

# SIMDOS® 10 (UFEM 1.10)

Dosing pump for liquids



- Simple and intuitive operation
- Easy calibration
- Adaptable to fluid characteristics
- Self priming, can run dry
- Analog and impulse control (RC)
- Splashproof IP65, small footprint

## Fields of application

- Chemistry
- Synthetic organic chemistry
- Pharmacy
- Adhesives and glue
- Polymers & polymer coating
- Food technology research
- Detergents

## Hydraulic data

Flow rate	Dosing volume	Suction height	Max pressure
1 - 100 mL/min	1 - 999 mL	9.8 ft. water	85 psig

## Pump type

Code	Pump head	Diaphragm	Valves	Filter (1pc. included)	Tubing (2pc. included)
KT	PP	PTFE covered	FFKM Kalrez®	165213	160269
TT	PVDF	PTFE covered	FFKM Kalrez®	165211	160269
FT	PTFE	PTFE covered	FFKM Kalrez® *	165213	160271
ST	STAINLESS STEEL	PTFE covered	FFKM Kalrez®	165213	160271

\* On request FFKM Chemraz®

## Control type

S - Version	RC - Version	RCP - Version
<ul style="list-style-type: none"> <li>• Manual operation</li> </ul>	<ul style="list-style-type: none"> <li>• Manual operation</li> <li>• Analog control: 0-5 V, 0-10 V, 0-20 mA, 4-20 mA, from 1 to 100%</li> <li>• Start/Stop through logic control (TTL)</li> </ul>	<ul style="list-style-type: none"> <li>• Reset/Prime through logic control (TTL)</li> <li>• Output signal fault alarm</li> <li>• RC cable for external control included</li> </ul>
		<ul style="list-style-type: none"> <li>• Same as RC</li> <li>• RS 232 port for PC control</li> <li>• RS 232 cable with D-Sub 9 connector included</li> </ul>

## Technical data

<ul style="list-style-type: none"> <li>• Main supply 100 - 240 V / 50 - 60 Hz</li> <li>• Allowed ambient temperature +5 to +40° C</li> <li>• Allowed liquid temperature +5 to +80° C</li> <li>• Viscosity settings up to 500 cSt**</li> <li>• Accuracy +/-2% (nominal value)</li> <li>• Repeatability +/-1%</li> </ul>	<ul style="list-style-type: none"> <li>• Power consumption 24 W</li> <li>• Protection class IP65</li> <li>• Dimensions: 150 x 93 x 144 mm</li> <li>• Weight: 0.9 kg</li> <li>• Supplied with 1/4" OD x 1/8" ID x 2 M tubing and compression fittings</li> <li>• Filter</li> </ul>
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\*\* Reduced flow rate above 150 cSt

**Model Numbers:** UFEM 1.10 .18 *Example: UFEM 1.10TT.18RC*  
 Code: KT, TT, FT, or ST  
 Control: S, or RC



# SIMDOS<sup>®</sup> 10 (UFEM 1.10)

## Accessories

### Valves kit

	ID-Nr.
Chemraz <sup>®</sup> special valves for certain chemicals	168037



Special Valves CHEMRAZ<sup>®</sup>

### Diaphragm pressure control valve with support when the feeding tank is above the pump or to dose into vacuum

	ID-Nr.
Kit FDV 30 KTZ for SIMDOS 10 KT	167598
Kit FDV 30 TTZ for SIMDOS 10 TT	167599
Kit FDV 30 FTZ for SIMDOS 10 FT, ST	167600



### Filter

Type	Porosity	Material	Connector	For	ID-Nr.
FS 25 T	70 µm	PVDF	for 1/4" OD x 1/8" ID tubing	TT	165211
FS 25 X	35 µm	PEEK	for 1/4" OD x 1/8" ID tubing	FT, KT, ST	165213

Access a filter chemical resistance chart at [www.knfusa.com/filter-chem-resist](http://www.knfusa.com/filter-chem-resist).



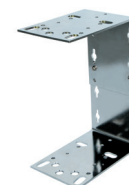
### Pulsation damper placed on pump outlet for smoother flow

	ID-Nr.
FPD 10 KT for SIMDOS 10 KT	167821
FPD 10 TT for SIMDOS 10 TT	167822
FPD 10 FT for SIMDOS 10 FT, ST	167823



### Mounting plate

	ID-Nr.
for wall mounting	160473



### Standfitting

	ID-Nr.
for retort stand	160474



### Footswitch

	ID-Nr.
for impulse start and stop	155872

