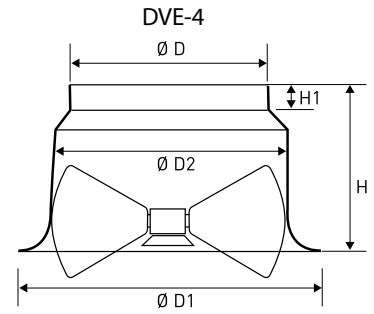
DVE-4: diffuser with manually and simultaneously movable blades.

DVE-4-P: diffuser with manually and simultaneously movable blades, with equalizer.

DVE-4-P-E: diffuser with simultaneously movable blades by motor drive, with equalizer.

DVE-4-P-PL: diffuser with manually and simultaneously movable blades, with equalizer, made on 595x595 panel.

DVE-4-T: diffuser with thermostatic actuator.



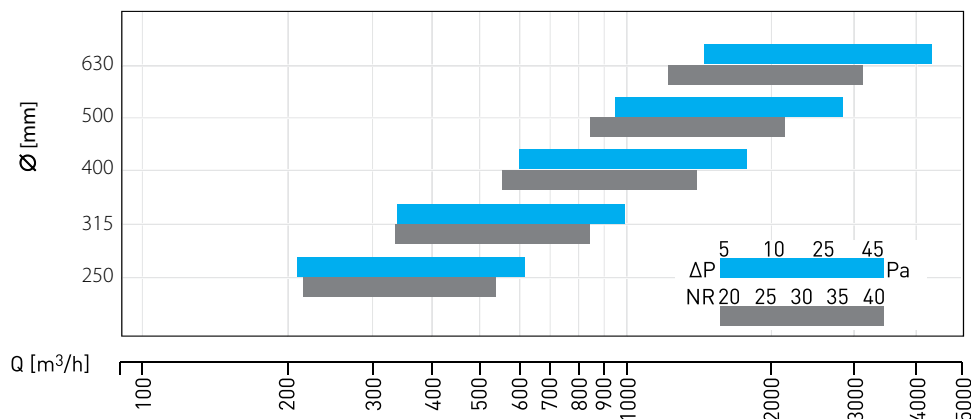
## Dimensions $\varnothing$ mm

$\varnothing = 250 \ 315 \ 400 \ 500 \ 630$

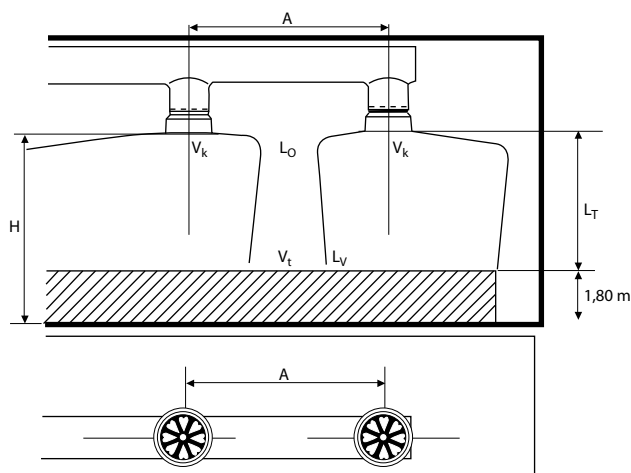
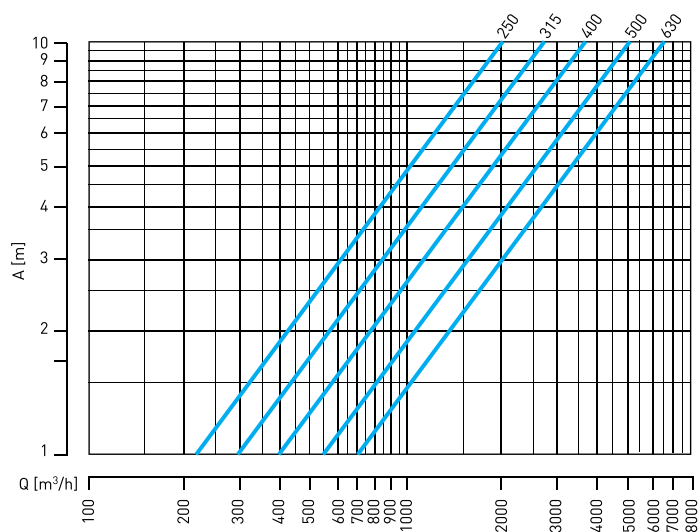
$\varnothing$	DVE-3				
	$\varnothing D$	$\varnothing D1$	$\varnothing D2$	H	H1
250	248	400	315	200	40
315	313	475	375	235	40
400	398	600	460	260	50
500	498	785	570	315	60
630	628	920	700	320	80

SYMBOL	DESCRIPTION
Q	Air flow (m <sup>3</sup> /s or m <sup>3</sup> /h)
NR	Sound level
DP	Pressure drop (Pa)
V <sub>k</sub>	Air delivery velocity (m/s)
A	Distance between diffusers (m)
H	Height (m)
H <sub>o</sub>	Height - Occupation zone (1,80 m)
V <sub>t</sub>	Air delivery velocity (m/s)
L <sub>o</sub>	Throw horizontal (m)
L <sub>v</sub>	Throw vertical (m)
L <sub>t</sub>	L <sub>v</sub> (Throw) on V <sub>t</sub> = 0,20 m/s
$\Delta t$	Difference between the supply air temp. and room air temp.
$\alpha$	Blades - tilt

## Quick selection diagram

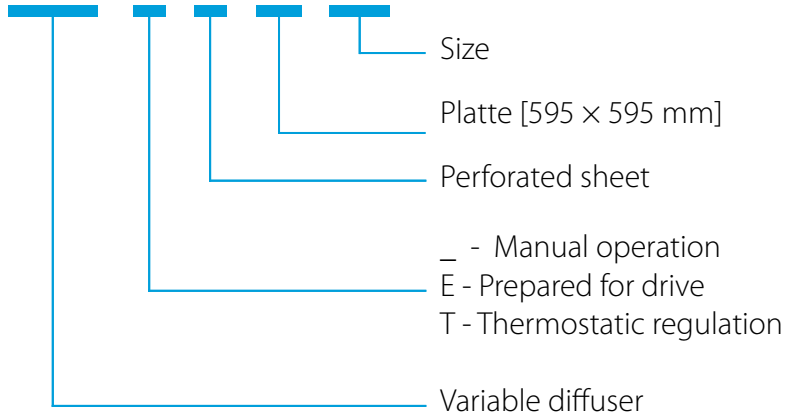


## Distance between diffusers



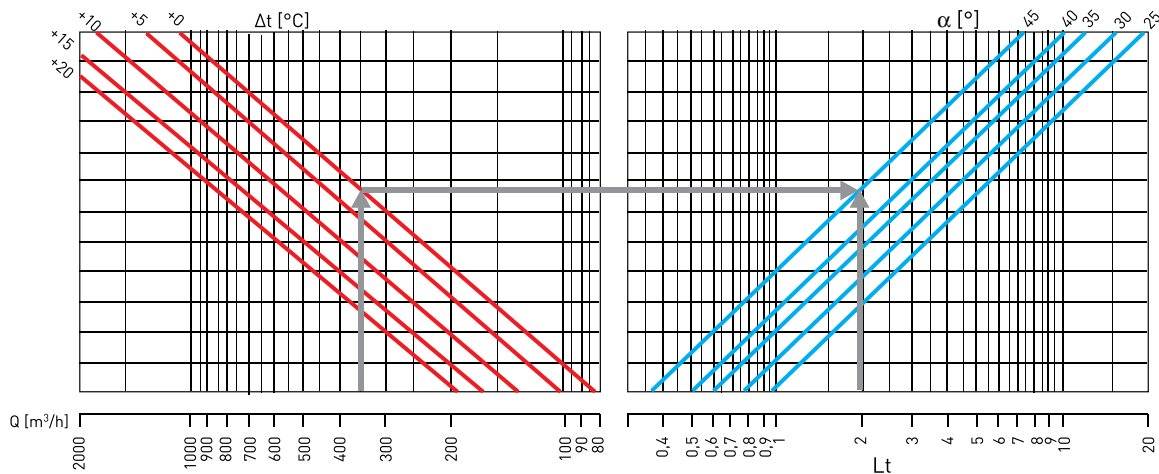
## Ordering key

**DVE-4 - E - P - PL / 315**

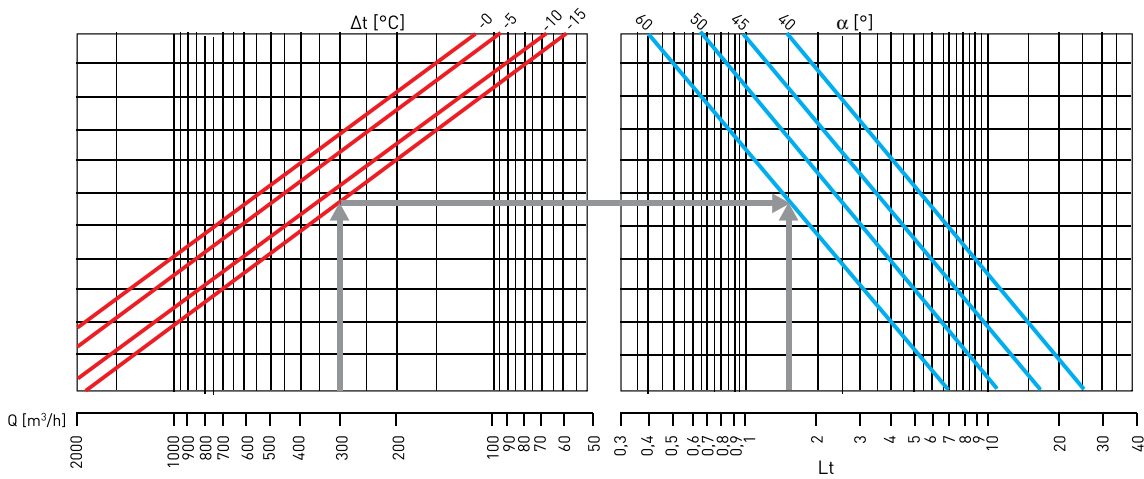


## Ordering key

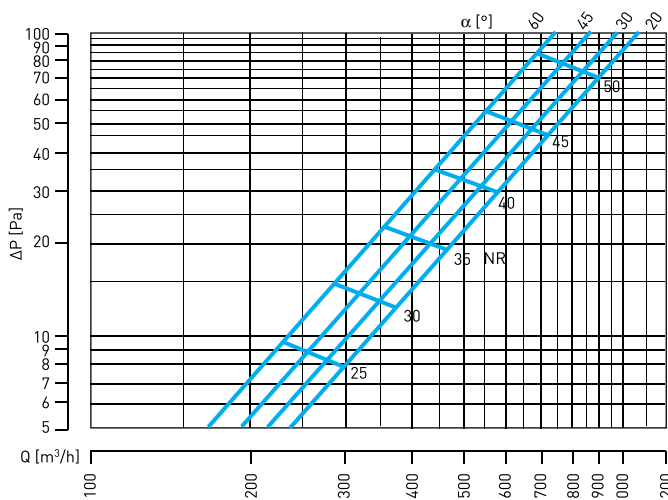
## Throw – heating – DVE-4 Ø 250



## Throw – heating – DVE-4 Ø 250

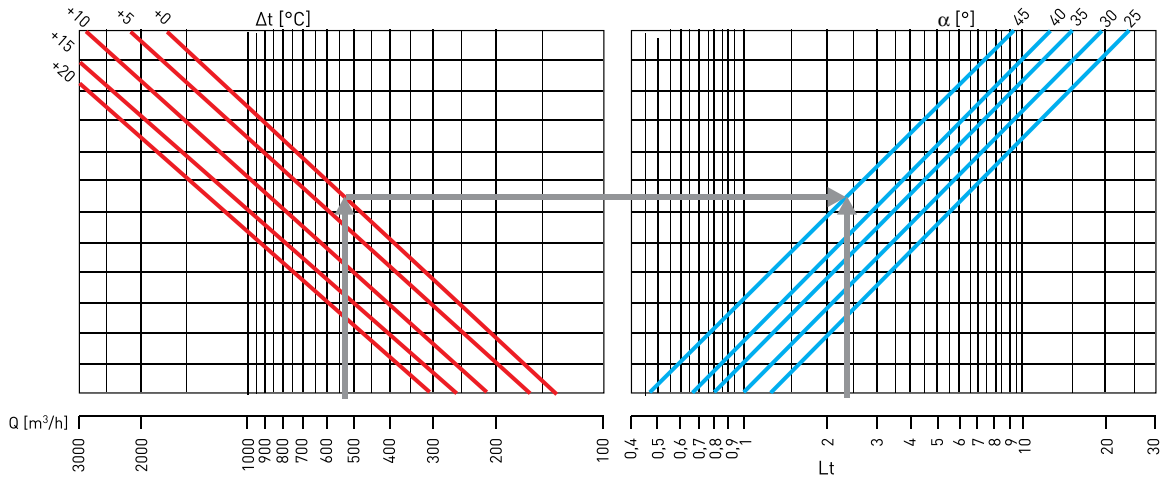


## Pressure drop and noise level – DVE-4 Ø 250

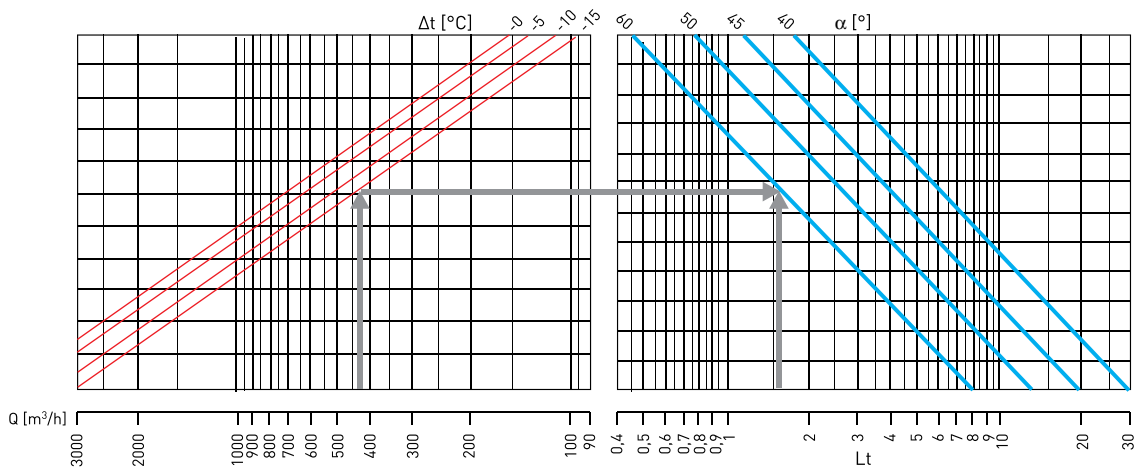


SYMBOL	DESCRIPTION
$Q$	Air flow (m³/s or m³/h)
$NR$	Sound level
$DP$	Pressure drop (Pa)
$V_k$	Air delivery velocity (m/s)
$A$	Distance between diffusers (m)
$H$	Height (m)
$H_o$	Height – Occupation zone (1,80 m)
$V_t$	Air delivery velocity (m/s)
$L_o$	Throw horizontal (m)
$L_v$	Throw vertical (m)
$L_t$	$L_v$ (Throw) on $V_t = 0,20$ m/s
$\Delta t$	Difference between the supply air temp. and room air temp.
$\alpha$	Blades - tilt

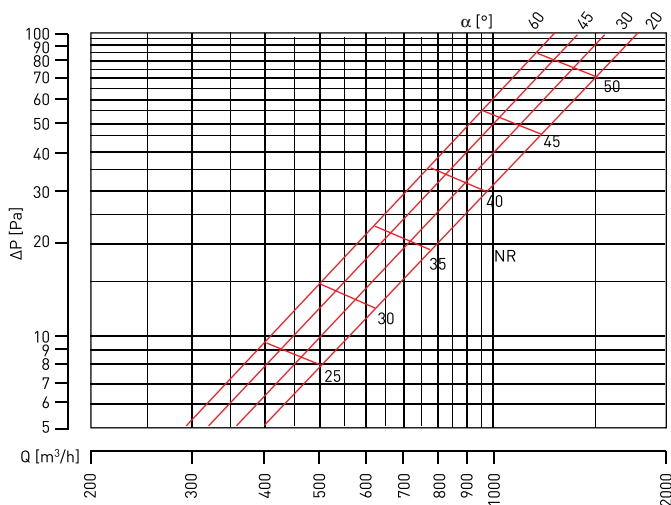
### Throw – cooling – DVE-4 Ø 315



### Throw – cooling – DVE-4 Ø 315

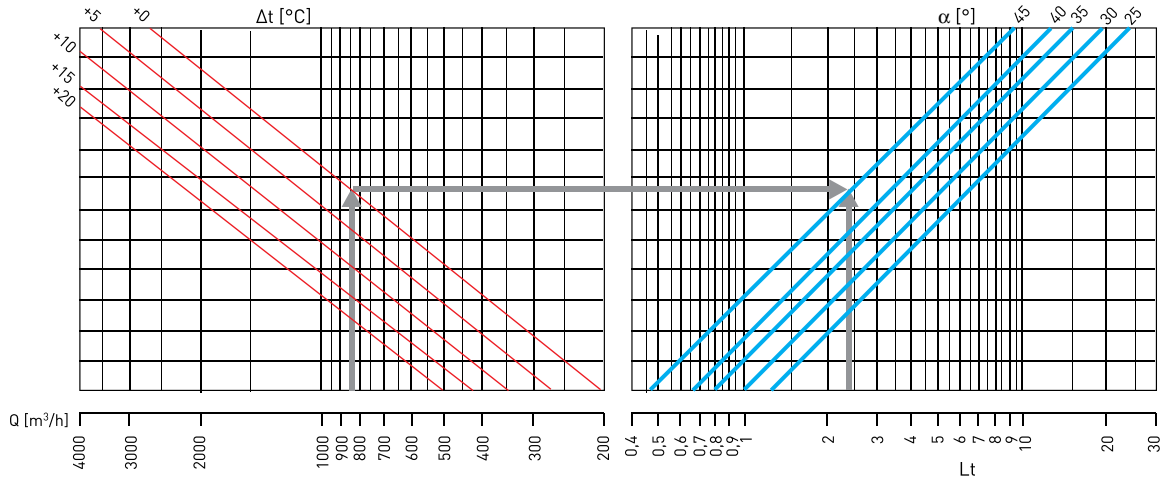


### Pressure drop and noise level – DVE-4 Ø 315

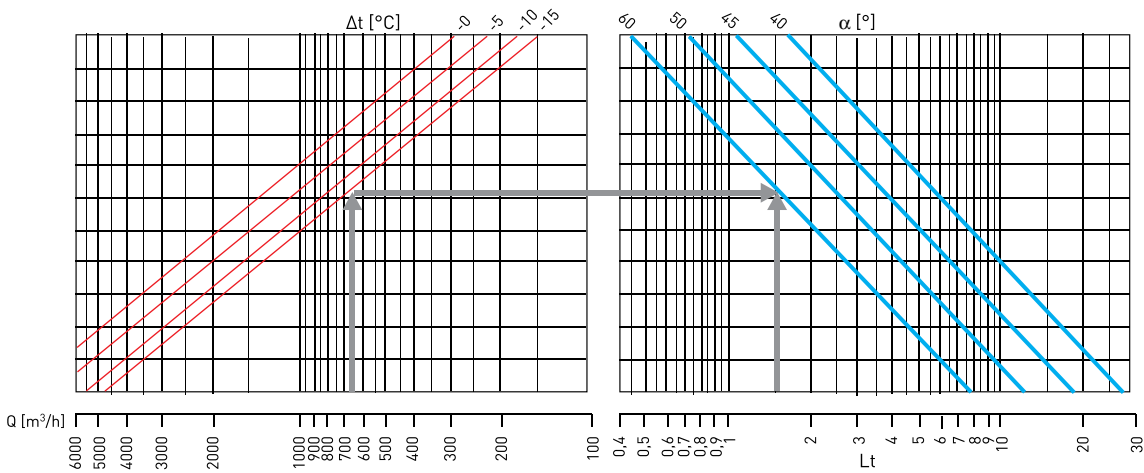


SYMBOL	DESCRIPTION
<b>Q</b>	Air flow (m <sup>3</sup> /s or m <sup>3</sup> /h)
<b>NR</b>	Sound level
<b>DP</b>	Pressure drop (Pa)
<b>Vk</b>	Air delivery velocity (m/s)
<b>A</b>	Distance between diffusers (m)
<b>H</b>	Height (m)
<b>H<sub>o</sub></b>	Height – Occupation zone (1,80 m)
<b>V<sub>t</sub></b>	Air delivery velocity (m/s)
<b>L<sub>o</sub></b>	Throw horizontal (m)
<b>L<sub>v</sub></b>	Throw vertical (m)
<b>L<sub>t</sub></b>	L <sub>v</sub> (Throw) on V <sub>t</sub> = 0,20 m/s
<b>Δt</b>	Difference between the supply air temp. and room air temp.
<b>α</b>	Blades - tilt

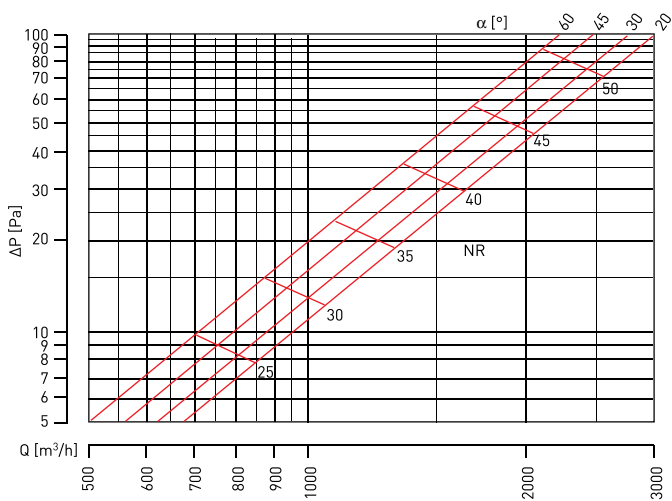
## Throw – heating – DVE-4 Ø 400



## Throw – cooling – DVE-4 Ø 400

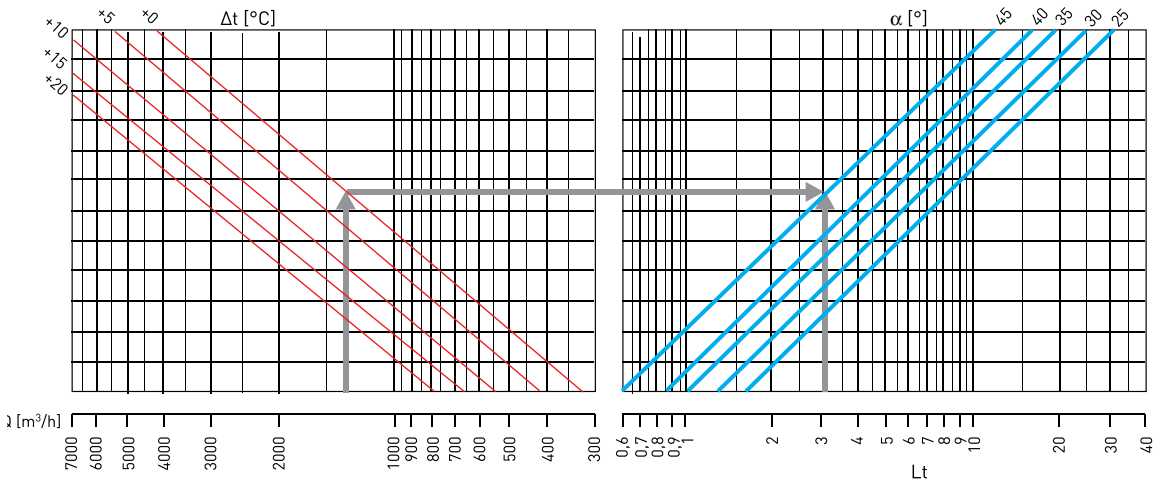


## Pressure drop and noise level – DVE-4 Ø 400

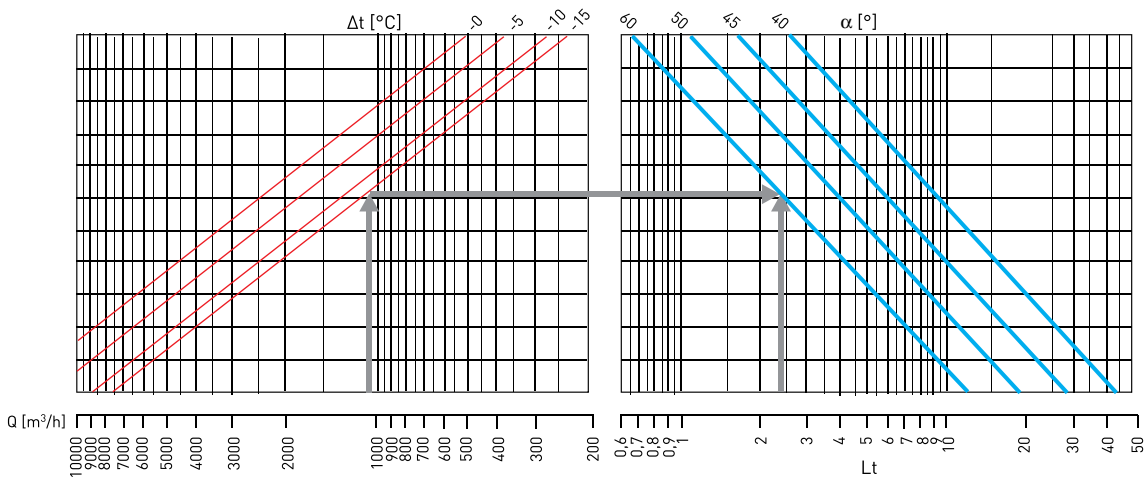


SYMBOL	DESCRIPTION
<b>Q</b>	Air flow (m <sup>3</sup> /s or m <sup>3</sup> /h)
<b>NR</b>	Sound level
<b>DP</b>	Pressure drop (Pa)
<b>Vk</b>	Air delivery velocity (m/s)
<b>A</b>	Distance between diffusers (m)
<b>H</b>	Height (m)
<b>H<sub>o</sub></b>	Height – Occupation zone (1,80 m)
<b>V<sub>t</sub></b>	Air delivery velocity (m/s)
<b>L<sub>o</sub></b>	Throw horizontal (m)
<b>L<sub>v</sub></b>	Throw vertical (m)
<b>L<sub>t</sub></b>	L <sub>v</sub> (Throw) on V <sub>t</sub> = 0,20 m/s
<b>Δt</b>	Difference between the supply air temp. and room air temp.
<b>α</b>	Blades - tilt

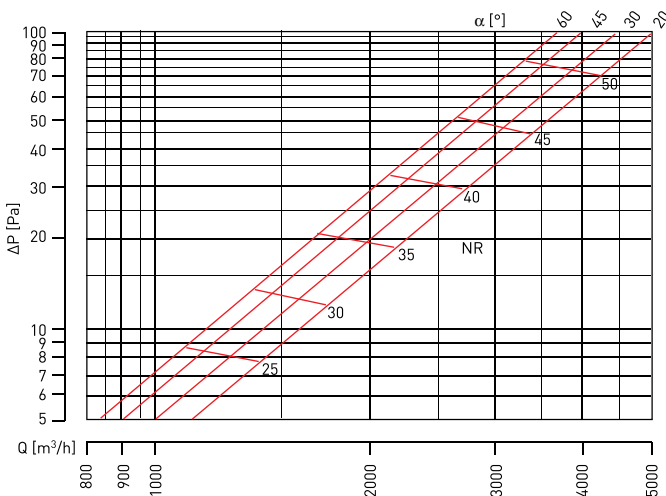
### Throw – heating – DVE-4 Ø 500



### Throw – cooling – DVE-4 Ø 500

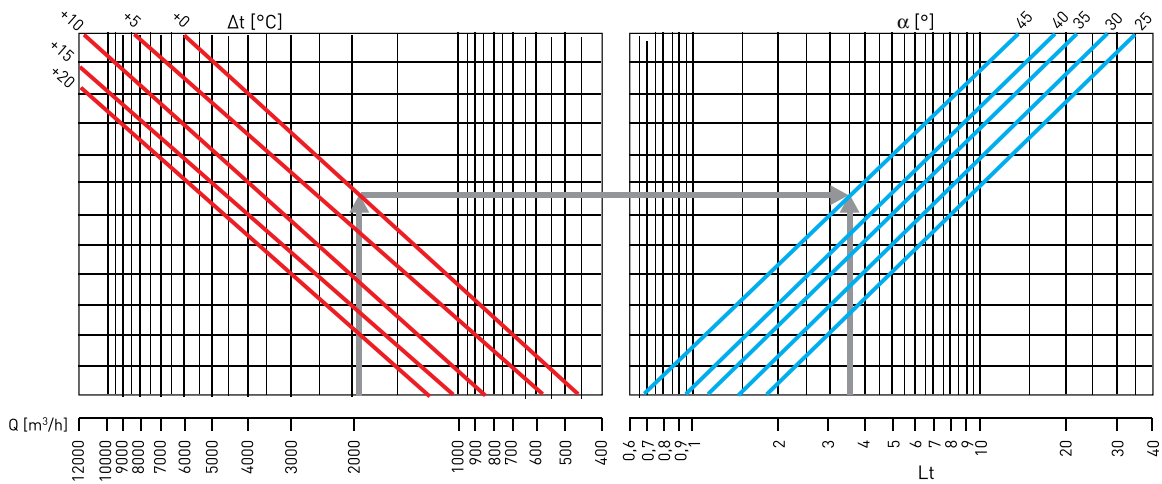


### Pressure drop and noise level – DVE-4 Ø 500

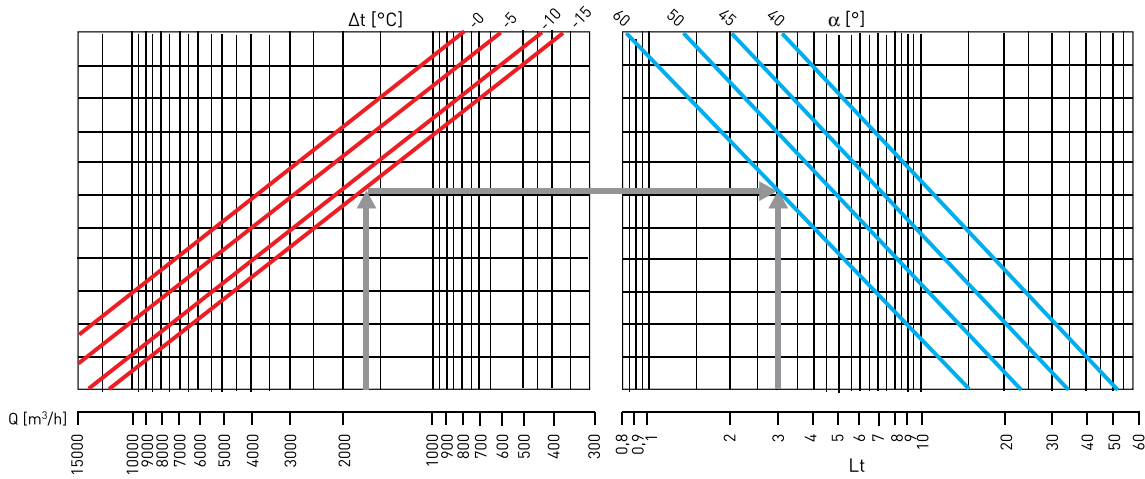


SYMBOL	DESCRIPTION
<b>Q</b>	Air flow (m <sup>3</sup> /s or m <sup>3</sup> /h)
<b>NR</b>	Sound level
<b>DP</b>	Pressure drop (Pa)
<b>Vk</b>	Air delivery velocity (m/s)
<b>A</b>	Distance between diffusers (m)
<b>H</b>	Height (m)
<b>H<sub>o</sub></b>	Height – Occupation zone (1,80 m)
<b>V<sub>t</sub></b>	Air delivery velocity (m/s)
<b>L<sub>o</sub></b>	Throw horizontal (m)
<b>L<sub>v</sub></b>	Throw vertical (m)
<b>L<sub>t</sub></b>	L <sub>v</sub> (Throw) on V <sub>t</sub> = 0,20 m/s
<b>Δt</b>	Difference between the supply air temp. and room air temp.
<b>α</b>	Blades - tilt

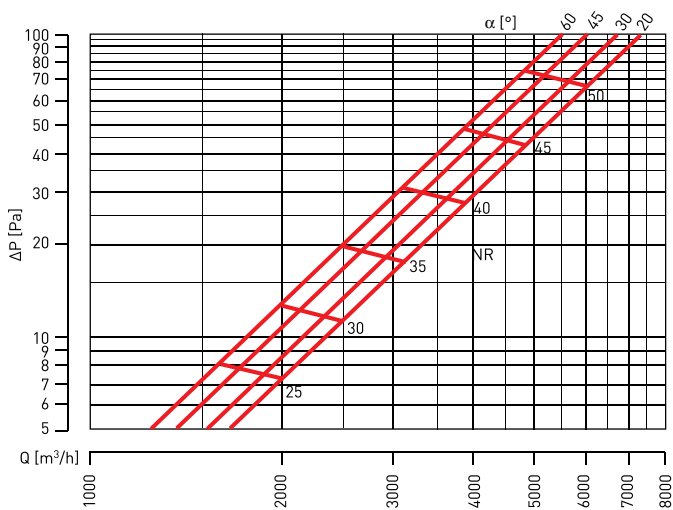
## Throw – heating – DVE-4 Ø 630



## Throw – cooling – DVE-4 Ø 630

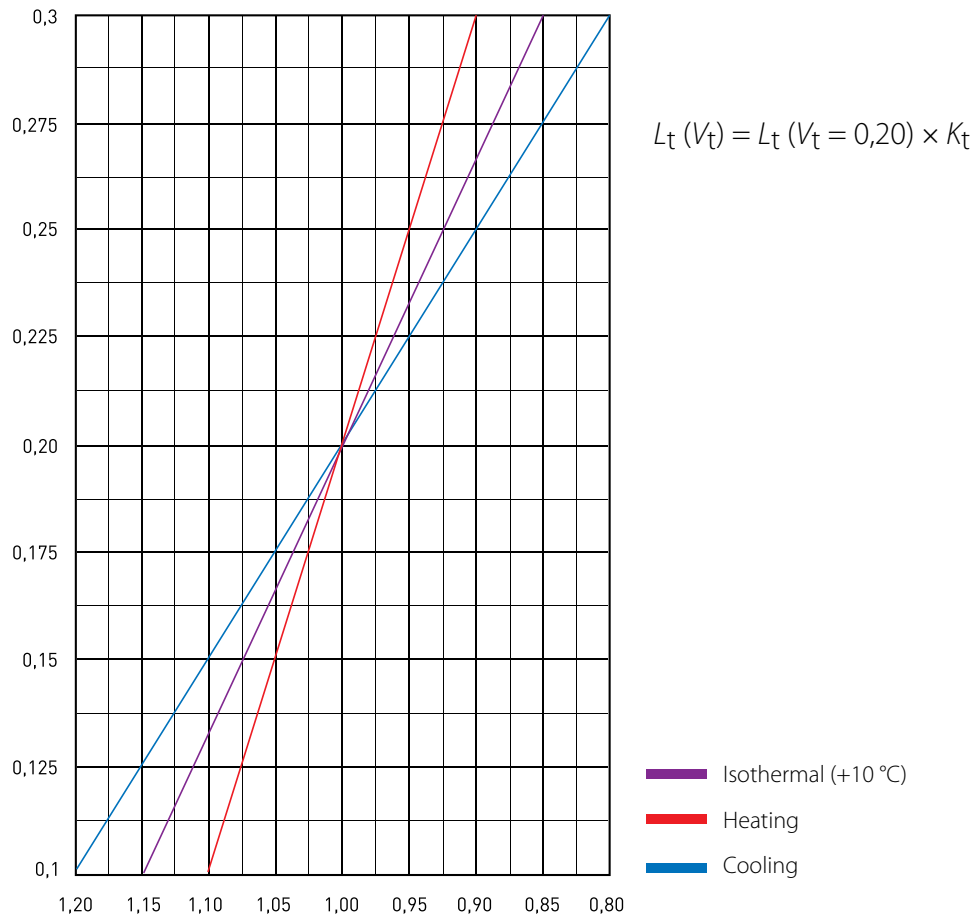


## Pressure drop and noise level – DVE-4 Ø 630



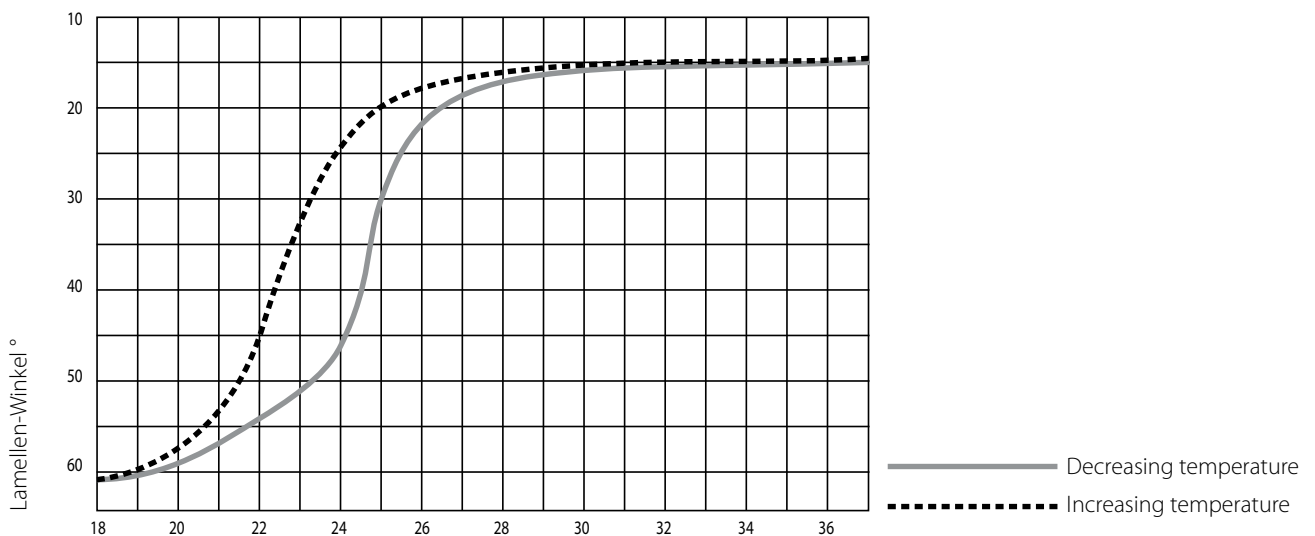
SYMBOL	DESCRIPTION
<b>Q</b>	Air flow (m <sup>3</sup> /s or m <sup>3</sup> /h)
<b>NR</b>	Sound level
<b>DP</b>	Pressure drop (Pa)
<b>V<sub>k</sub></b>	Air delivery velocity (m/s)
<b>A</b>	Distance between diffusers (m)
<b>H</b>	Height (m)
<b>H<sub>o</sub></b>	Height – Occupation zone (1,80 m)
<b>V<sub>t</sub></b>	Air delivery velocity (m/s)
<b>L<sub>o</sub></b>	Throw horizontal (m)
<b>L<sub>v</sub></b>	Throw vertical (m)
<b>L<sub>t</sub></b>	L <sub>v</sub> (Throw) on V <sub>t</sub> = 0,20 m/s
<b>Δt</b>	Difference between the supply air temp. and room air temp.
<b>α</b>	Blades - tilt

## Correction KT for LT



## Thermostatic regulation

Diagram below shows how the angle of blades depends on temperature.



Thermal actuator feels temperature and adjusts angle of the blades automatically. Temperature range is from 18 °C to 36 °C. Additional source of energy and electric installation is unnecessary.