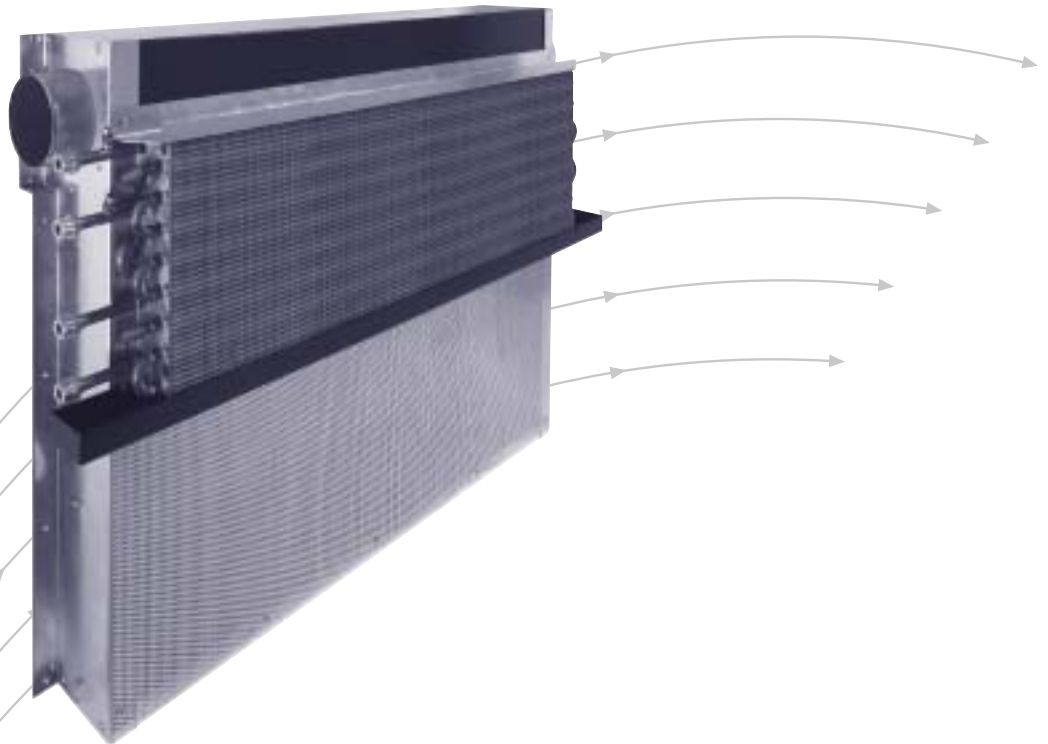


Induction Type Displacement Flow Diffuser

- Type QLI
- With Water Coil



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Air flow pattern: Cooling operation



Air flow pattern: Heating operation without primary air



Air flow pattern: Heating operation with primary air

Description

QLI induction type displacement flow diffusers with water coil are used in air/water air-conditioning systems. They combine the advantages of low-turbulence displacement flow diffusers with the energy benefits of using water as the main cooling medium.

The primary fresh air volume flow rate required is supplied through a circular duct containing nozzles. The secondary air induced into the unit from the room passes through a water coil where it is either cooled or heated.

In the mixing zone of the QLI the secondary air is mixed with the primary air and discharged to the room through a perforated plate and then a grille located in the covering case.

Caution!

For units without condensate tray the chilled water flow temperature must be selected such that it never falls below room dewpoint.

Because of its compact design the induction type displacement flow diffuser QLI is particularly suitable for mounting on perimeter walls under windows with a suitable covering case. The diffusers can be used in new buildings and are also a preferred option in refurbishment projects.

The covering case can be designed to meet the requirements of the interior decor, but the minimum distances as shown in the sketches on page 4, must be complied with.

As any additional pressure drop can reduce the induction, the grille installed in the covering case must have minimum dimensions such that the free area is $\geq 50\%$.

Induction grille top:	W = 150 mm
Induction grille side-mounted:	H = 250 mm
Discharge grille:	H = 350 mm

