

TECHNICAL DATA SHEET - G&G Bag HOUSE FILTER

Filter type:	G&G-Bag-HOUSE-13-14-127-45-A
Producer:	G&G filtration CZ, s.r.o.

Parameters of filtered gas

A1	Operating amount of filtered gas	19 700 m ³ /h
A2	Operating temperature	20 °C
A3	Amount of filtered gas (0°C)	18 360 Nm ³ /h
A4	Inlet dust concentration	300 g/m ³
A5	Operating pressure drop	1 200 Pa
A6	Maximum pressure drop	2 200 Pa

Filter media parameters

B1	Shape of filter medium	round hoses
B2	Type of filter medium	m-Aramid
B3	Density of filter medium	530 g/m ²
B4	Breathability filter media	300 mm/s @ 200 Pa
B5	Continuous temperature resistance	200 °C
B6	Momentary temperature resistance	220 °C

Filter equipment parameters

C1	Number of filter rods	182 ks
C2	Total filter area	327 m ²
C3	A/C parameter	1,00 m ³ /m ² /min
C4	Can velocity	1,22 m/s
C5	Flow from below the rods	19 700 m ³ /h
C6	Hose side flow	- m ³ /h
C7	Polluted gas input	<i>into the filter hopper</i>

Dimensions of the filter part

D1	X-axis filter size	2 581 mm
D2	Y-axis filter size	2 633 mm
D3	The gap between the individual rods	55 mm
D4	Gap between filter rods with filter walls	70 mm
D5	Gap between rods and hopper	100 mm

Filter media arrangement

E1	Orientation of filter rods	<i>vertical</i>
E2	Diameter of filter rods	127 mm
E3	Length of filter rods	4 500 mm
E4	Rods attachment	<i>snapping</i>
E5	Inlet nozzle shape	<i>venturi</i>

Regeneration system

F1	Number of regeneration valves	13 pcs
F2	Size of regeneration valves	1 1/2°
F3	Total compressed air consumption	33 Nm ³ /h
F4	Compressed air pressure	6 bar

Dimensions of the filtration device

G1	Total width of the filter	2 769 mm
G2	Total filter depth	2 821 mm
G3	Total filter height	9 180 mm
G4	Weight of the filter device	7 221 kg
G5	Emergency weight 1/3 hopper	341 kg
G6	Total weight incl. emergency filling	7 562 kg
G7	Foot load	4x 1891 kg

Dimensions of connecting flanges

H1	Contaminated gas inlet flange	Ø710 mm
H2	Clean gas outlet flange	550 x 1000 mm
H3	Hopper connecting flange	250 x 250 mm
H4	Filter foot size	250 x 250 mm

Material design of the filter

I1	Filter chamber material	11375
I2	Hopper material	11375
I3	Filter housing material thickness	4 mm
I4	Hopper material thickness	5 mm
I5	Thickness of stiffeners	7 mm
I6	Coating system	C4

Material of thermal insulation

J1	Type of thermal insulation	mineral wool
J2	Coefficient of thermal conductivity	0,038 W/m.K
J3	Insulation thickness	100 mm
J4	Insulation cover	galvanized sheet metal
J5	Total insulation area of the cabinet	67,8 m ²
J6	Total insulation area of the hopper	13,8 m ²

Hopper heating

K1	Hopper heating system	electric resistance cable
K2	The total area of the heated part	12,5 m ²
K3	Heating power per 1 m ²	200 W
K4	Total heating power	2500 W



