X-FLOC

Shaping the future of insulation

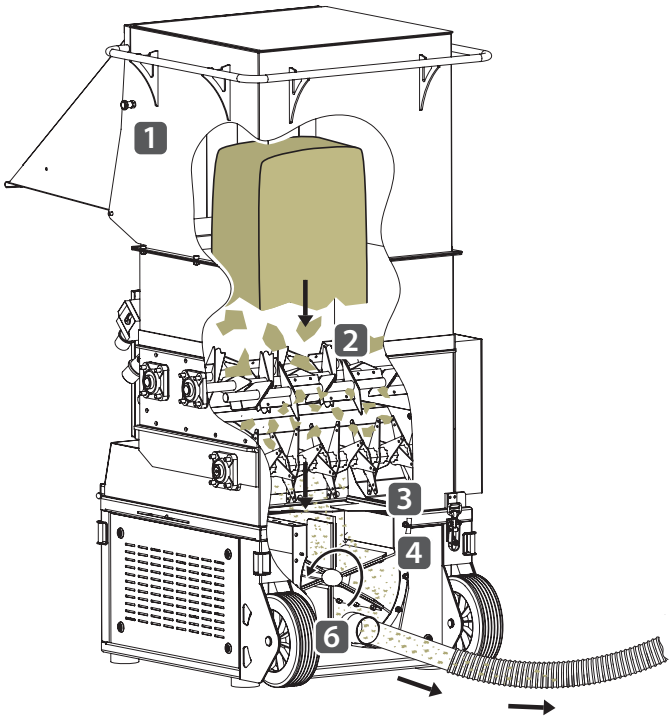


EM300 series BLOW-IN MACHINES

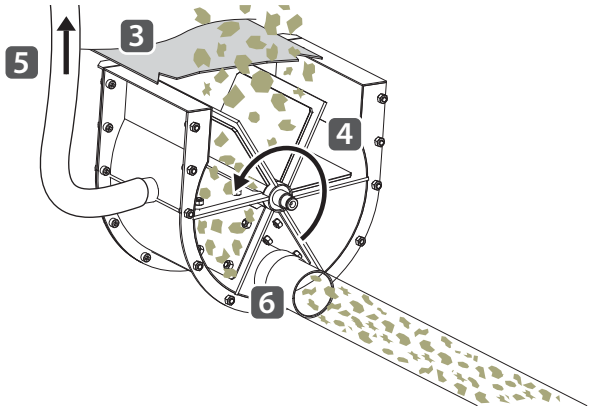
FOR VERSATILE PROFESSIONAL APPLICATIONS

Operating principle

The insulation material fed into the blow-in machine is first coarsely broken up by the three high-speed crushing shafts and then enters the shredding unit, which ensures optimum fine disintegration. Finely crushed, the insulation material falls into the rotating rotary airlock. At the lower airlock point, the material is blown out of the airlock chamber via a blow-out nozzle and delivery hose into the component, blown open or sprayed.



Ventilation

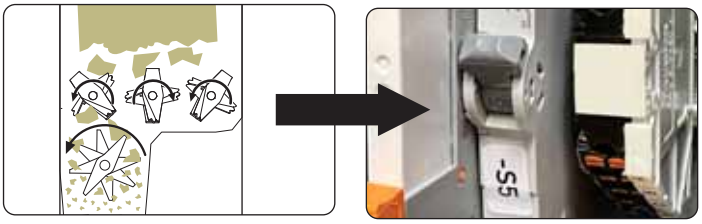


Structure

1 Hopper
The delivery isolation material container is placed on the opened bag support, opened and pushed through the strip curtain into the storage container. The hopper lid can be removed for filling material from above.

2 Material conditioning unit
The powerful material conditioning unit consists of three wear-free, low-maintenance crushing shafts and a large chipping shaft. For processing EPS granulates, for example, the scarifier can be switched off in the control box (switch S5).

Switching off the material conditioning unit



3 Airlock feed gate
The EM300 series is equipped with a rotational speed controller and a manual airlock feed gate for metering the amount of material as standard.
With the optional electric airlock feed gate, the material quantity and other important settings can be made directly from the workplace using the remote control during or between injection processes.

4 Rotary airlock
The finely broken down insulation material is transported to the blow-out nozzle via the chambers of the rotating rotary airlock. Acceleration is provided by the air flow generated by the turbine and/or high-performance radial compressors.

5 Airlock ventilation
The airlock venting system significantly increases the efficiency of the airlock and at the same time prevents dust from being whirled up in the filling unit.

6 Airlock outlet
The EM300 series is equipped with a NW75 (3“) airlock outlet (material and air) as standard and can be optionally upgraded to NW90 (3½“) and as an option it‘s available with direct reduction. The EM3x5 variants with integrated amplifier have an additional NW63 (2½“) outlet nozzle (air). The amplifier air is routed past the airlock and fed externally into the delivery hose via a Y-piece. This serves to optimise the performance.









Blow-in machines of the EM300 series

The compact high-performance blow-in machines of the EM300 series are characterised by their particular performance and their versatility in terms of processing materials.

Cellulose, wood fibre, mineral fibre, granulates and many others: almost all insulation materials can be processed excellently with the machines of the EM300 series.



Thereby a hinged storage surface facilitates the filling with bagged material. The transparent strip curtain reduces dust leakage and for processing granulates and other loose bulk materials, the upper cover of the storage container can be removed and the blow-in machine filled from above.



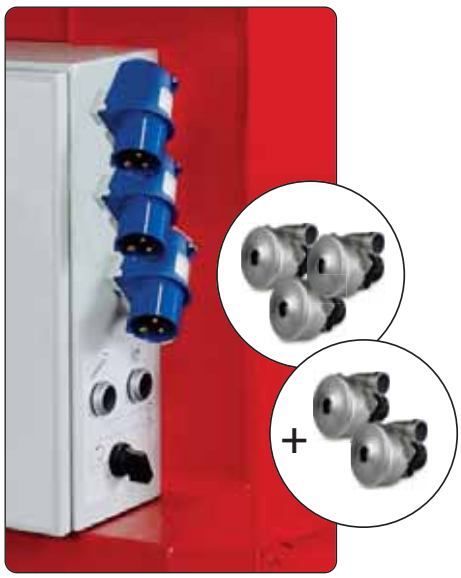
All injection methods are possible with the EM300 series blow-in machines. A motor-driven turbine and several radial compressors ensure maximum performance. These machines also master very demanding conditions effortlessly without additional modules.

An optimum of possibilities: The EM300 machine types are available with 400V and/or 230V power supply. Depending on the application and requirements, the machine (e.g. 3x230V) can also be operated with only one or two occupied connections.

EM320



EM325



EM365

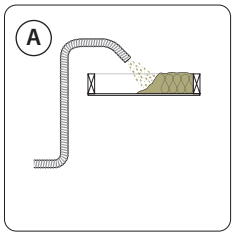


Blowing methods and insulation material

The different building styles as well as types of construction require different working methods. In addition, the amount of air and pressure required for optimal processing is also depending on the insulation material, for example.

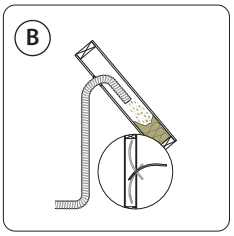
The X-Floc blow-in machines of the EM400 series are virtually an all-round solution in terms of both the blowing method and the insulation material. There are almost no limits to the processing of loose insulation materials.

Open/attic blowing



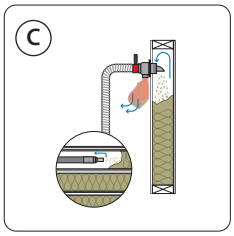


Dry injection



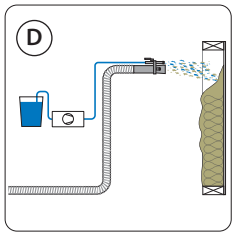


Dry injection with ventilation



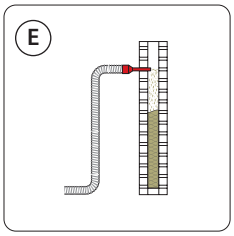


Damp spraying/CSO



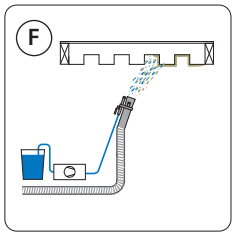


Cavity wall insulation





Fire protection





Blow-in insulation materials product groups

Cellulose

AISLANAT, Arbocel Climasafe, Cellisol 300, Cellisol 500, Warmcel, Warmcel 500, Zellofix, Ouatex, Eurocellulose, cellulose V1, Vosges Cellulose, Eurocellulose SB, cellulose V3 SB, Vosges Cellulose S B, FranceFloc B, Ecofloc B, Cell la vie B, Néocell B, Optimum MP, Climacell S, Climacell pure, Climacell akust, Climacell inside, Climacell sonic, cellfloc, climacell Loft, climacell InduTec, climacell HSX, climacell FSX, climacell Green Nature, Unifloc, Witherm, DÄMMSTATTs CI 040, KLIMA-TEC-FLOCK, biocell, DÄMMSTATTs CI Dämmschüttung, DÄMMSTATTs CI 040 bf, KLIMA-TEC-FLOCK bf, biocell bf, DÄMMSTATTs CI Dämmschüttung bf, DAEMMSTATT D, Isocell D, Trendisol D, Dobry-Ekovilla D, DAEMMSTATT D bf, Isocell D bf, Trendisol D bf, Dobry-Ekovilla D bf, Isocell P, Isocell for you, FLOCO'MOBIL Dämmflocke, Floci-Cell, WoodyCell+, WoodyCell Plus, WOODY-CELL, isofloc, isofloc L, isofloc L+, isofloc LW, isofloc LM, swissfloc, isofloc eco, isofloc neo, easyfiber, CelluBOR SW, OUATECO PREMIUM, JUST BE GREEN, ISOL+, OUATECO, OUATECO NATURE, STEICOfloc, STEICOfloc NB, THERMOFLOC F / B, GREENFLOC, Clima-super, Isocell, trendisol, Isodek, Dobry-Ekovilla, Fibra-Natur, Domexcell, Pavafloc, Renocell, Isolare, Poesis, isECO, ISOCELL F, greenwool, clima-super Evolution, Isocell Evolution, greenwool Evolution, isECO green, clima-super lambda+, clima-super max, Isocell lambda+, greenwool lambda+, isECO lambda+, isECO max, trendisol lambda+, Wolfinger Zellulosedämmung, STT Floc, Ekovilla, Ekovilla Puru, Ekovilla IA, Isonem, Isolet, UpCell, GreenCell, Climatizer plus,Thermocel, La cellulosa, Easycell, Celisol, Isofloc EU 01, WarmFiber, WarmFiber Plus, Termex, Termex Green, Ekocell, Ekocell Green, Kätevä, Kätevä Green, iQ3 CELLULOSE, CELLIPURE, ISOLANT ECOLOGIQUE SEMI, DOMOSANIX, CELLECO etc.

Wood fibre and Mineral fibre

GUTEX Thermofibre, GUTEX Thermofibre FQ, WOODYCELL SW, AIRFLEX, best wood FIBRE, Hoiz, Jasmin, STEICO zell, Thermocell in-situ formed loose fill insulation, Termoträ Original, Termoträ Fire Protect, Climawood, InsulSafe, Supafil Cavity Wall, Supafil Loft Plus, Supafil Timber Frame, Supafil Max Frame, Teko-Flock, Indi-Flock, Trendi-Flock, swissporROC, COOMBLISSIMO, FLOCOLENE, TECHWOOL, Fillrock KD Plus, Fillrock KD, Fillrock RG Plus, Fillrock RG, Conlit Firesafe, PAROC BLT 5, DOSSOLAN THERMIQUE, Climastone, Climaglass, naturheld Holzfaser Einblasdämmung etc.

Mineral granules/ EPS granules

BIT Perlit Bachl, HY Perlit Bachl, Neopor, Hyperdämm, Hyperlite KD, Thermoperl, 2K Perlit Flachdachdämmung, Extraperl S4, Thermo-Fill, Thermo-Floor, Thermo-Plan, Thermo-Roof, ISOPLUS100 BEPS-WD, SLS 20F, SLS20 Plus, Perli-Fill, Poraver Blähglas-Granulat, Bauhaus DSX100, Geocell Blähglas, JASS Wärmedämmschüttung, Liaver, NEVOLIT, Climastyren, ThermoWhite WD 100 R, ISO Plus BINDER WD 100R, ThermoWhite WD 70 R (RN), ThermoWhite WD 130 R, HIRSCH PoroBead 033, H2 Wall, Granu-blow 033, HIRSCH Poro-Bead Plus, H2 Wall Plus, Granublow Plus, Isofloc Pearl, RigiBead Premium 033, RigiBead 035, SwissporEPS Perlen, SwissporEPS Styromull, airpor level 3.0, airpor level 3.0 A, airpor rapid, airpor light, BACHL niveauTHERM 160 Premium, BACHL niveauTHERM 160 Premium-PLUS, BACHL niveauTHERM 400 Premium, BACHL niveauTHERM 400 Premium-PLUS, HK33, TF Pearls, GRANU-PUR, Neopixels Premium HR Insulation, thermotec BEPS-WD 130R, thermotec BEPS-WD 70N, Ecofibre EPS 033 Kerndämmung etc.

Fire protection plaster and other insulation material

IISOVER FireProtect 150, ISOVER FireProtect 150F, DOSSOLAN THERMIQUE, DOSSOLAN 3000, DOSSOLAN-HOECO F II/1, Cafco-BLAZSHIEKD DC/F, Cafco-300, FIBREXPAN, Hanf-Dämmwolle HDW, AgriCell BW, Einblasstroh, Bio-Einblasstroh, Thermostroh, Thermostraw, Blown straw insulation, Plantacell, Stroheinblasdämmung, Sonnen-Stroh, SunStraw, Blowstraw, Blow-in straw, Loose fill straw insulation, SonnenKlee-Einblasstroh, GREENFLOC, Thermofloc-Dämmpellets, G-tec gebundener Dämmkork, Iso-Stroh, Flachsfloc, Lopas-Strohhäckseldämmung, CEMWOOD CW 1000 / CW 2000, ISOLENA-BLOCK, ISOLENA-OPTIMAL, ISOLENA-PREMIUM, ISOLENA-KLEMMFILZ, ISOLENA-OPTIMAL PLUS, MEHABIT, MEHAPORT, MEHASPORT, NeptuTherm, Calor, THERMO JUTE DUO, THERMO JUTE 100, THERMO JUTE 100 PLUS, Métisse Flocon, FonaTerm - granular, REINFLOCK, Conluto, JOMAperl etc.

Table does not claim to be complete. X-Floc will check other products upon request.













Which blowing machine for your application?

The machines of the EM300 series are suitable for all insulation materials and blowing methods. However, you can choose a design optimally matched to your needs from the various machine types. Contact us - we will be happy to advise you!

Product series	EM300	EM300	EM300
Machine type	EM320-2x230V/7,0kW	EM325-3x230V/10,2kW	EM365-400V/9,2kW
		 Amplifier integrated	 Amplifier integrated
Article number	**5760**	**6971**	**6268**
Power/Material processing speed	1050kg/h	1250kg/h	1400kg/h
Hopper	0,315m³	0,315m³	0,315m³
Airlock outlet ø	NW75 (3“) optional NW90 (3½“) or direct reduction possible		
Dimensions (LxWxH)	990x830x1740mm	990x830x1740mm	990x830x1740mm
Unladen weight	257kg	270kg	302kg
Filling height	1250mm	1250mm	1250mm
Airlock ventilation	●	●	●
Dust removal/Support for bags	passive (strip curtain) / active (dust extraction)		
Machine control	Cable remote control KFB2000 or radio remote control FFB2000-Pro		
Material conditioning	Crusher shafts (3 rotating shafts) disengageable for processing of bulk material (e. g. EPS granules)		
Shredder	●	●	●
Airlock feed gate adjustable	Continuously manually / with electrically adjustable airlock feed gate (optional)		
Airlock rotational speed adjustable	10 levels cable remote control KFB2000 / 19 levels radio remote control FFB2000-Pro		
Automatic blowing	●	●	●
Air generator	3 high-powered radial compressors 2x1,8kW + 1x1,45kW	5 high-powered radial compressors 3x1,8kW + 2x1,45kW	Turbine 4,0kW and 2 high-powered radial compressors 3,3kW
Dynamic pressure max. (adjustable)	360mbar	375mbar	420mbar
Air feed amplification	External amplification optional e. g. X-Floc Amplifier/vacuum station VS28/VS33, VS55M/VS75M		
Air volume (nominal/measured)	590/480m³/h	995/765m³/h	795/660m³/h
Aspiration with suction hood	●	●	●
Conveying height (w, w/o amplifier)	>45m	>70m	>70m
Hose length L=max.	150m	200m	200m
Motor	1x3-phase, 1,1kW and 1x3-phase, 0,75kW	1x3-phase, 1,1kW and 1x3-phase, 0,75kW	1x3-phase, 1,1kW and 1x3-phase, 0,75kW
Power rating	7,0kW	10,2kW	9,2kW
Power supply	2x230V/50Hz/16A	3x230V/50Hz/16A	400V/50Hz/3x16A/N/PE and 1x230V/16A
Max. material packing density	220kg/m³	220kg/m³	220kg/m³

Compatibility table																			
Cellulose	Applications	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F
	Suitability	●	●	●	●	●	-	●	●	●	●	●	-	●	●	●	●	●	-
Wood fibre	Applications	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F
	Suitability	●	◍	◍	-	○	-	●	●	●	-	◍	-	●	●	●	-	●	-
Mineral fibre	Applications	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F
	Suitability	◍	◍	◍	◍	◍	-	●	●	●	◍	●	-	●	●	●	◍	●	-
Mineral granules	Applications	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F
	Suitability	●	-	-	-	◍	●	●	-	-	-	◍	●	●	-	-	-	◍	●
EPS granules	Applications	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F
	Suitability	-	-	-	-	●	-	-	-	-	-	●	-	-	-	-	-	●	-
Fire protection plaser, Others	Applications	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F
	Suitability	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

A = Open/attic blowing | **B** = Dry injection | **C** = Dry injection with ventilation | **D** = Damp spraying/CSO | **E** = Cavity wall insulation | **F** = Fire protection
● suiable/yes | ◍ recommended with limitations | ○ not recommended/no/- not specified All values approximate.

Equipment options

		Art.no.
	**Radio remote control FFB2000-Pro** Bidirectional radio technology, four radio channels, high transmission reliability	5243
	**Electrical airlock feed gate** **for machine type EM32x** **for machine type EM34x/EM360** remote controlled with FFB2000-Pro	7448 7749
	**Direct extension NW75>NW90** Airlock outlet nozzle for extension of NW75 (3“) > NW90 (3½), suiable for delivery hose NW90	6746
	**Mains voltage indicator** **for 230V power supply** Installation in EM32x for detection of voltage supply fluctuations	4604
	**Mains adapter distributor** 400V-CEE > 3x230V-Schuko with connection cable, for machine type EM32x	9481
	**Fastening element set** for safe transport mounting of an EM3xx on a horizontal surface	10372
	**Mains adapter Phases and neutral conductor monitoring 400V** with interruption protection for machine type EM34x/EM360	4553
	**Mains adapter 400V/16A, 25m ring** with CEE plug and CEE coupling, 5-pole, 16A	2492
	**Mains adapter socket strip 400V/32A > 2x400V/16A** with CEE-plug, 5-pole and 2m cable for machine type EM365	7273
	**Mains adapter 400V/32A, 10m ring** with CEE plug and CEE coupling, 5-pole, 32A	6588
	**Direct reducer NW75>NW63** Reducer NW75 (3“) > NW63 (2½“), for insertion into the airlock outlet nozzle of the blow-in machine	526
	**Direct reducer NW75>NW50** Reducer NW75 (3“) > NW50 (2“), for insertion into the blow-out nozzle of the blow-in machine	1972

		Art.no.
	**Suction drum V=115l** with swivelling lid. Tape fabric bags and connection parts included in the scope of delivery.	1160
	**Suction drum V=250l** with swivelling lid. Tape fabric bags and connection parts included in the scope of delivery.	3075
	**Emergency stop button with housing** Suitable for all machines with remote controls KFB2000, FFB2000 or FFB2000-Pro	5863
	**Power distributor 400V/16A PRCD-S** Type B, mobile, with integrated all-current sensitive residual-current protection	9271

Sample order size

Example: High-performance blow-in machine EM365



- EM365 **(Art. no. 6268)**
- Radio remote control FFB2000-Pro **(Art. no. 5243)**
- Accessories set NW75/63 for loose insulation material (non-abrasive) **(Art. no. 5246)**
- Injection bezel universal **(Art. no. 9209)**
- Blow-in needle NW75-180 **(Art. no. 6711)**
- Hose reel NW75 – D1000 plus **(Art. no. 6464)**
- Hose reel accessories set **(Art. no. 5845)**
- Density test set NW100 with case **(Art. no. 4348)**

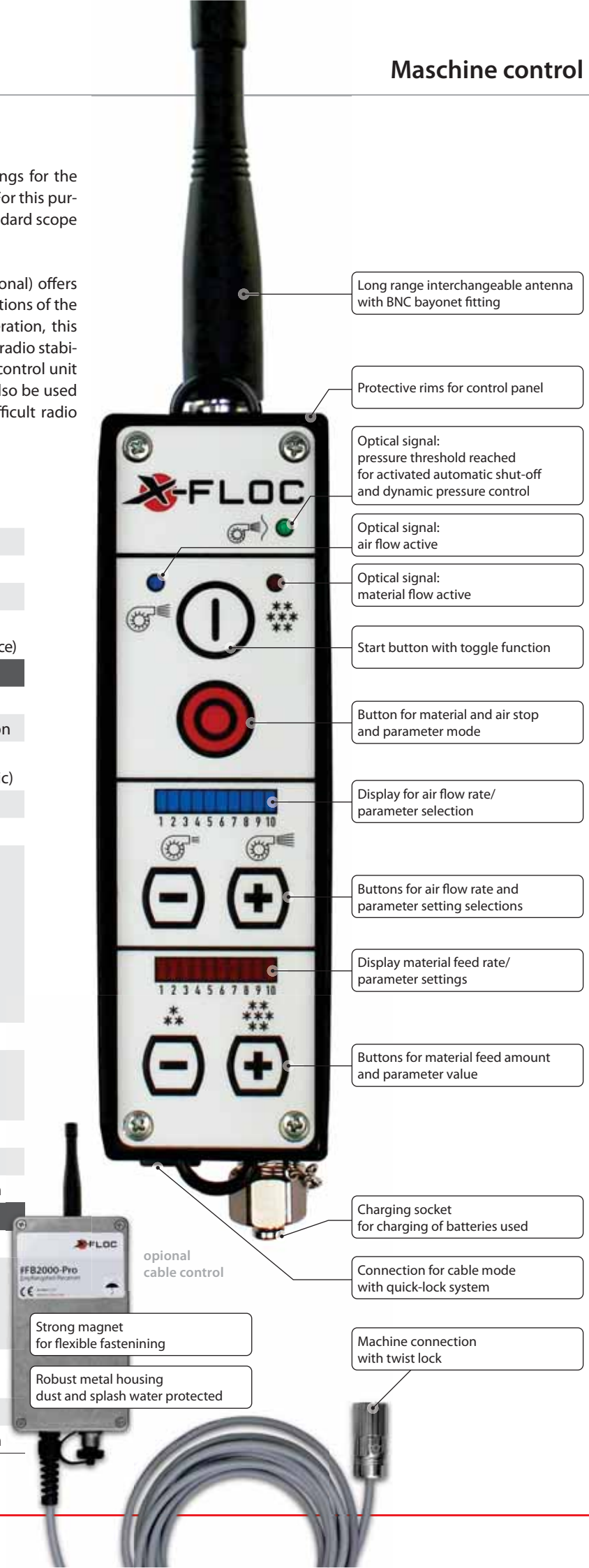
Radio remote control FFB2000-Pro

With the aid of the remote control, many important settings for the injection process can be made directly from the work site. For this purpose, the KFB2000 cable control unit is included in the standard scope of delivery for all machines in the EM300 series.

The bidirectional radio remote control FFB2000-PRO (optional) offers some additional functions over and above the proven functions of the KFB2000. In addition to its compact size and simple operation, this control is characterised by very fast response and excellent radio stability. With an optional connecting cable between the hand control unit and the receiver, the FFB 2000-Pro radio control unit can also be used as a cable control unit (e.g. on construction sites with difficult radio connections).

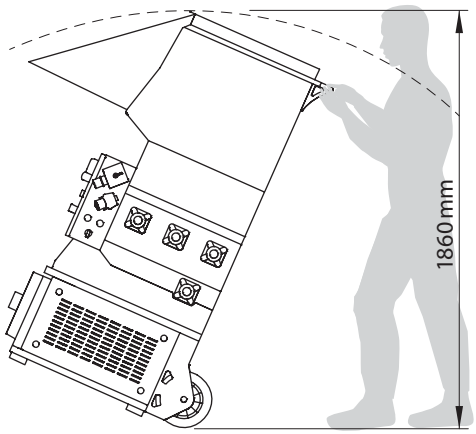
Technical data

Transmission frequency	434MHz
Operating temperature range	-20°C to +40°C
Voltage supply	24V DC
Radio channels	4 (for construction sides with source of interference)
Hand control unit	
Duration of use	up to 30h
Range	>100m w/o interruption
Overpressure signal	LED (optical) warning tone (accoustic)
Function buttons	6 (foil keypad)
Parameter levels	10
Parameters adjustable: Radio channels Switch-on delay material Switch-on delay air Delay time: Automatic switch-off Response time: Dynamic pressure control	 1-4 0, 1, 2, ...9s 0, 1, 2, ...9s 0, 1, 2, ...9s 50, 100, ...500ms
Protection class	IP40
Connections	cable control charging socket antenna
Power supply	3x AAA NiMH 800mAh
Weight	approx. 400g
Dimensions	approx. 47x154x47mm
Receiver	
Protection class	IP40
Connections	control line to the machine cable control antenna
Power supply	24V DC (from blow-in machine)
Weight	approx. 765g
Dimensions	approx. 83x151x50mm

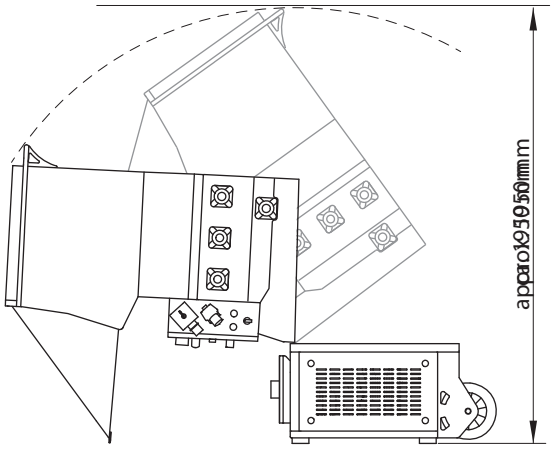


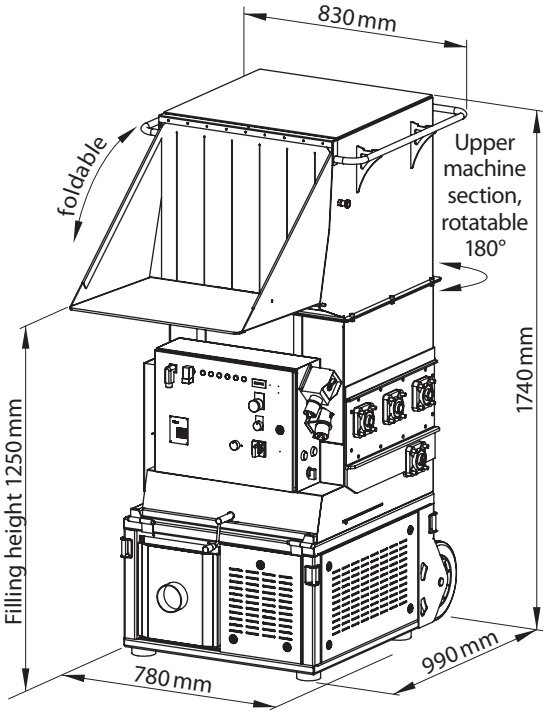
Dimensions

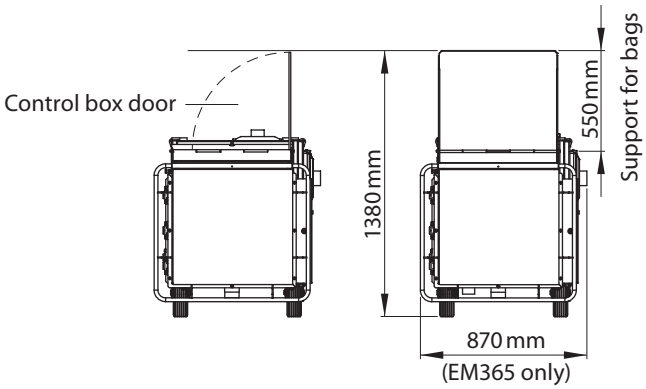
Maximum tipping height



Maximum opening height







Mobility and ease of maintenance

All machines of the EM300 series impress with their robust design and compact dimensions. In relation to their high performance, they are easily manoeuvrable and, thanks to the site-ready tyres, they can be manoeuvred like a sack truck.

The upper machine section can be folded down, whereby the bag support can serve as a second leg. In this way, all machine elements are easily accessible and the necessary maintenance work can be carried out with a light hand.





Reinforcement as desired

The EM3x5 machine types are equipped with an integrated amplifier unit as standard. Optimised in this way for air performance, these blow-in machines can cope with virtually any challenge, even under difficult conditions.

These include, for example, insulating materials that require a particularly high air volume for professional installation. Occasionally, certain installation situations also require the overcoming of large incline heights or the use of long delivery hoses. In the meantime, loose insulation materials also have to be removed from time to time.

For this purpose, the EM3x0 machine types can be perfectly supplemented with an external amplifier/vacuum station and used in conjunction with a suction drum for active dust extraction or cleaning.

The amplifier/vacuum stations are also equipped with light, powerful radial fans or turbines. They are available as standard in the compact portable version (VS28/VS33) or as mobile version with hand truck function (VS55M/VS75M).

Main application areas of the X-Floc VS series::

- Reinforced blowing (with dust extraction)
- For large inclines, heavy insulation material
- As extraction station (cleaning or deconstruction old building materials)





Amplifier/Vacuum stations



VS28



VS33



VS55M



VS 75M

Amplifier/Vacuum station					
Type	VS28	VS33	VS55M	VS75M	Special versions on request
Article number	2711	5855	9455	9793	
Amplification/cleaning	●/●	●/●	●/●	●/●	
Active dust removal	●	●	●	●	
Stepless performance regulation	●	●	●	●	
Synchronisation with machine	●	●	●	●	
Remote control	●	●	●	●	
Power	2,8 kW	3,3 kW	5,5 kW	7,5 kW	
Max. overpressure	320 mbar	350 mbar	500 mbar	600 mbar	
Max. negative pressure	280 mbar	320 mbar	450 mbar	550 mbar	
Max. air volume (nominal/measured)	440 / 360 m^3/h	420 / 400 m^3/h	470 m^3/h*	390 m^3/h*	
Air feed unit	high-powered radial compressor	high-powered radial compressor	5-stage turbine	5-stage turbine	
Outlet nozzle/intake socket	NW63 (2½") / NW75 (3")	NW63 (2½") / NW75 (3")	NW63 (2½") / NW90 (3½")	NW63 (2½") / NW90 (3½")	
Dimensions (L×W×H)	482×358×418 mm	482×358×418 mm	605×560×750 mm	605×560×750 mm	
Weight	approx.19,5 kg	approx. 19,8kg	approx. 65kg	approx. 88kg	
Operating hours counter	○	●	-	-	
Mains voltage display	○	○	-	-	

* free-blowing ● suitable/yes | ○ recommended with limitation | - not recommended/no/not specified (all values approximate)



Filling the machine with the natural insulation material

Suitable for the CO_2 sink

Concepts for sustainable building are urgently required. Hemp concrete is a natural composite material consisting mainly of the shives of the hemp plant and a lime-based binder. It is used as a natural insulating material for walls, roofs and floors as well as an insulating plaster and, thanks to its negative CO_2 balance, it acts as a CO_2 sink.

Applying hemp lime by spraying requires the most suitable machine: the EM300 series has proven both in tests and in subsequent practice that it is rightly regarded as a safe investment. With the machines of this series, all imaginable insulation materials on the global market can be processed using the appropriate method.



Function test of insulation material and blowing machine

Convince yourself

Feel free to visit our social media channels and get an impression of the performance of our EM300 injection machines with your own eyes. For example:

Damp spraying with Hempcrete Watch video:



Implementation in practice after passing the test

Dust extraction and cleaning

Thanks to the closed filling concept (including a strip curtain), dust emission is already significantly reduced during the filling and blowing-in process. Optionally, the machine can also be equipped for active dust extraction.

With the suction drum required for this as a collection container, it is also possible to clean the work site or construction site. For this purpose, the suction barrel is connected to the suction bonnet of the EM300. In addition, in conjunction with a fluff diverter, it is possible to switch quickly between blowing and suction.



Actively combating global warming with natural insulation



Insulation blowing mobiles

Ready for action wherever you need your equipment.

- **Reduce set-up times – finish early:**
  Everything needed to start blowing right away mounted in a compact mobile trailer for blow-in professionals
- **Suitable for both long and short distance travel:**
  Drive to your construction site at speeds of up to 100km/h
- **Sophisticated concept, including everything you need:**
  - Insulation blow-in machine (EM3xx or EM4xx)
  - Complete electrical installation with illumination
  - Hose reel for efficient storage and suction drum for cleaning
  - Storage system with drawers, accessories, etc.
- **Highly customizable:**
  - Trailers with tarpaulin or box body
  - Available with your logo and advertising
  - Various trailer lengths to increase the loading space, e.g. for insulation material



Tarpaulin trailer

Tarpaulin trailers offer plenty of space for ergonomic workplace layout, a wide range of configuration options and, thanks to different trailer lengths, additional storage space for insulation material. They can cover long distances at speeds of up to 100 km/h and, due to their low weight, are also suitable for small towing vehicles.

Box trailer

Box trailers with rear doors or tail lifts are also well suited for small towing vehicles, approved for speeds of up to 100 km/h and suitable for both short and long distances. The trailers also offer increased theft protection and large exterior surfaces for customised wrapping with your advertising.







Insulation blowing plattform

Similar to the insulation blowing mobile, all the equipment is mounted on a sturdy **1350x2800x1890mm** platform. Forklift shoes and the weight-optimised arrangement of the equipment ensure easy lifting and moving. The platform is available in three versions: as shown on the left (can be retrofitted with a tarpaulin cover) or as a soft cover (tarpaulin) and hard cover (container) variant.

X-Floc worldwide



Feel free to contact our sales team directly:



James Baldock
Sales International

+49 176 89996511
j.baldock@x-floc.com



Florian Greppmair
Lead Business Development and Partnering

+49 163 7595736
f.greppmair@x-floc.com



Wayne Kern
Managing Director (CEO)

+49 7159 80470 541
w.kern@x-floc.com



Steffen Volk
Sales DACH

+49 176 89996512
s.volk@x-floc.com

Please find more information and contact details for our partners abroad on our website:

www.x-floc.com

Your X-Floc representative

X-Floc Dämmtechnik-Maschinen GmbH | Rosine-Starz-Straße 12 | 71272 Renningen | Germany | Tel. +49 7159 80470 30

Prices on request . Published 08/2025 . Subject to changes and errors