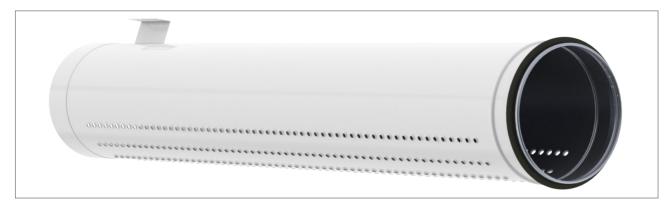
10



DSP Jet pipe



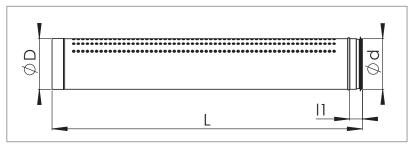
Ceiling-installed air distribution system.

Features:

- · suitable for schools, offices, meeting halls, sports halls and warehouses
- especially designed for cooling
- · large induction rate
- · easy to install, measure, regulate and maintenance

Structure and dimensions

Nomi- nal-size	I ₁	L	Weight, kg
160	29	1245	3,5
200	29	1245	4,5
250	50	1245	5,5
315	50	1245	6,9
400	50	1245	8,7
500	65	1245	11



Standard material galvanized steel. The duct is patterned with a certain quantity of nozzles. One end with rubber gasket and the other end fits a duct. Other materials and finishes available. Extra ducts (DSPO, L = 1250) and parts available.

Principle

Designed for optimal cooling effect. Nozzles optimized for dynamic induction and provide effective distribution with low noise level. Each nozzle "takes in" a seven-fold quantity of room air, blending the supply air evenly and makes it possible to supply a large quantity of cooled air without draft to the occupied zone.

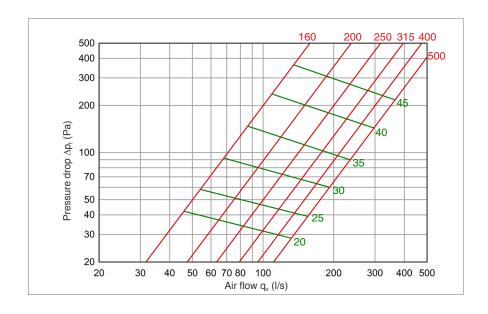
As seen on the diagram next page, the nozzles on the duct conform into various patterns (60°-360°).

Air flow depends on diameter. The proper function of the system requires controlled air flow speed. Air flow speed should not exceed 4 m/s.

	Upward 120°	Downward 120°	Horizontal 2x60°	Circular 360°
Min distance between nozzle pipes (m)	1,5	1,5	2,5	1,5
Installation height (m)	2,2-4,5	3-8	2,5-5	2,2-4,5
Ceiling distance from the duct (mm)	220	50	120	200
Supply air temperature, ∆t (°C)	0-15	3-8	0-12	0-12

FIS NORD®

Technical data



System design

Dimensioning

The figure shows maximum air quantities for different sizes of ventiducts. Air quantity and pressure loss are freely selectable until 120 Pa. Figure on the next page shows noise level. If required air volume and pressure loss are defined in the order, the air volume will be preadjusted. If only air volume is defined the product will be supplied with a pressure loss of 60 Pa. Air quantity can be easily adjusted on site by closing or opening nozzles. Air quantity can be calculated as follows:

 $q_v = \sqrt{\Delta p} \times 0.030 \times quantity$

q_v = required air volume, dm³/s

 $\sqrt{\Delta}$ p = chosen/measured pressure loss, Pa

0,030 = k-value

Qty = number of open nozzles

Product codes



3- downward

Example: DSP 200- 2x60-2-H

Accessories:

DSPO Lengthening duct DSPM Measuring cap

Non-standard materials:

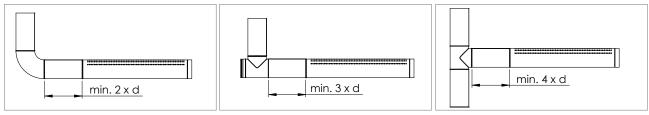
ZM – zinc-magnesium coated steel H – acid-proof steel

Colour code: RAL colours



Installation

Ventiduct should not be installed too close to bends, tees other elements that may create turbulence and hence noise. Straight duct sections should be installed between ventiduct and potentially disruptive components, as shown in the illustration below. Air quantity is preadjusted and no extra dampers are needed.



Lengthening of duct

