

Passive Chilled Beams

Type PKV



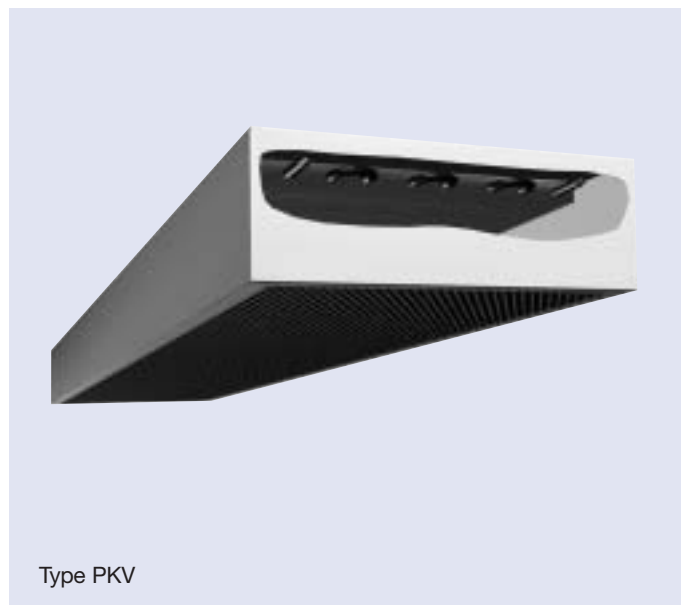
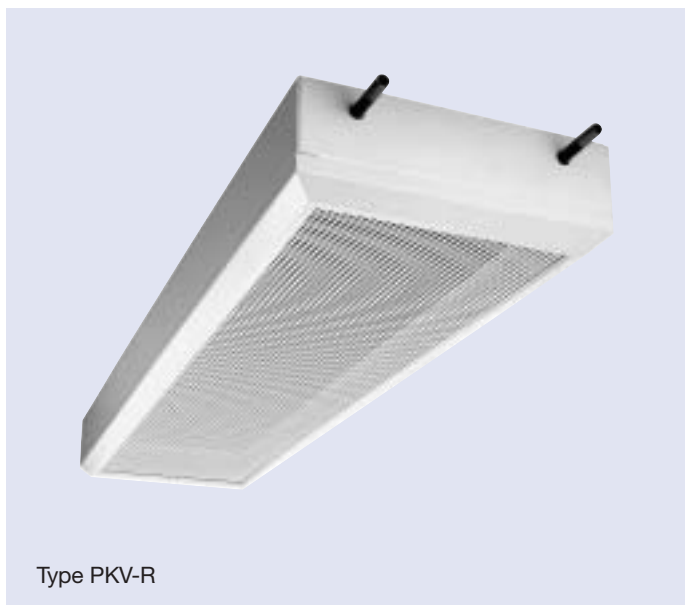
TROX[®] TECHNİK

TROX GmbH
Heinrich-Trox-Platz
D-47504 Neukirchen-Vluyn

Telephone +49/28 45/2 02-0
Telefax +49/28 45/2 02-2 65
e-mail trox@trox.de
www.troxtechnik.com

Contents · Description

Description _____	2
Constructions · Dimensions _____	3
Installation · Assembly _____	4
Technical data _____	5
Order details _____	7



Description

Passive chilled beams (without supply air) are used for dissipation of high internal heat loads.

The energy benefits by using water as a transport medium can in this product be fully utilised. In new buildings they offer low investment costs and high cooling capacity, and they are also the preferred option in refurbishment applications.

Depending on the design brief for the room and its ceiling, the units can be installed flush in a false ceiling or can be freely suspended.

They can be integrated with luminaires, speakers etc. We can offer an individual solution to suit your architectural concept – contact us for particulars.

There are no moving parts within a chilled beam, so it never generates any irritating noise.

Caution!

The chilled water flow temperature should be selected so as to avoid operation below dew point.

Constructions

The type PKV passive chilled beam comprises a casing with optional frame, a cooling coil with connection flanges, and on request a perforated metal facing.

Casing without frame has hanging brackets for use when installing the unit.

When ordered with a frame (PKV-R), the unit can be supplied with nut serts or on request with adjustable height hanging brackets.

Materials

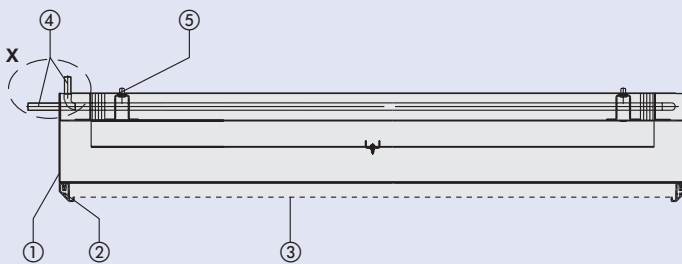
Casing and perforated metal facing are of galvanised steel sheet, frame (PKV-R) is of aluminium, cooling coil has copper tubes with formed aluminium fins and galvanised flanges.

The standard surface finish of units without frames is black (RAL 9005) powder-coated. The standard surface finish of constructions with frames is pure white (RAL 9010) powder-coated. Other RAL colours can be supplied on request!

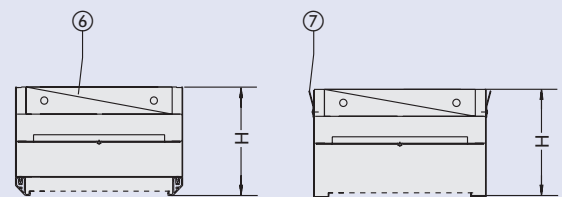
Dimensions in mm			
L (mm)	B (mm)	W (mm)	H (mm)
900	180	70	110
1200	320	210	200
1500	460	350	300
1800	600	490	
2000			
2500			
3000			

- ① Casing
- ② Aluminium frame
- ③ Perforated metal facing
- ④ Coil flow and return water connections (Ø 12 mm tube) optionally straight or bent 90° upwards
- ⑤ Nut serts M6 (fixed), optionally with height-adjustable hanging brackets as shown
- ⑥ Coil
- ⑦ Hanging brackets (only for construction without frames)

Type PKV-R
(with frame)



Type PKV
(without frame)



Detail X

straight pipe connections (G) pipe connections bent 90° upwards (B)

