

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

Technical data

<ul style="list-style-type: none"> • 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% 	<ul style="list-style-type: none"> • 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
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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



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Accessories

Valves kit

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



Special Valves CHEMRAZ[®]

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.



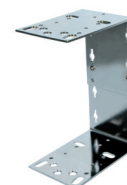
Pulsation damper placed on pump outlet for smoother flow

	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

