

Qty.	Description
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1	DDC 9-7
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Note! Product picture may differ from actual product

Product No.: [97721427](#)

DDC 9-7 AR-PP/E/C-F-31U2U2FG

The SMART Digital DDC is a compact positive displacement, diaphragm dosing pump with variable-speed drive (stepper motor) and intelligent control electronics with minimum energy consumption. The SMART Digital Dosing series operates at full stroke length to ensure optimum accuracy, priming and suction, even for high-viscosity or degassing liquids. The duration of each discharge stroke varies according to the capacity set, resulting in optimum smooth and continuous discharge flow.

The click-stop mounting plate allows installation in three different positions without using any additional accessories. The control cube can be turned easily into front, left or right position. The click wheel and the multi-coloured backlit graphical, plain-text LC display make commissioning and operation intuitive. The control elements are protected by a transparent cover.

The dosing head is composed of:

- Long lifetime and universal, chemically resistant full-PTFE diaphragm.
- Double ball valves for highest dosing accuracy.
- Deaeration valve for easy start-up.

Operation modes:

- Manual dosing in ml/h, l/h or gph.
- Pulse control in ml/pulse (incl. memory function).
- Analog control 0/4-20 mA.

Other features:

- Two SlowMode steps (anti-cavitation), 50 % (maximum flow: 4.5 l/h) and 25 % (maximum flow: 2.25 l/h), e.g. for high-viscosity or degassing liquids.
- Service information display to show when service and which wear-part order number is required.
- Two-step key lock function to protect the pump against unauthorised access.
- Additional display function to provide further information, e.g. the actual mA input signal.
- Counter for total dosed volume (resettable), operating hours and others.
- Save and load customised settings as well as reload of factory settings.

Signal inputs/outputs:

- Input for pulse, analog 0/4-20mA, external stop.
- Input for low-level and empty-tank signal.
- Two potential-free output relays for max. 30 V AC/DC (configurable, e.g. alarm, stroke signal, pump dosing, etc.)

Technical:

Type key:	DDC 9-7 AR-PP/E/C-F-31U2U2FG
Max. Flow:	9 l/h
Max. flow in slow mode 50%:	4.5 l/h
Max. flow in slow mode 25%:	2.25 l/h
Min flow:	9.0 ml/h
Turn-down ratio:	1:1000
Approvals on nameplate:	CE, CSA-US, EAC, RCM
Valve type:	Standard
Maximum viscosity at 100 %:	50 mPas
Maximum viscosity in slow mode 50 %:	1300 mPas
Maximum viscosity in slow mode 25 %:	2000 mPas
Accuracy of repeatability:	1 %

Materials:

Dosing head:	PP (Polypropylene)
Valve ball:	Ceramic
Gasket:	EPDM

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	<p>Installation:</p> <p>Range of ambient temperature: 0 .. 45 °C</p> <p>Maximum operating pressure: 7 bar</p> <p>Installation set: NO</p> <p>Installation type: No installation set</p> <p>Pump inlet: 4/6, 6/9, 6/12, 9/12 mm</p> <p>Pump outlet: 4/6, 6/9, 6/12, 9/12 mm</p> <p>Max. Suction lift during operation: 6 m</p> <p>Max. Suction lift during priming: 2 m</p> <p>Liquid:</p> <p>Pumped liquid: Water</p> <p>Liquid temperature range: -10 .. 45 °C</p> <p>Selected liquid temperature: 20 °C</p> <p>Density: 998.2 kg/m³</p> <p>Electrical data:</p> <p>Maximum power input - P1: 22 W</p> <p>Mains frequency: 50 / 60 Hz</p> <p>Rated voltage: 1 x 100-240 V</p> <p>Enclosure class (IEC 34-5): IP65 / NEMA 4X</p> <p>Length of cable: 1.5 m</p> <p>Type of cable plug: EU</p> <p>Inrush current: 25A at 230V for 2ms</p> <p>Controls:</p> <p>Control variant: AR</p> <p>Level control: YES</p> <p>Analog input: 0/4-20 MA</p> <p>Pulse control: YES</p> <p>Ext. Stop input: YES</p> <p>Output relays: 2</p> <p>Others:</p> <p>Net weight: 2 kg</p> <p>Gross weight: 3 kg</p> <p>Color: RED</p> <p>Country of origin: FR</p> <p>Custom tariff no.: 84135040</p>