

TECHNICAL DATA SHEET - G&G Bag HOUSE FILTER

Filter type:	G&G-Bag-HOUSE-16-17-127-40-A
Producer:	G&G filtration CZ, s.r.o.

Parameters of filtered gas

A1	Operating amount of filtered gas	26 100	m ³ /h
A2	Operating temperature	20	°C
A3	Amount of filtered gas (0°C)	24 320	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	272	ks
C2	Total filter area	434	m ²
C3	A/C parameter	1,00	m ³ /m ² /min
C4	Can velocity	1,08	m/s
C5	Flow from below the rods	26 100	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	3 192	mm
D2	Y-axis filter size	3 179	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		vertical
E2	Diameter of filter rods	127	mm
E3	Length of filter rods	4 000	mm
E4	Rods attachment		snapping
E5	Inlet nozzle shape		venturi

Regeneration system

F1	Number of regeneration valves	16	pcs
F2	Size of regeneration valves	2"	
F3	Total compressed air consumption	43	Nm ³ /h
F4	Compressed air pressure	6	bar

Dimensions of the filtration device

G1	Total width of the filter	3 400	mm
G2	Total filter depth	3 387	mm
G3	Total filter height	9 050	mm
G4	Weight of the filter device	9 682	kg
G5	Emergency weight 1/3 hopper	564	kg
G6	Total weight incl. emergency filling	10 246	kg
G7	Foot load	4x 2562	kg

Dimensions of connecting flanges

H1	Contaminated gas inlet flange		Ø900 mm
H2	Clean gas outlet flange	550 x 1300	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	8	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	76,8	m ²
J6	Total insulation area of the hopper	20,5	m ²

Hopper heating

K1	Hopper heating system		electric resistance cable
K2	The total area of the heated part	18,5	m ²
K3	Heating power per 1 m ²	200	W
K4	Total heating power	3700	W



