

X-Floc Insulation Blowing Machines: Comparison / Technical Data



Series	EM100	Minifant M99			Zellofant M95				EM300 ^{*5) *8)}			EM400/440		EM500
Machine model	EM100-230V-2.0kW	M99E-230V-3.6kW	M99E-DS-230V-3.6kW	M99E-DS-Pro-230V-3.6kW	M95-230V-3.6kW	M95-2x230V-4.7kW	M95-400V-4.7kW	M95-400V-6.7kW	EM320-400V-7.0kW ^{*5)}	EM340-400V-7.3kW ^{*5)}	EM360-400V-7.3kW ^{*8)}	EM400-7.5kW	EM440-10.5kW	EM500-400V-7.5kW
Image														
Power/Material processing speed ^{*1)}	320kg/h	550kg/h		600kg/h	650kg/h	750kg/h	850kg/h	1050kg/h	1050kg/h	1200kg/h	1300kg/h	1400kg/h	1600kg/h	1800kg/h
Hopper	0,145m ³	0,2m ³			0,44m ³ (0.3m ³ with shorter hopper)				0,315m ³			1,0m ³		0,4m ³
Airlock outlet diameter	NW63 / (2 ½")	NW63 / (2 ½") ^{*3)}			NW75 / (3") ^{*3)}				NW75 (3") ^{*3)}			NW75 / (3") ^{*3)}		NW75 / (3") ^{*3)}
Dimensions (LxWxH)	600x500x1300mm	640x640x1400mm			Ø880x1500mm (ØxH)				990x830x1740mm			1300x1015x1800mm		1520x800x1300mm
Unladen weight	105kg	110kg	120kg	120kg	155kg	160kg	165kg	185kg	200kg	200kg	210kg	410kg	420kg	390kg
Filling height	1300mm	1400mm			1500mm				1250mm			1260mm		860mm
Airlock ventilation	-	✓			✓				✓			✓		✓
Dust removal equipment	-	-			✓ (optional)				✓			✓		✓
Machine control	3 channel (FFB400 optional) 	KFB30 	FFB400 	^{*2)} KFB2000, 	FFB2000 	KFB2000 / FFB2000 (external battery) Air power L= 1-10 levels Material flow volume M=1-10 levels Dynamic pressure control Automatic shut-down Switching function for material activation Turn-on time delay: 1 second Turn-off time delay: n.a. Susceptibility: low (<5%) 					FFB2000-Pro (internal battery) Air power L= 1-9 levels Material flow volume M=1-19 levels Dynamic pressure control (configurable) Automatic shut-down (configurable) Switching function for material activation Turn-on time delay : configurable Turn-off time delay: configurable Susceptibility: minimal (<1%)			
Material conditioning	2 horizontal agitator shafts	Rotating agitator with shredder arms			2-leveled agitator with rotating shredder arm, replaceable grid and rake unit (shredder available as additional module)				Miller and shredder shaft			4 shredder shafts and an additional shredder with two shafts		3 horizontal conditioning shafts
Shredder	-	-			✓ optional				✓			✓		-
Airlock material	Sheet steel	Stainless steel			Stainless steel				Stainless steel			Steel		Stainless steel
Airlock feed gate	✓ 14 positions	✓ 17 positions, manual adjustment			✓ 14 positions, manual adjustment (optional)				✓ Stepless adjustment			✓ 19 positions, electric and manual adjustment		
Adjustable airlock rotational speed	-	-	✓		✓ 19 speeds, remote controlled				✓ 19 speeds, remote controlled			✓ 19 speeds, remote controlled (optional)		✓ 19 speeds, remote controlled (optional)
Dynamic pressure control	-	-	-	✓	✓				✓			✓		✓
Pressure relief valve	-	-			-				✓ (optional)			✓ (optional)		✓ (optional)
Air feed unit	Radial compressor	High-powered centrifugal fans 1,2+1,4kW			High-powered centrifugal fans				High-powered centrifugal fans		High-powered turbine	High-powered turbine		High-powered turbine
Air feed amplification, 2.8kW or 3.0kW	-	Optional external amplification			Optional external amplification				Optional external amplification			Optional external amplification	Integrated	Optional
Operating temperature	-10 - +30°C	-10 - +30°C			-10 - +30°C				-10 - +30°C			-10 - +30°C		-10 - +30°C
Air flow volume (max.)	20 - 170m ³ /h	100 - 360m ³ /h			250m ³ /h	280m ³ /h	300m ³ /h	400m ³ /h	490 m ³ /h	460 m ³ /h	450 m ³ /h	450m ³ /h	680m ³ /h	450m ³ /h
Conveying height ^{*1)} without / with amplifier (max.)	15m	20m / 40m			25m / 40m	30m / 45m	30m / 45m	35m / 50m	30m / 45m	35m / 50m	40m/55m	35m / 50m	- / 50m	35m / 50m
Hose length (max.)	40m	80m			80m	150m	150m	180m	130m	180m	150m	150m	180m	180m
Adjustable conveying pressure(max.)	240mbar	320mbar			300mbar	380mbar	380mbar	380mbar	370mbar	400mbar	500 mbar	480mbar	480mbar	480mbar
Installed adjustable air flow power	1.3kW	2x1.4kW			2x1.2kW	2x1.6kW	2x1.6kW	3x1.6kW	1x1.5+2x1.8kW	3x1.8kW	5.5kW	5.5kW	5.5kW + 2x1,4kW	5.5kW
Installed motor power	0.75kW	0.75kW			1.25kW	1.5kW	1.5kW	1.85kW	1.85kW	1.85kW	1.85kW	2.0kW	2.0kW	2.0kW
Power rating	2.0kW	3.6kW			3.6kW	4.7kW	4.7kW	6.7kW	7.0kW	7.3kW	7.4kW	7.5kW	10.5kW	7.5kW
Electrical connection	230V/50Hz/10A	230V/50Hz/16A (10A possible with a blower)			230V/50Hz/16A	2x230V/50Hz/16A ^{*7)}	400V/50HZ/16A		2x230V/50Hz/16A ^{*7)}	400V/50Hz/16A/N/PE		400V/50Hz/16A/PE	400V/50Hz/16A+ 1x230V/50Hz/16A	400V/50Hz/16A/PE
Material packing density (max.)	145kg/m ³	145kg/m ³			145kg/m ³		165kg/m ³		220kg/m ³			200kg/m ³		175kg/m ³

Note: All specifications approximate

*1) Depending on the insulation material and insulating process used. Data based on average results obtained using cellulose insulation material

*2) KFB2000, FFB2000 and FFB2000-Pro: few modified functions for M99E-DS-Pro

*3) Direct reduction to NW63 (2 ½") or NW50 (2") possible

*4) Varies greatly depending on type of insulation material used

*5) To be released at the beginning of 2013

*6) Alternatively can be adjusted to 19 levels by remote control

*7) Operation with 1 x 230V/50Hz/16A with reduced air power possible

*8) Available from mid 2013

1) Examples are not exhaustive. Is your product listed? If not, please contact us.	*3) An additional shredder may be required
*2) An additional air amplifier station may be required	*4) An additional material refiner may be required

Figure 1 consists of six schematic diagrams labeled A through F, illustrating different methods for filling cavities with insulating foam. Each diagram shows a cross-section of a cavity wall or a container being filled with a green, foamy material.

- A: Open blowing**: A long, flexible hose is connected to a container. The hose is inserted into the cavity, and the foam is blown into it from the end of the hose.
- B: Dry injection**: A long, flexible hose is connected to a container. The hose is inserted into the cavity, and the foam is injected into it from the end of the hose.
- C: Injection with ventilated rotary nozzle technology**: A long, flexible hose is connected to a container. The hose is inserted into the cavity, and a rotary nozzle is used to inject the foam into the cavity. Blue arrows indicate the rotation of the nozzle.
- D: Injection with ventilated lance technology**: A long, flexible hose is connected to a container. The hose is inserted into the cavity, and a lance is used to inject the foam into the cavity. Blue arrows indicate the ventilation of the lance.
- E: Damp spray / CSO**: A container of foam is connected to a pump, which is then connected to a long, flexible hose. The hose is inserted into the cavity, and the foam is sprayed into it from the end of the hose.
- F: Cavity wall insulation**: A long, flexible hose is connected to a container. The hose is inserted into the cavity, and the foam is injected into it from the end of the hose.