

MJB-G

Tubular Bag Filter



The MJB-G comprise an innovative range of robust, versatile tubular bag filter unit that build upon the experience of the well-established MJB bag filters.

By combining the advantages of two stage immersion type cleaning valves with the patented UniClean technology, maximum cleaning efficiency is achieved with very low energy consumption and minimal maintenance.

All access for maintenance is from the top of the unit.

The modular design, with several bolt together assembly options is optimized for transport by road or by sea container.

It also maximises flexibility on site, to suit available facilities.

Filter sizes from 233 m² to about 1870 m² are available as preassembled units.

The modular design enables larger units to be assembled and also existing units to be extended whenever required.

Features

Robust welded steel construction

Versatile modular design

Weather proof for exposed locations

Flat pack dirty air chamber option for efficient transport by road or sea container.

May be extended or relocated if required

Efficient cleaning with patented UniClean technology

Integral pre-separation section

Down flow / cross flow inlet air pattern to maximize dust handling capacity

Low maintenance, with access from the unit top

Two bag lengths available

Higher temperature options including trace heating and insulation

ATEX compliant for explosive dusts

Product name	MJB-G
Installation	Outdoor
Suitable for combustible dust	True
Filter cleaning method	Compressed air
Application	Dust
Working pressure (kPa)	Standard: -6,0 to 2,0 Optional: -10,0 to 5,0
Filter Area (m ²)	233 to 1870
Capacity (max airflow m ³ /h)	190000
Operating Temperature	Max. 220° C
Filter type	Bag



Dust

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Number of filter elements	Weight (kg)	Model
10	3588 (without hopper)	MJB 234/G/10-14
13	4104 (without hopper)	MJB 304/G/13-14
16	4624 (without hopper)	MJB 374/G/16-14
20	6177 (without hopper)	MJB 467/G/20-14
23	6693 (without hopper)	MJB 537/G/23-14
26	7209 (without hopper)	MJB 608/G/26-14
29	7729 (without hopper)	MJB 678/G/29-14
32	8249 (without hopper)	MJB 748/G/32-14
33	9282 (without hopper)	MJB 771/G/33-14
36	9798 (without hopper)	MJB 841/G/36-14
39	10314 (without hopper)	MJB 912/G/39-14
42	10834 (without hopper)	MJB 982/G/42-14
45	11354 (without hopper)	MJB 1052/G/45-14
48	11873 (without hopper)	MJB 1122/G/48-14
49	12903 (without hopper)	MJB 1145/G/49-14
52	13419 (without hopper)	MJB 1215/G/52-14
55	13939 (without hopper)	MJB 1286/G/55-14
58	14459 (without hopper)	MJB 1356/G/58-14
61	14978 (without hopper)	MJB 1426/G/61-14
64	15498 (without hopper)	MJB 1496/G/64-14
65	16524 (without hopper)	MJB 1520/G/65-14
68	17044 (without hopper)	MJB 1590/G/68-14
71	17564 (without hopper)	MJB 1660/G/71-14
74	18083 (without hopper)	MJB 1730/G/74-14
77	18603 (without hopper)	MJB 1800/G/77-14
80	19123 (without hopper)	MJB 1870/G/80-14

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Inlet air (raw gas) and clean air outlet connections

The dirty air enters at high level through the side of the dirty air chamber (as illustrated), or alternatively via the top of the dirty air chamber. It passes downwards through a generously sized pre-separation chamber, and then into the bag-house via a slotted profiled barrier to protect the bags from abrasion in a part cross flow and part down flow pattern, thus eliminating unwanted upward velocity effects. The outlet air connections are at high level directly from the clean air chamber. These may be situated at the sides or end of the clean air chamber. Rectangular connection flanges are normally provided.

For the MJB-A, the dirty air chamber comprises two sections of the type illustrated, one mounted on top of the other to accommodate the 4.1m long bags.

For the MJB-H, the dirty air chamber comprises three sections of the type illustrated, mounted on top of each other, to accommodate the longer (6.1m) bags.

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MJB-G unit	Filter area	no. of valves	Width W	No. of tanks	Filter weight excluding hopper	Typical weight of hopper	Number & size of sections			Compressed air consumption
							10 valves	13 valves	16 valves	
G	[m ²]	[pcs.]	[mm]	[pcs.]	[kg]	[kg]				Nm ³ /h at 5.5 bar
MJB 234 / G / 10-14	233	10	3585	1	3588	1367	1	-	-	48.6
MJB 304 / G / 13-14	304	13	4015	1	4104	1556	-	1	-	48.6
MJB 374 / G / 16-14	374	16	4445	1	4624	1747	-	-	1	48.6
MJB 467 / G / 20-14	467	20	5520	2	6177	2334	2	-	-	48.6
MJB 537 / G / 23-14	537	23	5950	2	6693	2523	1	1	-	48.6
MJB 608 / G / 26-14	608	26	6380	2	7209	2712	-	2	-	48.6
MJB 678 / G / 29-14	678	29	6810	2	7729	2903	-	1	1	48.6
MJB 748 / G / 32-14	748	32	7240	2	8249	3094	-	-	2	48.6
MJB 771 / G / 33-14	771	33	7885	3	9282	3490	2	1	-	97.2
MJB 841 / G / 36-14	841	36	8315	3	9798	3680	1	2	-	97.2
MJB 912 / G / 39-14	912	39	8745	3	10314	3869	-	3	-	97.2
MJB 982 / G / 42-14	982	42	9175	3	10834	4060	-	2	1	97.2
MJB 1052 / G / 45-14	1052	45	9605	3	11354	4250	-	1	2	97.2
MJB 1122 / G / 48-14	1122	48	10035	3	11873	4441	-	-	3	97.2
MJB 1145 / G / 49-14	1145	49	10680	4	12903	4836	1	3	-	145.8
MJB 1215 / G / 52-14	1215	52	11110	4	13419	5025	-	4	-	145.8
MJB 1286 / G / 55-14	1286	55	11540	4	13939	5216	-	3	1	145.8
MJB 1356 / G / 58-14	1356	58	11970	4	14459	5407	-	2	2	145.8
MJB 1426 / G / 61-14	1426	61	12400	4	14978	5598	-	1	3	145.8
MJB 1496 / G / 64-14	1496	64	12830	4	15498	5788	-	-	4	145.8
MJB 1520 / G / 65-14	1520	65	13475	5	16524	6182	-	5	-	194.4
MJB 1590 / G / 68-14	1590	68	13905	5	17044	6372	-	4	1	194.4
MJB 1660 / G / 71-14	1660	71	14335	5	17564	6563	-	3	2	194.4
MJB 1730 / G / 74-14	1730	74	14765	5	18083	6754	-	2	3	194.4
MJB 1800 / G / 77-14	1800	77	15195	5	18603	6945	-	1	4	194.4
MJB 1870 / G / 80-14	1870	80	15625	5	19123	7136	-	-	5	194.4

NOTE: Typical compressed air consumption based upon cleaning cycle max. 3 minutes

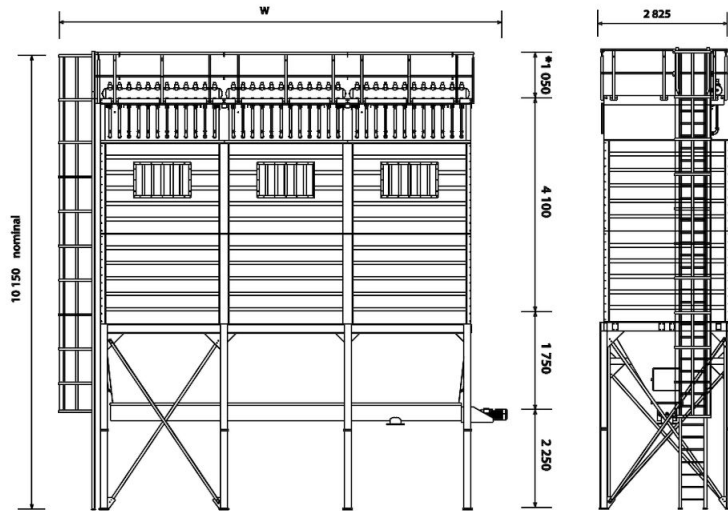
Single valve pulsing for units up to MJB748

Two valves pulsing together for units up to MJB1122

Three valves pulsing together for units up to MJB1496

Four valves pulsing together for units up to MJB1870

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Hopper heights are typical values for 55° valley angle trough hopper

* The Clean Air Chamber height includes toe board