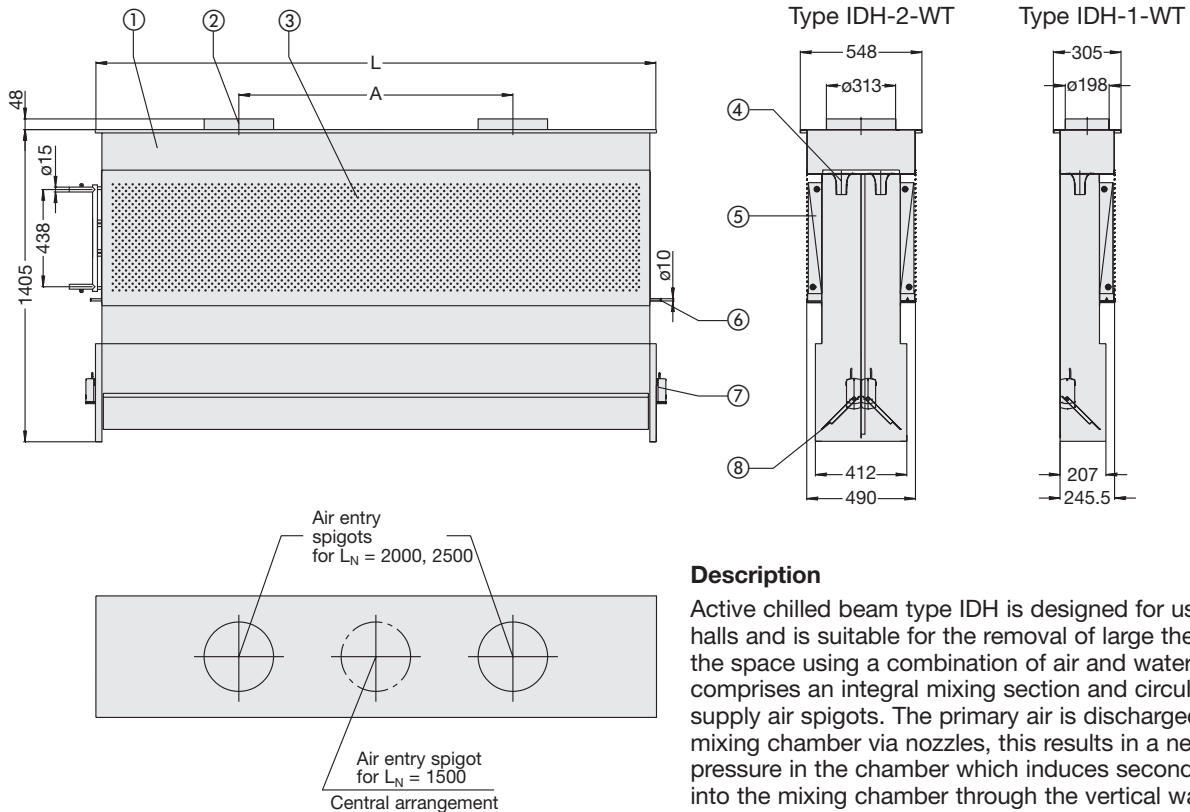


Product information Active chilled beams Type IDH

PI/2/20.1/EN/1

Dimensions



- ① Casing
- ② Primary supply air spigot
- ③ Perforated sheet steel induction grille
- ④ Primary air discharge nozzles
- ⑤ Coil (connection diameter 15 mm)
- ⑥ Condensate drip tray with condensate pipe (pipe Ø 10 mm)
- ⑦ Electric actuator
- ⑧ Adjustable air deflection blade

L _N (mm)	L (mm)	A (mm)	Number of primary air spigots
1500	1530	–	1
2000	2030	835	2
2500	2530	1235	2

Description

Active chilled beam type IDH is designed for use in large halls and is suitable for the removal of large thermal loads in the space using a combination of air and water systems. It comprises an integral mixing section and circular primary supply air spigots. The primary air is discharged into the mixing chamber via nozzles, this results in a negative pressure in the chamber which induces secondary room air into the mixing chamber through the vertical water coils thus cooling or heating the secondary induced air. This is then mixed with the primary air and discharged into the space.

In the cooling mode the total air volume is discharged via air deflection blades which can be set to provide a horizontal or angled discharge into the space.

In the heating mode the electric actuator is set to open the air deflection blades thus providing a vertically downwards discharge.

The coil inlets are covered with a special perforated sheet metal facing. There are condensate trays below the coils. For installation the units can be suspended using the slotted holes provided in the top flanges of the casing.

Material

Casing, discharge section, mixing chamber and air deflection blades and perforated induction grilles are all galvanised sheet steel.

The primary air nozzles are from aluminium, the coils have copper pipes with formed aluminium fins.

Casing standard finish is galvanised, on request powder coated white (RAL 9010) or black (RAL9005).

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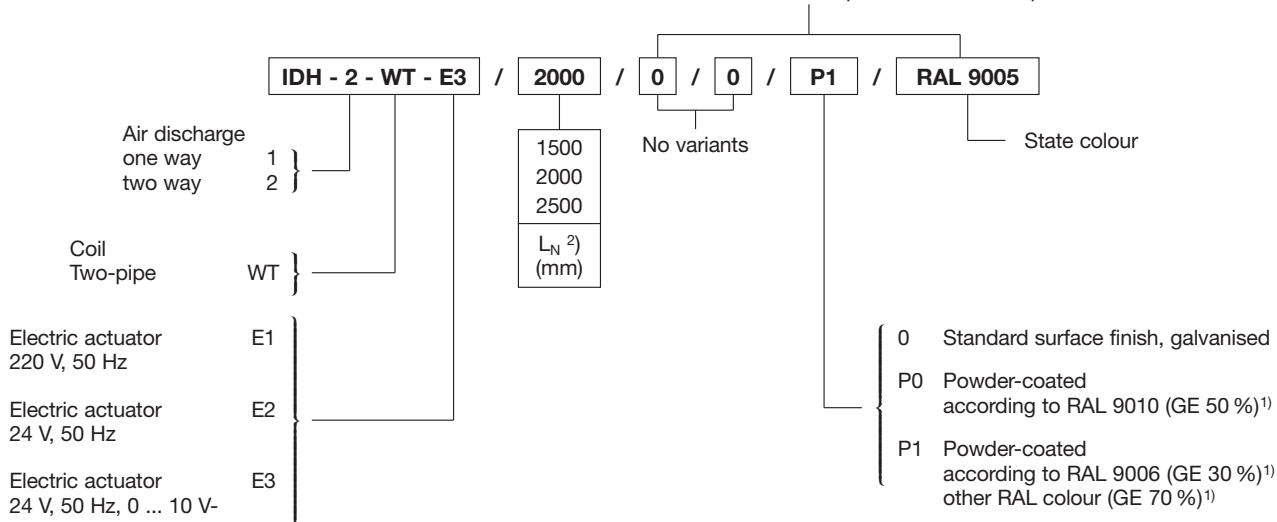
Product information Active chilled beams Type IDH

PI/2/20.1/EN/1

Technical Data for $L_N = 2500$ mm	Type IDH-1	Type IDH-2
\dot{V}_{Pr} in m ³ /h: Primary supply air volume flow rate	1000	2000
\dot{V}_I in m ³ /h: Induction air volume flow rate	2000	4000
\dot{V}_{Zul} in m ³ /h: Total air volume flow rate	3000	6000
Δt_{Pr} in K: Temp. difference between room t_R and primary air t_{Pr}	9	9
Δt_W in K: Water temperature difference	5	5
\dot{V}_W in l/h: Water volume flow rate	1280	2560
\dot{Q}_{ges} in kW: Total capacity	9.4	18.8

Order code

These codes do not need to be completed for standard products



1) GE = Gloss level
2) L_N 1500 = 1 air entry spigot (central)
 L_N 2000 and 2500 = 2 air entry spigots

Order example

Manufacture: TROX
Type: IDH-2-WT-E3/2000/P1/RAL9005