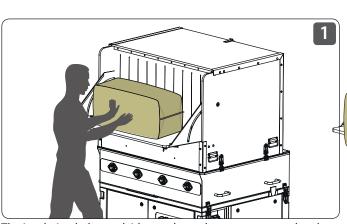
EM400 Insulation Blowing Machine

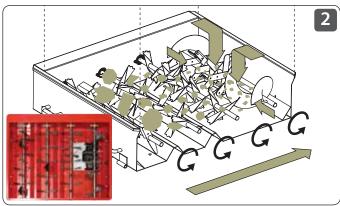




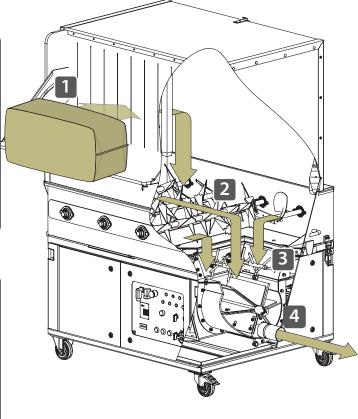
Functional Principle and Standard Equipment

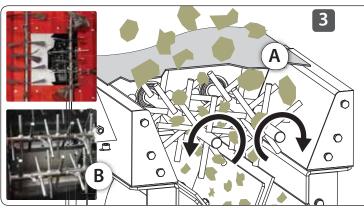


The insulation bales are laid onto the sack support, opened and pushed through the strip curtains into the filling hopper.



Four rotating crusher shafts break the material into smaller pieces and transport the material to the airlock intake.



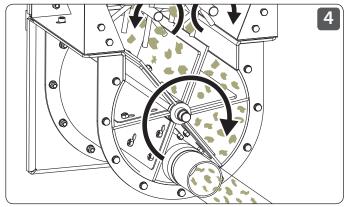




Remote Controlled Airlock Feed Gate

The electrical airlock feed gate (A) enables an accurate material dosing. The airlock feed gate can be controlled with the remote control during or between the blowing injection processes.

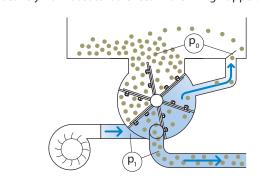
The electrical airlock feed gate (A) doses the material volume into the shredder (B) which ensures the material's fine conditioning.



The cellular wheel transports the material in the lower part of the airlock. The high-powered turbine's air flow accelerates the material and transports it to the airlock outlet in 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 1000 litres which is sufficient for approx. 5-6 bags of insulation material. A foldable support for bags enables an easy positioning, opening and filling. The

transparent strip curtain reduces the dust emissions. The dust extraction connector on the side enables an active dust extraction. The cover plate can be removed for filling the machine from the top.



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







Maintenanc

The machine can be easily opened and enables access for all maintenance jobs. With low vehicles, the filling hopper must be taken off before.



Airlock Outlet

The EM400 series is available with an NW75 (3") or an NW90 (3 1/2") airlock outlet. A direct reduction to NW63 (21/2") or NW50 (2") is optionally available.

The EM440 comes with an additional outlet connection NW63 (21/2") for the integrated amplifier unit.



Electrical Switchboard

Clear, simple and easy to understand controls as well as high-quality components.



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

Mobility

The EM400 can be used mobile on a vehicle, on a trailer or stationary. It's easy to move with its heavy duty wheels with low rolling resistance.



Dust Extraction

The dust extraction connector at the filling attachment enables an active dust extraction. For this purpose, an external amplifier station or the EM440's amplifier unit and a suction drum is required.



Configuration Options



EM440 with 230 V or 400 V Power Supply

The EM440 is optionally available with a 400 V or 230 V power supply. This way, an alternative machine with 230 V is available even in the high-performance range.

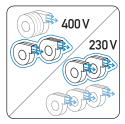
See technical data last page...



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



Integrated Amplifier Unit

The EM440 is comes with two additional radial compressors for increasing the air power (see characteristic curves rear page). The additional compressors are necessary for processing heavy or long fibre insulation materials.

Prod. no. 6253 (230 V) / 4662 (400 V)



DS Add-on: Remote Controlled Airlock Rotational Speed

This additional option enables the remote controlled adjustment of the airlock rotor's and the shredder's speed. In combination with a remote controlled airlock feed gate's position, the optimal material flow volume can be choosen directly from the injection point.

Prod. no. 5060

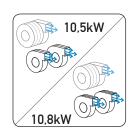


Pressure Relief Valve

Component parts can be damaged if the blowing injection pressure is too high or the permitted installation density is exceeded.

With different weight plates you can adjust the pressure at which the unit de-aerates. This happens in a split second.

Prod. no. 4038



EM440-10,8kW

With this version, the additional air feet unit can still provide air up to a counterpressure of approx. 360mbar in addition to the 5-stage turbine's air. This can be an advantage especially in situations where a dry injection through relatively small diameters is necessary.

Prod. no. 8126



Cleaning

The EM400 enables a cleaning of the workspace in combination with a suction drum as collection container. The suction drum will be connected at the EM400's suction hood.

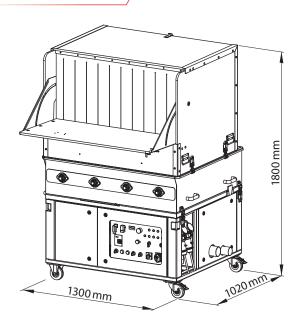


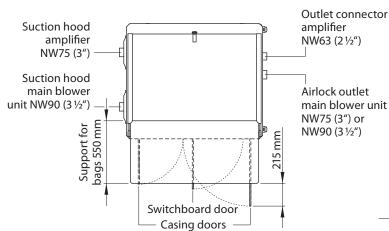
Stationary Use

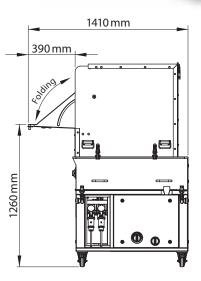
The EM400's full potential can be experienced during a stationary filling. In conjunction with the GBF1050 bale conditioning system or other systems, the EM400 becomes part of a production line for off-site construction.

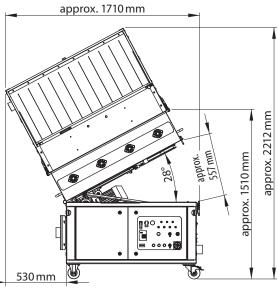


Dimensions







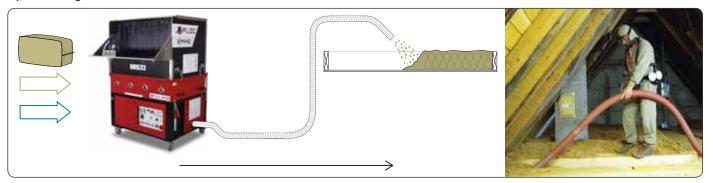


Blowing Injection Processes

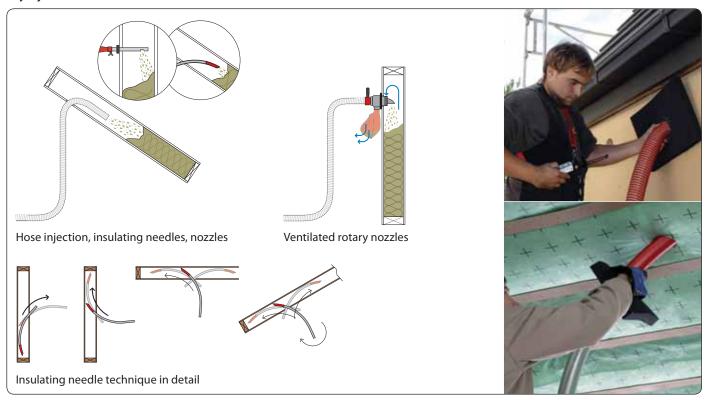
Different architectural styles and construction designs require variable methods in the blowing injection processes. We distinguish four different methods. The EM400 is an all-round solution. There are almost no limits when processing loose

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

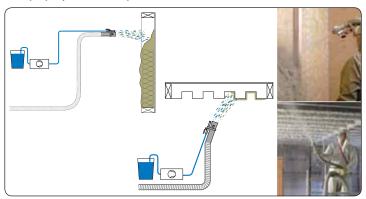
Open Blowing



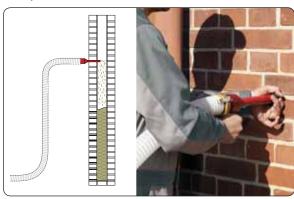
Dry Injection



Damp Spray/CSO/Fire protection



Cavity Wall Insulation





EM400 EM430

EM440





		EM400 / EM430					EM440-400V / EM440-230V						
Cellulose	Applications	А	В	С	D	E	F	А	В	С	D	Е	F
	Suitability	0	0	0	2	0		0	0	0	2	0	

Advanced Fibre cellulose, AislaNat, Applegate, Arbocel 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	А	В	C	D	E	F	A	В	С	D	E	F
	Suitability	*2)	1 *2)	1 *2)		2*2)		0	0	0		8	
Examples *1) Agricell, Airflex, Hoiz, KKS Woodfiber, KKS Woodfiber Granulate, Lignozell, Jasmin, Neptutherm, Steicozell, Thermofibre, Thermocell, Termoträ, Woodycell etc.													
Mineral fibre	Applications	A	В	С	D	E	F	A	В	С	D	E	F
	Suitability	0	0	0	3	2		0	0	0	3	0	

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	А	В	C	D	E	F	Α	В	С	D	E	F
	Suitability	2				8	2	2				8	2
Examples *1) Bachl Perlit HY, Extrape moperl, Thermo-Plan,	erl, Fillrock KD/RG, Hyperdär Thermo-Roof etc.	mm, Hyper	lite KD, Lia	por F2B/3/	4, Perli-Fill	F, Perli-Fill	, Schacoul	ite Roof To	p, SLS20, T	Thermofill	S/S40, The	rmo-Floor,	Ther-
EPS granules	Applications	А	В	С	D	E	F	А	В	С	D	E	F
	Suitability					2						2	

Examples *1)

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

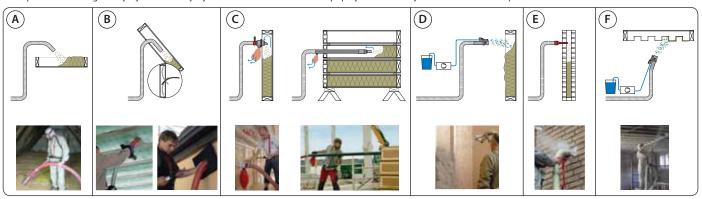
Legend Suitability

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

 $A: Open/attic \ blowing \cdot B: Dry \ injection \cdot C: Dry \ lnjection \ with \ ventilation \cdot D: Damp \ spray/CSO \cdot E: Cavity \ wall \ insulation \cdot F: Fire \ protection$

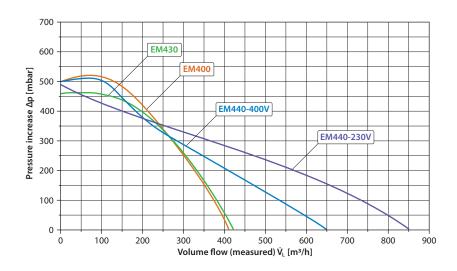


Technical Data

Model	EM400-400V/7.5kW	EM430-400V/9.5kW	EM440-3×230V/10.0kW	EM440-400V/10.5kW						
Image			Amplifier integrated!	Amplifier integrated!						
Product number	3316	5802	6253	4662						
Power/material processing speed*1)	2210kg/h	2400kg/h	2250 kg/h	2300 kg/h						
Hopper	NULTE (2/0)) m ³	AUAIOO (21/1/) ×2)						
Airlock outlet Ø	NW75 (3") or f	NW90 (3 ½") *2)		NW90 (3 ½") *2)						
Outlet amplifier Ø		-	NW63 (2½")							
Dimensions (L×W×H)			1300×1020×1800 mm 427 kg 390 kg 1260 mm							
Unladen weight	410 kg			460 kg						
Filling height										
Airlock ventilation	✓									
Dust removal/support for bags	✓ Passive (strip curtains) / active with extraction									
Machine control	KFB2000/FFB2000-Pro									
Material conditioning	4 Crusher shafts and a shredder with 2 shafts									
Shredder	✓									
Airlock material	Steel									
Airlock feed gate	,	√ 10 levels (KFB2000 ✓ 19 levels (FFB2000-Pro) ✓ manual steplessl	у						
Adjustable airlock rotational speed (optional)		✓ 10 levels (KFB2000) •	19 levels (FFB2000-Pro)							
Automatic blowing		,	/							
Pressure relief valve										
Air feed unit	5-step high-po	owered turbine	5 high-powered radial compressor	5-step turbine and 2 high- powered radial compressors						
Air feed amplification	External amplifier optional Integrated									
Air flow volume (nominal/measured)	450/410 m³/h	450/410 m³/h 490/420 m³/h 975/850 m³/h								
Conveying height*1) without/with amplifier		35/	50 m	'						
Hose length max.	150 m	150 m	180 m	180 m						
Adjust. conveying pressure (max.)	520 mbar	520 mbar	380 mbar	580 mbar						
Installed air flow power	5.5 kW	7.5 kW	2×1.8 + 3×1.45 kW	5.5 + 2×1.45 kW						
Installed motor power		2.0	kW							
Power rating	7.5 kW	9.5 kW	10.0 kW	10.5 kW						
Power supply	400 V / 50 Hz /	3×16A/N/PE	3×230 V~ / 50 Hz / 16 A*3)	400 V / 50 Hz / 3 × 16 A / N / PE und 1 × 230 V~ / 16 A						
Material packing density		2001	kg/m³							

- *2) Direct reduction from NW75 (3") to NW63 (2 ½") or NW50 (2") possible.
 *3) Operation with 2×230V / 50 Hz / 16 A or 1×230 V / 50 Hz / 16 A with reduced air power possible.

Characteristic Curves at 50 Hz



All values approximate.

*1) Maximal values, pending on insulation material and injection method.

Specifications based on average cellulose insulation material.

Remote Control FFB2000-Pro





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

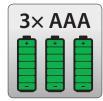


0-100%

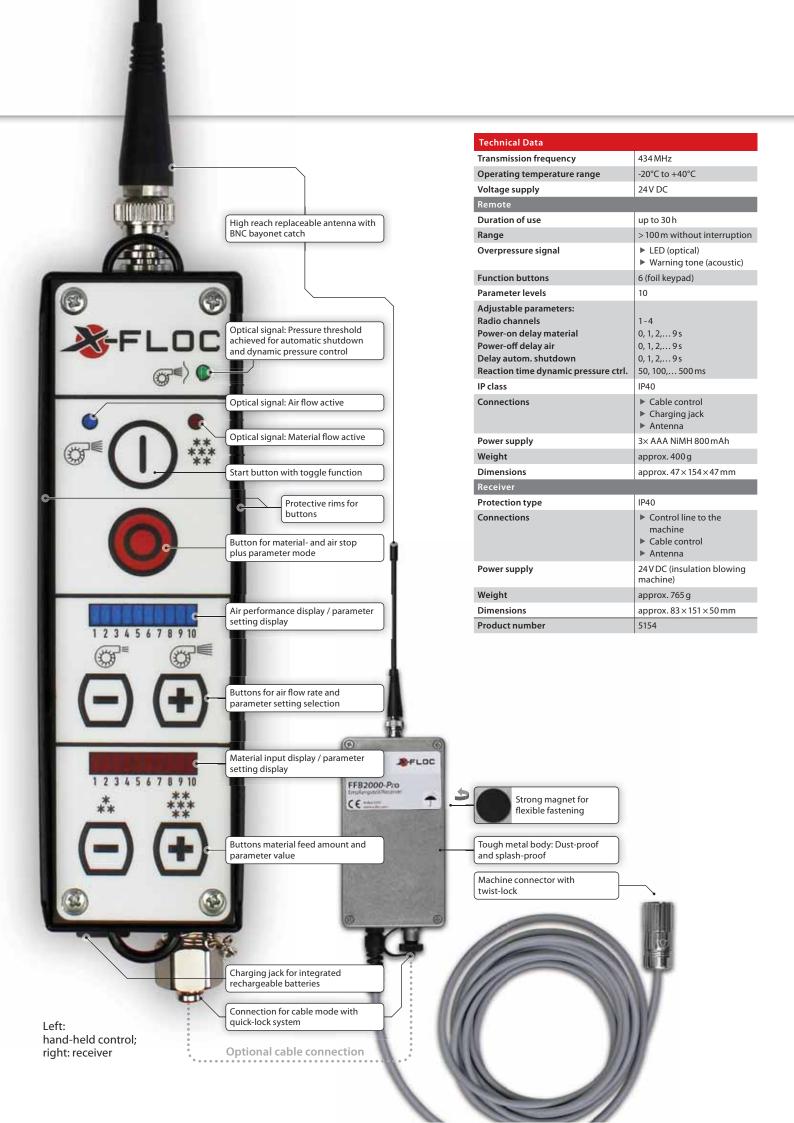
Cable connection possible



Optical and acoustic alarm for overpressure



Standard rechargeable batteries in the remote control



Amplifier/Vacuum Stations



Some insulation materials require a particularly high amount of air in order to perform the insulation properly. Some isolated installation situations require the overcoming high conveying heights or the use of long conveyor lines. Meanwhile, loose insulation materials have to be occasionally removed again.

By using the X-Floc amplifier-/vacuum station technique, you can easily supplement the existing insulation blowing machine to the amplification system or you can use the machine as part of the suctioning process. The devices available range from mobile amplifiers for on-site use (VS28) to stationary solutions, suitable for factory fillings (VS55). All amplifier-/vacuum stations available can significantly increase the insulation blowing machines' overall power or, in combination with suitable accessories, can suction small or large amounts of solid materials in a short amount of time. For optimal harmonization, please refer to the notes "Amplification of the insulation blowing

VS28

machines' air performances".

Complete separation of working and cooling air
 Suction function:
 Suitable for a number of materials





VS33

VS40

VS55

Amplifier-/Vacuum station				
Туре	VS28	VS33	VS40	VS55
Product number	2711	5855	8336	6348
Amplification/Cleaning	√/√	√/√	√/√	√/√
Active dust removal	✓	✓	✓	✓
Stepless performance regulation	✓	✓	✓	✓
Synchronisation with machine	✓	✓	✓	✓
Remote Control	✓	✓	✓	✓
Power	2,8 kW	3,3 kW	4,0 kW	5,5 kW
Max. overpressure	330 mbar	370 mbar	430 mbar	550 mbar
Max. negative pressure	300 mbar	340 mbar	380 mbar	500 mbar
Max. air blow volume (nom./measured)	440/400 m³/h	620/580 m³/h	430/390 m³/h	390/350 m³/h
Air feed unit	High-powered radial compressors	High-powered radial compressors	Turbine	Turbine
Suitability Insulation Blowing Machine*	Outlet pressure ≤ 320 mbar	Outlet pressure ≤ 400 mbar	Outlet pressure ≤ 420 mbar	Outlet pressure ≤ 520 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")	NW63 (2½") / NW75 (3")	NW63 (2½") / NW75 (3")
Operating hours meter	0	✓	0	0
Dimensions (L×W×H)	482×358×418 mm	482×358×418 mm	600×650×600 mm	785×700×580 mm
Weight	23 kg	23 kg	60 kg	100 kg

^{*} Required minimum outlet pressure at the blowing machine.

 $[\]begin{cal}O\end{cal}$ Optional available with operating hours meter.





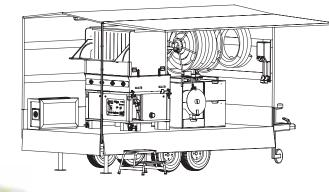






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telefoon: 020 4639057

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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