

▶ **Efficient indoor  
climate** ▶▶  
with X-BEAM air-water systems



## ► DID 614 Active chilled beam ►►

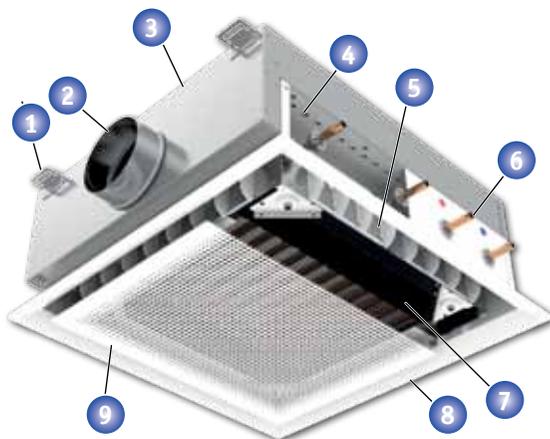
### DID 614 – High capacity, attractive design

The new Type DID 614 active chilled beam with four-way air discharge is equipped with a horizontal heat exchanger; due to five nozzle variants and a choice of various water connections the beam can be ideally adapted to project-specific requirements. DID 614 features an induced air grille with decreasing apertures towards the edges that blends in nicely with the ceiling.

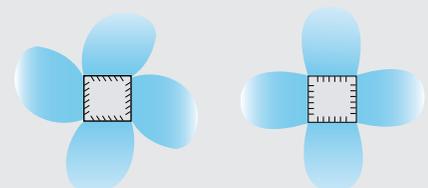
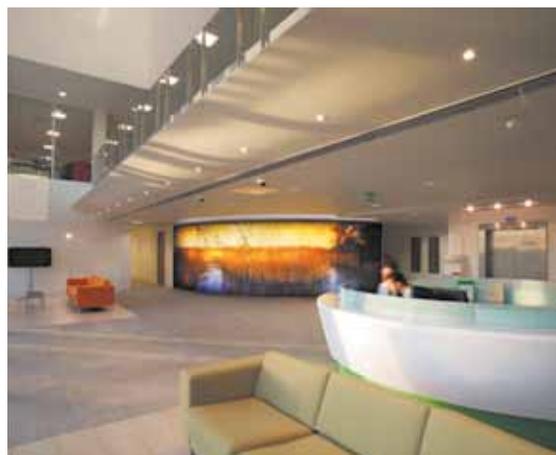
- Powerful yet quiet
- Large volume flow rate range
- Removable induced air grille (no tool required) with visually appealing perforation
- 5 nozzle variants
- Wide area of application, high degree of flexibility due to the adjustable twin nozzles
- Optional air control blades help to achieve high levels of comfort even where complex requirements have to be met, e.g. close to a wall



- ◀▶ L: 593, 598, 618, 623, 1193, 1198, 1243, 1248 mm  
B: 593, 598, 618, 623 mm · H: 230, 245 mm
- ➔ 8 – 83 l/s · 30 – 300 m<sup>3</sup>/h fresh air
- ☀ Up to 2170 W
- ⊙ Up to 3000 W



- 1 Hanging bracket
- 2 Primary air spigot
- 3 Casing
- 4 Nozzle plate with punched nozzles
- 5 Adjustable air control blades (optional)
- 6 Water connections
- 7 Heat exchanger
- 8 Front frame
- 9 Removable induced air grille



*Individually adjustable discharge direction with the optional air control blades*

## ► DID 642 Active chilled beam ►►

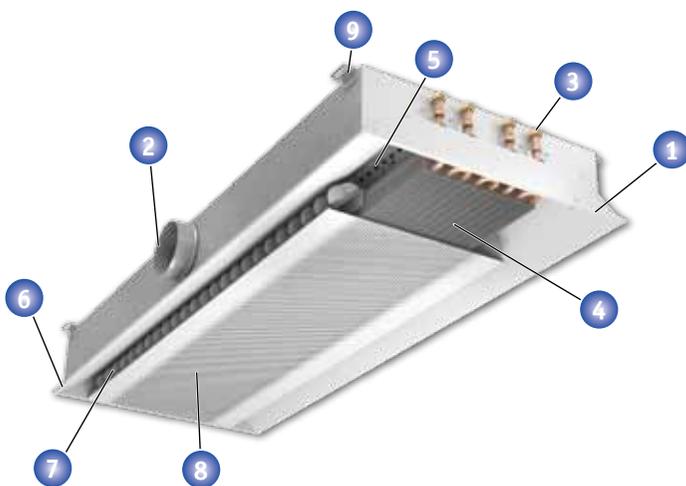
### DID 642 – Super flat

The new Type DID 642 active chilled beam is impressive because of its slim construction and the induced air grille with decreasing apertures towards the edges. A horizontal heat exchanger combined with a profiled nozzle plate allows for a very slim construction. Air discharge is two-way, and the new nozzles cause fewer pressure losses and allow for a broader range of applications. The beam can be installed in continuous plasterboard or grid ceilings, but free hanging installation with an optional extended border is also possible.

- Construction height from only 170 mm
- Powerful yet quiet
- Hinged induced air grille with decreasing apertures towards the edges
- Can be combined with control systems such as X-AIRCONTROL
- Ideal for continuous plasterboard ceilings or for grid ceilings with grid size 600 or 625
- Free hanging variant can be fitted with building services, e.g. lighting, speakers, sprinklers, smoke detectors or PIR sensors



- ◀▶ L: 893 - 3000 mm
- B: 593, 598, 618, 623 mm · H: 170, 205 mm
- ➔ 10 - 125 l/s · 36 - 450 m<sup>3</sup>/h fresh air
- ❄ Up to 3100 W
- Up to 2330 W



- ① Casing
- ② Primary air spigot
- ③ Water connections
- ④ Heat exchanger
- ⑤ Nozzle plate with punched nozzles
- ⑥ Front frame
- ⑦ Adjustable air control blades (optional)
- ⑧ Hinged induced air grille
- ⑨ Hanging bracket



## ► Air for the people – water for the loads ►►



*TROX induction units are certified by Eurovent (no. 09.12.432) and listed on the Eurovent website*



*TROX EASY PRODUCT FINDER – sizing made quick and easy, with more information such as 2D and 3D CAD data*

X-BEAM air-water systems are used in many modern buildings today and offer energy-efficient solutions for the ventilation and air conditioning of internal spaces, especially in office and administration buildings. The great variety of installation options for air-water systems means that for virtually every building even the most demanding architectural requirements can be met.

### **X-BEAM. Strong advantages.**

- **Efficient space utilisation** Air-water systems use comparatively small airflows such that only smaller ducts are required.
- **Architectural design options** Units for installation in floors, ceilings or walls/façades ensure that the best solution for each project can be found.
- **High flexibility with change of use** Thanks to the modular configuration of air-water systems it is possible to change the use of a building at a later stage without changes to the installation.
- **Conservation of existing structures** Air-water systems are ideal for the refurbishment of existing buildings and for retrofits.

A comfortable indoor climate can be achieved with all the systems listed here. They offer the best possible solution with regard to the structure, function and use of different types of buildings. The interaction of air and water is based on the specific thermal needs of each internal space.



## ▶ Product overview ▶▶

### ↙ Ceiling, integrated

Type DID 312



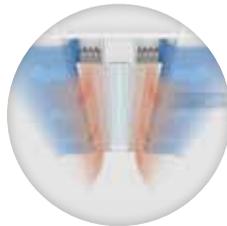
- ◀▶ L: 893 – 3000 mm
- B: 293, 300, 312 mm
- H: 210, 241 mm
- ➡ 5 – 70 l/s · 18 – 252 m<sup>3</sup>/h fresh air
- ❄ Up to 1830 W
- 🌀 Up to 1240 W

Type DID 642



- ◀▶ L: 893 – 3000 mm
- B: 593, 598, 618, 623 mm
- H: 170, 205 mm
- ➡ 10 – 125 l/s · 36 – 450 m<sup>3</sup>/h fresh air
- ❄ Up to 3100 W
- 🌀 Up to 2330 W

Type DID 600B-L



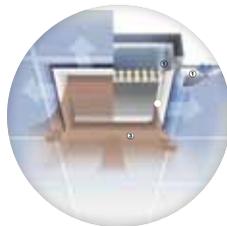
- ◀▶ L: 1493 – 3000 mm
- B: 593 mm
- H: 210 mm
- ➡ 3 – 43 l/s · 11 – 155 m<sup>3</sup>/h fresh air
- ❄ Up to 1515 W
- 🌀 Up to 1780 W

Type DID 604



- ◀▶ L: 593, 598, 618, 623, 1193, 1198, 1243, 1248 mm
- B: 593, 598, 618, 623 mm
- H: 230 mm
- ➡ 6 – 50 l/s · 22 – 180 m<sup>3</sup>/h fresh air
- ❄ Up to 1330 W
- 🌀 Up to 1250 W

Type DID 614



- ◀▶ L: 593, 598, 618, 623, 1193, 1198, 1243, 1248 mm
- B: 593, 598, 618, 623 mm
- H: 230, 245 mm
- ➡ 8 – 83 l/s · 30 – 300 m<sup>3</sup>/h fresh air
- ❄ Up to 2170 W
- 🌀 Up to 3000 W

Type DID-R



- ◀▶ Ø: 598 mm
- : 593, 598, 618, 623 mm
- H: 250 mm
- ➡ 12 – 25 l/s · 43 – 90 m<sup>3</sup>/h fresh air
- ❄ Up to 560 W
- 🌀 Up to 500 W

## Ceiling, free hanging/bulkhead

Type DID-E



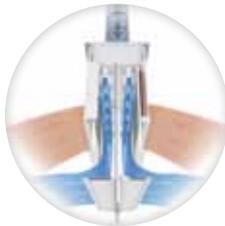
- ◀▶ L: 948, 1248, 1548 mm
- B: 550, 614 mm
- H: 200 mm
- ➡ 10 – 78 l/s · 36 – 281 m<sup>3</sup>/h fresh air
- ❄ Up to 1730 W
- ⊕ Up to 1480 W

Type SMARTBEAM



- ◀▶ L: 4500 – 5200 mm
- B: 750 mm
- H: 291 mm
- ➡ 8 – 33 l/s · 30 – 120 m<sup>3</sup>/h fresh air
- ❄ Up to 1000 W
- ⊕ Up to 750 W

Type IDH



- ◀▶ L: 1500, 2000, 2500 mm
- B: 305, 548 mm
- H: 1405 mm
- ➡ Up to 555 l/s · 2000 m<sup>3</sup>/h fresh air
- ❄ Up to 27 kW
- ⊕ Up to 17 kW

## Under sill / wall

Type QLI



- ◀▶ L: 975, 1275, 1575 mm
- B: 195 mm
- H: 729 mm
- ➡ 4 – 50 l/s · 14 – 180 m<sup>3</sup>/h fresh air
- ❄ Up to 1000 W
- ⊕ Up to 750 W

Type IDB



- ◀▶ L: 643, 943, 1243 mm
- B: 155 mm
- H: 555 – 605 mm
- ➡ 4 – 40 l/s · 14 – 144 m<sup>3</sup>/h fresh air
- ❄ Up to 950 W
- ⊕ Up to 470 W

## Floor

Type BID



- ◀▶ L: 1100 – 1849 mm
- B: 403 mm
- H: 191 mm
- ➡ 4 – 40 l/s · 14 – 144 m<sup>3</sup>/h fresh air
- ❄ Up to 1030 W
- ⊕ Up to 1225 W

## ► Complete system solutions ►►

TROX is known the world over for its products, expertise and excellent quality. TROX provides complete, highly efficient ventilation and air conditioning systems from air handling units to air terminal devices as well as fire protection and smoke control solutions for each type of building, whether new or refurbished. And each solution comes with dedicated TROX controls.

TROX products and systems can be found in many types of buildings all over the world.

- Railway stations and airports
- Office buildings
- Restaurants
- Hotels
- Production facilities and labs
- Hospitals
- Concert halls
- Exhibition halls
- Museums
- Ships
- Schools and universities
- Stadiums and gymnasiums
- Tunnels





**TROX<sup>®</sup> TECHNIK**  
The art of handling air

**TROX GmbH**

Heinrich-Trox-Platz  
47504 Neukirchen-Vluyn  
Germany  
Phone +49 (0) 2845 2020  
Fax +49 (0) 2845 202666  
[www.troxtechnik.com](http://www.troxtechnik.com)  
[trox@trox.de](mailto:trox@trox.de)