

Liquid Feeder FDDW S-Type

Gravimetric

General Information



The [FDDW S-Type](#) with its simple design is suitable for feeding liquid products.

The feeder has the following main components: a [piston diaphragm \(DKMP\)](#) or [gear pump \(DZB\)](#) a three-phase drive and a hopper available in sizes of 6 liters or 50 liters.

The feeding pump conveys the liquid product from the hopper to the outlet for further processing.

The gravimetric version is available with the analog [MS weighing system](#) with strain gauge load cell.

The unit conforms to CE directives.



Model Specification

Drive power	0,37 kW – 0,75 kW
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Control Modules

Control and speed modules are offered either mounted onto the feeder ([Congrav® CM-E](#)) or are available for mounting in a separate control panel ([Congrav® CB-E](#) or [Congrav® CB-S](#)).

Controls can communicate directly to most host/ PLC systems or to Brabender Technologie Congrav® Operator Interfaces.

Technical Drawings and Dimensions

	volumetric feeders	gravimetric feeders	
		Control module CB FDDW-MS2-DKMP-6-S FDDW-MS5-DKMP-50-S	Control module CM
Hopper 6L Hopper 50L			



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Technical Specification

Ambient temperature:	0°C to +45°C (32°F to 113°F)
Humidity of the air:	40% to 70%; no standing moisture
Pressure range:	1-60 bar (401.46 - 24087.78 inches of water)
Ingredient temperature:	0°C to +80°C (32°F to 176°F)
Permitted density:	0,9 – 1,1 kg/dm ³ (56.18 - 68.6 lb/cuft)
Pump, Hopper, Hopper lid:	1.4571. 1.4301. 1.4301
Non-contact components:	1.4301, Aluminium, plated or painted steel (RAL 7035)
Hopper 6 dm ³ (0.2 cuft), 50 dm ³ (1.8 cuft)	Hopper lid for automatic refilling
Feeding capacity:	2-45 dm ³ /h (0.2-1.6 cuft/h) at 6-S, 5-400 dm ³ /h (0.2-14.1 cuft/h) at 50-S
Viscosity:	1-400 mPas (DKMP) ; 400-5000 mPas (DZP)
Power supply:	AC 230/400 V (110VAC/460VAC)- 50Hz** or 266/460 V (230/460VAC) - 60Hz, 24VDC (control voltage)
Net weighing range MS :	6,6Kg (14.6 lb) at 6 dm ³ (0.2 cuft) , 55Kg (121.3 lb) bei 50 dm ³ (1.8 cuft)
	** Three-phase motors are designed for a power supply of: 230/400 V - 50 Hz, and for the operation in TT networks, TN networks or networks with earthed neutral. For different networks adaptation measures are necessary.

Options and Accessories

- [Flexible inlet and vent connections](#),
- Versions for higher or lower temperatures than standard
- Explosion-proof versions as per directive 2014/34/EU (ATEX) or NFPA)
- Hygienic Design (HD) according to FDA
- [Collecting tray](#)
- Maintenance Switch, pluggable version
- Cart mounting
- [Filling ball valve](#)
- Pressure hose

