

# DISPLATEK DS150/200

A floor mounted displacement unit suitable for mounting in offices, auditoriums, lecture theatres and other areas where displacement ventilation is desirable. The unit, due to its unique design, can be mounted either in the floor, or in a step for a side wall application at low level. Inherent features of the dust collector, trim ring and the core all being securely held together means that it is suitable for side wall mounting. The unit comes pre-set as a displacement unit, but by reversing the core, can be used as a floor outlet with a cone shape discharge for upward mixing of air as opposed to displacement. The dust collector has a sliding damper which is positively located and allows easy trimming, again from roomside.

### Finish:

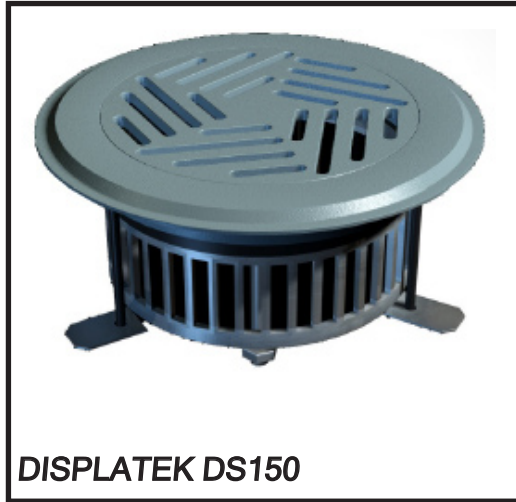
The unit is available in a range of standard colours and it is possible to have different coloured trim rings to core. The standard is anodised silver but other colours are also available on request.

### Accessories:

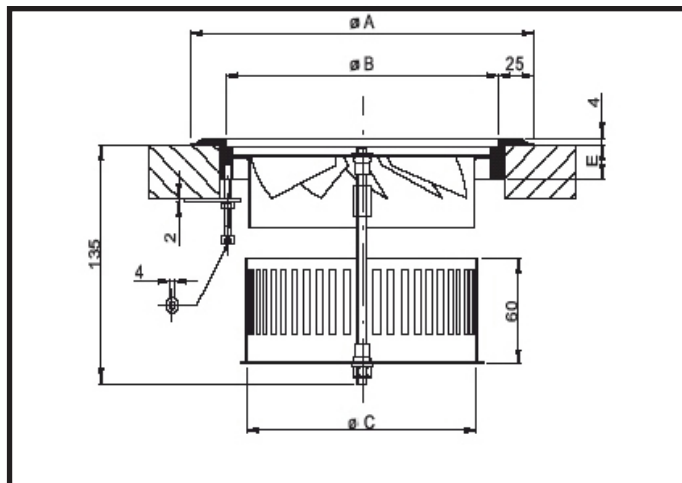
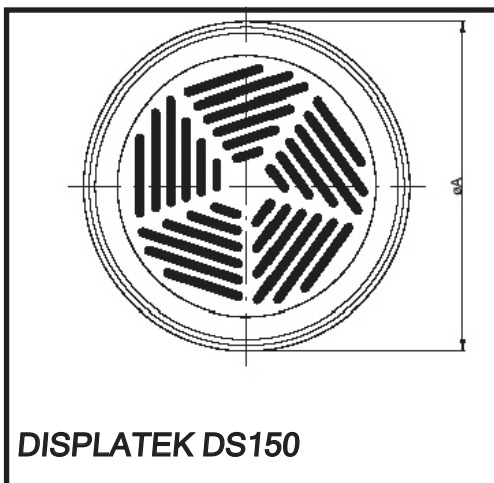
If the area under the floor is not sealed, TEK can provide a plenum box for a ducted layout.

### Sizes:

See below.



Size	A	B	C	E
150	190	140	124	14
200	240	190	160	19



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## Technical Specifications

Horizontal  
When the level blows

Air volume (m <sup>3</sup> /h)															
		20	25	30	40	50	60	70	80	90	100	120	150	200	
Specs	Diffusion Radius (M)														
	Wind speed of end (m/s)														
150	0.37	0.4	0.5	0.58	0.78	0.95	1.2	1.38	1.46	1.7	1.75	1.98	2.2	2.6	
	0.50	0.3	0.37	0.45	0.57	0.75	0.9	1.05	1.15	1.3	1.33	1.46	1.66	1.9	
	0.75	0.2	0.25	0.30	0.37	0.48	0.6	0.67	0.75	0.85	0.90	0.95	1.15	1.3	
200	0.37		0.35	0.42	0.55	0.72	0.88	0.94	1.15	1.2	1.25	1.6	2	2.6	
	0.50		0.25	0.33	0.4	0.54	0.64	0.7	0.8	0.9	0.98	1.2	1.5	1.9	
	0.75		0.15	0.23	0.27	0.37	0.43	0.48	0.56	0.6	0.65	0.8	1	1.3	

Blow difference in temperature to diffusion radius revised coefficient

Δ t	0°	-4°	-6°	-8°	-10°
	*1	*0.7	*0.6	*0.5	*0.45

Vertical while blowing Upwards

Air volume (m <sup>3</sup> /h)															
		20	25	30	40	50	60	70	80	90	100	120	150	200	
Specs	Diffusion Radius (M)														
	Wind speed of end (m/s)														
150	0.37	0.45	0.63	0.15	0.95	1.21	1.43	1.7	1.9	2.2	2.3	2.52	2.7	3.2	
	0.50	0.35	0.47	0.55	0.72	0.93	1.08	1.25	1.42	1.62	1.72	1.9	2.1	2.4	
	0.75	0.25	0.32	0.37	0.48	0.63	0.73	0.85	0.95	1.85	1.18	1.3	1.38	1.6	
200	0.37			0.45	0.67	0.85	0.98	1.18	1.3	1.45	1.7	1.9	2.5	3.2	
	0.50			0.35	0.52	0.65	0.73	0.85	0.96	1.15	1.3	1.55	1.9	2.4	
	0.75			0.25	0.33	0.44	0.48	0.56	0.66	0.75	0.85	0.98	1.29	1.6	

# DISPLATEK DS150/200

## Technical Specifications

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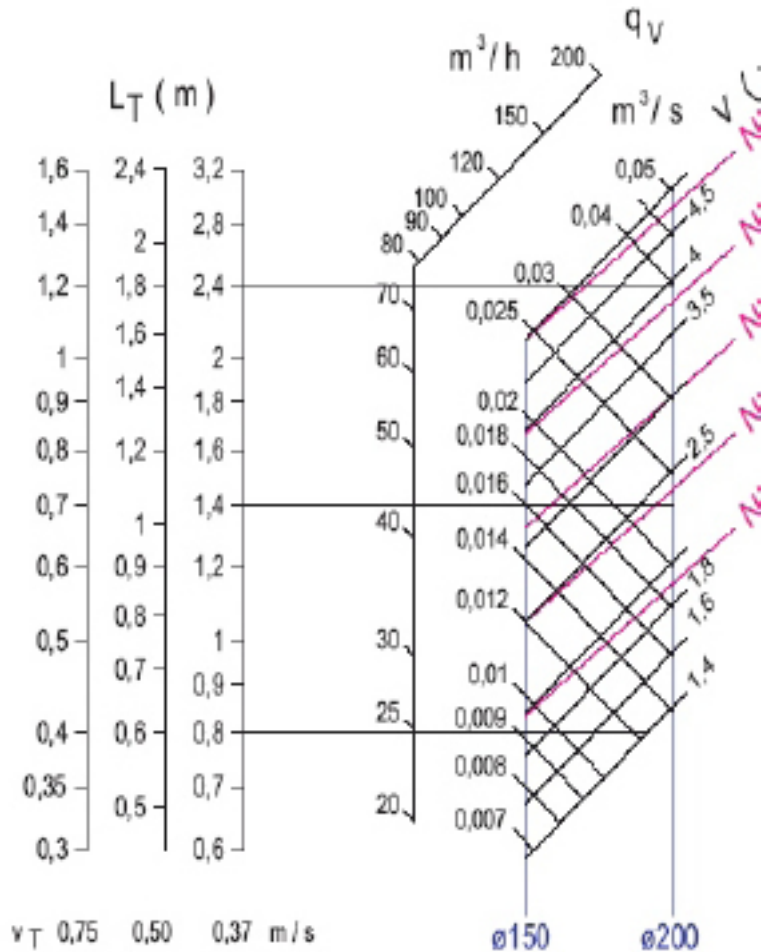
Pressure Loss (Pa)		Air volume (m <sup>3</sup> /h)										
		20	25	30	40	50	60	70	80	90	100	120
Specs	Degree in Bloom of blade											
150	100%	9	13	20	35	55	70	74	78	81	85	
	50%	11	15	25	45	70	91	108	116			
	25%	13	21	30	52	81	106	123				
200	100%			8	9	12	18	23	32	40	50	71
	50%			10	12	17	25	35	45	57	70	100
	25%				17	25	37	49	63	80	100	118

Vertical pressure losses are while blowing: The level blows  $\Delta P_t \cdot 0.9$

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## Technical Specifications

### Vertical Air Pattern



Correction Factor  $L_T$

$\Delta t$	0°	-4°	-6°	-8°	-10°
	*1	*0.7	*0.6	*0.5	*0.15

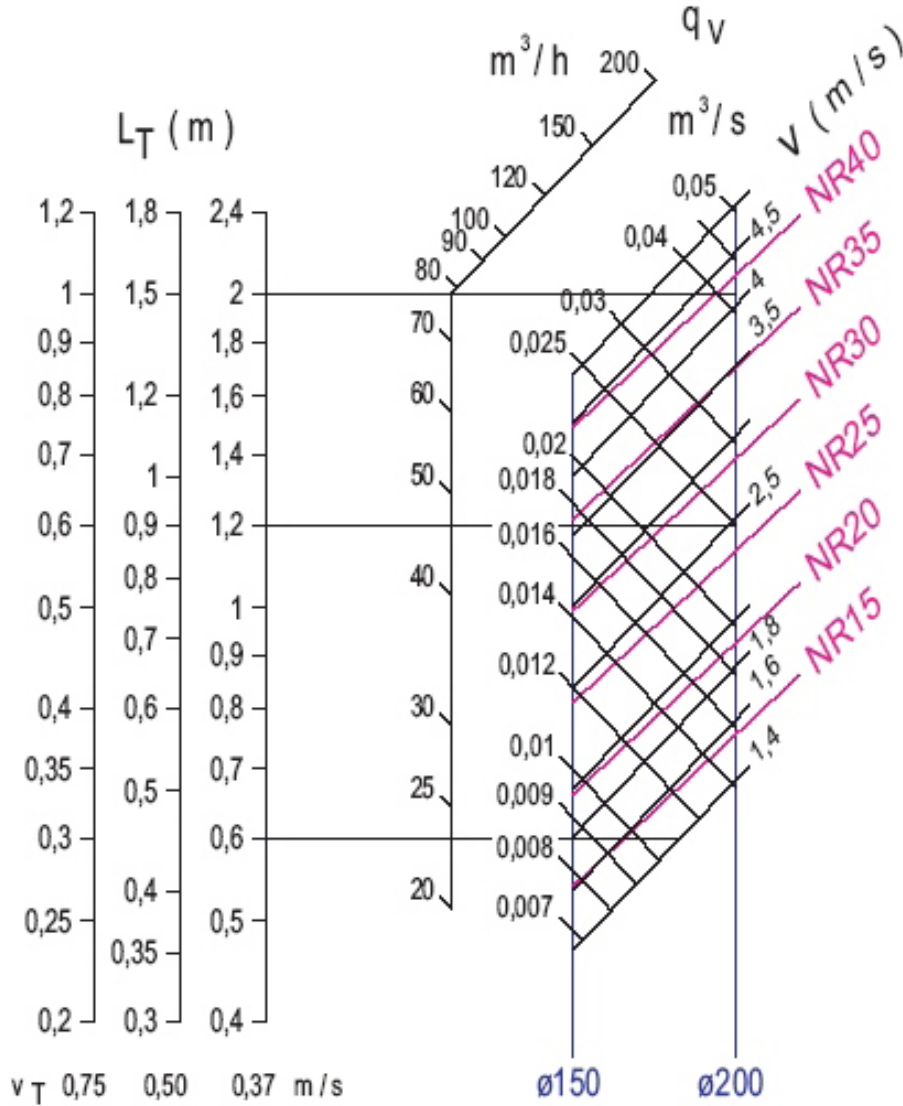
Correction factor according to the position of the dust basket

% Open	$\phi 150$	$\phi 200$
100%	NR +0	NR +0
50%	NR +2	NR +5
25%	NR +5	NR +11

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## Technical Specifications

### Horizontal Air Pattern



Correction factor according to the position of the dust basket

% Open	$\varnothing 150$	$\varnothing 200$
100%	NR +0	NR +0
50%	NR +2	NR +5
25%	NR +5	NR +11

