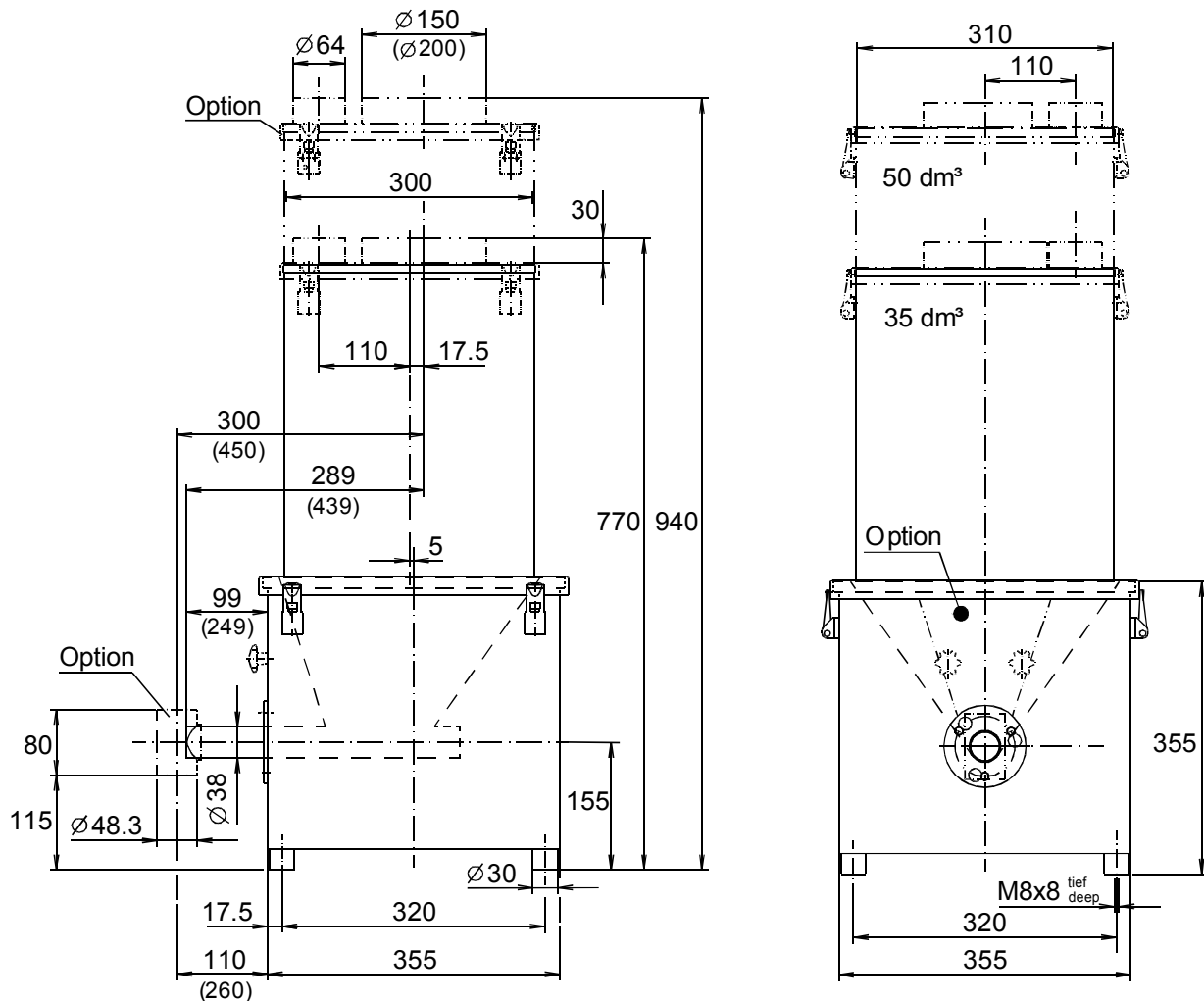
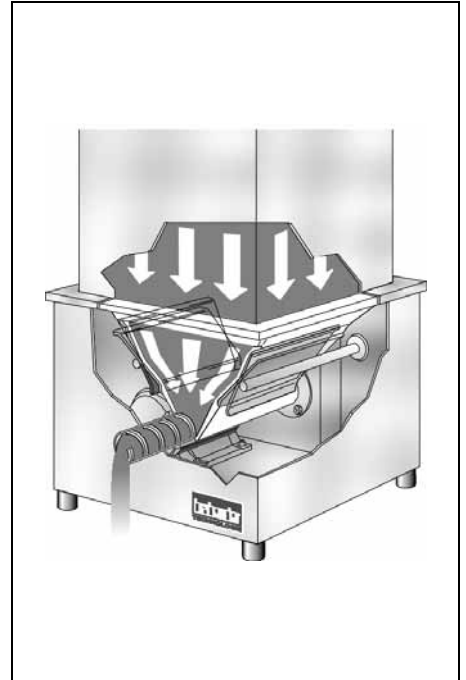


Brabender FlexWall® Feeder Type FW 33

The Brabender FlexWall® Feeder Type FW 33 feeds powders, granules, pellets, flakes, chips, fluffs, glass fibres, etc. with good to poor flowability. It can be employed as a stand alone volumetric unit, or by simply adding a Brabender scale, as a gravimetric loss-in-weight feeder. The Brabender FlexWall® Feeder consists of a stainless steel exterior housing, a feed screw for ingredient dispense, a variable speed frequency controlled three-phase current motor driving the feed screw, and a flexible polyurethane hopper activated by external massage paddles. The natural ingredient flow thus induced and the full activation of the entire ingredient compartment prevent bridging and ingredient deterioration and ensure an optimum screw filling level. To suit a variety of ingredients, three paddle agitation amplitudes can be ad-

justed. An optional separate variable speed paddle motor allows infinitely variable adjustment of the frequency of the paddle movement. The unique design of the Brabender FlexWall® Feeder permits easy disassembly and cleaning. The polyurethane hopper features a lip which seals to the upper edge of the stainless steel housing and can easily be removed for wet cleaning. All internal components are secured to a common chassis, which is completely removable after the screw and the hopper have been dismantled. Where the ingredients are frequently changed, an "easy in - easy out" variant is available where the flexible hopper, the screw and the screw tube can simply be lifted out as a unit together with the residual ingredient and be replaced by another pre-assembled unit. The unit conforms to CE directives.



Weight without extension hopper approx. 25 kg

Technical Data*

Available Screw Sizes and Feed Rates

Screw Type	Ø mm x p mm	Tube Designation	Tube Dia. mm	Speed r.p.m.	Max. dm³/hr*
Spiral Screw (S)	S 18/13	210	25.0 x 2.0	235/100 Hz	30
	S 18/19	210	25.0 x 2.0	235/100 Hz	50
	S 20/24	210	25.0 x 2.0	235/100 Hz	85
	S 24/35	260	30.0 x 2.0	235/100 Hz	195
	S 28/22	320	38.0 x 3.0	235/100 Hz	160
	S 28/35	320	38.0 x 3.0	235/100 Hz	275
	S 33/35	350	38.0 x 1.5	235/100 Hz	375
Blade Screw (B)	B 28/28	320	38.0 x 3.0	235/100 Hz	160
	B 32/38	350	38.0 x 1.5	235/100 Hz	315
Granule Screw (S)	S 18/13	320	38.0 x 3.0	235 (500)**/100 Hz	65 (140)
	S 18/19	320	38.0 x 3.0	235 (500)**/100 Hz	105 (230)
	S 20/24	320	38.0 x 3.0	235 (500)**/100 Hz	150 (325)
	S 24/35	350	38.0 x 1.5	235 (500)**/100 Hz	305 (650)
	S 28/22	350	38.0 x 1.5	235 (500)**/100 Hz	210 (445)
	S 28/35	350	38.0 x 1.5	235 (500)**/100 Hz	350 (750)
Glass Fibre Screw (F)	F 3322/35-K13	350	38.0 x 1.5	235/100 Hz	on request
	F 3322/35-K24	350	38.0 x 1.5	235/100 Hz	on request

* The max. feed rates mentioned above are theoretical values based on a screw filling level and a motor speed of 100 % each. Depending on the flow characteristics of the ingredient the screw filling level may decrease down to 50 %. The feed rates of glass fibre screws are actual rates referring to glass fibres commonly used, well-flowing, bulk density 0.5 kg/dm³, length 3-6 mm.

**Granule screws: with the increased motor output speed the paddles cannot be driven.

Component Groups

- Stainless steel exterior housing with removable back plate
- Screw and screw tube
- Flexible PU hopper, approx. 9 dm³
- Integrated mounting chassis for all internal component groups
- Frequency controlled 3-phase motor
- Massage paddles to promote ingredient flow without deterioration
- Chainless drive mechanism

Screw Drive

Three-Phase Motor (Direct Drive)

Wattage: 0.18 kW

Protection: IP 55

Insulation class F, oil-free gearing

Frequency Converter FC-B1 in an IP55 housing (setpoint potentiometer or external control by 0-5(10) V, 0(4)-20 mA), or **Frequency Converter FC-V1.1** for

control cabinet installation (external control by 0-5(10) V, 0(4)-20 mA or by setpoint potentiometer).

Details: see separate Works Standards

Materials

- Stainless steel exterior housing
- Flexible hopper: PU (white), abrasion-resistant and wear-free, food-proof in compliance with the regulations of the German Foodstuff and Consumer Goods Act (LMBG)
- Steel parts in contact with ingredient at least SS 1.4301 ≈ AISI 304 (blade screws SS 1.4305 ≈ AISI 303)

Accessories / Options

- Stainless steel extension hopper, SS 1.4301 (≈ AISI 304), 35 dm³ (weight approx. 10 kg) or 50 dm³ (weight approx. 12 kg)
- Cover with inlet pipe and vent pipe

for automatic refilling or with handle, laid on, for manual refilling

- Downspout at screw tube outlet
- Flexible inlet, vent and outlet connection sleeves
- Screw speed monitoring system
- Separate variable speed paddle motor for infinitely variable setting of the paddle movement frequency
- "Easy in - easy out" variant (hopper, screw and screw tube designed as exchangeable feed unit)
- Quick-closing valve on outlet tube
- Screw extension 150 mm (not for blade screws)
- Exchange screws and screw tubes
- Hopper made of anti-static material

Fields of Application

Volumetric or - with Brabender scale - gravimetric feeding (see Works Standard "Brabender Loss-in-Weight Feeder Type DDW-H31-FW33-35[50]")



An ISO 9001/EN 29001 Certified Company

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