



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

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|-------------|-------------------|
| Drive power | 0,37 kW – 0,75 kW |
|-------------|-------------------|

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 | Control module CM |
| Hopper 6L | | FDDW-MS2-DKMP-6-S | |
| Hopper 50L | | FDDW-MS5-DKMP-50-S | |



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Technical Specification

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|--|--|
| 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

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| <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • Maintenance Switch, pluggable version • Cart mounting • Filling ball valve • Pressure hose |
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