**Specifications of VAL**

**1 - Description and physical characteristics**

1.1 The adjustable VAL diffusers shall consist of a circular duct with three (3) rings which guide the airflow with a manual or motorized adjustment mechanism.

1.2 The adjustment mechanism shall be composed of a deflector, a reduction ring and an adjustable control dial.

1.3 The circular duct, deflector and reduction ring shall be of galvanised steel with a black finish.

1.4 Rings and control dial shall be in aluminum with a white (RAL 9003) finish.

**2 - Performance**

2.1 The performance shall be guarantee by using performance curves or simulation software for critical areas. These shall indicate the loss of pressure and the acoustic power generated and shows a cross-section of the critical airflow trajectory in cooling mode and in heating mode or in isothermal mode with a nominal speed in the occupied zone at the request of the engineer.

**3 - Connection**

3.1 The diffuser shall be connected directly to the air duct.

**4 - Balancing**

4.1 The balancing of NAD Klima diffusers shall be executed by a certified ventilation balancing technician with a recognised professional certification.

**5 – Required quality: NAD Klima VAL model**