

Brabender FlexWall® Feeder FW120

The Brabender FlexWall® feeder FW120 is capable of reliably and accurately metering bulk ingredients with temperatures from 0 to 50°C (32-122°F) at medium feed rates.

The feeder has the following main components: a stainless steel exterior, a flexible polyurethane hopper, external massage paddles (versions without paddles available), a feed screw, a feed screw tube, a 3 phase AC motor and an extension hopper for ingredient storage.

Extension hoppers are available with 350 dm³ (12.4 ft³) or 600 dm³ (21.2 ft³) volume.

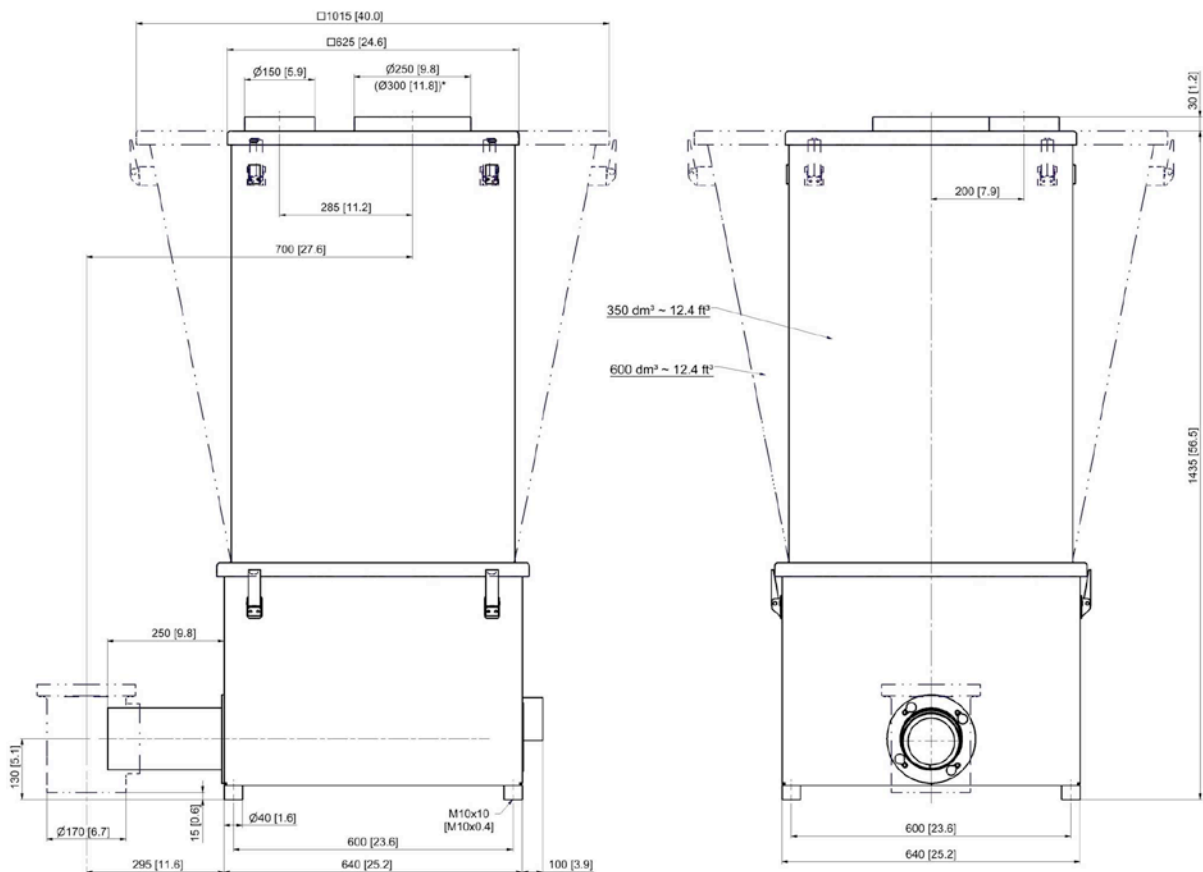
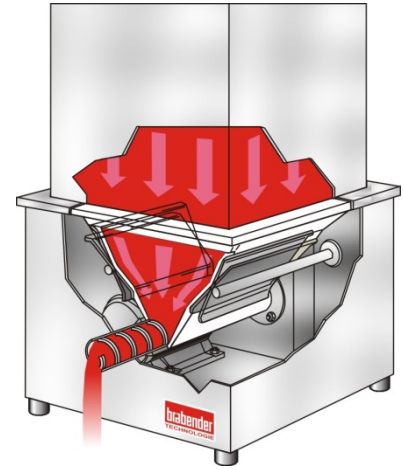
The motor driven (amplitude adjustable) paddles flex the polyurethane hopper walls to provide consistent mass flow of ingredient into the screw without degradation. The FW120/2 uses a separate motor for the external massaging paddles to allow paddle speed adjustment for difficult flowing ingredients. Free flowing ingredients can use the non agitated FW120/1.

Another advantage of the Brabender FlexWall® feeder is that it is easily disassembled for wet or dry cleaning as the polyurethane hopper is molded to easily fit on the stainless steel housing.

Options include a scale to allow gravimetric loss-in-weight feeding and interchangeable screws. Ingredient contact steel parts are made of stainless steel. Mild steel parts are painted light grey (RAL 7035).

Environmental conditions: 0-45°C (32-113°F), up to 85% humidity without condensation.

The feeder conforms to CE directives.



Dimensions in mm (in)

- Weight without extension hopper:
FW120/0(1) approx. 95 kg/209.4 lb, FW120/2 approx. 110 kg/242.5 lb
- Weight with 350 dm³/12.4 ft³ extension hopper:
FW120/0(1) approx. 145 kg/319.7 lb, FW120/2 approx. 160 kg/352.7 lb
- Weight with 600 dm³/21.2 ft³ extension hopper:
FW120/0(1) approx. 190 kg/418.9 lb, FW120/2 approx. 205 kg/451.9 lb

* optional inlet only available for 600 dm³/21.2 ft³ extension hopper

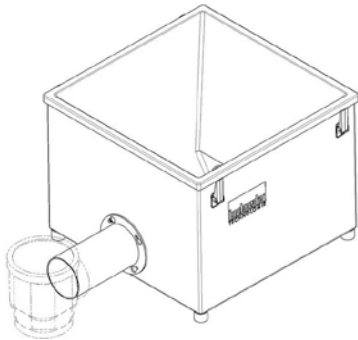
Model	Motor	rpm	Paddles	Separate paddle drive
FW120/0	0.75 kW	142	yes	---
FW120/1	0.75 kW	142	no	---
FW120/2	0.75 kW	142	yes	0.37 kW

Technical Data

Available screw sizes and feed rates

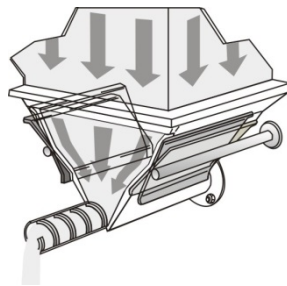
Screw Type	Ø (mm) x p (mm)	Tube designation	Tube dia. (mm)	Max. speed (rpm)	Max. feed rate (dm³/hr)*	Max. feed rate (ft³/hr)*
Spiral Screw (S)	S 79/ 45	843	88.9 x 2.3	142/100 Hz	1691	59.7
	S 79/ 82	843	88.9 x 2.3	142/100 Hz	3227	114.0
	S 103/ 66	1091	114.3 x 2.6	142/100 Hz	4430	156.5
	S 103/105	1091	114.3 x 2.6	142/100 Hz	7190	253.9
	S 120/120	1270	133.0 x 3.0	142/100 Hz	11252	397.4
Pellet Screw (S)	S 79/ 45	1091	114.3 x 2.6	142/100 Hz	2475	87.4
	S 79/ 82	1091	114.3 x 2.6	142/100 Hz	4656	164.4
	S 103/ 66	1270	133.0 x 3.0	142/100 Hz	5586	197.3
	S 103/105	1270	133.0 x 3.0	142/100 Hz	9028	318.8
Blade Screw (B)	B 79/ 45	843	88.9 x 2.3	142/100 Hz	1637	57.8
	B 79/ 82	843	88.9 x 2.3	142/100 Hz	3072	108.5
	B 103/ 66	1091	114.3 x 2.6	142/100 Hz	4084	144.2
	B 103/105	1091	114.3 x 2.6	142/100 Hz	6604	233.2
	B 120/120	1270	133.0 x 3.0	142/100 Hz	10536	372.1
Fiber Screw (F)	F 12066/90-K60	1270	133.0 x 3.0	142/100 Hz	on request	on request

* Theoretical values at 100% screw filling level and motor speed. Depending on the flow characteristics the screw filling level may decrease to 50%.



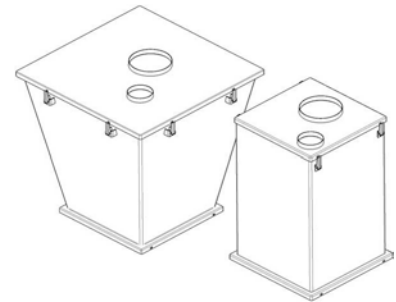
FlexWall® Feeder FW120

- Stainless steel housing with rear access door
 - Interchangeable screws
 - Paddle-massaged flexible polyurethane hopper (FW120/1 is without paddles)
 - Variable frequency driven 3 phase AC motor (0,75 kW, IP65, insulation class F, TEFC), max. screw speed 142 rpm
 - FW120/2 only: second motor for separate paddle drive (0.37 kW, IP65, insulation class F, TEFC)
- Ingredient contact surfaces are polyurethane and SS 1.4301 (304)



Flexible Hopper

- Polyurethane (white)
- Food grade in compliance with the German Foodstuff and Consumer Goods Act (LMBG) or FDA
- Optional anti-static or chemically resistant hoppers available



Extension Hoppers

- Extension hoppers
 - 350 dm³ (12.4 ft³), straight walled
 - 600 dm³ (21.2 ft³), steep sided
- Cover with inlet pipe and vent pipe for automatic refill, or
- Cover with hinged lid for manual refill
- Stainless steel SS 1.4301 (304)

Accessories

- Vertical downspout on screw tube outlet
- Flexible connections
- Exchange screws and screw tubes
- Screw extension 400 mm/15.7 in (not available for blade screws)
- Screw speed monitoring system

Options

- Explosion-proof designs
- Gravimetric loss-in-weight feeder with scale H33 or MS (see separate Works Standards)
- Designs for higher or lower ingredient and/or ambient temperatures

Speed Control

Frequency converter FC-B2 (wall mounting) or FC-V2.1 (control cabinet), additional converter FC-B1/FC-V1.1 required for the FW120/2 separate paddle drive (see separate Works Standards), or Allen Bradley Powerflex (North America)



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