

Cleaning unit MJD

for dust cartridges up to Ø 328 mm

1. Features

The MAHLE cleaning system MJD is a very cost and cleaning efficient jet pulse cleaning system for dust filter cartridges. By a aimed air flow with the optimized multi-jet nozzle, we can reach a regular cleaning over the whole length of the cartridge. The cleaning system is available for the different cartridge diameter in optimized sizes. Depending on the application the cleaning system (MJD) is available in aluminium/steel zinc plated, as the standard or stainless steel, as a special version.

Characteristics

- Extremely effective
- Extreme energy efficiecy
- Uniform cleaning
- Optimized cleaning efficiency in the upper and bottom part of the cartridge
- Versions for both the untreated and cleaned gas sides
- Compatible to the Rotating Wing (G1 valve)
- Low noise level
- Minimal consumption of comressed air due of the optimised nozzle geometry
- Worldwide distribution

In relation with the MAHLE cartridge the multi-jet cleaning system (MJD) is providing a very efficient and economic solution for a lot of applications.

The optimized multi-jet nozzle (MJD), comparing to the conventional nozzle or jet pipe, shows huge advantages. The advantages are given in the noise reduction (up to 8 dB), energy efficiency and cleaning efficiency.

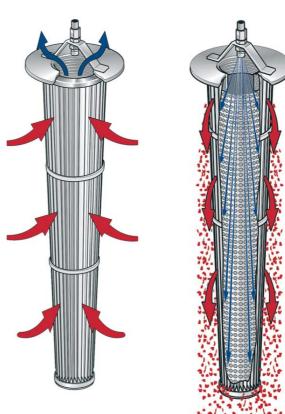
Thereby you go easy on environment and the live time of the cartridges will increase considerable.



2. Funktion

During the filtration phase dust particles are separated on the cartridge surface. A filter cake forms, which will be cleaned at a time control or differential pressure related.

At the cleaning we get a very quick expansion of the pressure vessel volume in a short time. These will reverse the flow direction and blow off the filter cake.



Filtration phase

Cleaning phase

3. Technical data

Cleaning unit for du	st cartridges with an outside diameter up to
328 mm.	
Standard version r	nulti-jet nozzle
Material:	Aluminium
Special version mu	ılti-jet nozzle
Material:	stainless steel (1.4301)
Standard and spec	cial version
Differential pressure)
via filter plate:	max. 15 mbar*
Cleaning medium:	Oil, dust and condensate-free compressed air
	at operating temperature
Compressed air	
connection:	G3/8 , G3/4, G1 male*
Compressed air:	5 bar to 6 bar (max. 7 bar)
Pulse duration:	0.1 s to 0.3 s

Compressed air consumption					
Tura de cimentian	Capacity of pressure	Compressed air consump- tion per cleaning			
Type designation MJD-12	vessel [l] 10	impuls [l] (fad) 20 - 30			
MJD-16	16	36 - 60			
		1			

* Depends on cartridge geometry

Technical data is subject to change without notice!



Multi-jet nozzle during cleaning

4. Ordering example

			ey for cle	eaning	g units	
Туре о		-				
	-				and cylindrical cartridges	
		. .			l cartridges	
	RLK Rotating wing for conical cartridges					
	Cartridge diameter					
		120 m	mm			
		160 m				
	-32	328 m	m			
		Cartri	ridge length and mode of installation			
		00	Indeper	ndent	of lenght, installation for example via round thread or bayonet	
		03	300 mm	n, insta	allation MJD/RLD via tie rod or RLK via Quick-Lock	
		06	600 mm	600 mm, installation MJD/RLD via tie rod or RLK via Quick-Lock		
		10	1000 m	000 mm, installation MJD/RLD via tie rod or RLK via Quick-Lock		
		12	1200 m	m, ins	stallation MJD/RLD via tie rod or RLK via Quick-Lock	
			Installation side of cartridge			
			REIN Installation on cleaned gas side			
			ROH Installation on untreated gas side			
			1	Versio	ns	
			- 1	A1	Nozzle aluminium or galvanized or coated steel, RLD/K with ball bearing	
			- 1	V1	Nozzle aluminium or stainless steel, RLD with plain bearing	
			- 1	V2	Stainless steel, RLD with plain bearing	
			- 1		Only RLD/K with ball bearing without baffle plate, Nozzle aluminium or coated steel	
MLD	-16	00	REIN	A1	Ordering example	

2 Order numbers	Order numbers				
Order number	Cleaning unit	Cartridge geometry	Cartridge mounting		
79741232	MJD-12 00 ROH A1 VP	up to Ø 120 mm	Untreated gas side		
76925655	MJD-12 00 REIN A1 VP		Cleaned gas side		
70375835	MJD-12 00 ROH V2 VP		Untreated gas side		
70343901	MJD-16 00 ROH A1 VP	up to Ø 220 mm			
70343906	MJD-16 00 ROH V2 VP				
79741240	MJD-16 00 REIN A1 VP		Cleaned gas side		
79356379	MJD-32 03 ROH A1 VP				
79356387	MJD-32 06 ROH A1 VP	Ø 328 mm	Linter at a large side		
79356395	MJD-32 10 ROH A1 VP		Untreated gas side		
70304809	MJD-32 00 ROH A1 VP	Quick-Lock Ø 328 mm			

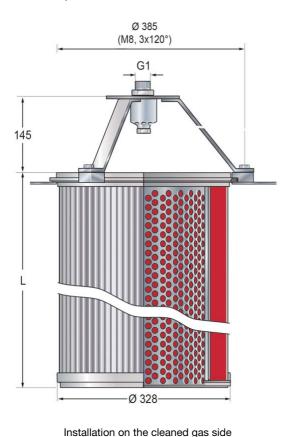
5. Accessories

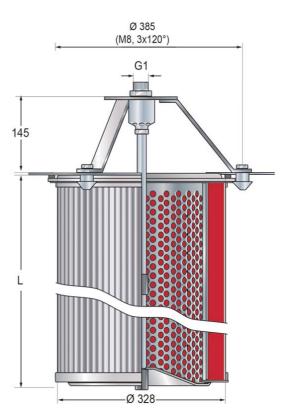
Order numbers	Designation
79791104	Holding bolts PA6, pack of 3
77838568	Centre ring EL 033, galvanized steel
77934326	Centre ring EL 033, V2A stainless steel
77885031	Centre ring 2E 033, galvanized steel
78215220	Centre ring 2E 033, V2A stainless steel
76161913	Reusable end cap, galvanized steel
76161921	Reusable end cap, V4A stainless steel

6. Installation

The multi-jet nozzle can be supplied for installation on the untreated or cleaned gas side.

A membrane valve must be provided on the pressure vessel for each cleaning unit. The cartridges are individually cleaned to ensure the least possible impairment to the volume flow and optimal cleaning results. The membrane valves can be controlled according to a time control or a differential pressure limit.





Installation on the untreated gas side

7. Design

Please contact us for detailed technical information, any open questions and for general expert advice. Completion of the relevant questionnaire would facilitate in the coordination of all important parameters.

Comprehensive documentation on our product range, cleaning units and cartridges can be provided.

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