

DRS

low velocity diffuser (step application)



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3 LOW VELOCITY DIFFUSER

**Design:**

Rectangular low velocity diffuser DRS outlet primarily designed for use in steps and walls. It consists of a perforated front plate with a panel behind with integrated air regulating adjustable nozzles and an assembly frame with integrated slot slider for volume control. Optionally available with a plenum box. The front panel is removed via rotating bolts without any visible sign of screw fastening.

Function/Effect:

Through the special construction of the diffuser an air even distribution of the front perforated plate is achieved, the internal individually adjustable nozzles allow for various air flow patterns to be set. By nozzle adjustment it is possible to set bias of the air flow left or right or even straight on if required. The diffuser is specifically suitable for the use in rooms or theatres with stepped areas giving an ideal distribution of the supply air via multiple outlets.

Material:

The diffuser is made from galvanized steel, coated in deep black (RAL 9005), adjustable nozzles made from black plastic.

Accessories & optional variations:

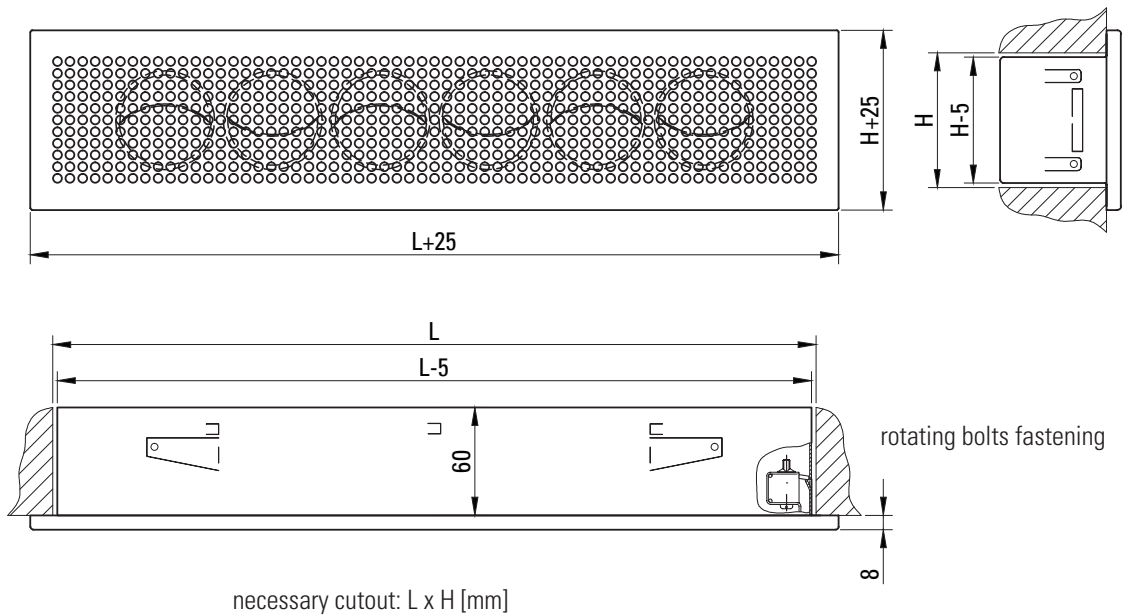
- other colours according to RAL on request
- plenum box

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dimensions:



height H [mm]	length L [mm]				
	225	325	425	525	625
75	x	x	x	x	x
125	x	x	x	x	x
225		x	x	x	x

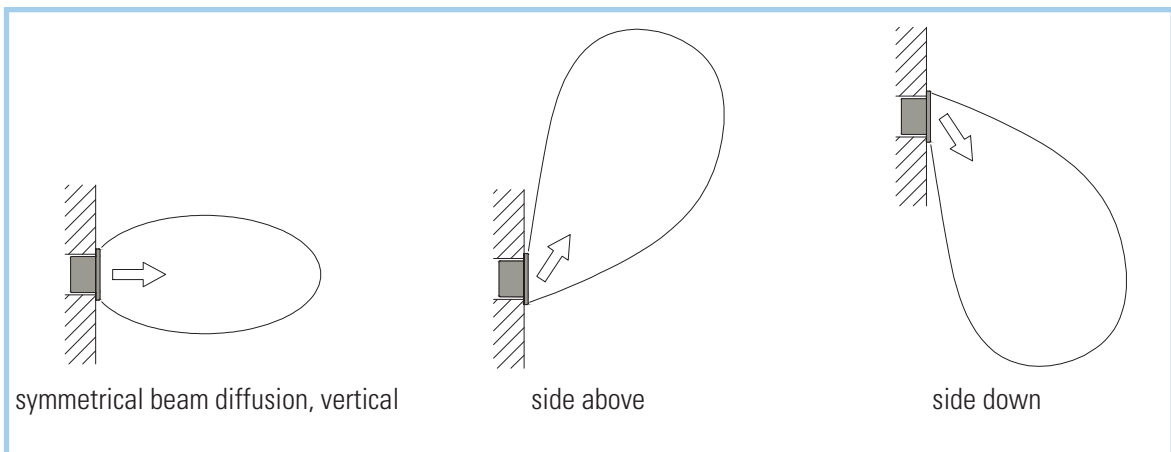
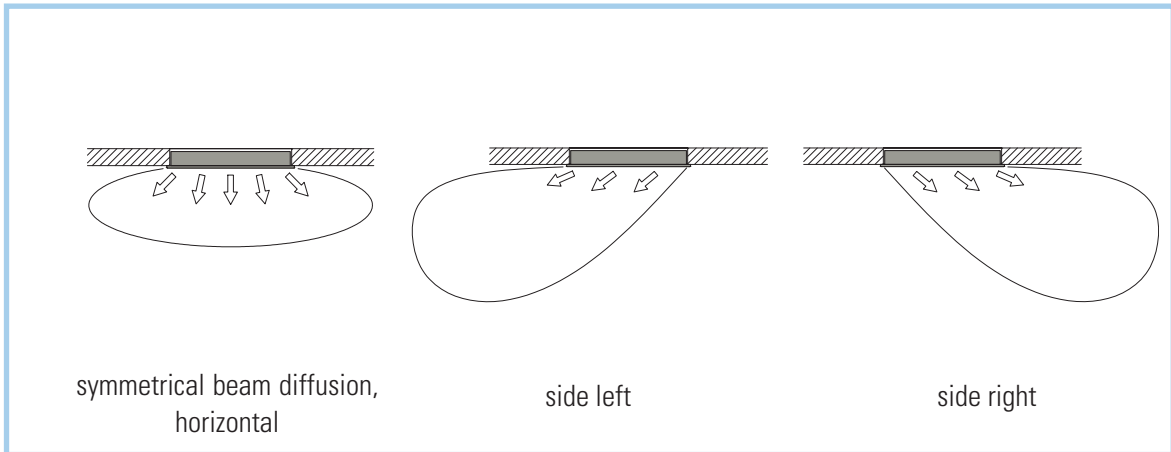
The dimensions are outside dimensions [mm] and can be varied within functional and technical limitations depending on the requirement.

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Possible flow patterns:



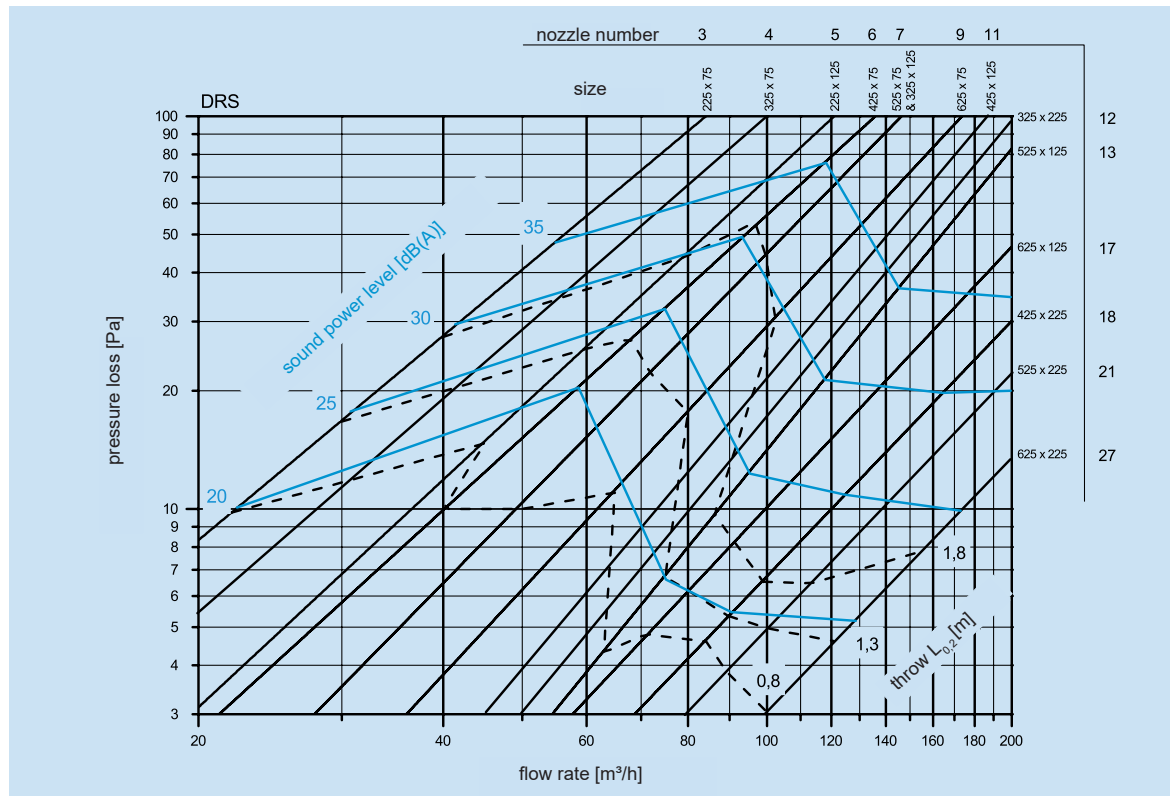
Mixed air settings possible at any time and subsequently

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diagram: pressure loss and sound power level:



quick selection

size	$L_{WA} = 25 \text{ dB}$			$L_{WA} = 30 \text{ dB}$			$L_{WA} = 35 \text{ dB}$		
	V [m³/h]	Δp [Pa]	$L_{0,2}$ [m]	V [m³/h]	Δp [Pa]	$L_{0,2}$ [m]	V [m³/h]	Δp [Pa]	$L_{0,2}$ [m]
225 x 75	31	18	1,3	42	30	1,9	54	48	2,7
325 x 75	44	23	1,3	57	36	1,9	73	57	2,8
225 x 125	63	29	1,3	79	44	1,8	98	68	2,5
425 x 75	74	33	1,4	93	49	1,7	117	75	2,2
525 x 75 / 325 x 125	78	27	1,4	97	42	1,7	122	68	2,2
625 x 75	84	20	1,3	105	33	1,8	131	52	2,8
425 x 125	89	16	1,6	109	27	2,4	136	46	3,7
325 x 225	92	14	1,9	114	24	2,5	141	41	3,9
525 x 125	94	12	2,3	116	22	3,0	145	37	4,1
625 x 125	106	12	2,4	137	21	3,4	175	35	4,5
425 x 225	126	11	3,0	162	20	4,6	212	34	6,0
525 x 225	140	10	2,7	190	20	3,9	236	33	4,8
625 x 225	172	10	2,1	237	20	2,9	278	32	3,2

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Tender text

DRS a rectangular low velocity diffuser consisting of a perforated front plate, with secondary rear plate holding a series of individually adjustable nozzles for air direction, The installation frame also provides an integrated slot slider for volume control. Diffuser made from galvanized steel powder-coated in RAL 9005, adjustable nozzles consist of black plastic.

AK/H plenum box with horizontal spigot, made from galv. steel

AK/V plenum box with vertical spigot, made from galv. steel

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Type DRS -

Quantity pcs.

Ordering example DRS - 225 x 75 - AK/H

