

HL-RB Specifications

Air return grill for clean rooms with turbulent air flow

1. General

This description sets out the requirements for the design, manufacture, supply and installation of an air return grill suitable for use in clean rooms with turbulent or unidirectional air flow. The unit is designed for air extraction and equipped with pre-filters and/or fine filters.

2. Application

The extraction grill is designed for installation in walls, corners or the ceiling of the room. It may comprise 1 or 2 filter levels and is suitable for various applications where it is important to keep extraction ducts clean or to pre-filter recirculated air.

3. Materials and construction

The return grill is made of galvanised steel, with a RAL9010 epoxy paint finish baked in an oven for a durable and hygienic finish.

The extraction grill is equipped with a hinged front grill, consisting of 20x20 mm openings for maximum open/free surface area. The grill is equipped with magnets for tool-free opening/closing and for easy maintenance and filter replacement.

It is suitable for pre-filters and fine filters with a thickness of 45/48 mm.

4. Functionality and performance

The return grill is equipped with a pressure tap for monitoring pressure drop.

It is supplied on its own for integration into a building plenum or can be supplied with a (corner) plenum equipped with 1 or 2 circular connections, or a plenum with a lateral or axial circular connection.

5. Options

- Pre-filter in the front grill.
- Manual control register (assembled), adjustable from the room.
- Corner plenum, with 1 or 2 circular connections, wall or ceiling mounted with side or axial connection (pre-assembled).
- Version in AISI 304L.
- Specific RAL colour (RAL9016) available on request.
- Perforated front grill in R4T7 or R6T8

6. Quality assurance

The air extraction grill must comply with the standards and directives in force for clean room technology.

This technical description may be adapted and supplemented according to the specific requirements and wishes of the customer.

