

# Square supply diffusers

## NCD-S



### Description

The NCD-S square diffusers are compatible with low- and medium-pressure ventilation systems as well as A/C air supply and exhaust ducts. They can be used in steady and variable air flow systems and environmental RH up to 70%.

The vane angle is fixed. As a result, the diffuser provides a horizontal air flow and it is recommended for spaces with a maximum ceiling height of 4 m. The diffuser is designed for installation on square ducts, to plenum (expansion) boxes and as ductwork termination on suspended ceiling using screws. The diffusers are light-weight easy-to-install products and require no additional bracing of suspended ceiling panels. The diffuser vanes can be removed without detaching the entire diffuser. The diffuser provides air supply in four directions. It is not recommended installing the diffusers with clip fasteners on the ceiling.

When installed on the PRK plenum box, they provide a uniform air supply, while an insulated version of the plenum box reduces the ductwork and air noise level.

#### Available materials — Product code examples

NCD-S-...-...- aluminium sheet with powder-coated finish  
colour: RAL 9016

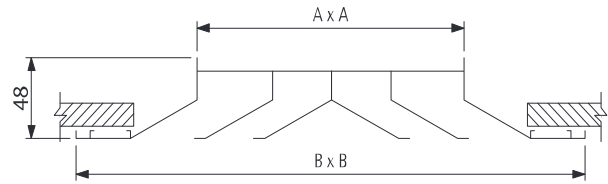
#### Product code example

Product code: NCD-S - 295-295

type

dimension

### Dimensions



Product code	A x A (mm)	B x B (mm)	Number of vanes
NCD-S-295-295	148x148	296x296	2
NCD-S-370-370	225x225	370x370	3
NCD-S-445-445	298x298	443x443	4
NCD-S-520-520	375x375	520x520	5
NCD-S-595-595	446x446	598x598	6

**This product is installed with a PRK plenum box in the standard version.**

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### Technical specifications

Selection table

dimension (mm)	A × A (mm)	Characteristics							
295-295	145x145	V [m <sup>3</sup> /h]	170	190	215	235	255	275	300
295-295	145x145	T [m]	1,6-2,5	1,6-2,8	1,9-2,8	2,2-3,1	2,5-3,4	2,5-3,4	2,5-3,4
295-295	145x145	PS [Pa]	8	9	12	14	17	19	23
295-295	145x145	NC [dB]	15	16	17	19	20	21	22
370-370	220x220	V [m <sup>3</sup> /h]	380	430	480	525	570	620	670
370-370	220x220	T [m]	2,5-3,7	2,8-4,0	3,1-4,3	3,1-4,3	3,4-4,6	3,4-5,0	3,7-5,0
370-370	220x220	PS [Pa]	9	13	14	17	20	21	27
370-370	220x220	NC [dB]	18	19	21	22	24	25	26
445-445	295x295	V [m <sup>3</sup> /h]	680	765	850	935	1020	1105	1190
445-445	295x295	T [m]	3,4-5,0	3,7-5,6	4,0-5,9	4,3-6,2	4,3-6,5	4,6-6,8	5,0-7,1
445-445	295x295	PS [Pa]	10	12	16	19	22	23	30
445-445	295x295	NC [dB]	18	20	22	23	25	26	28
520-520	370x370	V [m <sup>3</sup> /h]	1060	1200	1325	1460	1590	1725	1855
520-520	370x370	T [m]	4,3-6,5	5,0-6,8	5,2-7,1	5,2-7,4	5,6-7,8	5,9-8,1	5,9-8,7
520-520	370x370	PS [Pa]	11	15	18	21	24	28	33
520-520	370x370	NC [dB]	19	21	23	25	27	28	30
595-595	445x445	V [m <sup>3</sup> /h]	1530	1720	1915	2110	2300	2500	2680
595-595	445x445	T [m]	6,5-7,8	6,2-8,1	6,2-8,7	6,5-9,0	6,5-9,3	6,8-9,9	7,1-10,2
595-595	445x445	PS [Pa]	12	15	18	22	26	29	34
595-595	445x445	NC [dB]	20	21	24	26	28	30	31

T [m] - zasięg podany kolejno dla prędkości 0,5 m/s; 0,25 m/s

Ps [Pa] - ciśnienie statyczne

NC [dB] - głośność przy przyjętym tłumieniu pomieszczenia 10 dB