



WAAB

MAXIMUM COMFORT, MINIMUM CONSUMPTION

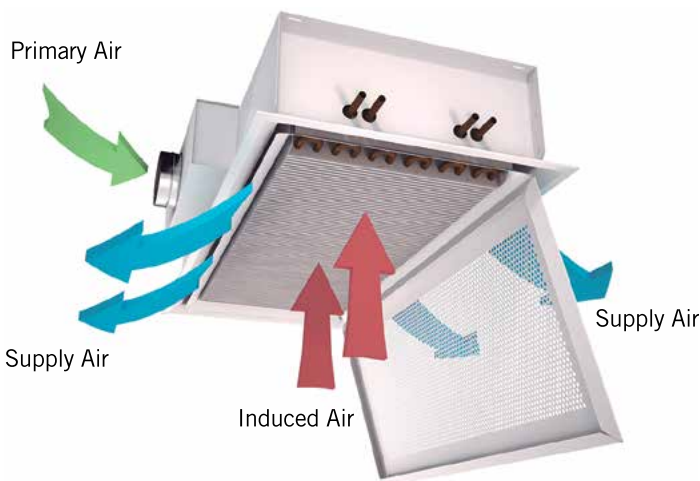


M A D E L[®]

we shape the air

WAAB

THE BEST CLIMATE CONTROL SOLUTION WITH THE LOWEST ENERGY CONSUMPTION



An active chilled beam is an air-water induction terminal which works jointly to guarantee indoor air quality and suitable for cooling as well as heating.

The chilled beams make use of the outstanding thermal properties of water to guarantee an optimal level of comfort with minimum energy consumption.

High thermal capacity is achieved thanks to its induction principle. Once conditioned in a treatment unit, the fan air is expelled through induction nozzles. This creates a pressure drop which forces the air in the premises to pass through the water battery, where the required air-water heat exchange takes place.

BENEFITS OF A CHILLED BEAM FACILITY

- » No need for fan.
- » No need for air filter.
- » No need for condensation tray.
- » Reduced maintenance costs.
- » High acoustic comfort.
- » High thermal comfort; air impulsion direction and flow can be adjusted.
- » No refrigerant gases in the facility.
- » High flexibility in the event of change of activity in the premises.
- » High energy efficiency.
- » Chilled beam systems produce **energy savings** of around 22% compared to a fan coil installation.

WAAB SERIES CHARACTERISTICS



- » 300 to 600 mm wide, suited to modular ceilings.
- » 595 mm to 2995 mm long.
- » 220 mm high for assembly in low-level false ceilings.
- » Can be supplied with impulsion air and return air connection.
- » » » Regulation of the working primary air flow, thanks to its nozzle type selection mechanism. This means the primary air flow can be readjusted in the facility whenever there is a change in the project specifications.
- » Fitted with baffles to readjust the impulsion air direction. This adjustment can be carried out individually in a range from 0 to 45°.
- » » Different front plates drilled with circular or square holes or linear grille..

THERMAL, ACOUSTIC & DIFFUSION TESTS



The WAAB chilled beam range is characterised through thermal, acoustic and air diffusion testing in accordance with specific product standards.

The chilled beams are Eurovent-certified.



COMPLETE INSTALLATION

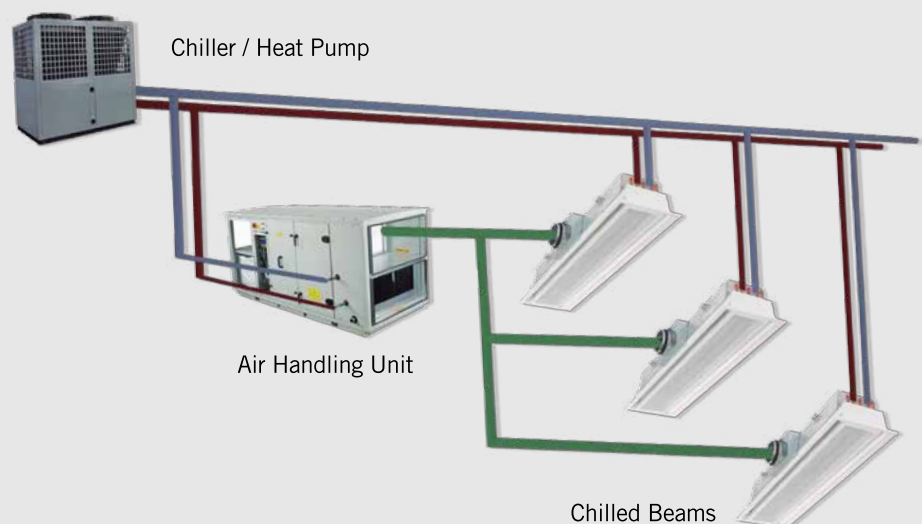
A chilled beam facility is made up of a heat pump or energy production unit, an air treatment or heat recovery unit, and a control system.

The energy production unit supplies water to the air treatment unit and to the chilled beams.

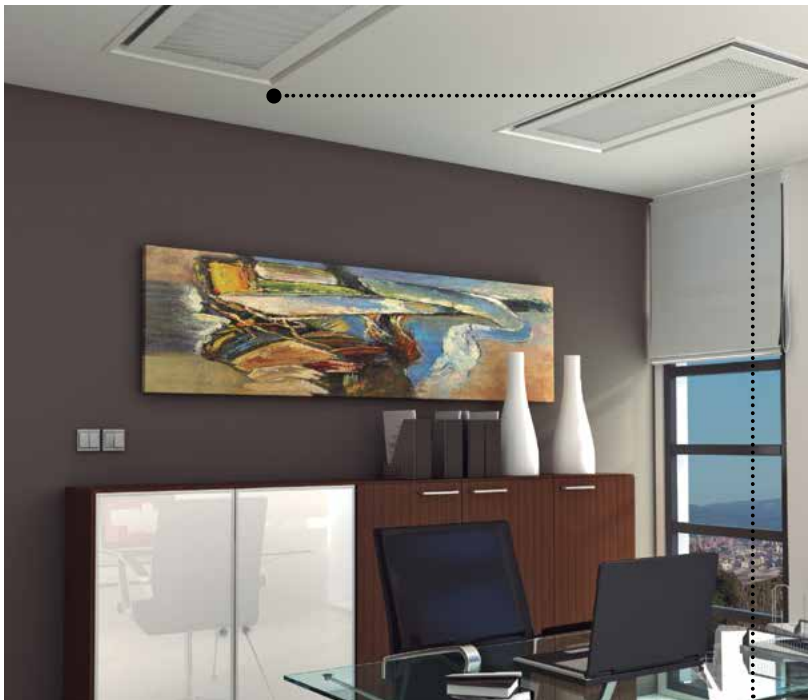
The air treatment unit supplies primary air to the chilled beams.



COMPLETE INSTALLATION DIAGRAM



IDEAL APPLICATIONS FOR WAAB BEAMS



OFFICES



HOTELS/HOSPITALS



LIBRARIES



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