

# DSP

## Under-seat diffuser



# Diffusion

Components  
for perfect air  
distribution in HVAC  
systems

DIFFUSERS



**Product**

DSP

**Application**

Chair-supported or floor-mounted

**Construction**

Perforated cylinder, truncated cone, diffuser with adjustable blades, seat adapter support, floor fixing collar: powder coated steel epoxy

### SPECIFICATION

The DSP diffuser is used in large rooms, cinemas, theatres, conference halls. Built to ensure low pressure drops, minimum noise and maximum comfort near people

### FUNCTIONS

Under-seat diffusers are used to replace a traditional air conditioning system over the entire room volume, generating a microclimate effect in specific areas

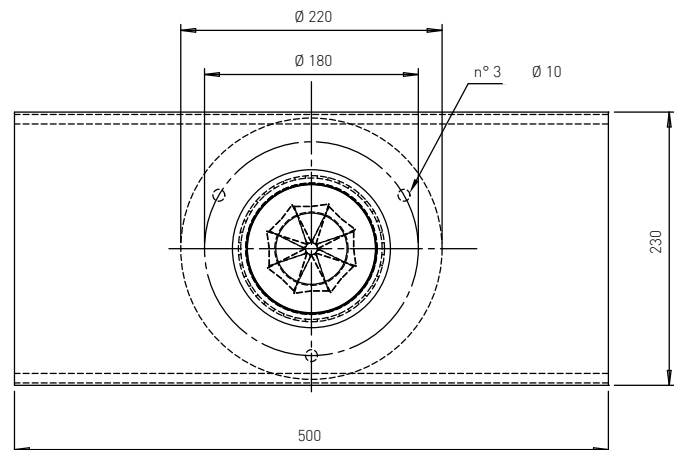
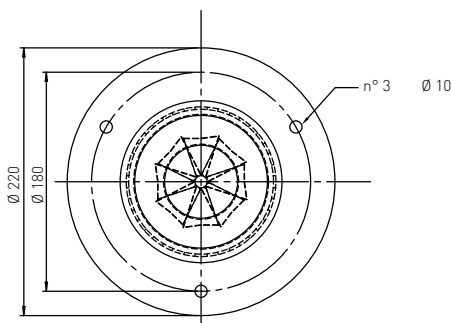
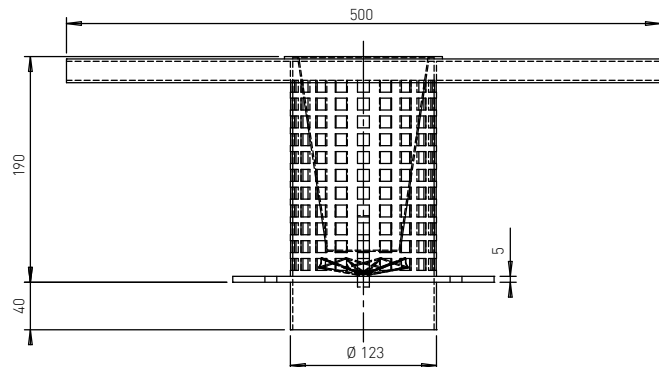
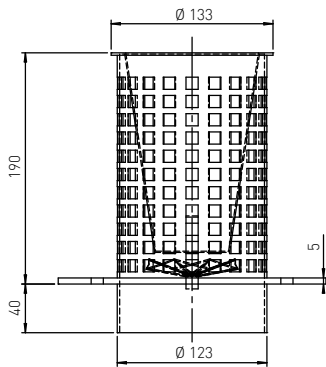
### VERSIONS

DSP/A Under-seat diffuser without support

### ACCESSORIES

Support plate

## DIMENSIONS



STANDARD DIFFUSER

DIFFUSER WITH SUPPORT PLATE

## TECHNICAL CHARACTERISTICS

Air flow rate	Pressure drop pressure drop	Induced secondary air	Velocity air at 25 cm from diffuser	Temperature a 25 cm from diffuser	Velocity air at 1 m in height	Temperature a 1 m from diffuser
m <sup>3</sup> /h	Pa	m <sup>3</sup> /h	cm/s	°C	cm/s	°C
35	8	9	25	20,4	9	22,4
45	10	12	28	20,4	8	22,5
55	18	14	30	20,5	8	22,4

## SOUND POWER LEVEL

f (Hz)	63	125	250	500	1000	2000	4000	8000
Bottom	36	29	26	11	6	7	10	12
35 m <sup>3</sup> /h	*	*	*	*	*	*	*	*
45 m <sup>3</sup> /h	*	*	32	21	*	*	*	*
55 m <sup>3</sup> /h	*	32	33	33	24	13	*	*

\* The noise level does not exceed background noise

## OPERATION

Primary air is introduced from the bottom of the cylinder (1) through the diffuser with adjustable blades (3) which, by changing the air direction, convey it towards the perforated walls of the

This airflow creates a depression zone at the centre of the diffuser where an inverted cone (2) is placed, which draws air from the room and mixes it with the primary air. A pre

