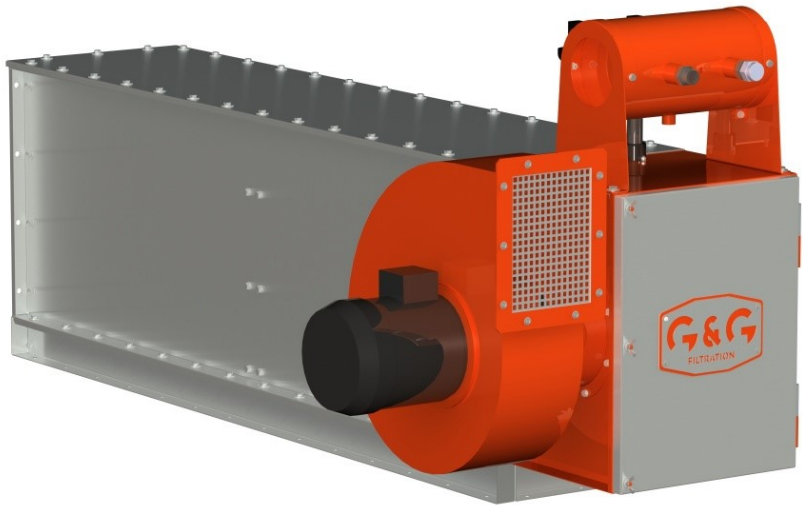
Local dust collector with regeneration by compressed air

G&G Local JET 4-3-20-H



order number	**Local JET 4-3-20-H**
filter design	**horizontální / horizontal**
type of filter media	**flat filter hose**
filter area	**8,4 m^2**
single element area	**0,7 m^2**
number of filter hoses	**12 ks / 12 pcs.**
length of filter hoses	**2000 mm**
type of regeneration	**JET system**
compressed air consumption	**3 Nm3 (4 bar)**
temperature resistance	**150°C**
waste bin	**back to the conveyor**
design for EX	**for explosive dust**
suction power	**1200 m3/h**
fan pressure	**2000 Pa**
motor power	**1,5 kW**
filter weight	**201 kg**
material	**11 375 + Zn**

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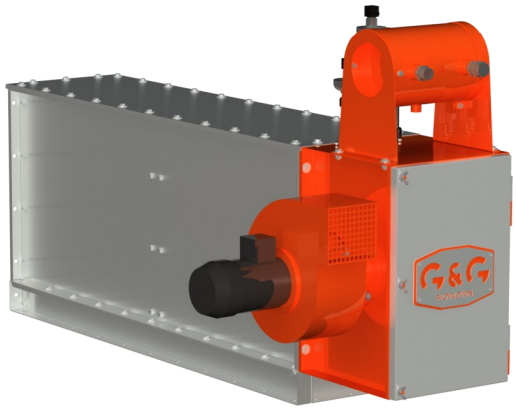
Description G&G Local JET

The G&G Local JET filter unit is a filter unit equipped with automatic regeneration of filtering medium using compressed air. Based on experience from individual applications using local filter units, the filtering medium has a service life of more than 10,000 operating hours without the need for any manual re-cleaning. The filter medium is a flat, smooth non-woven sleeve with a basis weight of 550 g/m2. The filter medium does not contain creases in which dust will settle and is very mechanically resistant to tearing or abrasion. The value of residual dust particles on the outlet is in the range of 1 - 3 mg/m3. The exhaust fan can be equipped with a circular silencer at the outlet to reduce the noise load from the filter device. The discharge of dusts is led back into the material path.

Use of G&G Local Jet

The G&G Local JET filter unit is designed for local dedusting of material transport routes such as redlers, screw conveyors and belt conveyors. The dust collected by the filter device falls from the filter directly into the area of the suction conveyor. The G&G Local JET filter keeps the conveyor spillage under moderate vacuum, preventing dust from spreading to the environment. Filtered dust falls back into the material transport path. The G&G Local JET does not have a dust hopper. Dust collected by filtration is always returned to the area from which they were extracted. The G&G Local JET filter units are assembled in modular series, enabling the delivery of filter units for exhaust rates from 600 m3/h to 9 000 m3/h. The performance of the filtering equipment is determined by the designer according to the application for which the filtering equipment is to be used. The size of the filtering equipment varies according to the width of the dedusted conveyors, according to the performance and concurrence of material transport or according to the conveying capacity and speed of the belt conveyors. The suction power of the filter is provided by a radial exhaust fan located on the clean side of the filter.

Types of filter



Horizontal type

Vertical type

Working conditions for G&G Local JET

The filtration device is designed for filtration of air mass with temperature -30° C to + 80° C in the version without thermal insulation and up to 150 ° C in the version with thermal insulation. The filter is designed for explosive dust, it is equipped with pressure-resistant housing and antistatic filter medium. The filter is not equipped with a relief membrane. The suction power is determined by the load factor of the filtering surface for the individual type of dust extracted.

Connecting G&G Local JET to grid

Electrical energy:

The filter unit is equipped with a regeneration control unit and an exhaust fan.

- For the regeneration control unit it is necessary to supply control voltage 230V 50 Hz (50W)
- The fan must be supplied with voltage 400V 50 Hz. Fan has power input 1,5 kW

Compressed air:

It is necessary to connect a compressed air connection to the filter device with parameters 3 Nm3/h, p= 4,0 bar, dry, filtered, dew point +5°C

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