

EM300 Insulation Blowing Machine



- ▶ High-performance insulation blowing machine
- ▶ Precise controlling options
- ▶ Dust-free filling with vacuum connection
- ▶ All blowing injection methods possible
- ▶ High degree of ergonomics
- ▶ Robust design



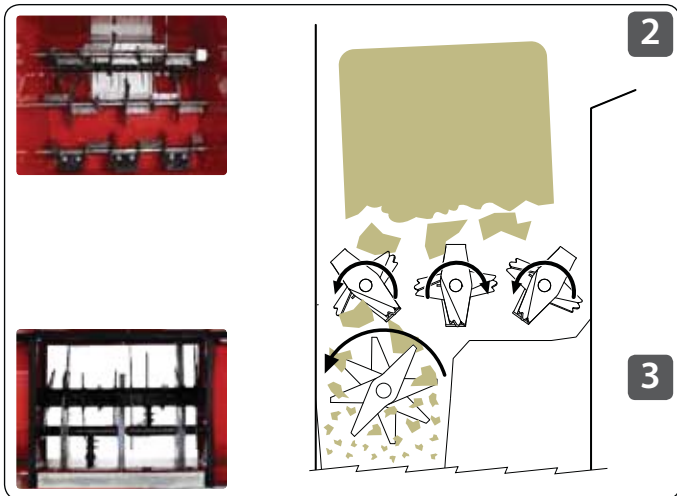
Air generation with high-powered radial compressor and/or turbine



Functional Principle and Standard Equipment



The insulation bales are laid on the sack support, opened and pushed through the strip curtain into the filling hopper.

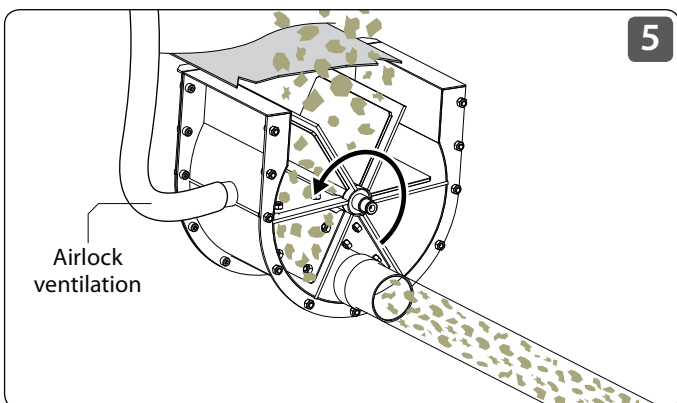


Three rotating crusher shafts and the underneath lying shredder unit ensure an optimized fine preparation. The shredded material will then be transported to the airlock intake.

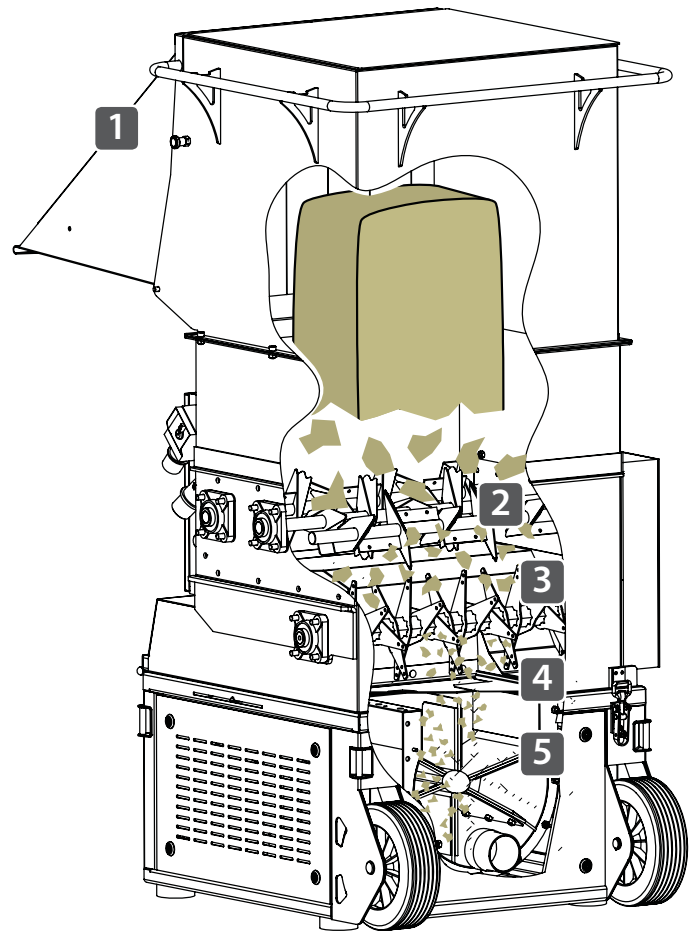


Airlock Feed Gate

The airlock feed gate enables a material flow control. The airlock feed gate can be controlled manually or with a remote control (optional) whilst or between the blowing injection processes.

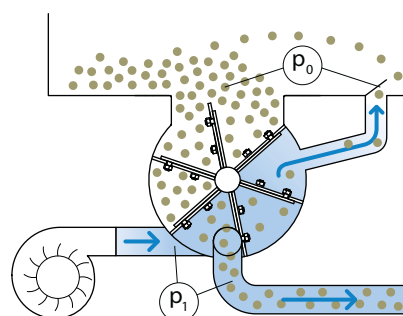


The cellular wheel transports the material to the lower part of the airlock. The air feed unit's air flow accelerates the material and forwards it to the airlock outlet into the conveyor line.



Airlock Ventilation

Increases significantly the airlock's efficiency and prevents actively from dust turbulences in the filling hopper.



Filling Hopper

The filling hopper has a hopper volume of 315 litres which is sufficient for approx. 2 bags of insulation material. A foldable support for bags enables a positioning, opening and filling easy. The transparent strip curtain reduces the dust outlet. The top coverage can be easily removed.

Machine Control

- ▶ Robust casing, clear LED indicator and simple controls
- ▶ Toggle function for conveying with and without material
- ▶ Material- and air volume regulation
- ▶ Activation of pressure control programs
- ▶ Warning signals



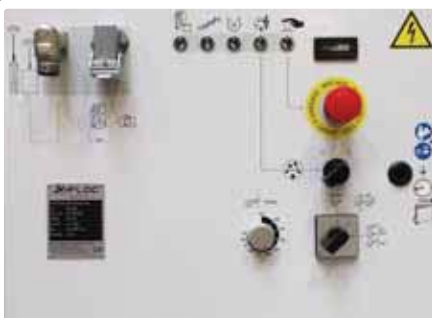
Maintenance

The machine can be easily opened and enables access for all maintenance jobs.



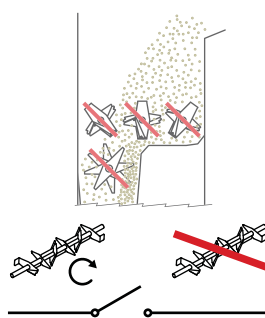
Airlock Outlet

The EM300 series is optionally available with an 75 mm (3") or an 90 mm (3 1/2") airlock outlet. A reducer tube 63 or 50 mm is also available. The EM325, EM345 and EM365 with an integrated amplifier come with an additional outlet connector 63 mm (2 1/2").



Electrical Switchboard

- ▶ Clearly arranged layout
- ▶ Intuitive labelling with symbols
- ▶ High-quality components



Cut-off Crusher Shafts

Useful when processing bulk material (e.g. EPS granules).



Incoming Air Filter

Fast removable suction hood with snap-fit closing and easy cleanable air filter insert.

EM300: Fully Classified Machine

Mobility

The EM300 can be used mobile or stationary, it's easy to move with building sites suitable tyres.



Filling

The EM300 has a high filling comfort thanks to the foldable support for bags in comfortable height. By taking off the upper attachment, a vertical filling is possible.



Configuration Options



230 V or 400 V Power Supply

The EM300 is optionally available with a 230 V or 400 V power supply. This gives you the possibility to choose the optimal configuration for your projects, application areas and insulation materials. See technical data last page...



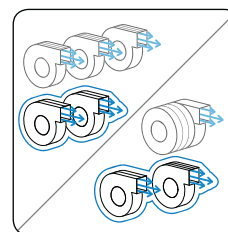
FFB2000-Pro

The radio remote control FFB2000-Pro in a robust casing increases the free moving space. It has bidirectional radio technology with a high transmission reliability and four radio channels. When required, it can also be used with a cable connection. Prod. No. 5154



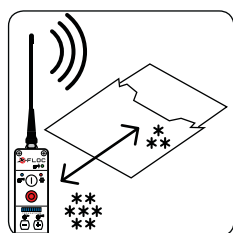
Air Feed Units

We provide many different air feed units configurations with up to five high-powered radial compressors or a motor powered turbine with an additional integrated amplifier unit. See technical data last page...



Integrated Amplifier Unit

For the processing of heavy and highly compressed materials or large conveying heights, amplifier units will be integrated into the machine. These configurations cover nearly all possible requirements.



Remote Controlled Airlock Feed Gate

This additional option enables the airlock feed gate's adjustment with the control FFB2000-Pro. Alternatively, a crank-handle can be used. Together with the remote controlled airlock rotational speed, the optimal material flow volume can be chosen directly from the injection point. Prod. no. 7448 (EM32X), 6356 (EM34X/360) or 7449 (EM365)

Type	Connection / power	Prod. No.
EM325	3 × 230 V / 10,2 kW	6971
EM345	400 + 230 V / 10,5 kW	7129
EM365	400 + 230 V / 9,2 kW	6268

Cleaning

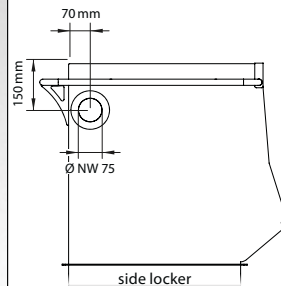
The EM300 enables a cleaning of the workspace in combination with a suction drum as collection container. The suction drum will be connected at the EM300's suction hood.



Dust Extraction

By using a dust extraction at the filling hopper, the working area can be almost kept dust-free. For that (suction drum is necessary). The optionally available dust extraction connector (Prod.No.8174) at the machine's upper attachment enables an active dust suction during the insulation process.

Standard execution



The dust extraction connector can be positioned individually.



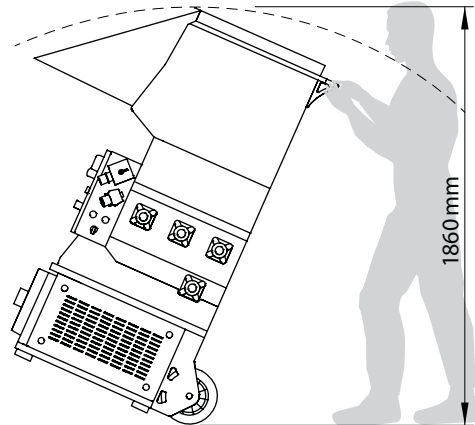
Blowing/Aspiration

In combination with a fibre switch, a quick toggling between aspiration and blowing is possible.

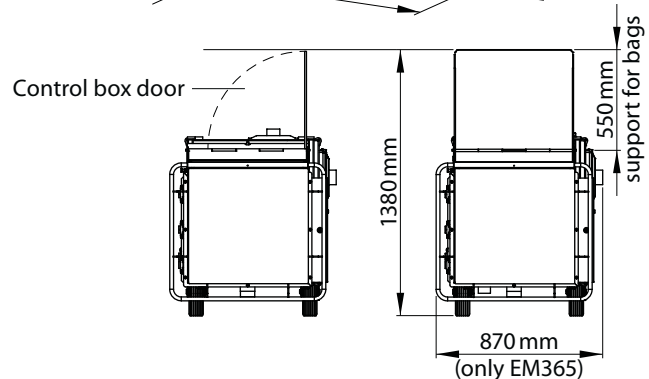
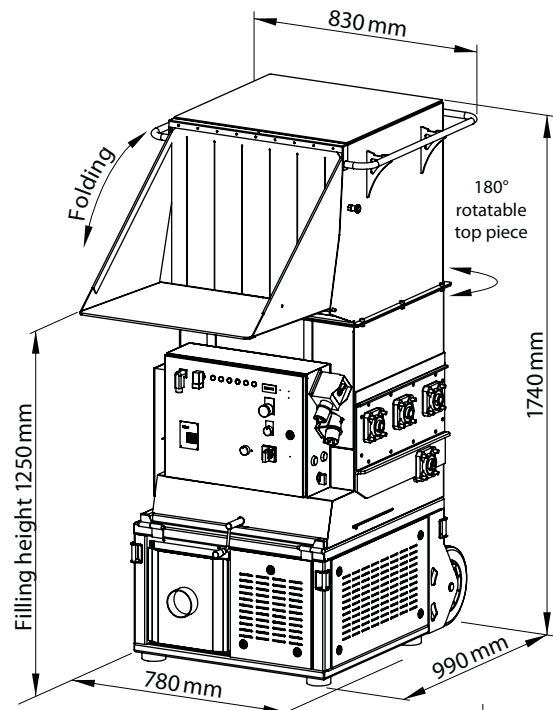
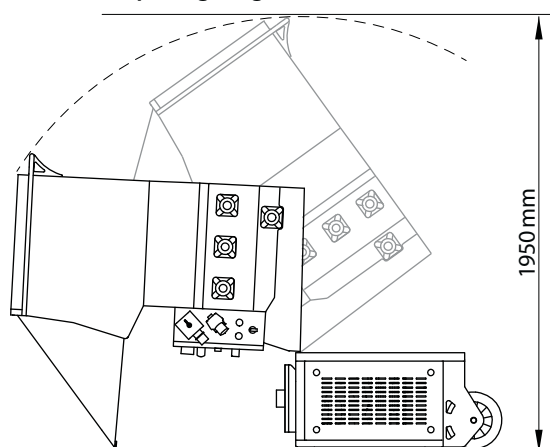


Mode of Operation

Maximum Tipping Height



Maximum Opening Height

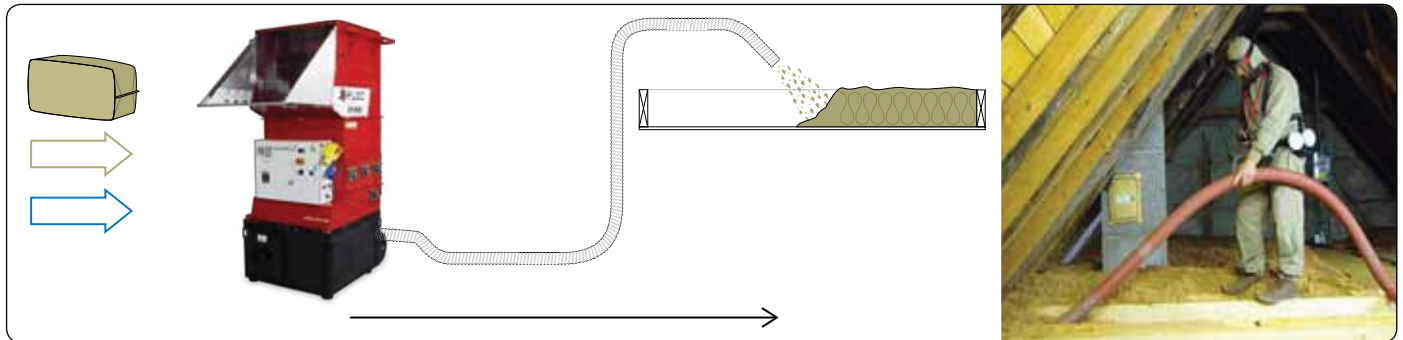


Blowing Injection Processes

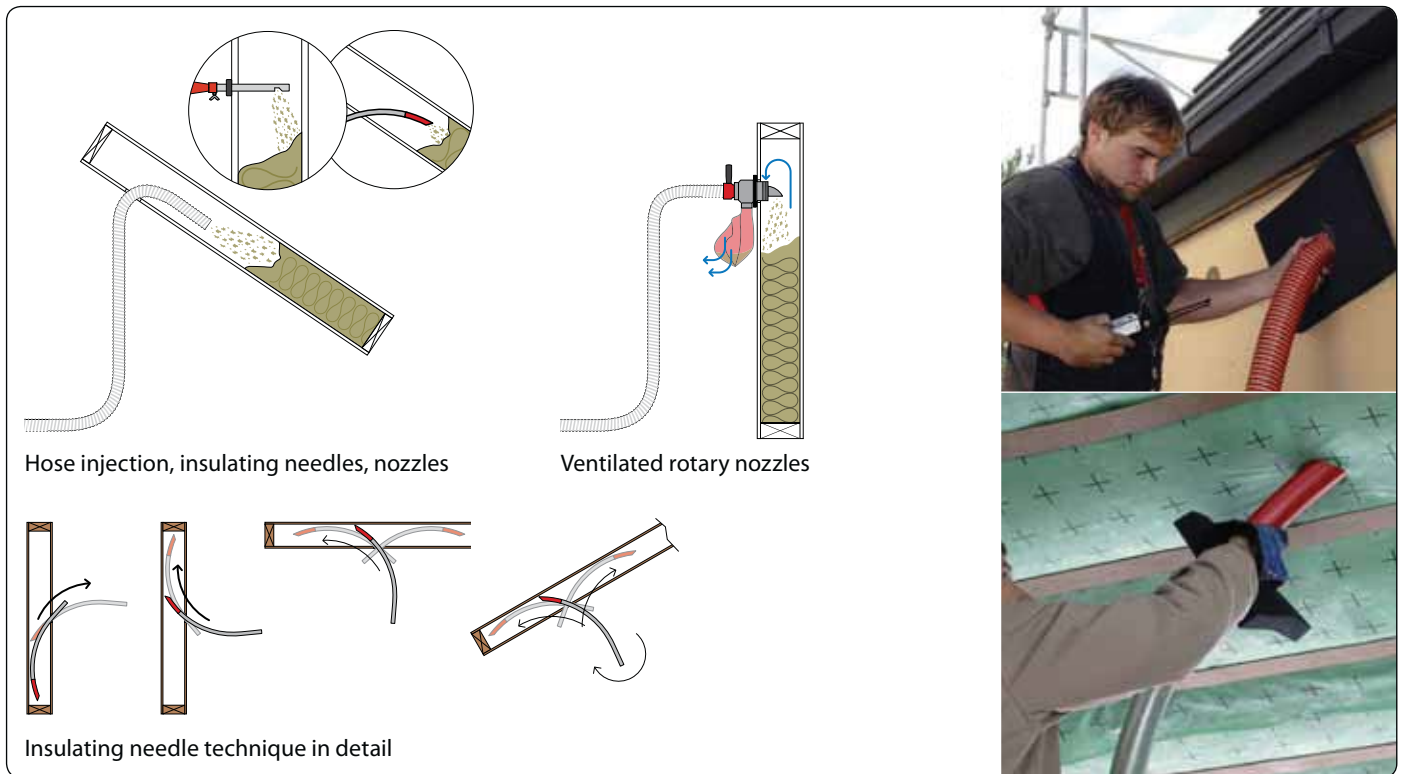
Different architectural styles and construction designs require variable methods in the blowing injection processes. We distinguish four different methods. The EM300 is an all-round solution. There are almost no limits when processing loose

insulation materials. In the following we show the various blowing injection methods and give an overview of the recommended applications in our comparison matrix.

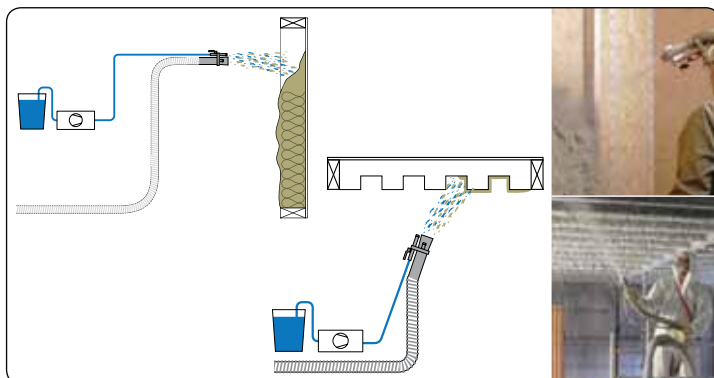
Open Blowing



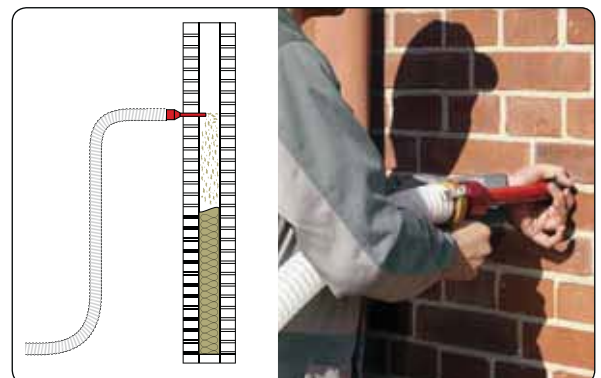
Dry Injection



Damp Spray / CSO / Fire protection



Cavity Wall Insulation



Comparison Matrix



		EM320/340/360						EM325/345/365					
Cellulose	Applications	A	B	C	D	E	F	A	B	C	D	E	F
	Suitability	1	1	1	1	1		1	1	1	1	1	

Examples *1)

Advanced Fibre cellulose, AislaNat, Applegate, Arbocecl Climasafe, Arctic Fiber, Austrozell, Bellouate, Biocell, Biofib Isolation, Cellaouate, Cell Floc, Cellisol, Cel-Pak, Climacell, Climacell pure, Climacell S, Clima Ouate, Clima-Super, Climatizer Plus, Dämmstatt, Dobry Ekovilla, Dolcea, EC cellulose, Ecocel, Ekofiber, Ecovata, Fiberlite, Finefloc, Flocomobil, Floci-Cell, Forest Wool, Franceouate, Greenfiber, iCell, Igloo, Iglu, Isocell, Isodan CI 040, Isofiber, Isofloc eco, Isofloc F, Isofloc L/LM, Isofloc LW, Isofloc neo, Isol+, Isoprof, Isol'quate, i3-Cellulose, Just Been Green, Klima-Tec-Flock, Klima-Tec-Schütt, Mono-Therm, Nesocell, Northern Fiber, Nu-Wool, Ouateco, Pavafloc, Poesis-Floc, Quateco, Quateco Premium, Quateco Nature, Renocell, Selluvilla, Steicofloc, Swissfloc, Termex, Thermocel 040, Thermofloc, United Fibers, Unifloc, Univercell, Warmcel Thermal, Wolfinger Dämmzellulose, Zimicell etc.

Wood fibre	Applications	A	B	C	D	E	F	A	B	C	D	E	F
	Suitability	1 *2)	1 *2)	1 *2)		1 *2)		1	1	1		1	

Examples *1)

Agricell, Airflex, Hoiz, KKS Woodfiber, KKS Woodfiber ApS, Lignozell, Jasmin, Neptutherm, Steicozell, Thermofibre, Thermocell, Termoträ, Woodycell etc.

Mineral fibre	Applications	A	B	C	D	E	F	A	B	C	D	E	F
	Suitability	1	1	1	1	1		1	1	1	1	1	

Examples *1)

Astratherm, Climastone, Comblissimo, Ecofibre (BLT3 – BLT5 – BLT9), Ecofibre KD, Fibrexpan, Greenguard, Indi-Flock, Insulsafe, Inslusafe Plus, Insuver, ISG, Isolene 4, Isomat, Paroc BLT7, Projiso, Rathiflock, Rockwool, Supafil cavity wall, Supafil loft, Supafil timber frame, Thermacoustic TC-417, Teko-Flock etc.

Mineral granules	Applications	A	B	C	D	E	F	A	B	C	D	E	F
	Suitability	2				3	1	2				3	1

Examples *1)

Bachl Perlit HY, Extraperl, Fillrock KD/RG, Hyperdämm, Hyperlite KD, Liapor F2B/3/4, Perli-Fill F, Perli-Fill, Schacoulite Roof Top, SLS20, Thermofill S/S40, Thermo-Floor, Thermoperl, Thermo-Plan, Thermo-Roof etc.

EPS granules	Applications	A	B	C	D	E	F	A	B	C	D	E	F
	Suitability					1						1	

Examples *1)

Bodiflock XPS, Dämmperl 035, Duroperl 35, Easy-Fill 034/033, Granublow 033/035, HK35, HK33, H2 Wall, Isofloc Pearl, Jomaperl, Neopor, Rigi bead 035/033, Rathipur KD, Styrodämm 033 etc.

Legend Suitability

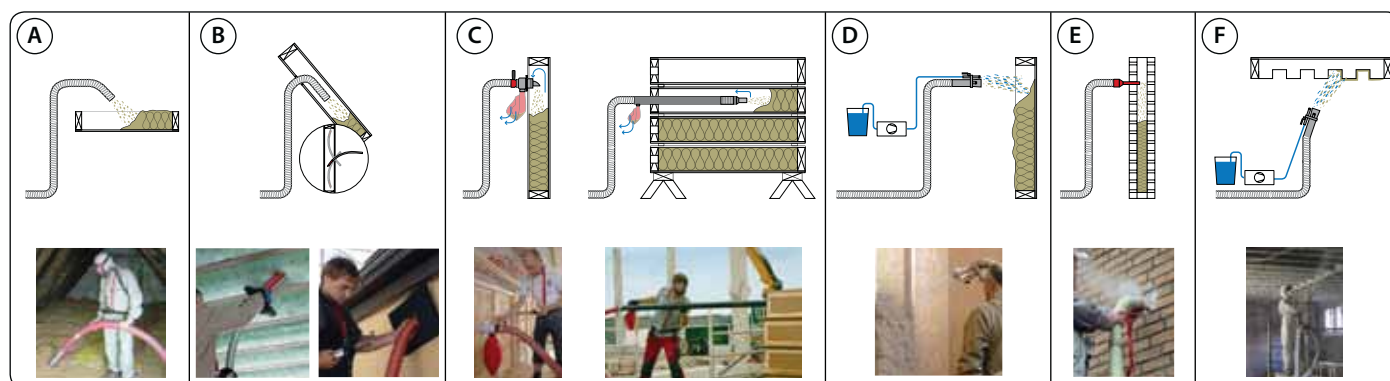
1 Extremely well suited / Best machine choice 2 Well suited 3 Recommended with limitations 4 Not recommended

*1) These examples do not lay any claim to being complete. Is your product listed? If not, please contact us.







*2) Amplifier recommended.

Applications

A: Open/attic blowing · B: Dry injection · C: Dry Injection with ventilation · D: Damp spray/CSO · E: Cavity wall insulation · F: Fire protection

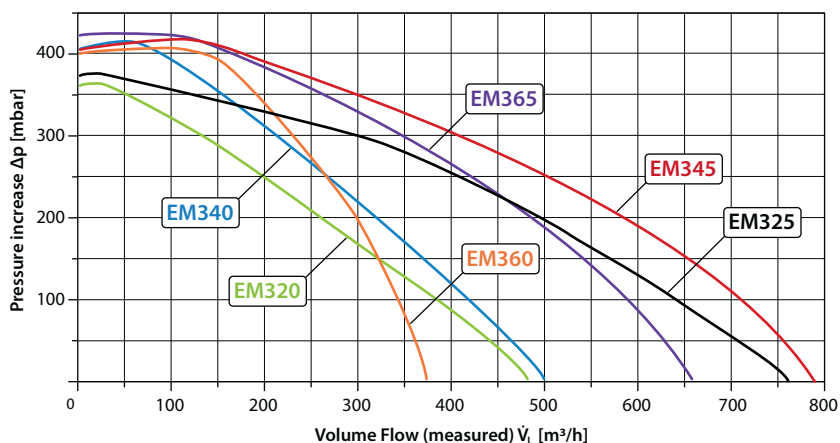


Technical Data

Model	EM320	EM325	EM340	EM345	EM360	EM365
Machine type	EM320-2×230V/7,0kW	EM325-3×230V/10,2kW	EM340-400V/7,3kW	EM345-400V/10,5kW	EM360-400V/6,0kW	EM365-400V/9,2kW
Image						
Product number	5760	6971	5770	7129	6007	6268
Power/material processing speed ^{*1)} (max.)	1050 kg/h	1250 kg/h	1200 kg/h	1400 kg/h	1200 kg/h	1400 kg/h
Hopper	0.315 m³ / Approx. 2 bags of insulation material					
Airlock outlet Ø	NW75 (3") or NW90 (3 ½") ^{*2)}					
Outlet connection Ø	-	NW63 (2 ½")	-	NW63 (2 ½")	-	NW63 (2 ½")
Dimensions (L×W×H)	990×830×1740 mm					990×870×1740 mm
Unladen weight	257 kg	257 kg	262 kg	262 kg	290 kg	290 kg
Filling height	1250 mm					
Airlock ventilation	✓					
Dust removal equipment	✓ Passive (strip curtains) / ✓ active with extraction					
Machine control	KFB2000/FFB2000-Pro					
Shredding and conditioning	✓ 3 Crusher shafts; can be shut down for processing loose bulk materials (e.g. EPS-granulate).					
Shredder	✓ (Can be shut down)					
Airlock feed gate	✓ Steplessly adjustable with crank-handle or ✓ optional with electric airlock feed gate					
Adjustable airlock rotational speed	✓ 10 levels (KFB2000/FFB2000) ✓ 19 levels (FFB2000-Pro)					
Automatic blowing	✓					
Air feed unit	3 High-powered radial compressor	5 High-powered radial compressor	3 High-powered radial compressor	5 High-powered radial compressor	Turbine	Turbine and 2 high-powered radial compressor
Air flow volume (nominal/measured)	590/480 m³/h	995/765 m³/h	585/500 m³/h	960/785 m³/h	380/375 m³/h	795/660 m³/h
Adjustable conveying pressure (max.)	360 mbar	375 mbar	405 mbar	400 mbar	400 mbar	420 mbar
Conveying height ^{*1)} without/with amp. (max.)	45/70 m	45/70 m	45/70 m	45/70 m	45/70 m	45/70 m
Hose length (max.)	150 m	200 m	180 m	200 m	180 m	200 m
Installed air power	2×1,8 + 1,45 kW	3×1,8 + 2×1,45 kW	3×1,8 kW	4×1,8 + 1,45 kW	4,0 kW	4,0 + 1,8 + 1,45 kW
Installed motor power	1,5 kW	1,5 kW	1,85 kW	1,85 kW	1,85 kW	1,85 kW
Power rating	7,0 kW	10,2 kW	7,3 kW	10,5 kW	6,0 kW	9,2 kW
Power supply	2×230V / 16 A ^{*3)}	3×230V / 16 A ^{*3)}	400V / 3×16 A / N / PE	400V / 3×16 A / N / PE and 1×230V~ / 16 A	400V / 3×16 A / N / PE	400V / 3×16 A / N / PE and 1×230V~ / 16 A
Packing density material (max.)	220 kg/m³					

All values approximate. · ^{*1)} Depending on use, material and delivery · ^{*2)} Direct reduction from NW75 (3") to NW63 (2 ½") or NW50 (2") possible
^{*3)} Operation with 1×230V / 50Hz / 16A with reduced air power possible.

Characteristic Curves at 50 Hz



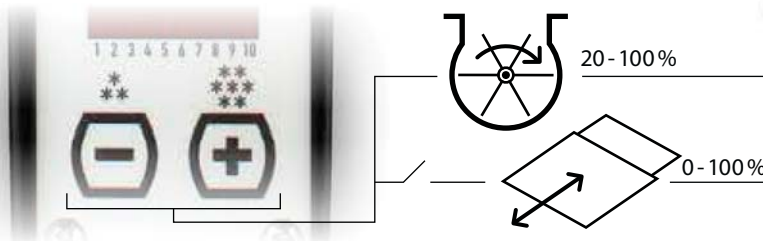


- Contents**
- ▶ One remote with carrying strap
 - ▶ One charger
 - ▶ One receiver with magnet
 - ▶ Two antennas
 - ▶ Quick start guide
 - ▶ Complete foam lined case



The FFB2000-Pro combines the possibilities and advantages of modern digital technology for the insulation pro. All important machine settings for the insulation blowing process can be controlled by the radio remote control.

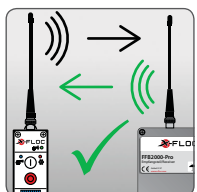
Die FFB2000-Pro is compatible with the insulation blowing machines M99-DS-Pro, M95, EM300, EM400/440 and EM500.



Material flow volume control: Optional airlock rotational speed or electrical airlock feed gate (as from EM300 type possible)

Features:

- ▶ High transmission reliability
- ▶ Individual adjustments
- ▶ Bright adjustment display
- ▶ Light but robust remote control
- ▶ Air power adjustable in 19 levels (20...100 %)
- ▶ Material flow with airlock feed gate adjustable in 19 levels (0...100 %)
- ▶ Material flow with airlock speed adjustable in 19 levels (20...100 %)
- ▶ Dynamic shutdown and dynamic pressure
- ▶ Supplied in a practical suitcase



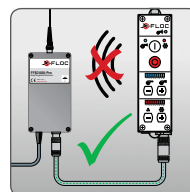
Bidirectional digital radio technology



Four radio channels for interferences on building sites



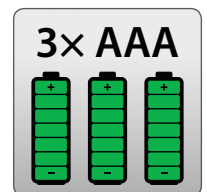
Compatible with X-Floc and other machines



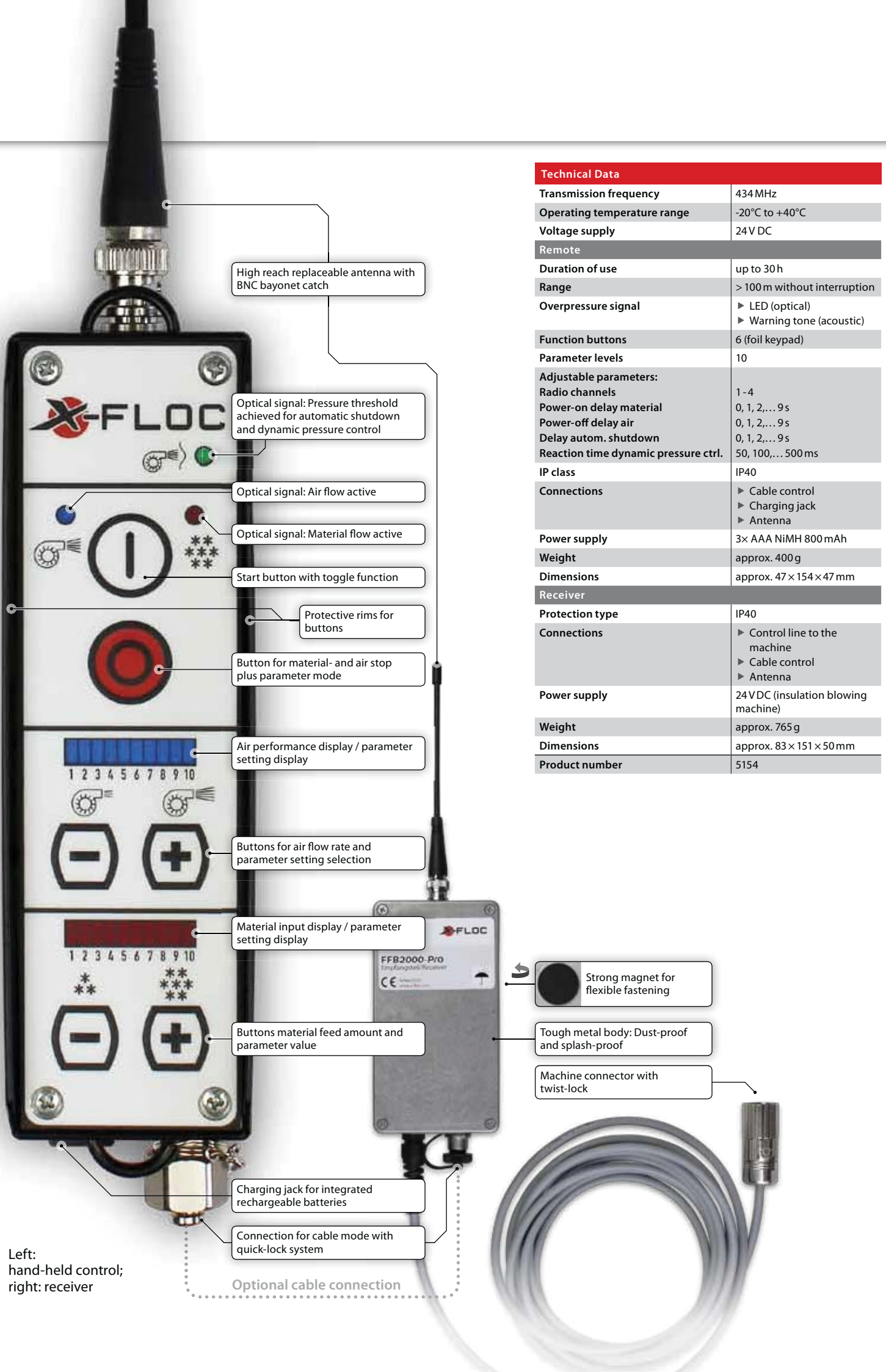
Cable connection possible



Optical and acoustic alarm for overpressure



Standard rechargeable batteries in the remote control



Technical Data

Transmission frequency	434 MHz
Operating temperature range	-20°C to +40°C
Voltage supply	24V DC
Remote	
Duration of use	up to 30 h
Range	> 100 m without interruption
Overpressure signal	<ul style="list-style-type: none"> ► LED (optical) ► Warning tone (acoustic)
Function buttons	6 (foil keypad)
Parameter levels	10
Adjustable parameters:	
Radio channels	1 - 4
Power-on delay material	0, 1, 2,... 9 s
Power-off delay air	0, 1, 2,... 9 s
Delay autom. shutdown	0, 1, 2,... 9 s
Reaction time dynamic pressure ctrl.	50, 100,... 500 ms
IP class	IP40
Connections	<ul style="list-style-type: none"> ► Cable control ► Charging jack ► Antenna
Power supply	3× AAA NiMH 800 mAh
Weight	approx. 400 g
Dimensions	approx. 47 × 154 × 47 mm
Receiver	
Protection type	IP40
Connections	<ul style="list-style-type: none"> ► Control line to the machine ► Cable control ► Antenna
Power supply	24V DC (insulation blowing machine)
Weight	approx. 765 g
Dimensions	approx. 83 × 151 × 50 mm
Product number	5154

Left:
hand-held control;
right: receiver

Optional cable connection



Amplifier/Vacuum station				
Type	VS28	VS33	VS40	VS55
Product number	2711	5855	8336	6348
Amplification/Cleaning	✓ / ✓	✓ / ✓	✓ / ✓	✓ / ✓
Active dust removal	✓	✓	✓	✓
Stepless performance regulation	✓	✓	✓	✓
Synchronisation with machine	✓	✓	✓	✓
Power	2,8 kW	3,3 kW	4,0 kW	5,5 kW
Max. overpressure	320 mbar	350 mbar	440 mbar	480 mbar
Max. negative pressure	280 mbar	320 mbar	390 mbar	360 mbar
Max. air blow volume (nom./measured)	440 / 360 m³/h	420 / 400 m³/h	420 / 370 m³/h	470 / 460 m³/h
Air feed unit	High-powered radial compressors	High-powered radial compressors	Turbine	Turbine
Blowing machine compatibility	Outlet pressure ≤ 320 mbar	Outlet pressure ≤ 400 mbar	Outlet pressure ≤ 420 mbar	Outlet pressure ≤ 450 mbar
Noise pressure level	80 dB(A)	78 dB(A)	90 dB(A)	95 dB(A)
Outlet connection/intake socket	NW63 (2½") / NW75 (3")	NW63 (2½") / NW75 (3")	NW50 (2") / NW63 (2½")	NW63 (2½") / NW75 (3")
Operating hours meter	-	✓	-	-
Dimensions (L×W×H)	482 × 358 × 418 mm		600 × 650 × 600 mm	785 × 700 × 580 mm
Weight	23 kg	23 kg	60 kg	100 kg

Other features

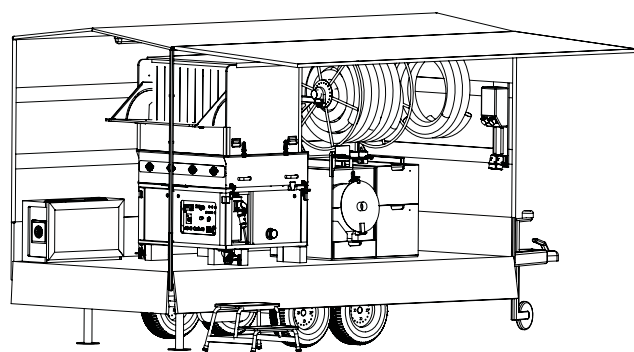
- Complete separation of working and cooling air
- Easily replaceable air filter mats
- Suction function:
Suitable for a number of materials

- Complete separation of working and cooling air
- Simple maintenance
- Fast air filter maintenance by air filter cartridge
- Suction function:
Suitable for a number of materials



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Container



Tarpaulin Cover



1-axel Box Trailer



2-axel Box Trailer

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X-Floc Dämmtechnik-Maschinen GmbH

Rosine-Starz-Straße 12
71272 Renningen · Germany
Phone + 49 - 7159 - 80470 - 30 · Fax - 40
info@x-floc.com · www.x-floc.com

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