



*first class pumps for first class science*

# Liquid Diaphragm Dosing Pumps for the Laboratory and Industry

## SIMDOS® 10 Series

for simple, convenient transfer and dosing of liquids

simple, intuitive setup and operation

flow range 1 ml/min - 100ml/min

dosing volume 1 ml - 1000ml

maintains calibration once set

analog and impulse logic control

easy to calibrate

no peristaltic tubing required



# SIMDOS® 10 Series

## The simple way to dose neutral or corrosive liquids

The new SIMDOS® diaphragm liquid dosing pump from KNF is designed with simplicity in mind. The easy-to-read display combined with a touch-control knob makes programming and access of all functions very intuitive.

Fast, precise calibration is crucial for any dosing pump.

The SIMDOS® pump accomplishes this in the shortest time possible. Following calibration, repeatability is maintained at ±1%. The pump transfers liquids at a flow rate of 1 to 100ml/min and doses volumes of 1 to 1000 ml. It is effective against pressures of up to 90 psig and transfers viscous media at full flowrate up to 150 cST. The maximum handled viscosity is 500 cST at reduced flowrate.

The integrated software permits the transfer parameters to be modified for a range of different viscosities at the touch of a button. A remote alarm/control version is available.

- simple, intuitive setup and operation
- easy to calibrate in minutes
- runs dry without damage
- self-priming up to 9 ft of water
- splash-proof IP65 housing
- analog and impulse logic control (RC only)
- small footprint conserves benchtop space
- adaptable to viscous fluid characteristics
- accuracy ±2%, repeatability ±1%

### Selection Chart

Model No. for Manual Control	Flow Range ml/min	Dosing Volume ml	Suction Head ft. water	Max Pressure psig	List Price
<b>UFEM1.10KT.18S</b>	1 - 100	1 - 1000	9	85	Call
<b>UFEM1.10TT.18S</b>	1 - 100	1 - 1000	9	85	Call
<b>UFEM1.10FT.18S</b>	1 - 100	1 - 1000	9	85	Call
Model No. for Remote Control					
<b>UFEM1.10KT.18RC</b>	1 - 100	1 - 1000	9	85	Call
<b>UFEM1.10TT.18RC</b>	1 - 100	1 - 1000	9	85	Call
<b>UFEM1.10FT.18RC</b>	1 - 100	1 - 1000	9	85	Call

Standard continuous performance ratings listed above are per head and are based on technical data and test results of nominal units at sea level with water at 70° F (21° C) and nominal electrical supply. Dimensions and performance characteristics given are for reference only. Visit [www.knflab.com](http://www.knflab.com) for details and list of distributors. Specifications are subject to change without notice.

### Specifications - All Models

Outside dimensions ..... 14x9x13 cm	Liquid temperature range ..... +5 to +80°C	Ambient temperature range ..... +5 to +40°C
FT Materials: Head ..... PTFE	Diaphragm ..... PTFE-coated	Valves ..... FFKM
TT Materials: Head ..... PVDF	Diaphragm ..... PTFE-coated	Valves ..... FFKM
KT Materials: Head ..... Polypropylene	Diaphragm ..... PTFE-coated	Valves ..... FFKM
Connections ..... 1/4" Compr, 1/8" ID tubing	Power ..... 99-264 VAC, 50-60 Hz	Power consumption ..... 10W
Protection class ..... IP65	Weight ..... 0.9kg	Max Viscosity ..... 150cSt

### Manual/Remote Control Details

SIMDOS 10S Model .....	Manual control, adjustable from front panel
SIMDOS 10RC Model .....	Manual control plus analog control: 0-10V, 0-20mA, 4-20mA from 0-100%
	Start-stop thru logic control (TTL)
	Reset/prime thru logic control (TTL)
	Output signal fault alarm
	Cable for external control included
	Available footswitch accessory



To buy, call KNF at 609-890-8600 or your favorite lab equipment distributor.

2 Black Forest Road  
Trenton, NJ 08691-1810  
Phone: 609-890-8600  
Fax: 609-890-8323  
[www.knflab.com](http://www.knflab.com)

