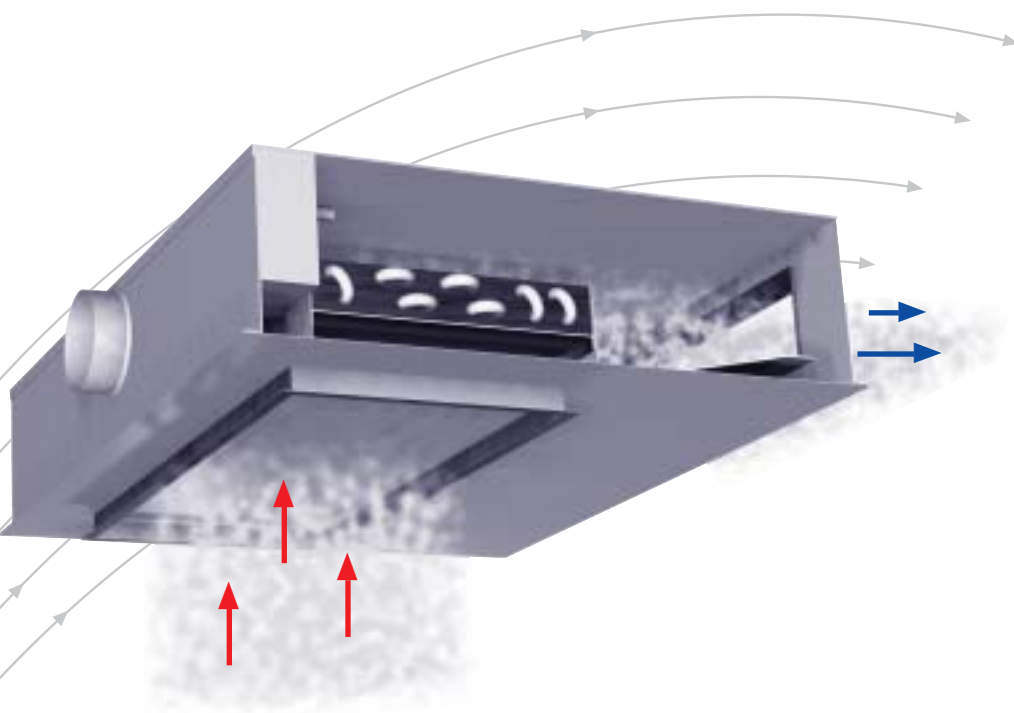


Active Chilled Beams

- Type DID-E
- Air discharge in one direction



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Description

Trox active chilled beams type DID-E discharge the air in one direction and use a combination of air and water systems for fresh air supply as well as room heating and cooling. They are particularly suitable for use in hotel bedrooms, individual hospital wards and cellular offices.

They combine the air flow characteristics of sidewall supply grilles with the energy benefits of load dissipation using water.

The required primary volume flow for fresh air is supplied through a duct into which nozzles are fitted. As a result secondary air is induced through a horizontal water coil for heating or cooling, or heating and cooling.

In the mixing section of the type DID-E the induced air is mixed with the primary air and the total discharged into the room via a TROX sidewall grille.



Caution!

The chilled water flow temperature must be selected such that it never falls below room dewpoint.

Max. operating pressures:

for 2-pipe and 4-pipe system

6 bar at 90°C

7 bar at 20°C

Other operating pressures available on request!

Construction · Material · Dimensions

Construction

Active chilled beams type DID-E consist of the casing with primary air duct and integrated discharge nozzles which can have different free areas. The primary air connection on site is via a rear mounted side entry circular spigot.

A coil is fitted inside the casing which can be used either for heating or cooling (2-pipe system) or for heating and cooling (4-pipe system).

The unit is provided with suspension holes for mounting on site. Induction and discharge spigots can be supplied as accessories.

Materials

Casing made of galvanized sheet steel, discharge nozzles made of plastic, coil is made of copper tubes with formed aluminium fins. Finish of casing and spigots, if required, powder or dip coated black (RAL 9005).

Dimensions in mm

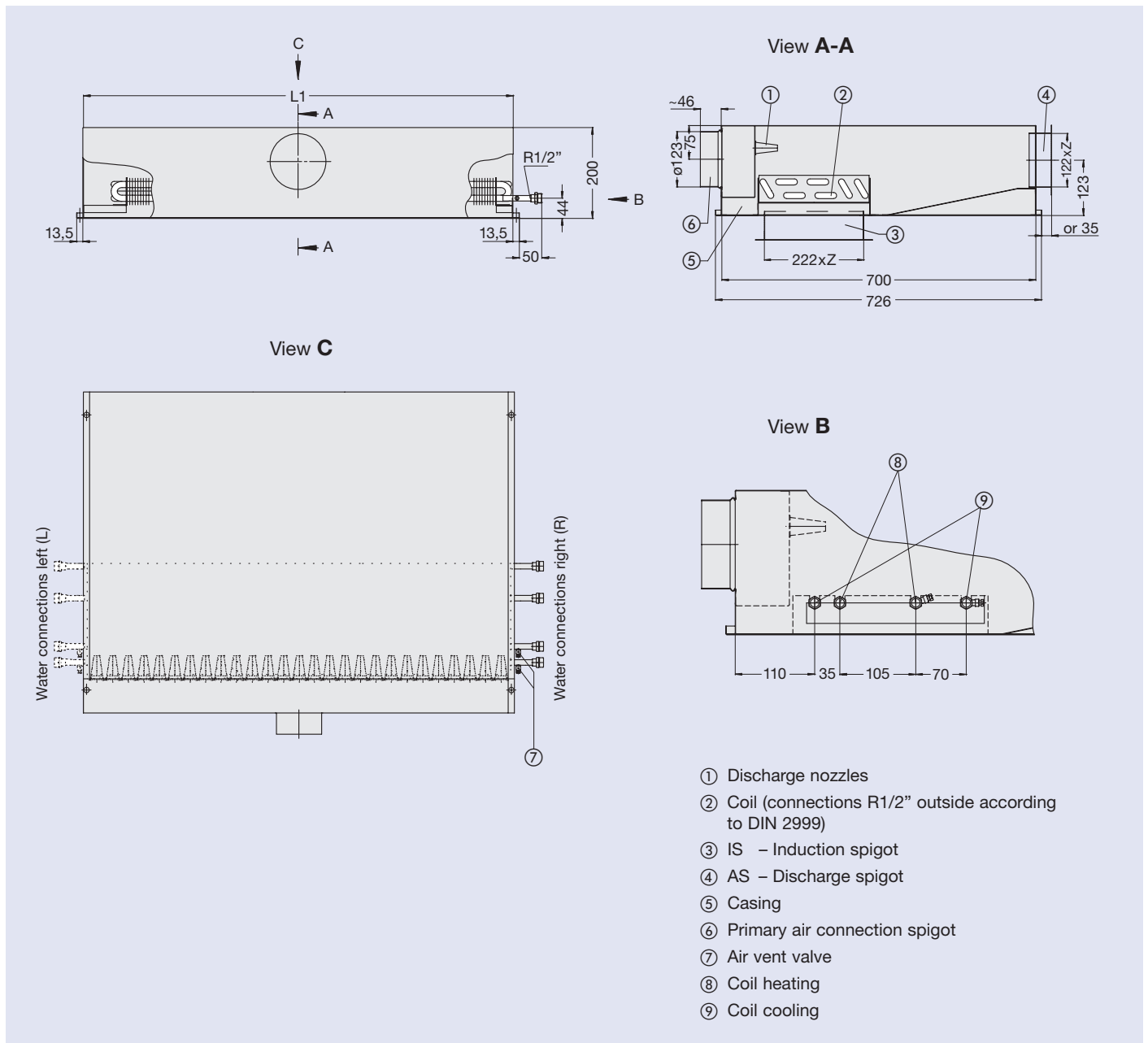
L_N	L_1	Z
900	940	922
1200	1240	1222
1500	1540	1522

Required ventilation grille dimensions

	L x H (mm)
Discharge grille	925* x 125
	1225
	1525*
Induction grille	925* x 225
	1225
	1525*

(* = Intermediate dimensions)

The grilles must be ordered separately, see leaflet no. T 1.1/1/D/... (free area: min. 50 %).



Assembly

Active chilled beams type DID-E are ideal for installation into a formed plaster board bulkhead, as in the vestibule areas of hotel bedrooms, individual hospital wards and cellular offices. The assembly is hung from the ceiling slab using metal hangers or screwed rods locating in the suspension holes in the unit. All hanging systems must have a Building Authority certificate of approval.

The plaster bulkhead must have an opening in its base for the induced air. The induction aperture cover must have at least 50 % free area e.g. perforated plate. Trox can supply an induction spigot and return air grille as accessories, these are recommended to be used. The vertical face of the bulkhead must have a discharge opening. For optimum air supply into the space Trox discharge spigot and supply air grille should be used.

