

SINCE 1994
GERMAN ENGINEERING

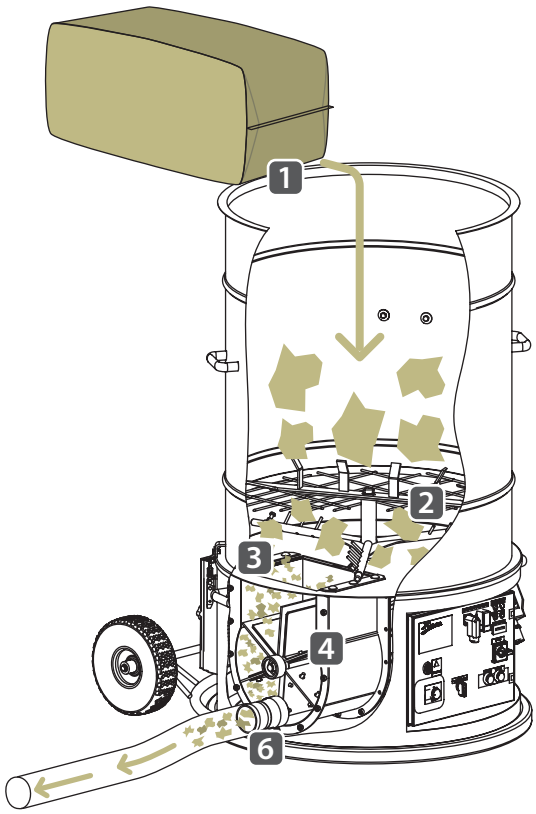
X-FLOC

Shaping the future of insulation

EM95 INSULATION BLOW-IN MACHINE

PROVEN INDUSTRY STANDARD SINCE 1995





Structure and operating principle

1 Hopper and support for bags (option)
The insulation material is filled into the hopper from above. A bag support simplifies the depositing and opening of bagged goods. A shortened hopper plus a dust removal cover are also available as an option.

2 Agitator
The three-stage agitator consists of a shredding arm, a replacement grid and a rake unit.

The rotating **shredding arm universal** shreds the bale into pieces or tears up the insulation material. Welded-on disruptive elements ensure that highly compacted pieces of material are broken up and shredded.

Due to the **replacement grid** only shredded pieces fall into the **rake**, which breaks up the material ready for blowing.
The amount of material that, with the air flow, is blown into the conveying hose is regulated via the airlock speed.

3 Airlock feed gate (option)
For exact metering of the material quantity and uniform material flow (e.g. for spray applications and cavity wall insulation), an additional airlock feed gate is recommended.

4 Rotary airlock
The rotary valve transports the finely divided material into the lower part of the airlock. From there, it is accelerated by the air flow of the high-performance radial compressors and blown or attic blown or sprayed into the component via the outlet nozzle and the conveying line.

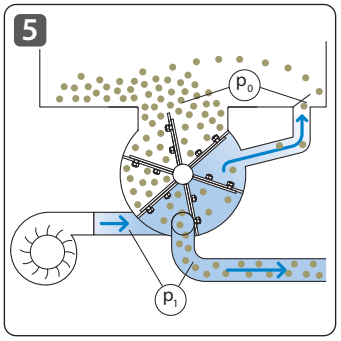
5 Airlock ventilation
Pressure equalisation significantly increases the material throughput and the efficiency of the airlock, while at the same time avoiding dust turbulence in the filling hopper.

6 Airlock outlet
All EM95 machines are equipped with a NW75 (3“) airlock outlet as standard. Optionally, a direct reduction to NW63 (2½) or NW50 (2“) is possible, as well as an upgrade with an outlet nozzle NW90 (3½“). This is suitable for all Zellofant rotary airlocks and can increase the output or material throughput by approx. 35%.









The proven EM95 series

The 'Zellofant' EM95 is an established name among the powerful blow-in machines for professional insulation processing. Since its appearance in 1995, it has been continuously developed and equipped with useful expansion options.
One of its outstanding features is its precise controllability - the amount of material and air can be adjusted to the requirements at any time by remote control. The machine's design is optimised for mobile use and robust plug-in connections ensure safe construction site operation.
The Zellofant M95 series is available in 400V and 230V versions, as well as in various power variants to meet specific needs.



Successful machine concept

The basis for the long-standing success of the EM95 series is the basic concept with removable filling hopper and compact machine base. This makes the machines not only easy to maintain, but also extremely user-friendly.
For example, all connections are easily accessible and the operating and control elements are clearly arranged and labelled on the front of the control box.



EM95-2x230V



EM95-400V

Perfect for mobile construction site use

The EM95 blow-in machine can be easily transported even on very uneven ground thanks to its compact design and pneumatic transport trolley. By loosening the spring clip, the transport trolley can be attached and removed as required. This allows the machine to be moved effortlessly in operation, in the vehicle and on the construction site.

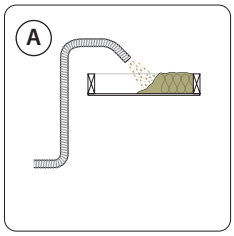


Blowing methods and insulation material

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

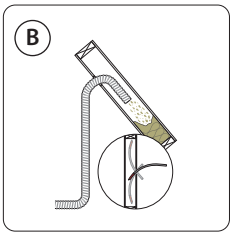
The X-Floc machines of the EM95 series are virtually an all-round solution in terms of both the blowing method and the insulation material. There are almost no limits to the processing of loose insulation materials.

Open/attic blowing



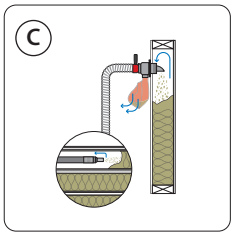


Dry injection



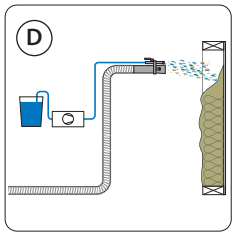


Dry injection with ventilation



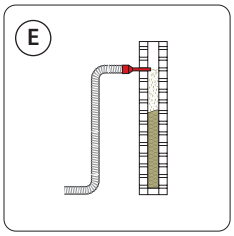


Damp spraying/CSO



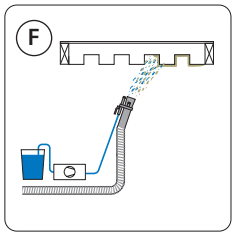


Cavity wall insulation





Fire protection





Blow-in insulation material 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, naturheld Holzfaser Einblasdämmung, WoodyCell+, WoodyCell Plus, WOODYCELL, 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, THERMOFLOC 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

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 etc.

Mineral fibre

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 etc.

Mineral 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 etc.

EPS granules

ThermoWhite WD 100 R, ISO Plus BINDER WD 100R, ThermoWhite WD 70 R (RN), ThermoWhite WD 130 R, HIRSCH PoroBead 033, H2 Wall, Granublow 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

ISOVER FireProtect 150, ISOVER FireProtect 150F, DOSSOLAN THERMIQUE, DOSSOLAN 3000, DOSSOLAN-HOECO F II/1, Cafco-BLAZSHIEKD DC/F, Cafco-300, FIBREXPAN, Hanf-Dämm-wolle HDW, AgriCell BW, Einblasstroh, Bio-Einblasstroh, Thermostroh, Thermostraw, Blown straw insulation, Plantacell, Stroheinblasdämmung, SonnenStroh, SunStraw, Blowstraw, Blow-in straw, Loose fill straw insulation, SonnenKlee-Einblasstroh, GREENFLOC, Thermofloc-Dämmpellets, G-tec gebundener Dämmkork, Iso-Stroh, Flachsfloc, Lopas-Strohhäcksel-dämmung, CEMWOOD CW 1000 / CW 2000, ISOLENA-BLOCK, ISOLENA-OPTIMAL, ISOLENA-PREMIUM, ISOLENA-KLEMMFILZ, ISOLENA-OPTIMAL PLUS, MEHABIT, MEHAPORT, MEHAS-PORT, 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 blow-in machine for your application?

The EM95 blow-in machines are suitable for almost all insulation materials and blow-in methods. However, you can choose from two machine types to find the model that best suits your needs. Contact us – we will be happy to advise you!

EM95 series		
Machine type	**EM95-2x230V/6,6kW**	**EM95-400V/7,3kW**
		
Article number	**10919**	**6908**
Power/Material processing speed	980kg/h	1255kg/h
Hopper (shorter hopper)	0,44m³ (0,3m³)	0,44m³ (0,3m³)
Airlock outlet ø	NW75 (3“) (standard) extension to NW90 (3½“) or direct reduction to NW63 (2½“), NW50 (2“) possible	
Dimensions (øxH)	800x1425mm	800x1425mm
Unladen weight	170kg	185kg
Filling height	1425mm	1425mm
Airlock ventilation	●	●
Dust removal/Support for bags	Support for bags optional with ventilation cover	
Machine control	Cable remote control KFB2000 (standard) or Radio remote control FFB2000/FFB2000-Pro	
Machine conditioning	2-level agitator with rotating shredder arm, replaceable grid and rake unit	
Shredder	HW95 optional	HW95 optional
Airlock feed gate adjustable	14-levels, manually (optional)	
Airlock rotational speed adjustable	10-levels cable remote control KFB2000 / 19-levels radio remote control FFB2000-Pro	
Automatic blowing	●	●
Pressure relief valve	optional	optional
Air generator	High-performance radial compressor 2x1,8kW + 1x1,45kW	High-performance radial compressor 3x1,45kW
Dynamic pressure max. (adjustable)	420mbar	400mbar
Air feed amplification	External amplification optional e. g. X-Floc Amplifier/vacuum station VS28/VS33, VS55M/VS75M	
Air volume (nominal/measured)	590/540m³/h	590/540m³/h
Aspiraton with suction hood (cleaning/dust extraction)	○	○
Conveying height (without/with amplifier)	>30/>75m	>30/>75m
Hose length L=max.	180m	180m
Motor	2x3-phase, 0,75kW	1x3-phase, 1,1kW and 1x3-phase, 0,75kW
Power rating	6,6kW	7,3kW
Power supply	2x230V/50Hz/16A	400V/50Hz/3x16A/N/PE
Max. material packing density	165kg/m³	165kg/m³

Cellulose	**Applications**	**A**	**B**	**C**	**D**	**E**	**F**	**A**	**B**	**C**	**D**	**E**	**F**
	Suitablility	●	●	●	●	●	-	●	●	●	●	●	-
Wood fibre	**Applications**	**A**	**B**	**C**	**D**	**E**	**F**	**A**	**B**	**C**	**D**	**E**	**F**
	Suitablility	●	●	●	-	○	-	●	●	●	-	●	-
Mineral fibre	**Applications**	**A**	**B**	**C**	**D**	**E**	**F**	**A**	**B**	**C**	**D**	**E**	**F**
	Suitablility	●	●	●	○	●	-	●	●	●	○	●	-
Mineral granulates	**Applications**	**A**	**B**	**C**	**D**	**E**	**F**	**A**	**B**	**C**	**D**	**E**	**F**
	Suitablility	●	-	-	-	○	●	●	-	-	-	○	●
EPS granulates	**Applications**	**A**	**B**	**C**	**D**	**E**	**F**	**A**	**B**	**C**	**D**	**E**	**F**
	Suitablility	-	-	-	-	●	-	-	-	-	-	●	-
Fire protection plaster, Others	**Applications**	**A**	**B**	**C**	**D**	**E**	**F**	**A**	**B**	**C**	**D**	**E**	**F**
	Suitablility	●	●	●	●	●	●	●	●	●	●	●	●

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

Equipment options

		Art.no.
	**Outlet nozzle NW90** Upgrade from NW75 (3") > NW90 (3½") suitable for all Zellofant M95 machine types	7109
	**Radio remote control FFB2000-Pro** Bidirectional radio technology, four radio channels, high transmission reliablility	5243
	**Direct extension NW75>NW90** Airlock outlet nozzle for extension of NW75 (3“) > NW90 (3½), suitable for conveyor hose NW90	6746
	**Mains voltage indicator for 230V power supply** installation in Zellofan 95 for detection of voltage supply fluctuations	4604
	**Airlock feed gate** manually, suitable for all Zellofant M95 machine types	3194
	**Quick coupling for airlock outlet nozzle** Storz coupling, fixed NW75(B) with female thread R2 ½"	172
	**Reinforced rotary airlock L200** due to thicker wall thickness for longer service life when working with abrasive insulating materials	6719
	**Power generator XM5kVA/4,5kW** Compact, mobile single-phase synchronous generator, self-regulating	9
	**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 airlock outlet nozzle of the blow-in machine	1972
	**Mains adapter distributor 400V** 400V-CEE>3x 230V-Schuko (with connection cable)	9481
	**Power distributor 400V/16A PRCD-S** Type B, mobile, with integrated all-current sensitive residual-current protection	9271

		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
	**Support for bags** Sturdy bag support made of aluminium with support bracket	4791
	**Support for bags with ventilation cover** Sturdy bag support made of aluminium and dust extraction attachment with strip curtain	3218
	**Machine hopper short** suitable for all types of Zellofant M95 H= spprox. 750mm (use bag support with ventilation cover)	4812
	**Deflector element universal** for attachment to the inside of the hopper, suitable for all Zellofant M85 types	8358
	**Retention grid for the hopper** for insertion into the hopper, for processing free-flowing bulk materials such as EPS granulates	2941

Sample order size

Example: Zellofant M95



- Zellofant M95 **(Art.no.: see page 5)**
- 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)**

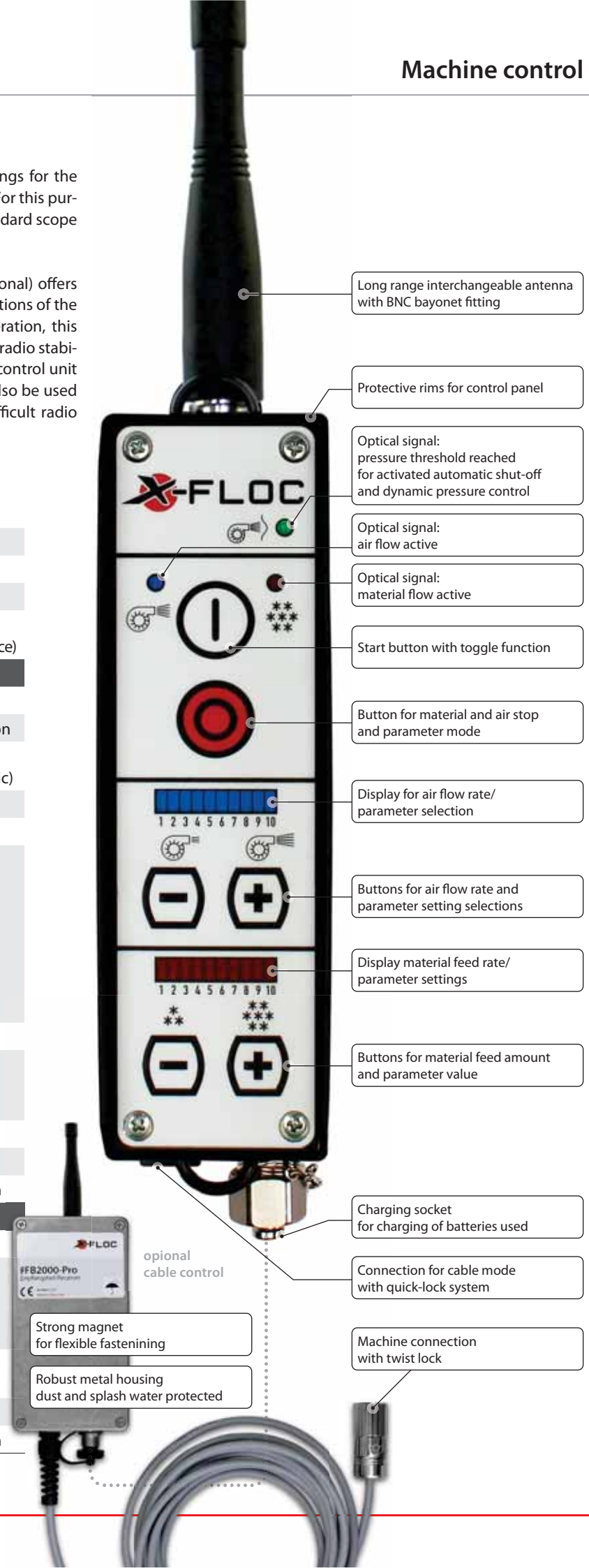
Radio remote control FFB2000-Pro

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 Zellofant M95 series.

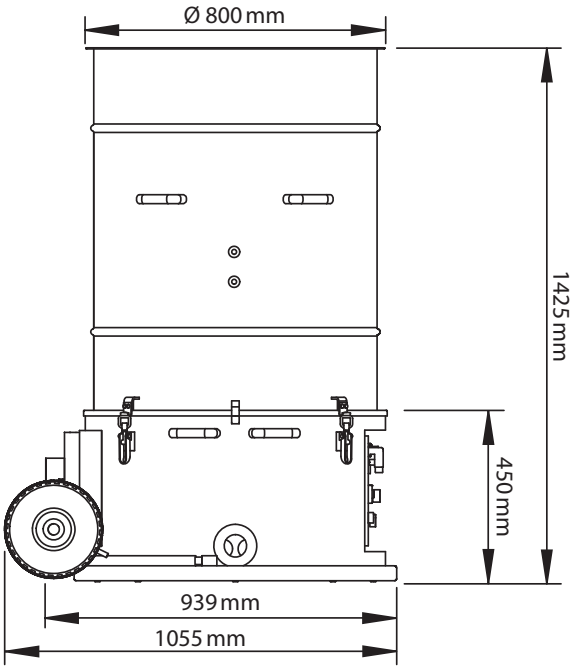
The bidirectional radio remote control FFB2000-PRO (optional) offers some additional functions over and above the proven functions of the KFB2000. In addition to its compact size and simple operation, this control is characterised by very fast response and excellent radio stability. With an optional 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).

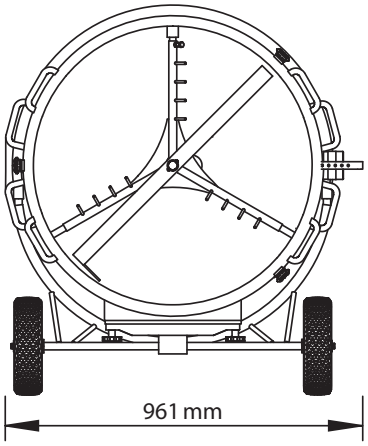
Technical data

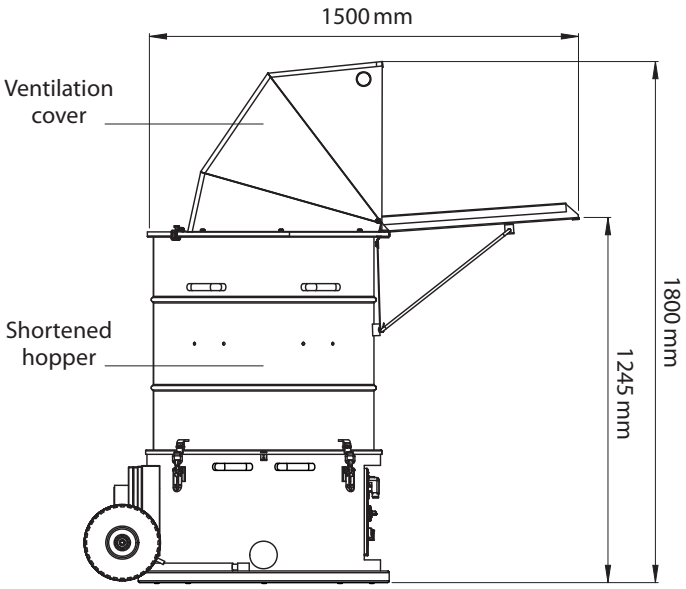
Transmission frequency	434MHz
Operating temperature range	-20°C to +40°C
Voltage supply	24V DC
Radio channels	4 (for construction sides with source of interference)
Hand control unit	
Duration of use	up to 30h
Range	>100m w/o interruption
Overpressure signal	LED (optical) warning tone (accoustic)
Function 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







Filling, suction and cleaning

The EM95 blow-in machine is easy to fill from the top. With a few equipment options, the working comfort can be increased even further. The bag support, for example, makes it easy to place and open the insulation material delivery containers. The EM95 with shortened hopper can be filled particularly ergonomically – at a working height of approx. 1.20 metres.

For safety reasons, the short hopper must be used with a ventilation cover, which also retains whirled-up dust by means of a strip curtain. In addition to passive dust extraction, also active dust extraction and residue-free cleaning of the workplace is possible with the ventilation cover in combination with an amplifier/vacuum station and a suction drum.





Reinforcement as desired

Some insulation materials require a particularly high air volume for proper installation and certain installation situations require the use of long conveyor hoses, e.g. to overcome high gradients. Occasionally, loose insulation materials also have to be removed again.

For this purpose, the EM95 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 mobile version with hand truck function (VS55M/VS75M); special versions are also available on request.

Synchronous control included:
Via the potentiometer on the amplifier station, the maximum amplifier fan power is adjusted to the max. fan power of the blow-in machine. Further regulation of the amplifier blower output is synchronous with the blower signal of the blow-in machine. This means that the amplifier always works with the blower line that the processor sets on the remote control.

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)



In combination with VS33 amplifier in use at North Cape



St. Joseph's Church in Alta (Norway) https://bundschuh-holzbau.de



Glass fibre material test in the X-Floc lab



Attic blowing with glass fibre (NESTA SAS, Frankreich)



Sustainable insulation with cellulose



Houseboat Atelier Fluvial SARL (France)



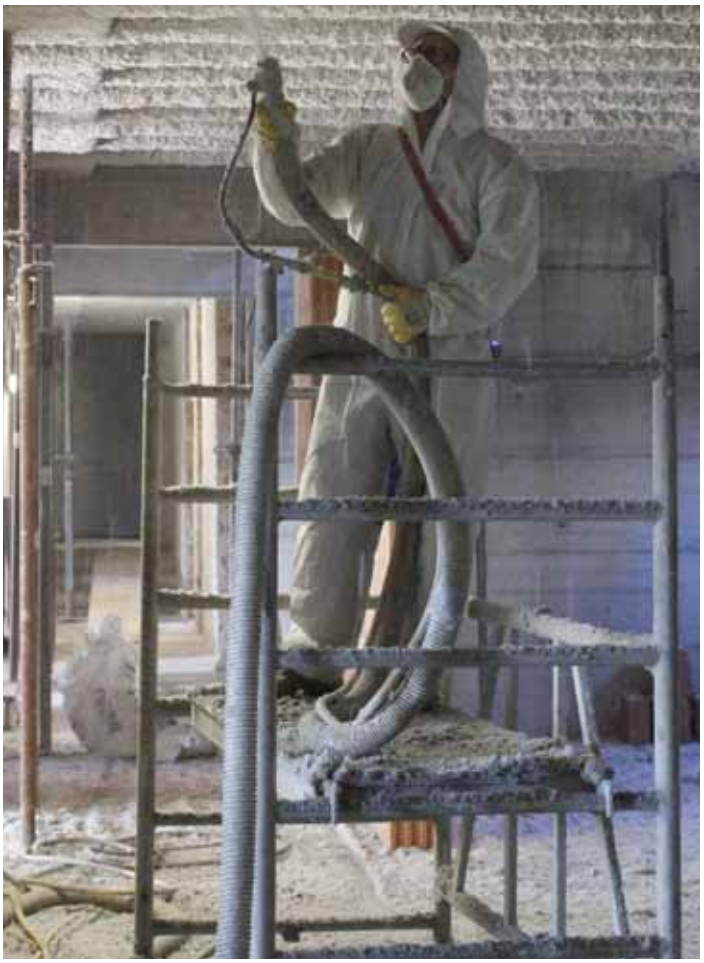
Mobile application EM95 (Derowerk, Polen)



Versatile also in terms of insulation: material test with seaweed



State-of-the-art with the X-Floc EM95



Fire protection plaster applied by damp spraying ensures safety



When processing the sustainable insulating material classic cellulose





Blow-in professionals also relies on X-Floc quality when it comes to accessories

Convince yourself

Feel free to visit our social media channels and see for yourself the performance capabilities of our proven EM95 blow-in machines. Follow us on Facebook and Instagram and/or browse through our videos on YouTube.

X-FLOC
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X-Floc worldwide



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

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Your X-Floc representative

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