

# SIMDOS<sup>®</sup> 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 <sup>®</sup>	165213	160269
TT	PVDF	PTFE covered	FFKM Kalrez <sup>®</sup>	165211	160269
FT	PTFE	PTFE covered	FFKM Kalrez <sup>®</sup> *	165213	160271
ST	STAINLESS STEEL	PTFE covered	FFKM Kalrez <sup>®</sup>	165213	160271

\* On request FFKM Chemraz<sup>®</sup>

## 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

- Main supply 100 - 240 V / 50 - 60 Hz
- Allowed ambient temperature +5 to +40° C
- Allowed liquid temperature +5 to +80° C
- Viscosity settings up to 500 cSt\*\*
- Accuracy +/-2% (nominal value)
- Repeatability +/-1%
- Power consumption 24 W
- Protection class IP65
- Dimensions: 150 x 93 x 144 mm
- Weight: 0.9 kg
- Supplied with 1/4" OD x 1/8" ID x 2 M tubing and compression fittings
- Filter

\*\* Reduced flow rate above 150 cSt

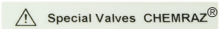
**Model Numbers:** UFEM 1.10\_\_\_.18\_\_\_.  
Code: KT, TT, FT, or ST  
Control: S, or RC

*Example: UFEM 1.10TT.18RC*


# SIMDOS® 10

## Accessories

### Valves kit

	ID-Nr.	
Chemraz® special valves for certain chemicals	168037	 

### 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	