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# Positive pressure dampers

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# Positive pressure dampers

## PRODUCT DESCRIPTION

### Application

Positive pressure dampers (ÜDK) can be used wherever it is necessary to prevent an uncontrolled ingress or return flow of air. In many cases, these dampers are a cost-effective alternative to conventional pressure dampers.

### Design details

The positive pressure damper consists of a frame construction in which several aluminium blades are able to swivel on their horizontal axes. The frames are designed either to be surface-mounted or installed between elements.

### Functional principle

The blades can move freely in the outlet direction, thereby enabling the air flow to pass through without any significant resistance. When the system is running, the blades are supported by the air flow and therefore remain in the OPEN position. If positive pressure occurs on the locking side, the blades are pushed against a stop. This mutual overlap of the blades and the stop results in the blades being sealed. The positive pressure damper therefore acts as a self-actuating valve.

## MATERIALS

Frames: galvanised sheet steel or aluminium

Blades: aluminium (extruded section)

Blade mounting: plastic

Stop seal: foam

## DESIGNS

Series U	ÜDK/U - Sv	Series L	ÜDK/L - Sv
	ÜDK/U - Sv1		ÜDK/L - Sv1
	ÜDK/U - Sv2		ÜDK/L - Sv2
	ÜDK/U - Alu		ÜDK/L - Alu
	ÜDK/U - Alu1		ÜDK/L - Alu1
	ÜDK/U - Alu2		ÜDK/L - Alu2

The design printed in bold is manufactured as the standard version.

### KEY

**L1** L-shaped frame for outlet, air direction L1

**L2** L-shaped frame for inlet, air direction L2

**Sv** Galvanised steel non-perforated frame

**Sv1** Galvanised steel frame with 4x corner holes

**Sv2** Galvanised steel frame perforated to requirements

**Alu** Aluminium non-perforated frame

**Alu1** Aluminium frame with 4x corner holes

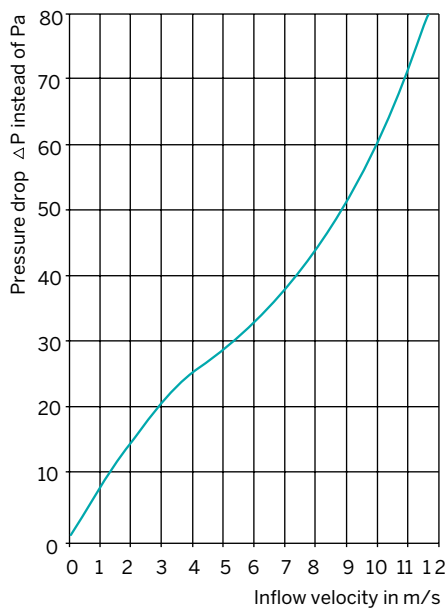
**Alu2** Aluminium frame perforated to requirements



# Positive pressure dampers

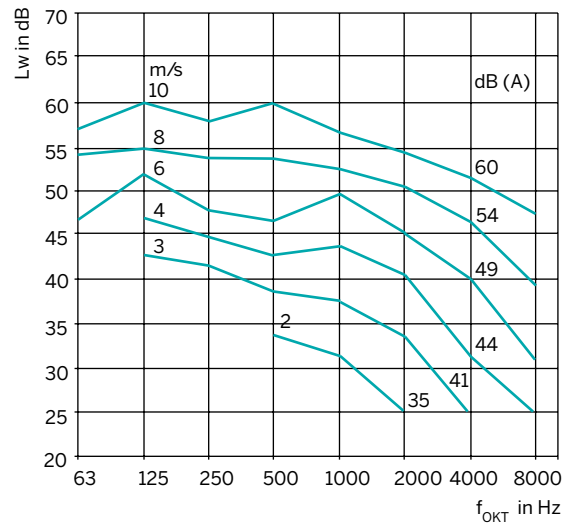
## PERFORMANCE DATA

### Pressure drop



Recommended inflow velocity (in relation to a × b)	3.0 m/s
Load-bearing capacity in case of blocking	1.2 kPa
Temperature resistance	-20 °C to + 80 °C
Opening angle (max.)	84°
Opening from	10 Pa
Installed depth	120 mm

### Sound power level



## AVAILABLE SIZES

### Series U

#### for installation between ducting components

width from 200 mm to 1,600 mm  
height from 160 mm to 2,000 mm

### Series L

#### for wall/duct installation

width from 250 mm to 1,600 mm  
height from 160 mm to 2,000 mm

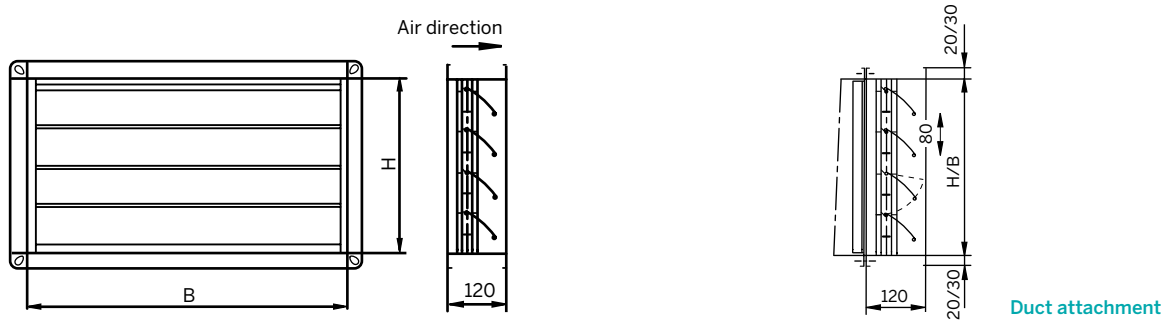
#### For a width > 1,200

a crossbar is installed.

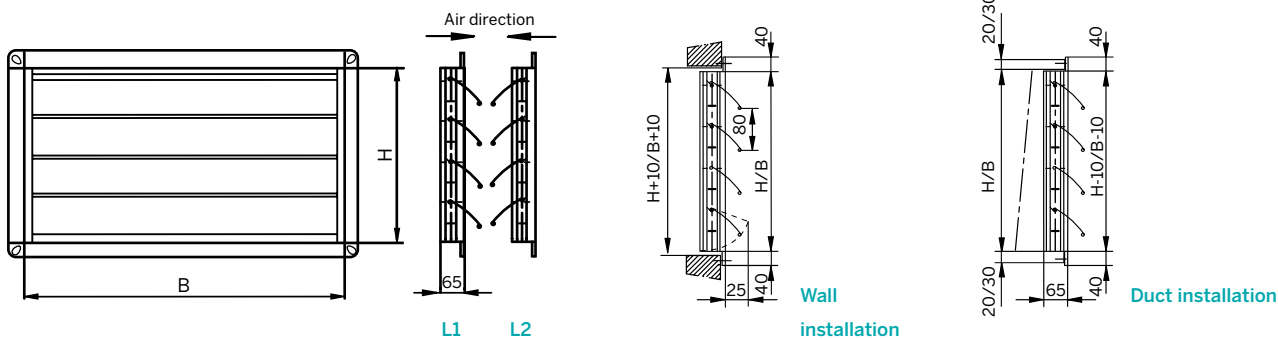
A mounting frame (ER) with or without masonry anchors suitable for Series L can be included upon request.

INSTALLED DIMENSIONs

Series U



Series L



TYPE CODES

ÜDK/U – 400 x 400 – Sv

	Material (frame) galvanised steel or aluminium
	Nominal dimensions width x height
	Design
	Component designation

TENDER SPECIFICATION TEXT

Positive pressure damper (ÜDK) for installation in inlets or outlets of HVAC systems for protection against uncontrolled ingress or return flow of air; the blades open automatically when the HVAC system is running and close automatically when the HVAC system is not in operation; suitable for instal-

lation between duct components (Series U); suitable for wall/duct installation (Series L).

Manufacturer:  
BerlinerLuft. Technik GmbH