

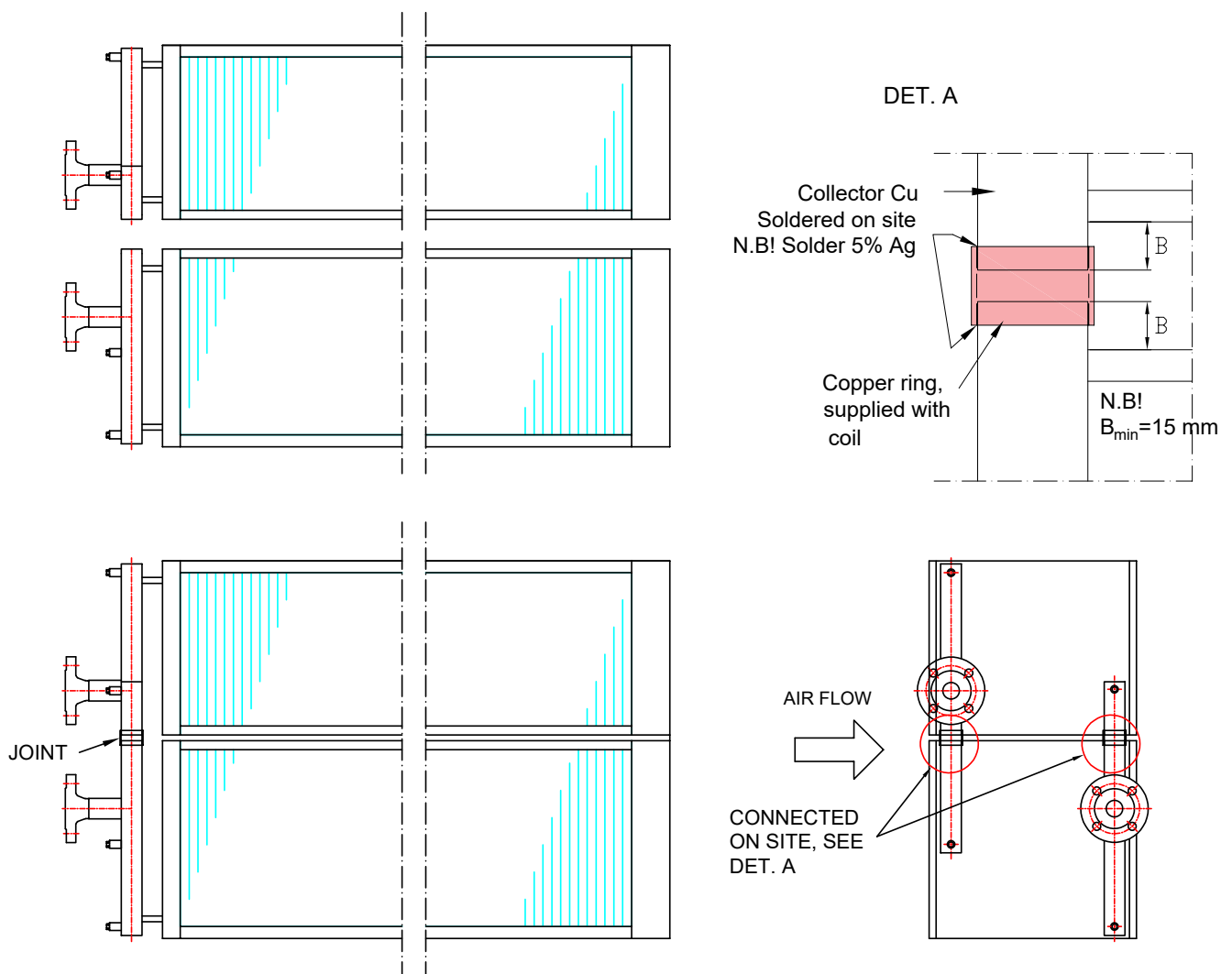
# RENOVATION-COMPATIBLE HEAT EXCHANGER COIL

## General Information on Replacing Heat Exchanger Coils

Replacing coils in large ventilation units during renovation projects is challenging. The coils are often taller than access doors, and the transport routes are narrow. To solve this issue, a modular coil has been developed that can be delivered in multiple sections and easily assembled. Regardless of the size or number of modules, the coil features one inlet and one outlet connection located on the same side of the unit. The coil can be designed for heating, cooling, or heat recovery purposes. The external dimensions of the modular coil can be freely selected. A two-stage heat recovery supply coil can also be delivered in modular form. This design helps prevent frosting of the exhaust coil and protects the heat transfer fluid from freezing down to an outdoor temperature of  $-40^{\circ}\text{C}$ . The coil structure and technical basis for frost prevention are presented in the document "Defrost control using 2-stage-supply coils" at <https://www.taniplan.fi/en-gb/heat-transfer-coils>.

## Structural Principle of the Modular Coil

The coil is delivered in two or more vertically stackable modules (see image below). The delivery includes copper connection rings used to solder the collector and distributor headers together on-site (Detail A). This connection method applies only to coils made of copper tubing. Modules made of stainless or acid-resistant steel are equipped with flange connections. In practice, 2–4 modules can be stacked. The width and height of the coil can be customized to match the external dimensions of the old coil.



# TANIPLAN OY

Kylätie 18 B 20 00320 Helsinki  
Tel. 0500 426631  
Email [info@taniplan.fi](mailto:info@taniplan.fi)  
Web pages [www.taniplan.fi](http://www.taniplan.fi)