

Minifant M99 - The Compact All-Rounder

X-FLOC

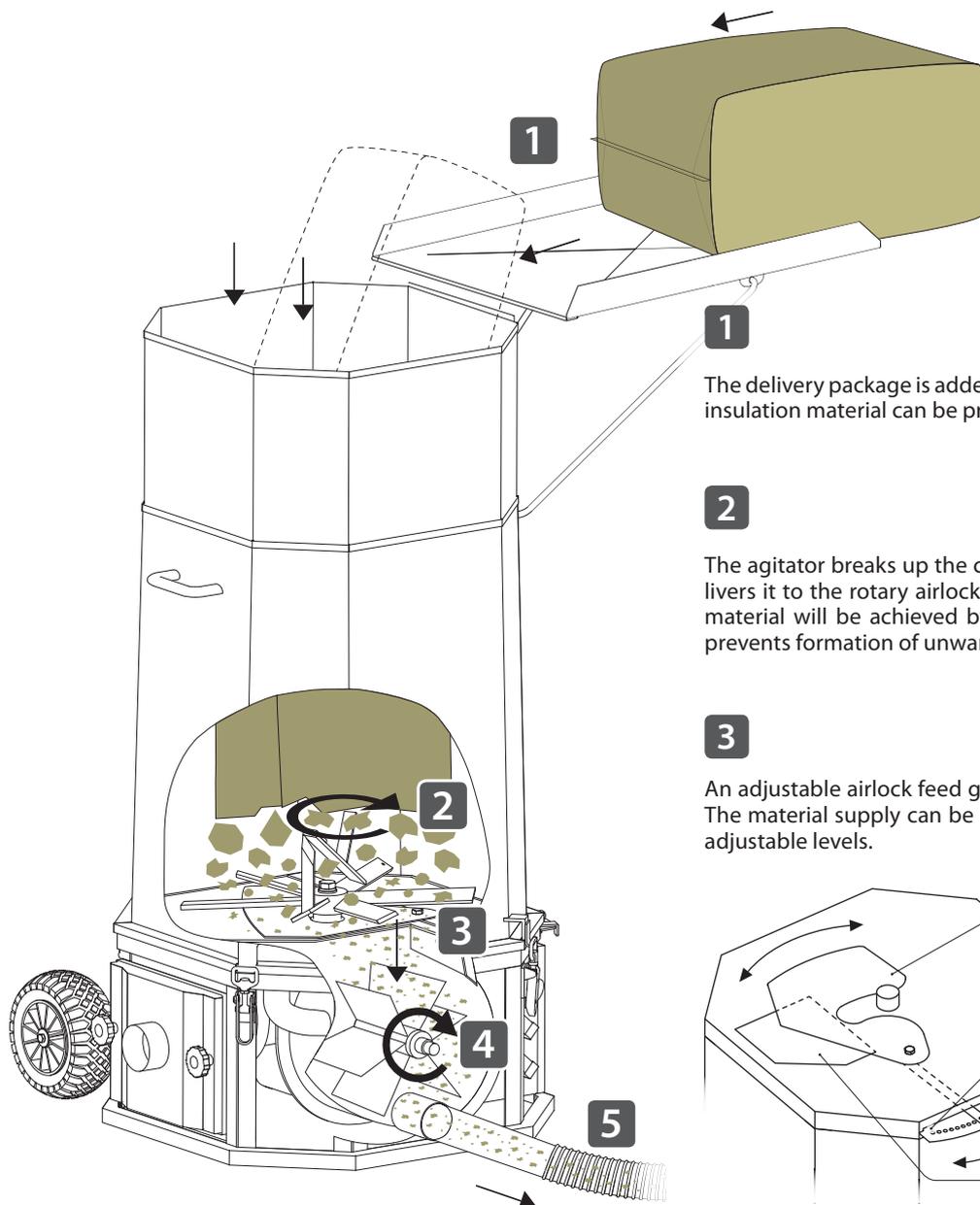


- ▶ High mobility
- ▶ Excellent performance
- ▶ Robust construction
- ▶ 230V/3,6kW
- ▶ Versatilely applicable



(e.g: cellulose, wood fiber, glass wool, rock wool, perlite, EPS granules, straw)

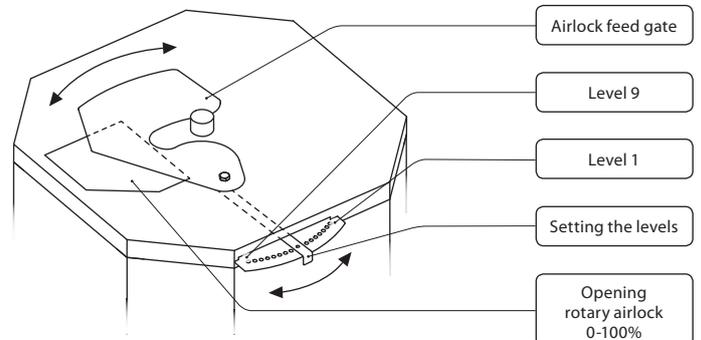
Functional Principle



1 The delivery package is added to the material storage container. The insulation material can be provided on the sack support (optional).

2 The agitator breaks up the compressed insulation material and delivers it to the rotary airlock. The fine preparation of the insulation material will be achieved by a rotating agitator. The special form prevents formation of unwanted material bridges.

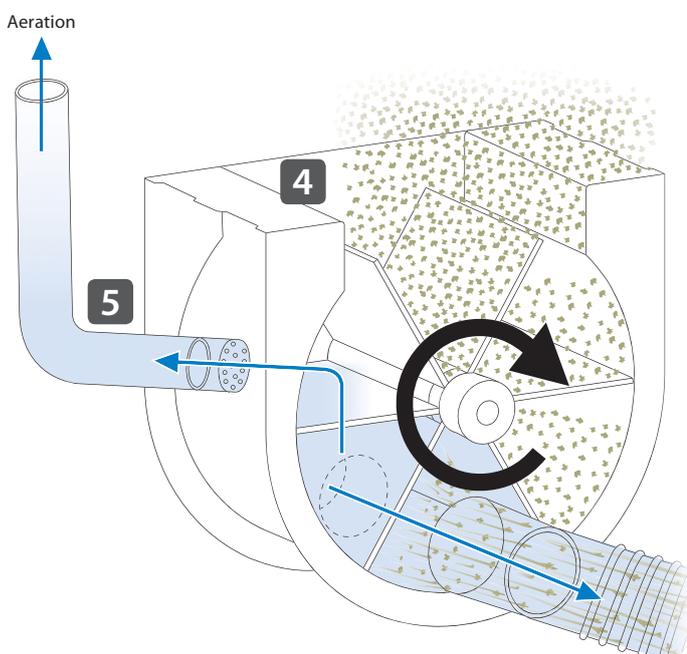
3 An adjustable airlock feed gate is located above the rotary airlock. The material supply can be set finely by the airlock feed gate in 17 adjustable levels.



4 The overhead airlock chamber will be moved downwards by the rotor's rotary movement. There, the insulation material will be blown off through the outlet by the airflow. Inside the conveyor line, which is fit to the outlet, the insulation material will be accelerated and blown into the element.

Note: The airlock rotor can consist of 6 (standard) or 8 chambers. For damp-spray applications and the processing of fire protection plasters, the design with 8 chambers can be of advantage due to the very uniform material flow.

5 The rotary airlock is equipped with an airlock ventilation. The airlock chamber, which is still pressurized after the blow-out process, is thereby relaxed in the upward movement. The deaerated airlock chamber can be quickly and completely filled with insulation material in upper position. An undesired dust formation due to an air cushion forming above the rotary airlock is excluded.



1 Filling Hopper

The volume of the filling hopper is approx. 0.27m³, sufficient for approx. 1-2 bags of commercially available goods.

2 Agitator

The agitator consists of six loosening arms with an obliquely arranged transverse strut and a vertical interference bar which are arranged in a circle.

Air Feed Unit

The air feed unit consists of two high-performance radial compressors. The air generators are secured with a check valve and connected with a Y-piece to the outlet nozzle of the rotary airlock.

3 Maintenance/Transport

The machine base is easily accessible by the removable filling hopper.

The modular buildup allows the disassembled machine to be transported even in small vehicles.



4 Engine/Transmission

The drive of the agitator and the rotary airlock is transmitted by a robust engine. The built-in angular- and spur gear transmit the necessary driving torques.

5 Mobility

The low weight and the compact buildup make the machine easy to handle.

The machine can be tilted by two transport wheels attached to the machine and be moved even over site-specific surfaces.



6 Rotary Airlock

The 6 or 8 airlock chambers of the rotary airlock are sealed by wear-resistant rubber seals. The optimized airlock construction allows high performances with low wear and tear and excellent sealing.

7 Outlet NW75 (3")

The connection of the the conveyer line will be done at the outlet. Alternatively, direct reductions or extensions can be used in order to connect different hose sizes.



8 Manual Control KFB3

The Minifant M99-DS is equipped with a cable control in addition to the radio remote control included in the delivery. It has a toggle switch with the following functions:

- ▶ Air ON
- ▶ Air and material ON
- ▶ OFF



9 Electric Switchboard

The clearly labelled switching elements allow a high operating comfort. Only high-quality components are installed and documented in the circuit diagram. The wiring is marked and corresponds to the applicable regulations.



10 Mains Voltage Display

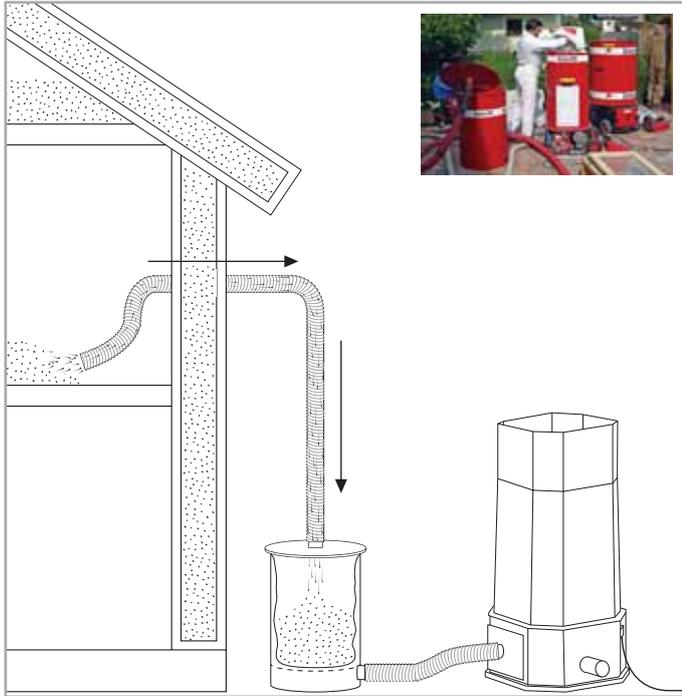
The mains voltage display (optional) allows the operator to keep an eye on the mains voltage at all times (even under load). Possible sources of error in the area of the mains supply can be detected quickly if necessary.



Further Capabilities

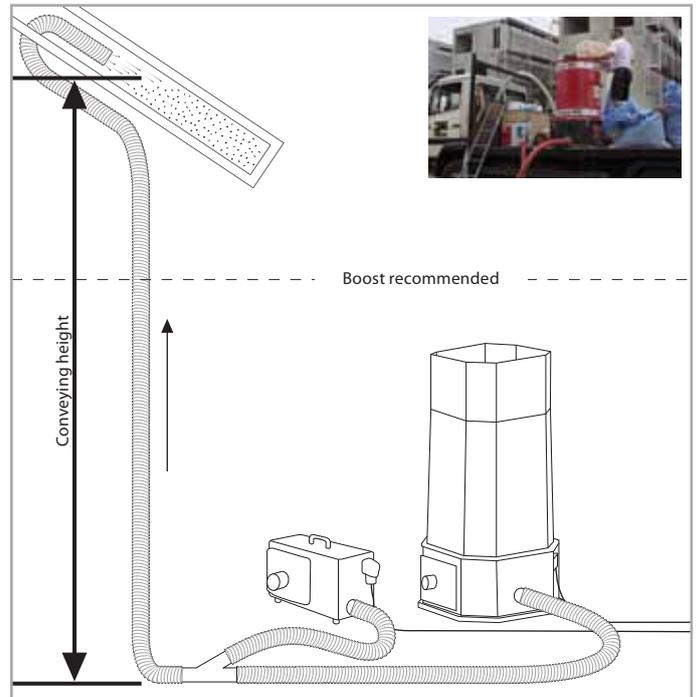
Removal / Suctioning / Cleaning:

The insulation blowing machine can also be used for the removal or cleaning work during everyday operation on-site. For this, the machine is connected on the suction side with a suction drum (see optional accessories). With the conveying line, suctioning can be performed.



Air Boost:

Heavy insulation material or high conveying heights can be better handled with a higher air performance. For this, or for a further performance increase, the Minifant can be equipped with an additional amplifier station (see brochure amplifier -/ vacuum station).



Radio Remote Control FFB500

The machine type M99-DS is supplied as standard with a specially developed radio remote control FFB500.

The radio contact takes place with a secure, bidirectional communication between hand-held transmitter and receiver. Several frequency channels are available. The transmission and receive power will increase automatically at longer distances.

If the range will be exceeded or in case of radio contact loss, the machine will be switched off automatically. The robust hand-held transmitter can be easily secured by a loop for wrist strap. The control elements can be locked against unintentional activation.

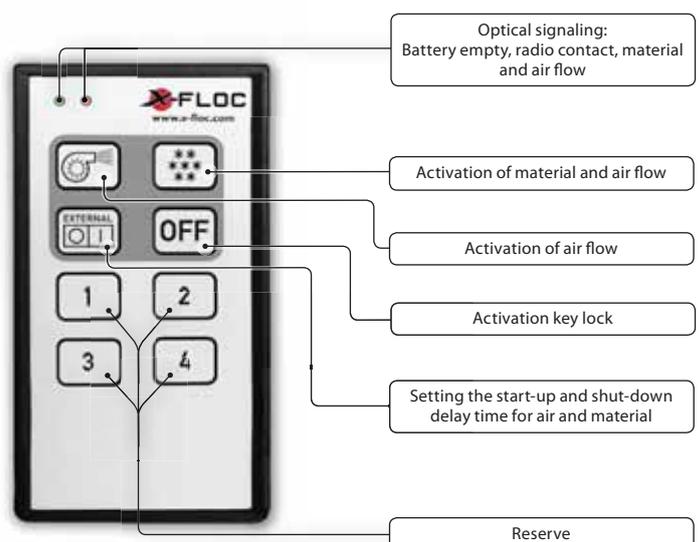
The most important commands can be transmitted to the insulation blowing machine with the hand-held transmitter:

- ▶ Air start
- ▶ Material start
- ▶ Combined start of air and material with adjustable time delay
- ▶ Stop

Note:

The radio remote control is compatible with many third-party products. The control can be used after adjustment of the connection with machines of e.g. Krendl, Thermoblow, SHS, Isoblow, etc.

- ▶ Low weight and robust, handy housing
- ▶ Bidirectional wireless technology
- ▶ Multiple frequency channels
- ▶ Range monitoring with safety shutdown in case of overrun
- ▶ Automatic range increase, combined with increased power consumption if required



The machine type M99-DS-Pro and M99-DS-Pro 8K is supplied as standard with a specially developed radio remote control FFB2000-Pro. All important settings and functions can be comfortably controlled from the operator's workplace. The air power and the material flow volume can be adjusted in 19 levels during operation or in standstill.



In case of a radio interference, the operation can be established by connecting the hand-held transmitter and the receiver with a supplied connection cable.

Together with the insulation blowing machine's integrated pressure detection unit, special functions such as the "Dynamic Pressure Control" and "Automatic Shutdown" can be used.

Note: The machine is backward compatible with the control FFB2000 and KFB2000 with some function restrictions.



Bidirectional digital wireless technology



Four radio channels for construction sites with interference sources



In case of overpressure acoustic warning signal



Cable control possible

Dynamic Pressure Control

The dynamic pressure control function limits the maximum injection pressure to a pre-set value. For this purpose, the pressure threshold has to be set to the desired maximum allowable pressure on the machine. In injection mode, the pressure is now reliably limited when the set threshold value will be reached. The control mechanism can be activated by means of a key combination on the hand-held control of the cable or radio remote control and is indicated by a flashing of the current air flow setting.

Typical applications:

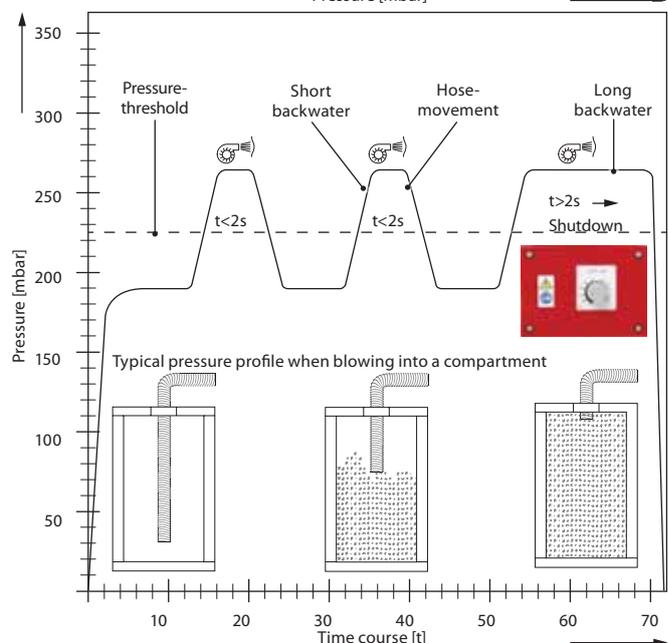
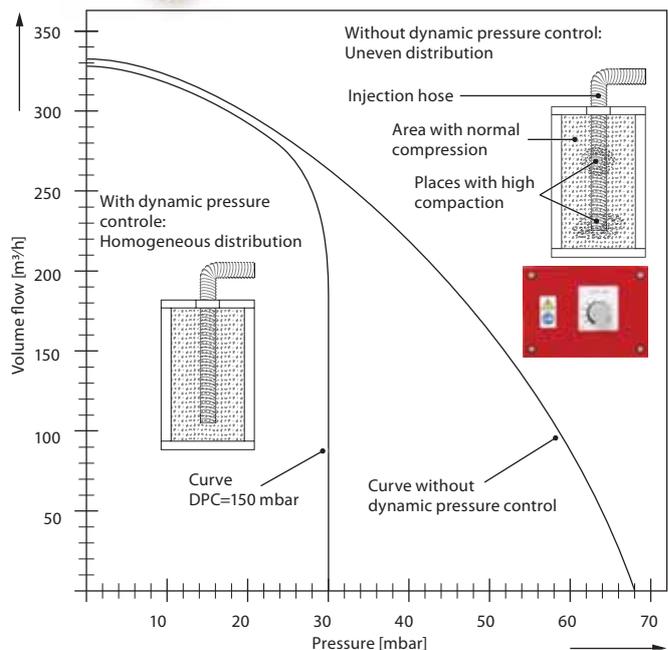
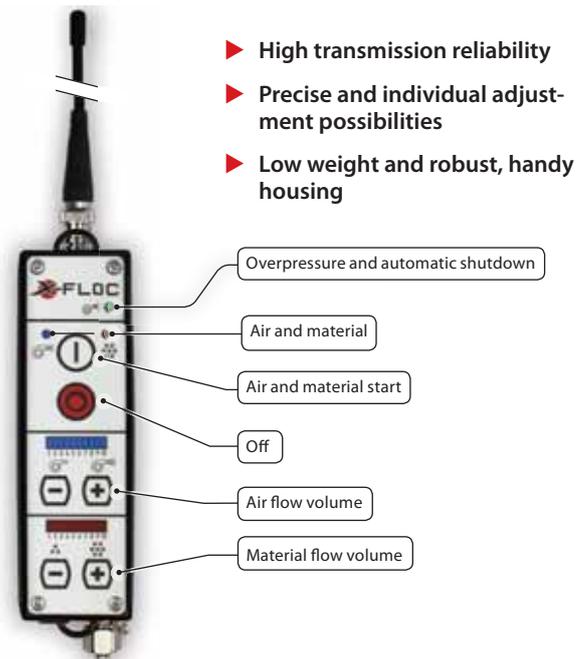
- ▶ Injection of air-tight elements with the risk of damage to the planking materials
- ▶ Reduction of the bulging of thin planking materials
- ▶ Avoiding local areas with high density when blowing roof elements

Automatic Shutdown

The function of the automatic shutdown enables an automatic switch off of the machine when a selected pressure threshold value is reached. For this purpose, the setting of the pressure threshold value has to be set to the desired value on the machine and the function has to be activated on the hand-held control. The machine will switch off automatically if the pressure threshold value will be reached (response time can be set with parameters) without additional user intervention.

Typical Applications:

- ▶ Assistance while injecting with automated shutdown if the threshold value is exceeded
- ▶ Achieve reproducible injection processes by pressure-based shutdown procedures
- ▶ Independent shutdown when filling insulation materials



Technical Specifications + Applications

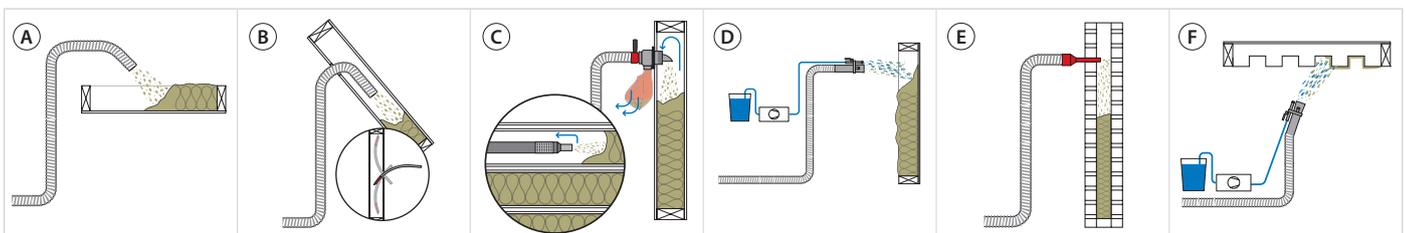


	M99-DS-230V/3,6kW	M99-DS-Pro-230V/3,6kW	M99-DS-Pro-230V/3,6kW 8K
Power/material processing speed	650kg/h	650kg/h	600kg/h
Measurement insul. blowing machine (L x H x W)	810 x 730 x 1325mm	810 x 730 x 1325mm	810 x 730 x 1325mm
Hopper volume	0,27m ³	0,27m ³	0,27m ³
Filling height/with sack support	1325mm/1400mm	1325mm/1400mm	1325mm/1400mm
Ø Intake socket / outlet	NW75 (3")	NW75 (3")	NW75 (3")
Unladen weight	110kg	110kg	111 kg
Machine control	Rad. rem. con. FFB500 + cable remote control	Radio remote control FFB2000-Pro + connection cable	
Number of airlock chambers	6 parts	6 parts	8 parts
Airlock rotational speed adjustable	stageless 20-100% (machine side)	19 levels 20%-100% (with radio remote control)	
Airlock feed gate adjustable	17 levels, manual	17 levels, manual	17 levels, manual
Function „Automatic Shutdown“	-	●	●
Function „Dynamic Pressure Control“	-	●	●
Air feed unit	2 High-performance radial compressors (switchable)		
Air flow volume (nominal/measured)	440/350 m ³ /h	440/350 m ³ /h	440/350 m ³ /h
Conveying pressure max. (adjustable)	325mbar	325mbar	325mbar
Suction in connection with suction drum	●	●	●
Conveying height max. *1)	up to 50m	up to 50m	up to 50m
Length hose *1)	up to 50m	up to 50m	up to 50m
Installed air power	2,8kW	2,8kW	2,8kW
Installed engine power	0,75 kW	0,75 kW	0,75 kW
Rated power	3,6 kW	3,6 kW	3,6 kW
Electrical connection	230V / 50Hz / 16A (10A at fan position 1)		
Packaging density material max.	155 kg/m ³	155 kg/m ³	155 kg/m ³
Product number	3837	5416	7392

Compatibility matrix		A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F
Suitability	Cellulose	■	■	■	■	■		■	■	■	■	■		■	■	■	■	■	
	Wood fibre	◆	◆	■	■			◆	◆	■	■			◆	◆	■	■		
	Mineral fibre	◆*2)	◆*2)	◆*2)	■*2)	◆		◆*2)	◆*2)	◆*2)	■*2)	■		◆*2)	◆*2)	◆*2)	■*2)	■	
	Mineral granules	■				■	■	■				■	■	■				■	■
	EPS-granules					■						■						■	
	Fire protec. plastering, other	◆	◆	◆	■	◆	■	◆	◆	◆	■	◆	■	◆	◆	◆	■	◆	■

All values are approximate.
 *1) Depending on the insulation material and the diameter of the hose line being used. Increased performance with amplifier station possible.
 *2) Use of an amplifier station is recommended
 ■ Best suitability ◆ Good suitability ■ Restricted recommended

Open/ Attic blowing	Dry Injection	Dry Injection with Ventilation	Damp Spray/CSO	Cavity Wall Insulation	Fire Protection
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Sack Support

With the sack support, the Minifant M99 offers an even higher filling comfort. The sack support serves also as a cover on the filling set after use.

Prod. no. 3474



KFB30 and Control Cable

The KFB30 is a robust control with a toggle switch and the following functions:

- ▶ Activation of air flow
- ▶ Activation/ Deactivation of air- and material flow

Prod. no. 1655/1814

Prod. no. 2459/7852



Mains Voltage Display

The Minifant M99 can be equipped with a mains voltage display to detect fluctuating or weak voltage supplies or voltage drops immediately and reliably.

Prod. no. 4604



Suction Drum V=115L/V=250L

The suction drum allows the cleaning of the workplace. It has a swiveling lid with a fastener and allows a fast change of fabric bags.

Prod. no. 1160/3075



Wrist Strap for FFB500

The wrist strap allows a comfortable wearing of the control on the wrist.

Prod. no. 7128



Amplifier Station with VS28 + VS33

For high conveying heights, long conveyor lines or highly compressed insulation materials, the airflow of the Minifant M99 can additionally be increased with an amplifier station.

Prod. no. 2711/5855



Case for Hand-Held Transmitter

Case for hand-held transmitter of the radio remote controls FFB40, FFB400 and FFB500. The case ensures a comfortable wearing on the lower or upper arm.

Prod. no. 5016



Power Generator XE5,5kW

With the power generator, the power supply at the construction site is guaranteed. Performance and equipment are ideal for the insulation professional.

Prod. no. 7138

Typical Scope of Order

Injection, Open Blowing



- ▶ M99-DS or M99-DS-Pro (Prod. no. 3837, 5416)
- ▶ Mains voltage display (Prod. no. 4604)
- ▶ Minifant sack support (Prod. no. 3474)
- ▶ Suction drum V=115L (Prod. no.1160)
- ▶ Accessory set NW75/63 for loose insulation materials (Prod. no. 5246)
- ▶ Detachable tubing port 10 -35mm panel thickness (Prod. no. 6737)
- ▶ Injection bezel (Prod. no. 2911)
- ▶ Density testing set NW100 with case (Prod. no. 4348)
- ▶ Insulation needle NW50-130 (Prod. no. 5303)

Injection, Open Blowing, Spraying



- ▶ M99-DS-Pro 8K (Prod. no. 7392)
- ▶ Mains voltage display (Prod. no. 4604)
- ▶ Minifant sack support (Prod. no. 3474)
- ▶ Suction drum V=115L (Prod. no. 1160)
- ▶ Accessory set NW75/63 for loose insulation materials (Prod. no. 5246)
- ▶ Spray head NW50 with 2 spray nozzles (Prod. no. 1983)
- ▶ Diaphragm pump (Prod. no. 206)
- ▶ High pressure hose L=30m (Prod. no. 5054)
- ▶ Wall scrubber M05 B=690 (Prod. no. 2364)

X-Floc Dämmtechnik-Maschinen GmbH, the brand for quality and innovation in the field of insulation technology



Since its founding in 1994, X-Floc Dämmtechnik Maschinen GmbH has been developing, manufacturing and selling insulation blowing machines and insulation accessories. Our typical customers are craft and assembly companies, such as carpentry and roofing companies, drywall builder and similar. Since 2014, we are manufacturing and supplying complete filling systems for prefabricators, which enable an efficient, industrial production of elements with injection insulation.

Since we develop our technology from the beginning together with our customers and the manufacturers of loose insulation materials, our products are compatible with almost all available injection products. This great innovative capacity, our variety of products and our much praised service have made us a worldwide recognized specialist in pneumatic conveying, especially for loose insulation material. This, our high quality standards and the lived „Made in Germany“ are the most important decision criteria of our customers.



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