



Chilled Beam OKNB

- ▶ Ventilation, cooling and heating
- ▶ For bulkhead mounting
- ▶ Minimal height
- ▶ Closed type
- ▶ Low energy

Design:

Casing:
material: steel
treatment: galvanised
sendzimir

Ceiling diffuser:
material: steel/aluminium
finish: epoxy powder
colour: white RAL 9010

Wall diffuser:
material: aluminium
finish: epoxy powder
colour: white RAL 9010

Coil:
tubes: copper
fins: aluminium
working/test pressure: 10/15 bar

Available types:

O K N B - - -

O chilled beam
K closed type
N ventilation and cooling
B bulkhead unit

- **type**
400

- **model**
1000

- **nozzle**
L1 to L8

For full order code see page 463.

Certification:



Remarks:

The dimensions are given in mm.
The (empty) weight is 28 kg.

Application:

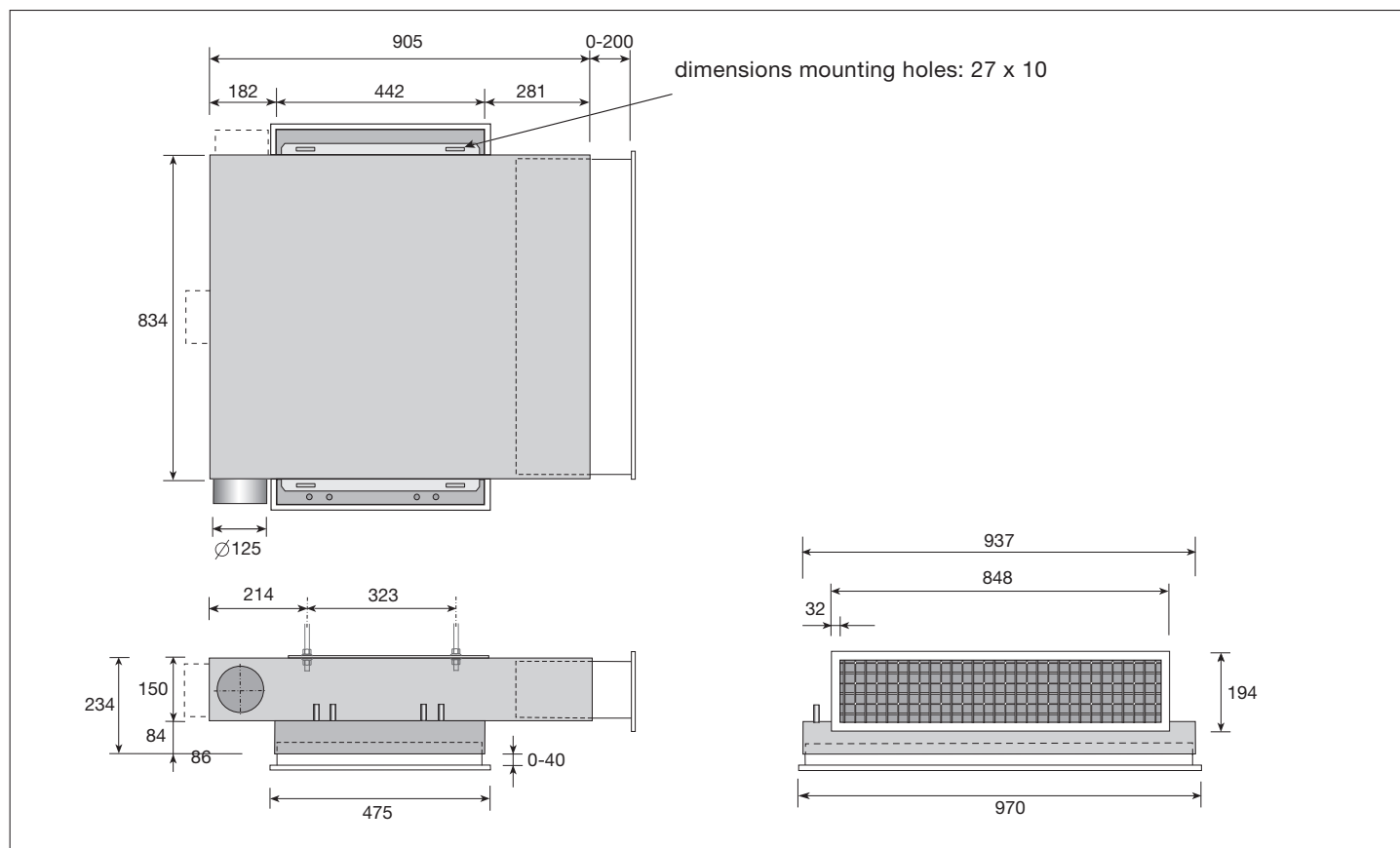
The OKNB chilled beam is a high capacity device designed for ventilation, cooling and heating of areas with ceiling heights up to 3 metres.

The unit has been designed for bulkhead installation. To provide a highly efficient low energy solution to comfort condition rooms. The OKNB is ideal for hotel bedroom and hospital patient room application.

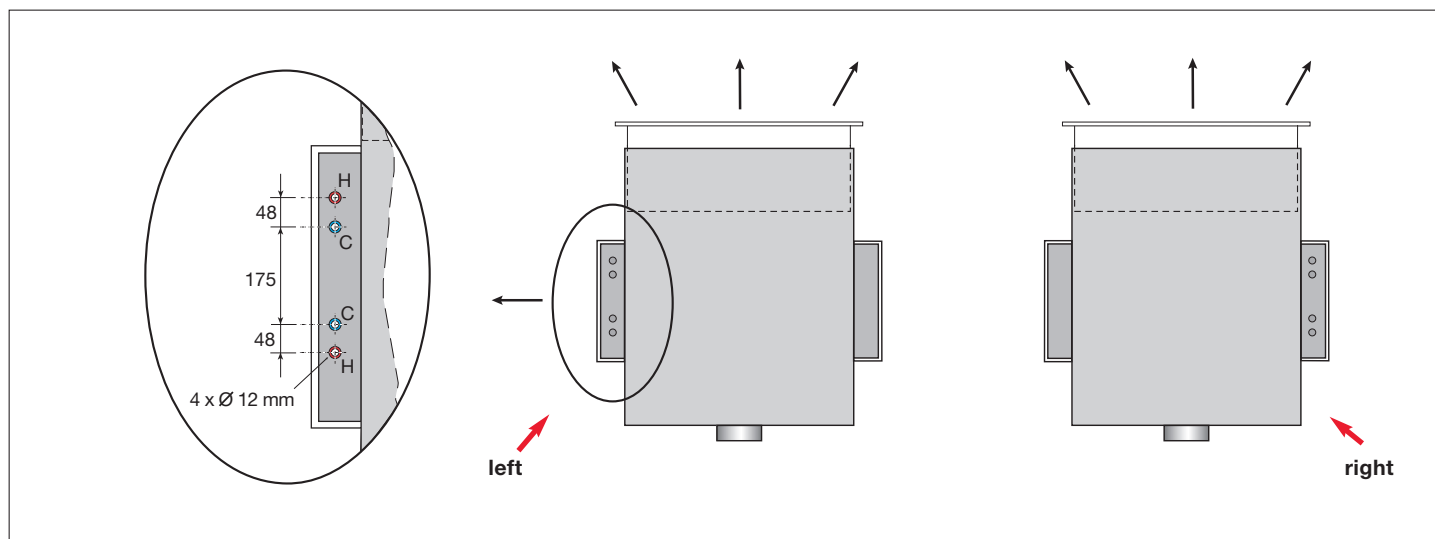
In order to obtain an efficient combination of ventilation and cooling capacity, three different nozzle types are available.

The return grille is removable for cleaning purposes.

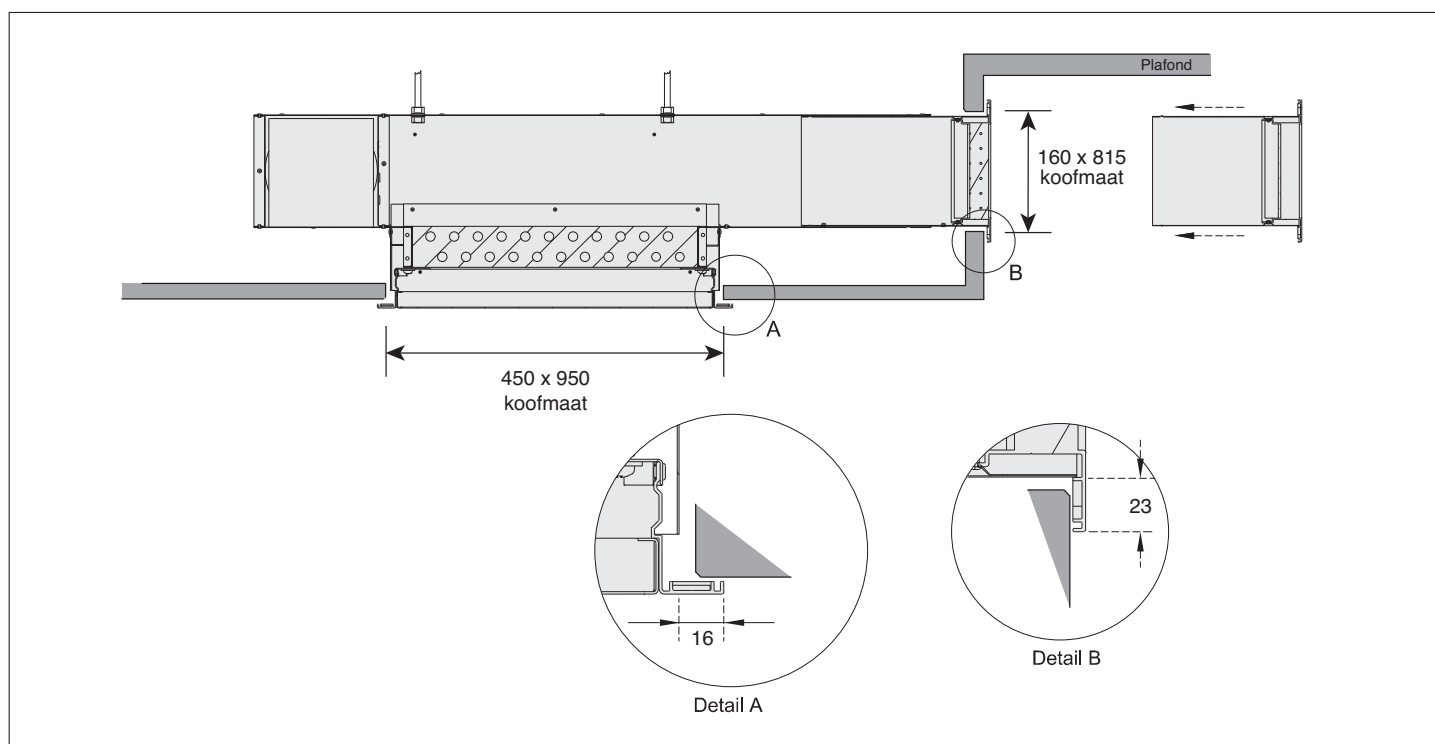
Dimensional data:



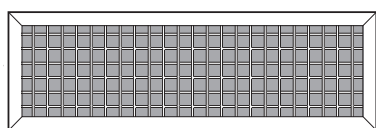
Position of water connections OKNB (top view):



Position of air connection OKNB (top view):

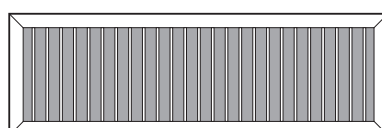


Supply grilles:



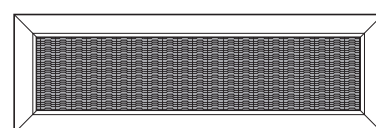
double deflection:
(option D)

Aluminium double deflection diffuser with horizontal and vertical adjustable vanes. Finish RAL 9010.



single deflection:
(option U)

Aluminium single deflection diffuser with horizontal or vertical adjustable vanes. Finish RAL 9010.

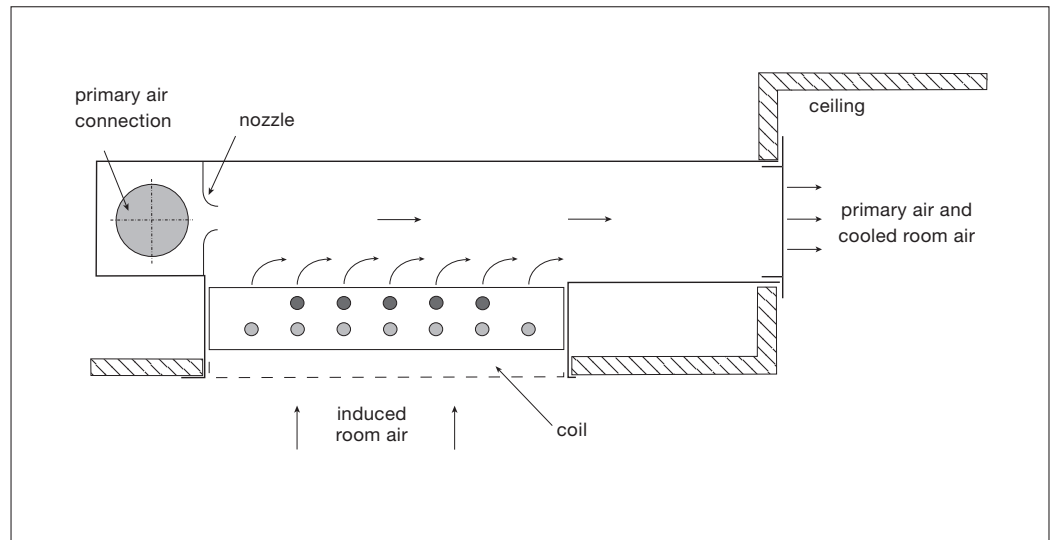


high induction:
(option W)

High induction diffuser with very short throw. Frame is aluminium. Core is steel. Finish RAL 9010.

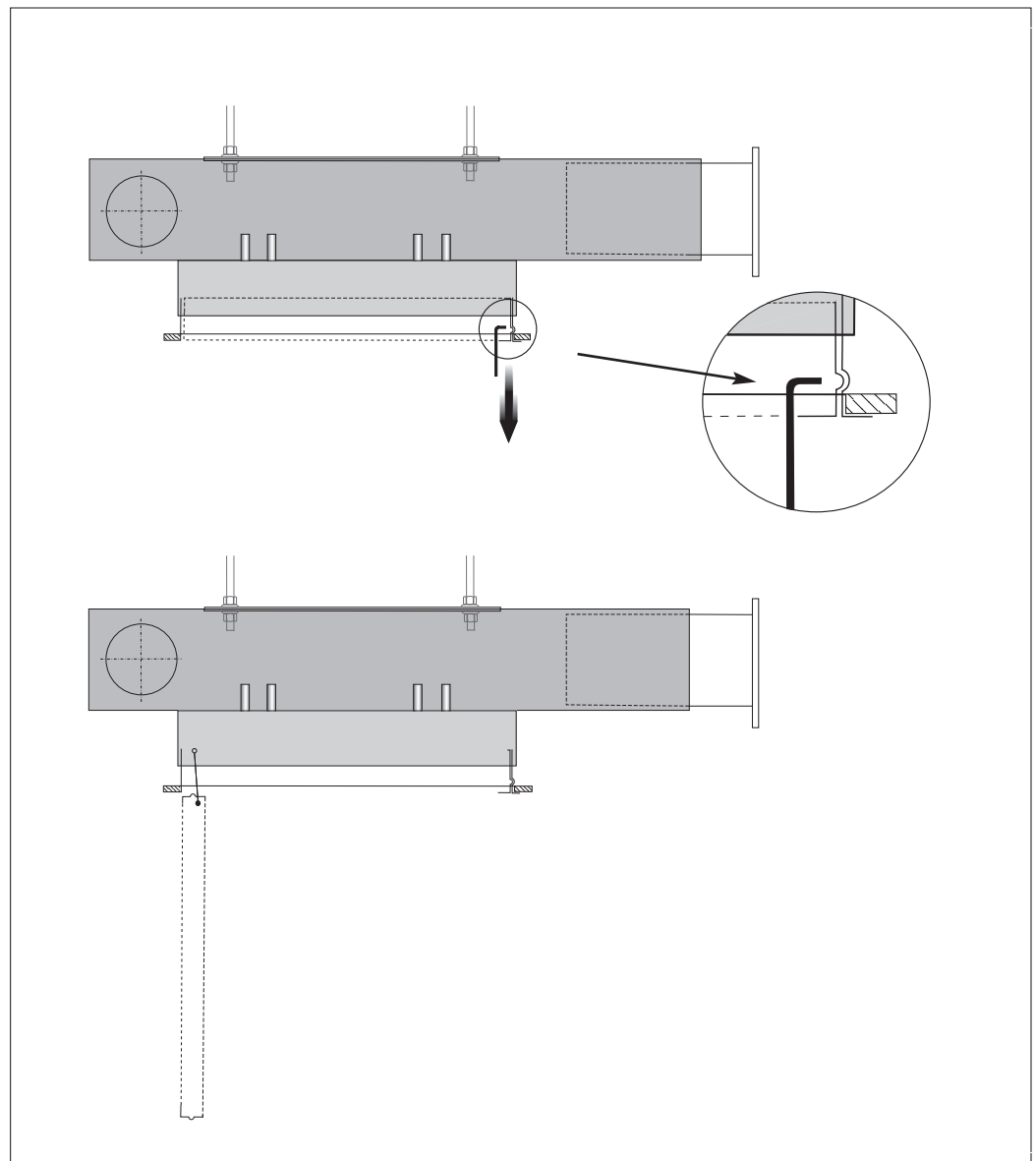
System technology:

The primary air is supplied through the nozzles at a very high velocity. This results in a strong induction effect which causes a flow of room air over the coil via the return air faceplate. The combined primary air and room air is then directed through the wall diffuser and supplied to the room. Whilst passing over the coil the air can be either cooled or heated, depending on the requirements in the room.



Maintenance of the middle segment:

The perforated front is mounted with a snap-fit connection. To pull down the perforated front use a small allen key that fits through the perforated holes. The perforated front can be pulled down from the corners. The perforated front is secured by wires on one side by drop cords to prevent it from dropping on the floor.



General:

For optimum performance of the OKNB it is crucial to ensure the duct connection to the beam is correct. Any reduction or increase in supply duct size must be a minimum length of 3 times the diameter prior to the spigot.

Order and option codes:

OKNB 400/1000	L6 K 1	A L 3 O	D O O	0 x 0	9010 55
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Nozzle _____
L1 - L3 - L6 - L8

Coil _____
K cooling only
V cooling and heating

Air pattern _____
1 1-way (standard)

Air connection position _____
A front
L left
R right

Water connections _____
L left
R right

Air connection _____
3 125 mm (standaard)

Plenum _____
O standard

Supply grille _____
A single deflection (horizontal WUAA)
U single deflection (vertical WUBA)
D double deflection (WUCA)
W high induction (WTHA)
O none

Edge _____
O not applicable

Flow Pattern Control _____
O not applicable

Actual width _____
0 see drawing on page: 460.

Actual length _____
0 see drawing on page: 460.

RAL colour _____
9010 (standard)

Gloss _____
55% (standard)

6

Position of air and water connections:

