IEB

Industrial diffuser

Application:

- The industrial diffuser is design to be used in blowing of air into commercial center, exhibition halls or warehouse.
- IEB is equipped with a damper function, which makes it possible to vary the supply air pattern between horizontal or vertical.
- Well suited for cooling and heating air

Type:

- **IEB-K -** manually driven
- **IEB-M-** mororized driven by actuator
- **IEB-T -** driven by thermal dilatation element

Material:

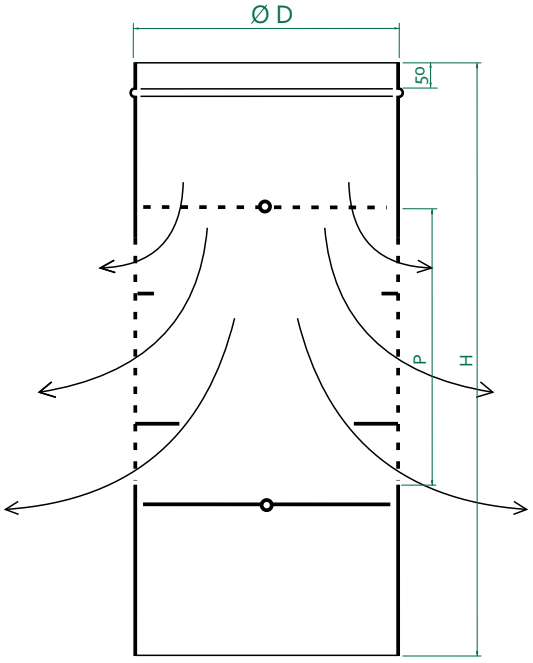
- Diffuser is made of steel powder coated RAL 9010

Optional:

- galvanised steel
- stainless steel (1.4301)
- other RAL colors upon request

Fixing:

- fixing by directly by POP rivets or screws to SPIRO duct
- by M6 threaded rod to ceiling or support construction .



Type	ØD [mm]	H [mm]	P [mm]	Weight [kg]
250	249	1100	550	6,1
315	314	1100	485	7,8
400	399	1100	400	10,4
500	499	1200	400	14,4
630	628	1300	370	20,4

Dimensions and weight of industrial diffuser type IEB

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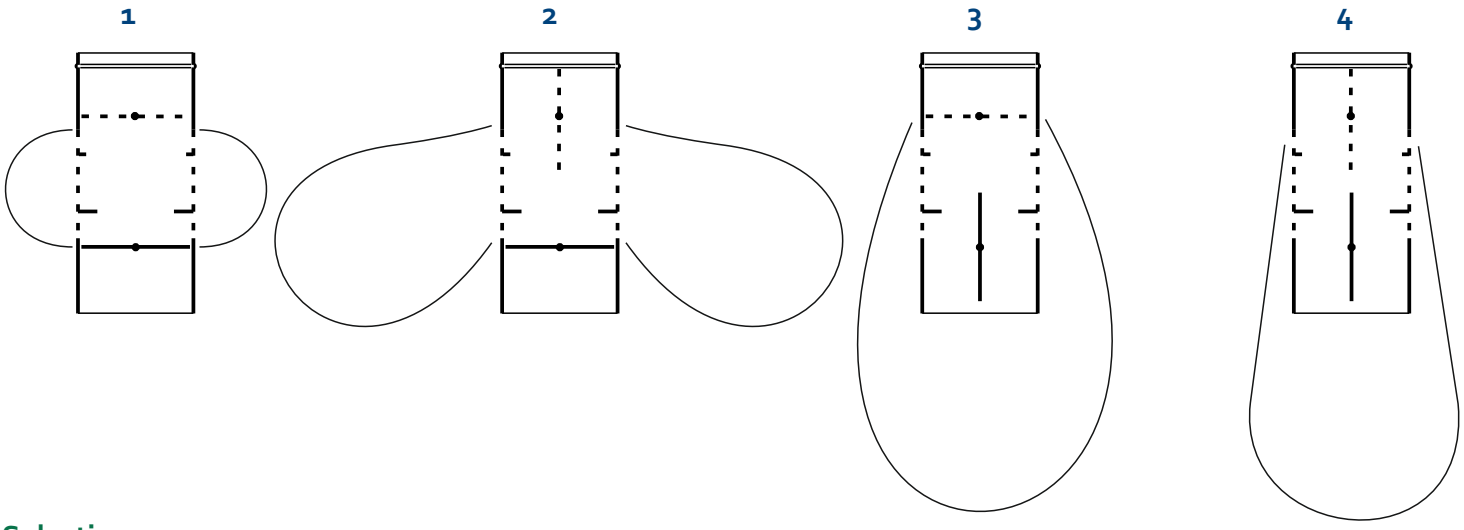
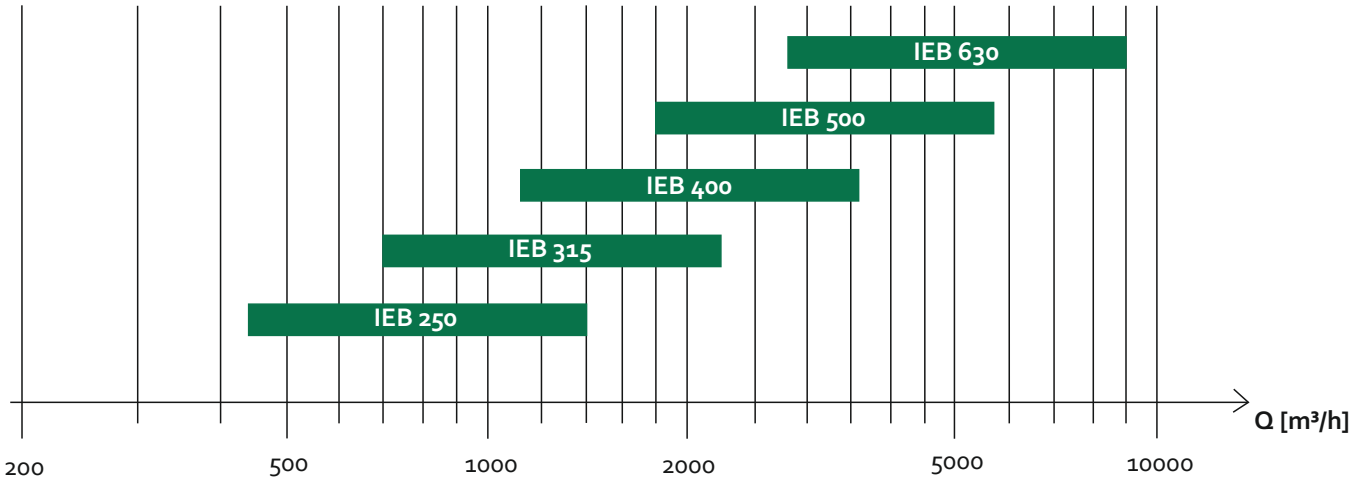
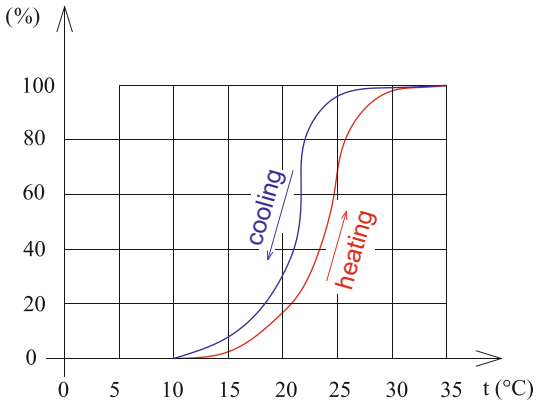
Construction:
There are four basic position combinations.



Selection:
The air volumes that can be blown with IEB diffusers are based on the air speed limits measured in the recommended air ducts of 2.5 and 8 [m/s].





Thermal actuator temperature range: 14 - 26 °C

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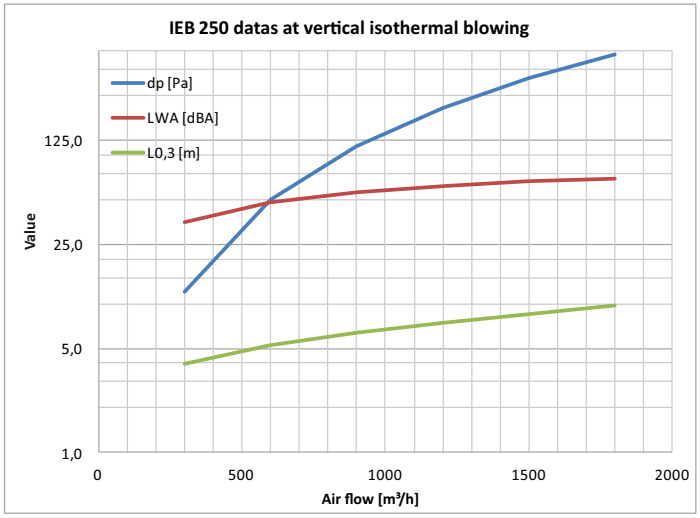
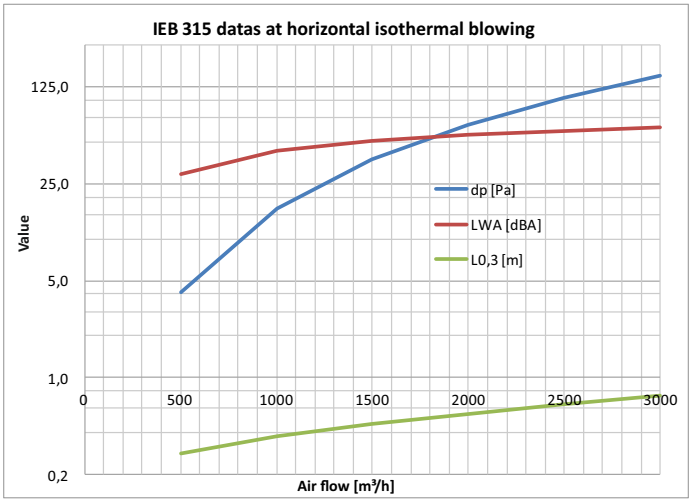
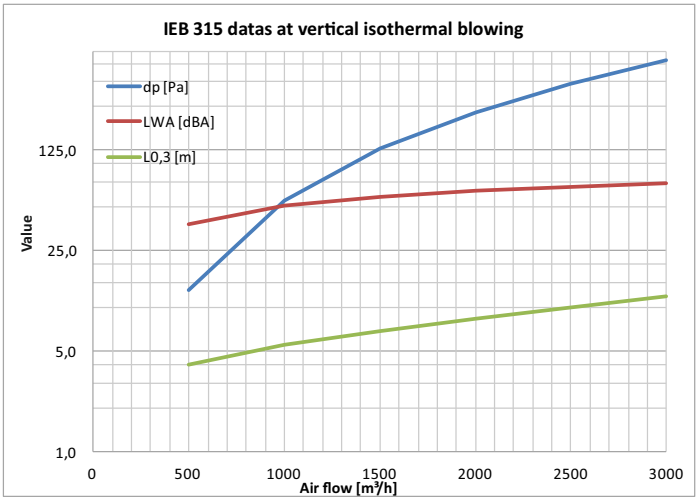
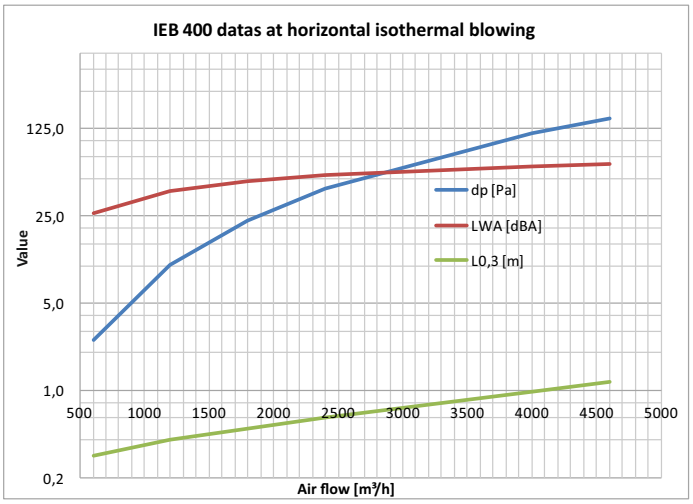
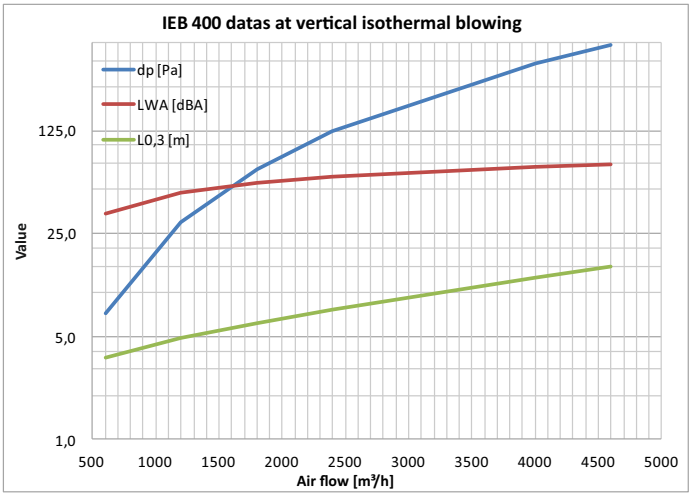




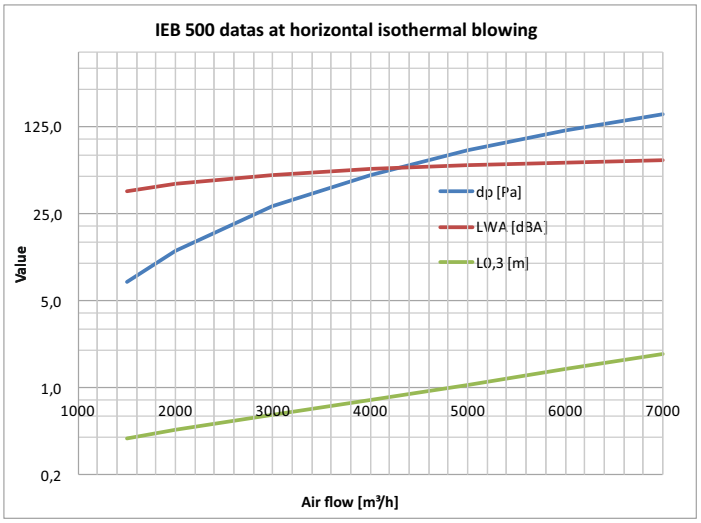


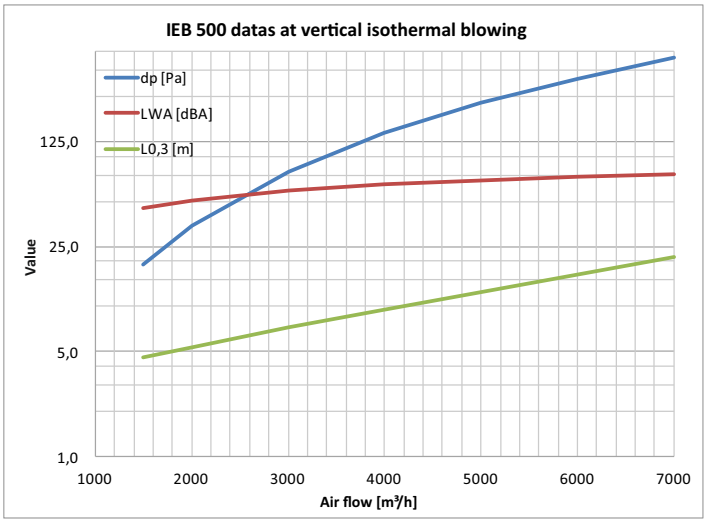


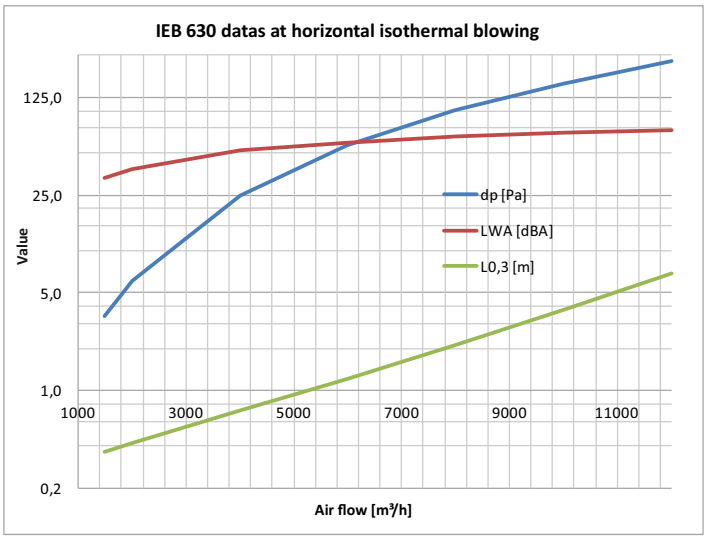


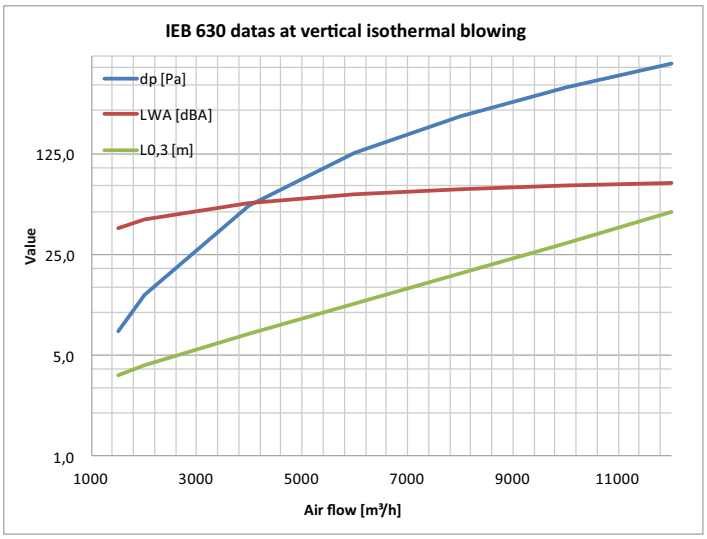
You can find the selection diagrams of IEB industrial diffusers above in case of horizontal blowing and vertical blowing.

QUICK SELECTION









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QUICK SELECTION

	Type		250	315	400	500	630
v_a = 2 [m/sec]	Q	[m³/h]	353	561	905	1414	2244
	Δp	[Pa]	5	5	6	6	8
	L_{WA}	[dBA]	29,3	31,6	34,4	37,1	40,5
	$L_{0,3}$	[m]	0,3	0,3	0,4	0,4	0,5
v_a = 4 [m/sec]	Q	[m³/h]	707	1122	1810	2827	4489
	Δp	[Pa]	20	21	23	26	31
	L_{WA}	[dBA]	42,5	44,9	47,7	50,4	53,9
	$L_{0,3}$	[m]	0,3	0,4	0,5	0,6	0,8
v_a = 6 [m/sec]	Q	[m³/h]	1060	1683	2714	4241	6733
	Δp	[Pa]	45	47	53	58	71
	L_{WA}	[dBA]	50,3	52,6	55,5	58,2	61,7
	$L_{0,3}$	[m]	0,4	0,5	0,7	0,9	1,5
v_a = 8 [m/sec]	Q	[m³/h]	1414	2244	3619	5655	8978
	Δp	[Pa]	80	84	94	103	127
	L_{WA}	[dBA]	55,8	58,1	61,0	63,7	67,2
	$L_{0,3}$	[m]	0,5	0,6	0,9	1,3	2,8
v_a = 10 [m/sec]	Q	[m³/h]	1767	2806	4524	7069	11222
	Δp	[Pa]	125	131	147	162	199
	L_{WA}	[dBA]	60,1	62,4	65,3	68,1	71,5
	$L_{0,3}$	[m]	0,5	0,7	1,1	1,9	5,4

IEB fast selection in cace of horizotnal blowing (top sheet open, bottom sheet closed)

	Type		250	315	400	500	630
v_a = 2 [m/sec]	Q	[m³/h]	353	561	905	1414	2244
	Δp	[Pa]	17	17	17	17	17
	L_{WA}	[dBA]	38,3	40,3	42,3	44,3	46,3
	$L_{0,3}$	[m]	4,2	4,2	4,3	4,4	4,6
v_a = 4 [m/sec]	Q	[m³/h]	707	1122	1810	2827	4489
	Δp	[Pa]	70	70	70	70	70
	L_{WA}	[dBA]	51,8	53,8	55,9	57,8	59,8
	$L_{0,3}$	[m]	5,6	5,8	6,2	6,8	8,0
v_a = 6 [m/sec]	Q	[m³/h]	1060	1683	2714	4241	6733
	Δp	[Pa]	161	161	161	161	161
	L_{WA}	[dBA]	59,7	61,7	63,8	65,7	67,7
	$L_{0,3}$	[m]	6,9	7,5	8,4	10,1	13,6
v_a = 8 [m/sec]	Q	[m³/h]	1414	2244	3619	5655	8978
	Δp	[Pa]	291	291	291	291	291
	L_{WA}	[dBA]	65,3	67,3	69,4	71,3	73,4
	$L_{0,3}$	[m]	8,2	9,2	11,2	14,8	23,5
v_a = 10 [m/sec]	Q	[m³/h]	1767	2806	4524	7069	11222
	Δp	[Pa]	460	460	460	460	460
	L_{WA}	[dBA]	69,7	71,7	73,8	75,7	77,7
	$L_{0,3}$	[m]	9,6	11,3	14,7	21,7	41,0

IEB fast selection in cace of horizotnal blowing (top sheet closed, bottom sheet open)