**Specifications of the LDI**

**1 - Description and physical characteristics**

1.1 The LDI helical air jet diffusers shall be manufactured in steel. The square or round diffuser shall be supplied with adjustable blades to guide the air.

1.2 The diffuser shall be designed with a outlet cone which favors a horizontal airflow on 360 degree even in a freely suspended diffuser.

1.3 The diffuser shall be powder coated with a polyester TGIC-free paint, providing a smooth, easy-to-clean, chip and fade resistant finish. The architect or client shall choose a standard colour from the RAL colour chart.

**2 - Performances**

2.1 The performance of the diffusers shall be guaranteed with the help of diagrams which indicate the loss of pressure, the acoustic pressure generated, the nominal speed in the occupied zone, the airflow trajectory according to the initial temperature differential in heating mode, isothermal mode and in cooling mode in the critical areas.

**3. Installation**

3.1 The diffuser shall be mounted on a circular duct or on a galvanised steel plenum supplied by the manufacturer.

3.2 Balancing key

 When provided with plenum, and when required, the plenum will be provided with a radial balancing key for adjusting the flow rate between 0% and 100%.

**4. Balancing**

4.1 The balancing of the NAD Klima LDI diffusers shallbe executed by a certified ventilation system balancing technician with a recognised professional qualification.

**5 - Quality required: NAD Klima, LDI model.**