KNIGHT®

COMMERCIAL & INDUSTRIAL LAUNDRY

Knight manufacturers an extensive lineup of laundry chemical dispensers for top load, on-premise, and industrial laundry machines.

TOP LOAD LAUNDRY

ON-PREMISE LAUNDRY

INDUSTRIAL SINGLE WASHER

INDUSTRIAL MULTI-WASHER

TUNNEL WASHER

LOW LEVEL ALARM

IDEX

Welcome to *KNIGHT*

Knight LLC, a unit of IDEX Corporation, is renowned for its expertise in highly engineered fluidics systems, and components. We strive for Innovation, Diversity, and Excellence.

Founded in 1972 by William Knight Russell, Knight has built a long-standing history as a pioneer in chemical dispensing systems. Our company takes pride in its reputation for dependable products, and superior service among customers worldwide. As a manufacturer with in-house engineering, stainless steel fabrication, and assembly capabilities, we can custom build our products to fit the customer's precise needs.

What's the "Knight Advantage" ? We attribute that success to our knowledgeable people, 1st Class Customer Service and Quality Products that enable our customers to achieve an extremely low Total Cost of Ownership with our equipment. Come experience the "Knight Advantage" for yourself - we look forward to serving you!

Laundry Chemical Dispensing Systems

Knight pioneered liquid chemical injection systems beginning in 1979. Our products are specified by the worlds leading chemical manufacturers and distributors for the Commercial, Industrial and On Premise Laundry markets.

Top Load Laundry
One-Shot
On-Premise Laundry / Dry Cleaning
OP Hospitality
On-Premise Pro Series
On-Premise Plus
On-Premise Global
Industrial Laundry : Single Washer
Multi-flow 2
Knight-Trak II
Industrial Laundry : Multi-Washer
Chem-trak Jr.
Chem-trak Jr. EDP/AOP
Tunnel Washer
Tunnel Express
Low Level Alarm
OP Elite Low Level Alarm

Other Knight Product Lines
Kitchen / Warewash Chemical Dispensing Systems
Chemical Proportioning Systems
Dishwashing Machines
Food and Beverage Chemical Application
Dairy Farm Cleaning & Sanitation Systems

ONE-SHOT

Liquid and Solid Chemical Dispensing System for Top Load Laundry Machines

The One-Shot chemical dispensing system is engineered to dispense one or two chemicals into laundry machines from 17 lb. to 75 lb. capacity. Chemical feed is triggered by direct interface to the washer or manually activated by the user via the dispenser or optional remote activator. A unique "Product Lockout" feature helps you control costs and product consumption.

- Delay time activation
- Start button disable option
- Improved signal qualifying
- One second manual start
- Relay mode for microprocessor washers
- Water resistant, impact resistant thermoplastic case

- Proven reliable, 10 oz/min peristalic pump
- One touch microprocessor based programming
- Exclusive programmable product lockout
- Manual or automatic dispensing
- Trigger input 14 VAC—250 VAC
- Optional remote activator

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ONE-SHOT

LIQUID AND SOLID DISPENSING SYSTEMS FOR 1 AND 2 PRODUCTS

This field proven chemical dispensing system is engineered to dispense one or two chemicals into laundry machines ranging in size from 17 lb. to 75 lb. capacity. Chemical feed is triggered by direct interface to the washer or manually activated by the user via the dispenser or optional remote activator. A unique "Product Lockout" feature helps you control costs and product consumption.

- Watertight, Impact Resistant, Thermoplastic Case
- One Touch Microprocessor Based Programming
- Relay Mode Function For Microprocessor Washers
- Proven Reliable Peristaltic Pump (10 oz./min.)
- Exclusive Programmable Product Lockout
- Delay Time Activation
- One Second Manual Start

- Manual or Automatic Dispensing
- Trigger Input 14 VAC – 250 VAC
- Built in Transformer 115 / 230 VAC to 24 VAC
- Optional Remote Activator
- Long Life, Low Noise Gear Motors
- Start Button Disable Option

APPLICATIONS : Top Load or On-Premise Laundry Machines in Nursing Homes, Restaurants, Motels, Shirt Laundries, Hotels, Car Wash Stations. Also Restaurant Pot & Pan Sinks and Multi Purpose Mop Bucket Dispensing Applications.

OS-100L

OS-100S

1 Product Remote Activator

OS-200L

2 Product Remote Activator

OS-200S

One-Shot / Bowl Combination

ORDERING INFORMATION:

Model	Part Number	Description	Dimensions
OS-100L	8600201-07	1 Product Liquid Dispenser w/Internal Transformer	
OS-100LXT	8600201-P1	1 Product Liquid Dispenser w/External Transformer	
OS-100S	8600600-07	1 Product Solid Dispenser w/Internal Transformer	8" W x 4$^{7/8}$" D x 6$^{1/2}$" H
OS-100SXT	8600600-P1	1 Product Solid Dispenser w/External Transformer	
RA-1P	7652000	Remote Activator, One Product w/6 ft. Cable	
OS-200L	8600604	2 Product Liquid Dispenser w/Internal Transformer	
OS-200S	8600602	2 Product Solid Dispenser w/Internal Transformer	11$^{1/2}$" W x 5" D x 8" H
OS-200LS	8600606	2 Product Liquid & Solid Dispenser w/Internal Transformer	
RA-2P	7652002	Remote Activator, Two Product w/6 ft. Cable	

ONE SHOT AND ULTRA BOWL SYSTEM - Ready to install One Shot and Ultra Power Bowl Combination with Stainless Steel Mounting Panel.

- One-Shot Solid Dispensing System In Plastic Watertight Enclosure
- Stainless Steel Mounting Panel

- Reliable Ultra Power Bowl with Vacuum Breaker (Brass or Plastic)
- Manual or Automatic Dispensing

APPLICATIONS : Top Load or On-Premise Laundry Machines in Nursing Homes, Restaurants, Motels, Shirt Laundries, Hotels, Car Wash Stations. Also Restaurant Pot & Pan Sinks and Multi Purpose Mop Bucket Dispensing Applications.

ORDERING INFORMATION:

Model	Part Number	Description	Dimensions
OS-100SBP	8600612	1 Shot Bowl Combo w/Plastic Vacuum Breaker	16" W x 7$^{1/2}$" D x 18" H
OS-100SBB	8600614	1 Shot Bowl Combo w/Brass Vacuum Breaker	(w/ Vacuum Breaker)

OPTIONS FOR ONE-SHOT

Part Number	Description
7407118	Plastic Pressure Regulator 1/4" FPT
7407119	Water Tempering Valve 1/2" FPT

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OP Hospitality

Economical Laundry Dosing System for On-Premise Washers

The laundry chemical dispensing market is ever evolving with the changing cleaning demands and competitive economic requirements. Knight has designed an On-Premise chemical dispenser that meet these demands, and offers various options to adapt various configurations to fit your laundry facility needs. The OP Hospitality offers 30 formula capability, 3 to 6 pumps, and 16.9 oz/min (500 ml/min) peristaltic pumps. The modular dispenser offers a wide range of flexibility with the options for flush, formula selector, internal or external SIB, and four different tube material options.

"Simply Delivering More, for Less"

- 30 wash formula capability
- 3 to 6 pump option
- 16.9 oz/min (500 ml/min) peristaltic pump
- Optional flush manifold
- Optional formula selector
- Programmable: drain mode, signal mode, relay mode
- Three levels per wash formula

- Auto formula select
- Digital screen programming
- Modular components
- Internal or external SIB options
- Multi-voltage 115/208/230 VAC
- Super EPDM, Viton, Silicone, and Santoprene tube options

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OP Hospitality Components

The OP Hospitality is designed for the cost conscious on-premise laundry accounts where customers require value, reliability, and performance. The flexible laundry dispenser incorporates new planetary gear pumps and a modular design. The OP Hospitality has various configurations and options that offer the flexibility to cater your particular application. With its modular design and the new pump wire channel, the system can be easily modified and serviced in the field.

6 Product OP Hospitality with flush

Optional formula selector

External or internal SiB Options (External Shown)

Flush Solenoid

Modular manifold (set of 2 chemicals per manifold module)

Main housing controls with digital programming

Pump wire channel

Modular pump modules with easy to service wear parts. (Super EPDM as standard peristaltic tubing)

Up to 6 pumps
16.9 oz/min (500 ml/min)

Peristalitc Pump Modules

The OP Hospitality operates with a new, compact, modular pump module. Each pump module is individually encased and consists of two main parts: the motor housing and the snap off roller block. This design simplifies servicing and reduces inventory sku's. Replacing wear parts can be done in seconds without the need for tools.

- 16.9 oz/min (500 ml/min)
- Planetary gear for stronger torque
- Long life motor
- Tube Material Options: Super EPDM, Viton, Santoprene, and Silicone
- Toolless roller block housing removal

Peristaltic Pump Module

New, longer lasting Super EPDM peristaltic tube is standard on the pump module.

Features and Benefits

The OP Hospitality offers digital programming at the main control housing

The pump wire channel allows for quick pump changes and easy routing of the pump wires to the control board in the main housing.

The roller block snaps off from the pump module to allow for quick, toolless tube replacement.

Select washer formula automatically by washer trigger signal or with the optional formula selector for manual operator input

Internal Components

Side Wiring
Easy wiring into the main housing through the side. (Power cord, signal wire, formula selector wiring, and external SIB)

Multi-Voltage
Low voltage connection 115/208/230 VAC 50/60 Hz

Easy to access case design
Fold down front panel for easy circuit board access
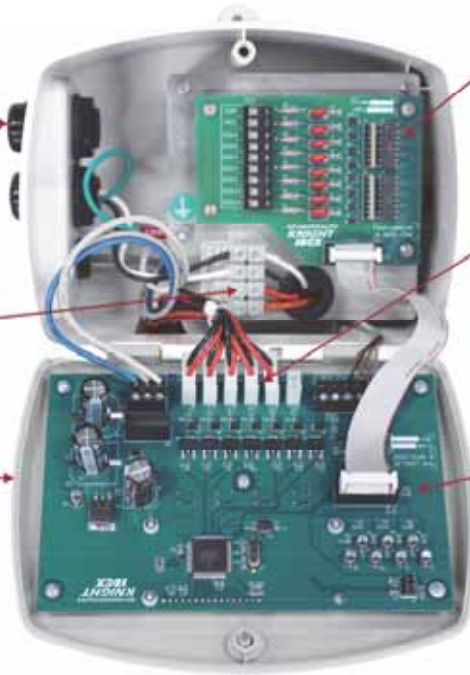
SIB
Models with internal or external SIB (internal SIB shown)

Pump Connections
The pump are easily connected to the main board using the easy access wiring channel to route through the bottom of the main housing.

Circuit Board
6 pump capable
Flush connection
Formula selector connection

Programming Features

The OP Hospitality offers a wide range of programming features to facilitate the most basic single formula on-premise laundry (opl) to an extensive 30 formula, multi-level on-premise laundry dispenser to wash a wide array of soiled laundry. The programming is done on a brightly lit 2 x 16 digital screen on the main housing with an optional formula selector for the laundry operator to use.

- 30 wash formula capability
- Three levels per wash formula
- Programming: drain mode, signal mode, and relay mode
- Auto formula select with signal qualifier
- Load count by formula
- Signal Mode: one to one, assigned step, assigned signal
- Password protected
- Optional laundry user remote allows for convenient formula select

Features	OP Hospitality	OP Pro	OP Pro Global	OP Elite
Number of Formulas	30	8	30	100
Dispenser ID			•	•
Access Code	•	•	•	•
Date and Time			•	•
Auto Formula Reset	•		•	•
Auto Formula Select	•	•	•	•
Bleach Defeat			•	•
Soft Defeat			•	•
Signal Lockout	•	•	•	•
System Lockout	•		•	•
Flush Mode	•	•	•	•
User Access Code	•		•	•
Chemical Names			•	•
Chemical Costs			•	•
Formula Names	•		•	•
Formula Weight			•	•
Shift Times			•	•
Operating Zone			•	•
Calibrate pumps	•	•	•	•
Prime Pumps	•	•	•	•
Formula Programming	•	•	•	•
Computer Interface (Reporting)			•	•
Normal Signal Mode	•	•	•	•
Relay Mode	•	•	•	•
Drain Mode	•	•	•	•
Soil Mode			•	•
Receive Setup From Another Dispenser			Cable	USB
Signal Mode: One to One	•	•	•	•
Signal Mode: Assigned Step	•		•	•
Signal Mode: Assigned Signal	•		•	•
Digital Display	•		•	•
Analog Display		•		
Maintenance Information				•
PC Programming			•	•
Formula Scaling				•
Diagnostics				•
Flow Meter (Proof of flow)				•
Help Screens				•

ORDERING INFORMATION

OP Hospitality

Features Include: Main housing include programming controls with 30-formula capability, drain mode, signal mode, relay mode, flush mode, personalized access code, built-in load counter, variable signal input voltage, and automatic calibration. Standard units are have 16.9 oz/min (500 ml/min) pump with super EPDM tubing. 115/208/230 VAC, 50/60 Hz operation.

Model	Description
OP Hosp-503	OP Hospitality 3 product dispenser, w/ pumps (24 VDC), 16.9 oz/min (500 ml/min), w/ internal SIB
OP Hosp-504	OP Hospitality 4 product dispenser, w/ pumps (24 VDC), 16.9 oz/min (500 ml/min), w/ internal SIB
OP Hosp-505	OP Hospitality 5 product dispenser, w/ pumps (24 VDC), 16.9 oz/min (500 ml/min), w/ internal SIB
OP Hosp-506	OP Hospitality 6 product dispenser, w/ pumps (24 VDC), 16.9 oz/min (500 ml/min), w/ internal SIB
OP Hosp-503E	OP Hospitality 3 product dispenser, w/ pumps (24 VDC), 16.9 oz/min (500 ml/min), w/ external SIB
OP Hosp-504E	OP Hospitality 4 product dispenser, w/ pumps (24 VDC), 16.9 oz/min (500 ml/min), w/ external SIB
OP Hosp-505E	OP Hospitality 5 product dispenser, w/ pumps (24 VDC), 16.9 oz/min (500 ml/min), w/ external SIB
OP Hosp-506E	OP Hospitality 6 product dispenser, w/ pumps (24 VDC), 16.9 oz/min (500 ml/min), w/ external SIB

REMOTE OPTIONS

OP Hospitality Formula Selector (optional)

Choose if you want a power cord option

20 ft Power Cord (optional)

OP Hospitality dispenser and options

Features Include: Main housing include programming controls with 30-formula capability, drain mode, signal mode, relay mode, flush mode, personalized access code, built-in load counter, variable signal input voltage, and automatic calibration. Option of 16.9 oz/min (500 ml/min) pump with Super EPDM, Silicone, Santoprene, Viton or Super EPDM tube. 115/208/230 VAC, 50/60 Hz operation.

Model	Description
OP Hosp-50X	OP Hosp base unit, w/o SIB, w/o pumps

SIB OPTIONS

Model	Description
	Internal SIB
	External SIB module w/ 25 ft. cable

REMOTE OPTIONS

Model	Description
	OP Hospitality Formula Selector (optional)

PUMP OPTIONS

Model	Description
	Peristaltic pump assembly (24 VDC) w/ Super EPDM tube, 16.9 oz/min (500 ml/min)
	Peristaltic pump assembly (24 VDC) w/ Silicone tube, 16.9 oz/min (500 ml/min)
	Peristaltic pump assembly (24 VDC) w/ Santoprene tube, 16.9 oz/min (500 ml/min)
	Peristaltic pump assembly (24 VDC) w/ Viton tube, 16.9 oz/min (500 ml/min)

FLUSH MANIFOLD OPTIONS—Select from the list of manifolds (optional)

Model	Description
	3 & 4 port flush manifold w/ 1/4" check valves, w/ solenoid valve, 24 VDC, 200mA
	5 & 6 port flush manifold w/ 1/4" check valves, w/ solenoid valve, 24 VDC, 200mA

Select check valve options (One per manifold port)

1/4" Check Valve, EPDM, Polypropylene body

Select optional items for your manifold

Pressure Regulator (brass, fixed, 45 PSI) + fittings

Choose if you want a power cord option

Model	Description
0300116	20 ft Power Cord (optional)

On-Premise *Pro*

Laundry Chemical Dosing System for On-Premise Washers

The On-Premise Pro is a versatile unit that has multiple programming options depending on the type of laundry controller that is chosen for the unit. The On-Premise Pro utilizes the same main control and pump housing for the three available models: OP Pro Relay, OP Pro, and the OP Pro Global. The On-Premise Pro uses well proven components and familiar technology in a chemical dispensing unit that is now designed to be more serviceable, interchangeable, versatile, and modular. It has never been easier to choose a dispenser that fits your needs.

**OP Pro
Laundry Controller**

**OP Pro Global
Laundry Controller**

OP Pro 4 pump system

- 10 oz/min, 20 oz/min, or 34 oz/min peristaltic pump
- 3 to 6 chemical capability
- Optional built-in flush manifold
- Low voltage interface module
- Modular components

OP Relay
- Push button pump priming
- Push button flush priming

OP Pro
- 8 wash formula capability
- Programmable: drain mode, signal mode, relay mode
- Two levels per wash formula
- Auto formula select

OP Pro Global
- 30 wash formula capability
- Programmable: drain mode, signal mode, relay mode, and soil mode
- Three levels per wash formula
- Auto formula select
- Chemical usage / operator activity reports (Excel)
- Digital screen with multi-lingual menus

LAUNDRY SYSTEMS

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Modularity and Common Part

The OP Pro was designed to create a dispenser with greater flexibility, serviceability and safety, while maintaining the reliability that Knight systems are known for. Knight has achieved this by developing a new and enhanced dispenser, while still utilizing many of the same well-proven Knight dispensing components. Knight's new modular pump design and multiple remote options offers you the ability to select a dispenser that fits your needs.

- Options of 10, 20, or 34 oz. (300, 600, 1000 ml) pumps
- 100-240 VAC 50/60 Hz power supply that runs up to 3 pumps at a time
- Modular pump modules can be added to any system depending on the flow rates needed
- Various options and common shared parts with OP Elite

- Simplified servicing
  - Pump priming at the main housing
  - Flush priming at the main housing
  - Toolless face plate removal
  - Toolless pump house separation
- Uses well-proven Knight motors, rollers, and tubes

OP Pro Components

6 Product OP Pro

500 series pump, 100 rpm:
10 oz/min (300 ml/min)
500 series pump, 200 rpm:
20 oz/min (600 ml/min)
800 series pump
34 oz/min (1000 ml/min)

Power Supply: 100-240 VAC
50/60 Hz

Water solenoid

Optional flow switch

Toolless face plate remove for quick service

Pump modules with simple motor service interface

Tube splash guard

Safety covers

Modular manifold (set of 2 chemicals per manifold module)

Simplified Servicing

Easy access control board for installation and programming

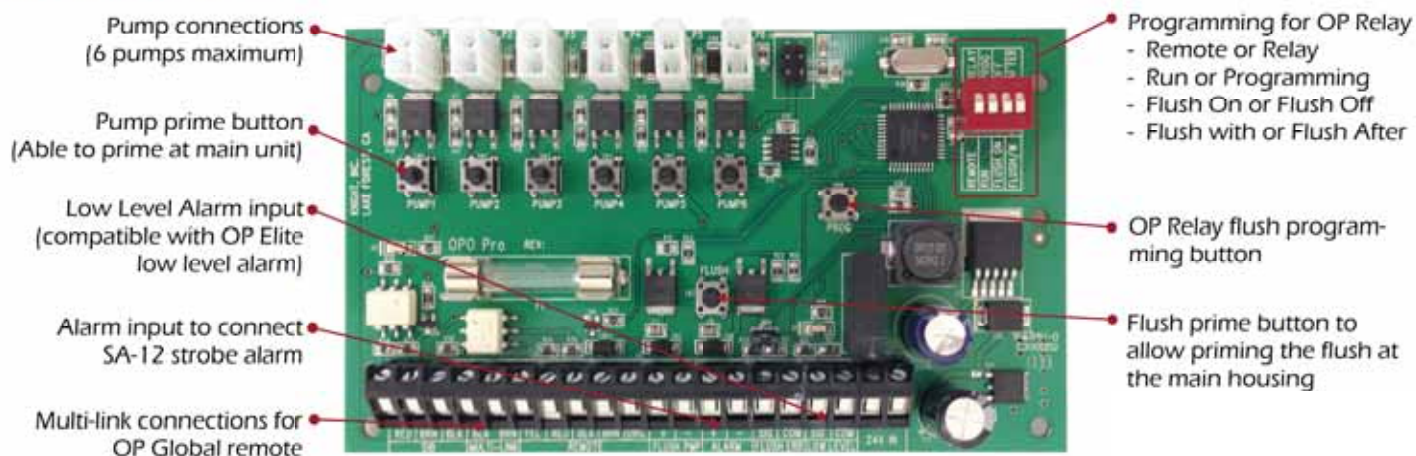Servicing the motor has been simplified with toolless pump housing separation

Toolless face plate removal will ensure for a quick and simple tube change

Optional quick disconnect fittings for quick tube replacement

Main Control Board

Pump connections (6 pumps maximum)

Pump prime button (Able to prime at main unit)

Low Level Alarm input (compatible with OP Elite low level alarm)

Alarm input to connect SA-12 strobe alarm

Multi-link connections for OP Global remote

Programming for OP Relay
- Remote or Relay
- Run or Programming
- Flush On or Flush Off
- Flush with or Flush After

OP Relay flush programming button

Flush prime button to allow priming the flush at the main housing

Programming Features

We realize that not all laundries are the same with a range of needs, preferences, and expertise. The OP Pro offers a wide range of programming options depending what your needs are for at the nursing home, motel and hotels, dry cleaners, or any other on-premise laundry. The OP Pro programming features vary depending on if you choose to operate the system without a remote or choose the standard OP Pro remote or choose the advanced features with the OP Pro Global remote.

OP Pro Base Unit

OP Pro Relay (Base Unit)

The OP Pro base unit offers an economical way of reliably dispensing chemical to laundries in nursing homes or other On-Premise laundries. The OP Pro base unit is designed to be a simple and reliable dispenser that operates with microprocessor controlled washers in relay mode. Programming and controls are located inside the main control housing. The OP Pro base has the ability to be enhanced with the addition of the OP Pro or OP Pro Global remote.

Features

Pump Prime	Flush on or flush off
Flush Prime	Flush with or flush after

OP Pro (Standard Model)

OP Pro Remote

With the addition of the OP Pro remote to the base unit, the OP Pro offers more programming capability. The OP Pro utilizes proven reliable technology and controls of the On-Premise Plus remote with the addition of auto-formula select (AFS). With 8 wash formula capability, the OP Pro is ideal to service small on-premise accounts.

Programming Features

Signal Lockout	Drain Mode
Flush Mode	One to One
User Access Code	Analog Display
Calibrate pumps	Delay Times
Prime Pumps	Two levels per wash formula
Normal Signal Mode	Auto Formula Select (AFS)

OP Pro Global (Advanced Model)

The OP Pro Global remote offers 30 wash formula capability, comprehensive programming features, and data management capabilities. These enhancements allows an on-premise facility to be able to manage cleaning costs and efficiently operate like larger commercial laundries. This is more ideal for accounts that need more capabilities and attention like hotels, laundry houses, and linen factories.

OP Pro Global remote

Programming Features

Dispenser ID	Operating Zone
Access Code	Calibrate Pumps
Date and Time	Prime Pumps
Auto Formula Reset	Formula Programming
Bleach Defeat	Computer Interface (Reporting)
Soft Defeat	Normal Signal Mode
Signal Lockout	Relay Mode
System Lockout	Drain Mode
Flush Mode	Soil Mode
User Access Code	Receive Setup from another dispenser
Chemical Names	Signal Mode: One to One
Chemical Costs	Signal Mode: Assign Step
Formula Names	Signal Mode: Assigned Signal
Formula Weight	Digital Display
Shift Times	

ORDERING INFORMATION

On-Premise Pro Relay

Features Include: Plastic main housing contains pump prime and flush prime controls, normal and relay mode switch. Option of 10 oz/min (300 ml/min) pump, 200 RPM 20 oz/min (600 ml/min) pump, and/or 36 oz/min (1065 ml/min) pump. 100—240 VAC, 50 or 60 Hz operation.

Model	Part #	Description
OP Pro-503 Relay	7070503	OP Pro 3 product liquid dispenser, SIB, w/ pumps (24 VDC), 10 oz/min (300 ml/min)
OP Pro-504 Relay	7070504	OP Pro 4 product liquid dispenser, SIB, w/ pumps (24 VDC), 10 oz/min (300 ml/min)
OP Pro-505 Relay	7070505	OP Pro 5 product liquid dispenser, SIB, w/ pumps (24 VDC), 10 oz/min (300 ml/min)
OP Pro-506 Relay	7070506	OP Pro 6 product liquid dispenser, SIB, w/ pumps (24 VDC), 10 oz/min (300 ml/min)

Note: Please see FLUSH MANIFOLD OPTIONS below for manifold options

On-Premise Pro

Features Include: Plastic main housing contains pump prime and flush prime control. OP Pro offers 8-formula capability, drain mode, signal mode, relay mode, flush mode, flow switch input, personalized access code, built-in load counter, washer interface module, automatic calibration. Option of 10 oz/min (300 ml/min) pump, 200 RPM 20 oz/min (600 ml/min) pump, and/or 36 oz/min (1065 ml/min) pump. 100—240 VAC, 50 or 60 Hz operation.

Model	Part #	Description
OP Pro-503	7071503	OP Pro 3 product liquid dispenser w/ **OP Pro** remote control, SIB, w/ pumps (24 VDC), 10 oz/min (300 ml/min)
OP Pro-504	7071504	OP Pro 4 product liquid dispenser w/ **OP Pro** remote control, SIB, w/ pumps (24 VDC), 10 oz/min (300 ml/min)
OP Pro-505	7071505	OP Pro 5 product liquid dispenser w/ **OP Pro** remote control, SIB, w/ pumps (24 VDC), 10 oz/min (300 ml/min)
OP Pro-506	7071506	OP Pro 6 product liquid dispenser w/ **OP Pro** remote control, SIB, w/ pumps (24 VDC), 10 oz/min (300 ml/min)

Note: Please see FLUSH MANIFOLD OPTIONS below for manifold options

On-Premise Pro Global

Features Include: Plastic main housing contains pump prime and flush prime control. OP Pro Global offers 30-formula capability, drain mode, signal mode, relay mode, flush mode, flow switch input, personalized access code, built-in load counter, washer interface module, variable signal input voltage, split common, automatic calibration and peristaltic pumps with tri-roller block. Option of 10 oz/min (300 ml/min) pump, 200 RPM 20 oz/min (600 ml/min) pump, and/or 36 oz/min (1065 ml/min) pump. 100—240 VAC, 50 or 60 Hz operation.

Model	Part #	Description
OP Pro-503 Global	7072503	OP Pro 3 product liquid dispenser w/ **OP Pro Global** remote control, SIB, w/ pumps (24 VDC), 10 oz/min (300 ml/min)
OP Pro-504 Global	7072504	OP Pro 4 product liquid dispenser w/ **OP Pro Global** remote control, SIB, w/ pumps (24 VDC), 10 oz/min (300 ml/min)
OP Pro-505 Global	7072505	OP Pro 5 product liquid dispenser w/ **OP Pro Global** remote control, SIB, w/ pumps (24 VDC), 10 oz/min (300 ml/min)
OP Pro-506 Global	7072506	OP Pro 6 product liquid dispenser w/ **OP Pro Global** remote control, SIB, w/ pumps (24 VDC), 10 oz/min (300 ml/min)

Note: Please see FLUSH MANIFOLD OPTIONS below for manifold options

On-Premise Pro dispenser and options

ON-PREMISE PRO BASE UNIT

Model	Part #	Description
OP Pro-50X	7070500	OP Pro base unit, SIB, w/o pumps

PUMP OPTIONS

Part #	Description
8080151	5100 Series DC peristaltic pump assembly (24 VDC), 10 oz/min (300 ml/min), 100 rpm
8080152	5200 Series DC peristaltic pump assembly (24VDC), 20 oz/min (600 ml/min), 200 rpm
8080104	8100B DC Peristaltic pump assembly (24 VDC), 34 oz/min (1000 ml/min)

REMOTE OPTIONS

Part #	Description
7170700	**OP Pro** remote control
7170710	**OP Pro Global** remote control

FLUSH MANIFOLD OPTIONS

Part #	Description
8080132-04	3 & 4 port flush manifold w/ 1/4" check valves, w/ solenoid valve, 24 VDC, 200mA
8080132-06	5 & 6 port flush manifold w/ 1/4" check valves, w/ solenoid valve, 24 VDC, 200mA
0600417	Flow Switch Kit
7407117	Pressure Regulator (brass, fixed, 45 PSI)
7901234	1/4" Check Valve, VITON, white PVC body
0300116	20 ft Power Cord

KNIGHT IDEX
FLUID & METERING

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ENBR_OPPRO_1311

On-Premise Plus
Laundry Chemical Dispensing

The On-Premise Plus, with its operator friendly eight formula remote control, provides unparalleled flexibility and economy. With a choice of 1, 2, 3, 4, 5 or 6 pump dispensers, the On-Premise Plus is the market's greatest advance in laundry chemical control. Ease of service and installation is a reality with On-Premise Plus. Simple cable connections, convenient accessibility to internal wiring, and intuitive programming control gets you up and going quickly, and onto your next account.

On-Premise Plus
Remote Control

SIB Washer
Interface Module

SIB-5000

On-Premise Plus 6
Pump Dispenser

- For On-Premise washers with up to 175 lb (80 kg) wash load capacity
- 6 chemical capability
- 10 oz/min (300 ml/min) or optional 20 oz/min (600 ml/min) peristaltic pumps
- Standard 8 or optional 16 and 20 wash formula remote control with protected access code
- Multiple product volumes per wash formula
- Low voltage interface module
- Multi Voltage 115/208/230 VAC
- Optional built-in flush manifold
- Programming: drain mode, signal mode, relay mode

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On-Premise Plus® Laundry Chemical Dispenser

The On-Premise Plus is the laundry industries most feature packed and adaptable dispenser for laundry machines in the 35 lb. - 175 lb. category. The multiple formula remote control provides 8 user selectable wash formulas for dosing a variety of laundry soils. The "OPP" includes a low voltage Washer Interface Module that connects directly to the washers and triggers the dispenser to deliver chemical at the correct interval. This versatile system adapts to the need of your customers. With over 10,000 systems installed around the globe, the On-Premise Plus is proven technology you can rely on!

1 and 2 Product Liquid and Solid Laundry Chemical Dispenser

Versatility that Fits Today's On-Premise Laundry

Whether you need a laundry chemical dispenser for restaurant linens, shirt laundry, hotel laundry or other on-premise laundry applications, the versatility of the On-Premise Plus makes it the right choice for any operation. With interchangeable remote control options, you have more flexibility than ever. You can use On-Premise Plus with it's standard On-Premise Plus remote, or get additional system capabilities with a Multi-Flow™ or Knight-Trak™ Remote Control.

On-Premise with OP-Plus Remote

Small on-premise accounts typically don't need more than 8 wash formulas. These accounts would be restaurants, motels, hospitals, nursing homes, car wash stations, and so on.

The On-Premise Plus with the standard On-Premise Plus remote will properly service these small accounts. The system's simple remote control is intuitive and easy to use. You'll get 8 wash formulas with dual volumes per formula, protected access codes and drain mode pump signaling.

On-Premise with Multi-Flow Remote

Medium size accounts such as shirt laundries or hotels with laundry service typically need more than 8 wash formulas. The On-Premise Plus with a Multi-Flow remote control offers 16 wash formulas, adjustable automatic formula select, bleach defeat, product lockout function and more.

Furthermore, the Multi-Flow remote control has a "Time-Saver" programming feature that allows a programmed setting to be copied from one dispenser to another via a plug-in network cable.

On-Premise with Knight-Trak Remote

For commercial laundry services, accurate cost reporting and data management are critical to the success of the business. On-Premise Plus with Knight-Trak Control allows these operations to connect small washers to an existing Knight-Trak Data Management Network System.

The Knight-Trak control offers 20 wash formulas, detailed data management report capability, remote PC or laptop dispenser programming, automatic formula select with signal qualifier, load count by formula, product lock-out function, much more.

Features & Benefits

We've made access to internal components quick and easy for excellent serviceability. The optional 20 oz. (600 ml) pump, combined with up to 8 wash formulas, gives you greater flexibility in serving a wide variety of laundry applications and washer sizes. The multi-voltage connection allows you to use one dispenser for both 115, 208 and 230 volt applications, saving you time and money.

Plug-N-Play Cable Connections

Multi Voltage Connection Terminal

10 oz. (300 ml) or 20 oz. (600 ml) Pumps
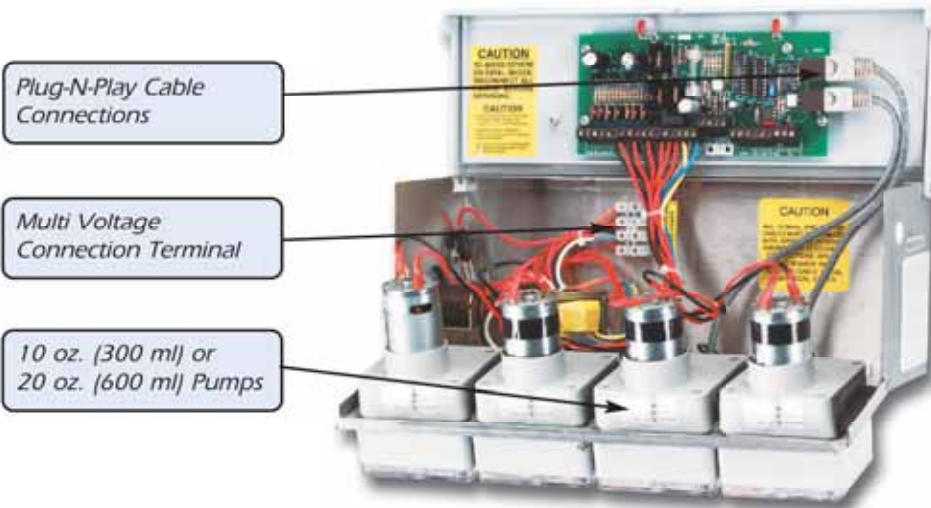
Easy Access Case Design

The fold down front panel and lid mounted circuit boards provide convenient and easy access to all internal wiring.

Field Proven Peristaltic Pumps

The On-Premise Plus Series has field-proven peristaltic pumps that use the highest quality squeeze tubes and gear motor – giving you accuracy and reliability you can put your money on.

On-Premise with Relay Interface Board

This economical On-Premise laundry system has a 4 and 6 channel Electro-mechanical Relay Interface Board that works with all microprocessor controlled washers. When your washer controls the dispensing functions, you SAVE!

The Relay Interface Board offers "flush with" activation. Built-in electro-mechanical "cube" relays isolate pumps from electrical noise and provide simple, reliable washer signal control with unlimited chemical injection flexibility.

On-Premise Plus Remote Control

Pump Volume Display

Pump Flush Indicator

Formula Display

Programming the On-Premise Plus is a smooth process with the user friendly handheld remote. Easy to understand and operate, the unit offers up to 8 formulas with dual pump volumes and load counts per formula. The On-Premise Plus remote control mounts to the front of the washer in a stainless steel holster, right where the operator needs it most. Its 8 formula capability provides greater control of chemical costs with better wash results over a wide range of soil loads. A personal access code protects all formulas already programmed into the system.

Washer Interface Module
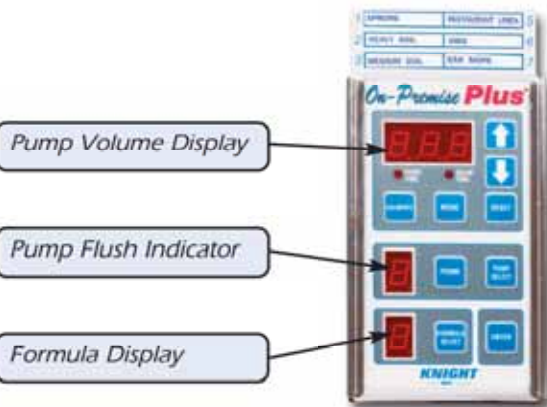
SIB Washer Interface Module

The SIB washer interface module was designed around the needs of the technician to provide maximum versatility and to make your job fast and easy! The SIB allows easy connection to any style washer. High Voltage signal outputs are reduced to a safe 12V to make wiring simple. The SIB washer interface module can be mounted in the washer or on the side of the pump dispenser.

Optional Flush Manifold

Squeeze tube to manifold injection check valve

6 port manifold

Water inlet back check valve

The Flush Manifold prevents washer corrosion and fabric chemical burn. The flush mode automatically activates and opens the system's built-in water solenoid when chemicals are dispensed into the manifold. A diluted flush is then provided to the washer through a single injection line. Chemicals can now be dispensed while protecting fabrics from shock. As an added precaution, built-in check valves prevent back-siphonage as well as cross-contamination of chemicals.

* Optional Proof of Flow Switch Available
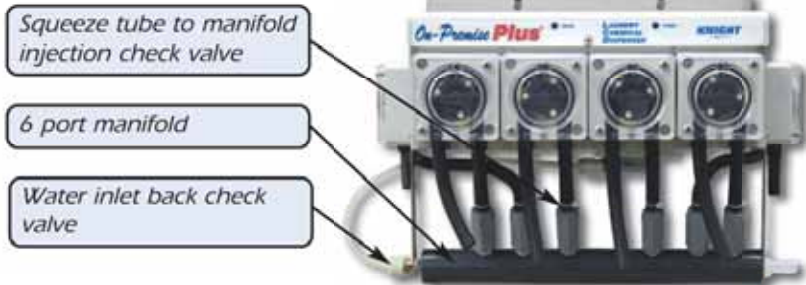
ORDERING INFORMATION

On-Premise Plus Dispensing Systems

On-Premise Plus Dispensing System with Plug & Play Cable Connections!
Features Include: Plastic/stainless steel, water-tight case and cover w/ OP-500 Plus circuitry w/ 8-formula capability, drain mode, signal mode, relay mode, flush mode, flow switch input (3, 4, 5, & 6 pumps only), personalized access code, built-in load counter, washer interface module, variable signal input voltage, split common, automatic calibration and peristaltic pumps with tri-roller block. Standard 500 Series 10 oz/min (296 ml/min) pump. Optional 200 RPM 16 oz/min (592 ml/min) pump available, 115/208/230 V 50/60 Hz operation.

Model	Part Number	Description
OP-502 Plus	8050502	2 Product Liquid Dispenser w/Remote Control
OP-503 Plus	8050503	3 Product Liquid Dispenser w/Remote Control
OP-504 Plus	8050504	4 Product Liquid Dispenser w/Remote Control
OP-505 Plus	8050505	5 Product Liquid Dispenser w/Remote Control
OP-506 Plus	8050506	6 Product Liquid Dispenser w/Remote Control
OP 502X Plus	8662502	2 Prod Liquid Disp w/OP Plus Remote Control w/o Pumps
OP 504X Plus	8662504	4 Prod Liquid Disp w/OP Plus Remote Control w/o Pumps
OP 506X Plus	8662506	6 Prod Liquid Disp w/OP Plus Remote Control w/o Pumps
OP 502MX Plus	8662402	2 Prod Liquid Disp w/Multi-Flow Remote Control w/o Pumps
OP 504MX Plus	8662404	4 Prod Liquid Disp w/Multi-Flow Remote Control w/o Pumps
OP 506MX Plus	8662406	6 Prod Liquid Disp w/Multi-Flow Remote Control w/o Pumps
OP-506X Plus	8662706	OP-506X Plus w/SIB-6, w/LFP, w/o Pumps

On-Premise Plus Pump Options

Model	Part Number	Description
KP5110DCX	8155262	Peristaltic Pump, 10 oz/min (296 ml/min), 100 RPM, 24 VDC
KP5200DCX	8155362	Peristaltic Pump, 20 oz/min (592 ml/min), 200 RPM, 24 VDC
Note:		One standard system is universal for all voltage ranges and frequencies.

On-Premise Plus Manifold Options

Model	Part Number	Description
OP-4 FM	8053004	4 port On-Premise case mount flush manifold
OP-6 FM	8053006	6 port On-Premise case mount flush manifold
FS-01	0600422	Flow switch kit

On-Premise Plus Solid Dispensing Systems

Features Include: Water-tight, thermoplastic case with hinged cover, OP Plus circuitry w/ 8-formula capability, drain mode, signal mode, relay mode, flush mode, personalized access code, built-in load counter, washer interface module, variable signal voltage, split common, automatic calibration, water solenoid valve (and/or peristaltic pump) 115/208/230 V 50/60 Hz operation.

Model	Part Number	Description
OP-501S	8050501-S	1 Product Solid Dispenser w/Remote Control
OP-502	8050502	2 Product Liquid Dispenser w/ Remote Control
OP-502LS	8050502-LS	2 Product Liquid & Solid Dispenser w/Remote
OP-502SS	8050502-SS	2 Product Solid / Solid Dispenser w/Remote
Note:		One standard system is universal for all voltage ranges and frequencies.

On-Premise Global
Laundry Chemical Dispensing System

The On-Premise Global laundry chemical dispensing system defines a new level of versatility and economy for the small laundry market. This exciting new dispenser is built on the industry leading On-Premise Plus platform with new features such as increased 30 formula capability, choices from 2 to 8 chemicals, expanded programming features, and data management capabilities. These enhancements offers the tools for a small on-premise facilities to be able to manage cleaning costs and efficiently operate like larger commercial laundries.

Laundry Formula Remote Control

SIB Washer Interface Module

On-Premise Global Dispenser with 1 to 8 Pump option

- Increased 30 wash formula capability
- 2, 3, 4, 5, 6, 7, or 8 chemical capability
- Chemical usage / operator activity reports exported into Excel
- Remotely manage the dispenser using the Knight Reporter hardware/software
- 10 oz/min (300 ml/min) or 20 oz/min (600 ml/min) peristaltic pumps
- For On-Premise washers with up to 175 lb (80 kg) wash load capacity
- Multiple product volumes per wash formula
- Low voltage signal interface module
- Optional built-in flush manifold
- Password protected
- Programming: drain mode, signal mode, relay mode, and soil mode
- Simple, multi-lingual menus (English, Spanish, French, German, Italian)

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On-Premise *Global* Laundry Chemical Dispenser

The OP-Global allows for the standard main case to dispense 2, 3, 4, 5 or 6 chemicals to laundry machines in the 35 lb. to 175 lb. category. With the additional satellite pump case, the OP Global can expand to dispense up to 7 or 8 chemicals. This is ideal for facilities with hard water, where you need to add conditioners or additional chemicals.

7 Pump On-Premise Global

Reporter - Data Management

The On-Premise Global now offers data management capability that was previously only available in larger chemical dispensers. The data management technology supplies you with critical information to be able to manage and monitor your chemical dispensing usage and costs. This will enable you to operate like larger facilities to maximize overall efficiency and save chemical, labor and energy costs.
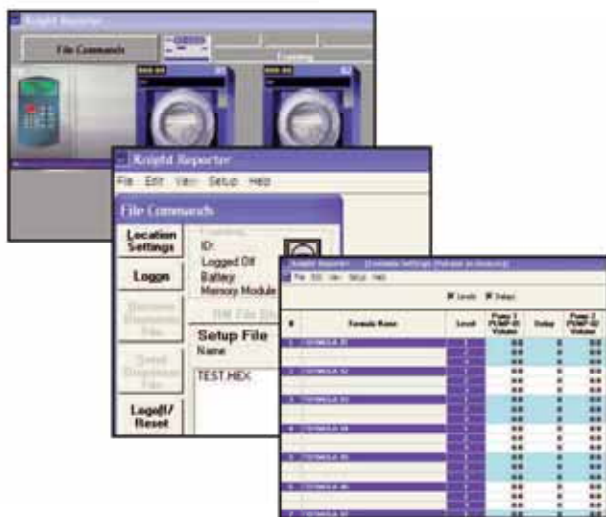
Connect Via the Internet

The Reporter hardware and software allows you to program your dispensers, print full detailed reports, or export reports into Excel from anywhere in the world, whether in your office or directly from the dispenser. You have the option to connect to the dispenser through an IP/TCP connection, phone modem connection, or directly connect to the dispenser with your laptop for "real time" graphic view of up to the minute activity on the wash aisle.

* Chemical cost per: shift, month, week, day, and load
* Formula Chemical Volumes
* Product Costs
* Load Start/Stop time
* Load count by formula
* Average time between loads
* Washroom operator errors
* Automatic formula reset
* Remote PC or laptop dispenser programming
* Set-up/Cycle/Summary reports
* Export to Excel

SIB Washer Interface Module

The SIB washer interface module is designed around the needs of the technician to provide maximum versatility and to make your job fast and easy! The high voltage signal outputs are reduced to a safe 12V to make wiring simple. The SIB allows easy connection to any style washer.

Laundry Formula Remote Control

The On-Premise Global remote is the new force behind the On-Premise platform, which now offers a whole wide range of new options. The remote offers all the programming features of the Knight-Trak, Multi-Flow, On-Premise Plus remote, and more. The On-Premise Global remote is also increasing the formula capability from 8 or 20 to 30 formulas. In addition to the programming features, the new remote now offers the ability of data management with the On-Premise unit.

"Heavy/Medium/Light" Soil select modes

Bleach and Soft on-off buttons

2 X 16 character LCD display

Programming controls

Reporter inlet for data management

Programming Feature Comparison

Features	OP Global	Knight-trak	Multi-fow	OP Plus
Dispenser ID	●	●		
Access Code	●	●	●	
Date and Time	●	●	●	
Auto Formula Reset	●			
Bleach Defeat	●	●	●	
Soft Defeat	●			
Signal Lockout	●	●	●	●
System Lockout	●		●	
Flush Mode	●	●	●	●
User Access Code	●	●	●	●
Chemical Names	●	●	●	
Chemical Costs	●	●		
Formula Names	●	●	●	
Formula Weight	●	●		
Shift Times	●	●		
Operating Zone	●	●		
Calibrate pumps	●	●	●	●
Prime Pumps	●	●	●	●
Formula Programming	●	●	●	
Computer Interface (Reporting)	●	●		
Normal Signal Mode	●	●	●	●
Relay Mode	●		●	●
Drain Mode	●		●	●
Soil Mode	●			
Receive Setup From Another Dispenser	●		●	
Signal Mode: One to One	●	●	●	●
Signal Mode: Assigned Step	●			
Signal Mode: Assigned Signal	●			
Digital Display	●	●	●	
Analog Display				●
Maintenance Information		●		

Features and Benefits

Features

- Password protected
- File transfer function (remote to remote)
- 30 wash formula capability
- Multiple product volumes per wash formula
- Programming: drain mode, signal mode, relay mode, soil mode
- Simple, multi-lingual menus (English, Spanish, French, German, and Italian)
- Automatic formula select with signal qualifier
- Load count by formula
- Product lock-out function
- Detailed data management report capability

Comprehensive Programming Functions

The OP Global remote offers all the programming amenities of larger dispensers in an On-Premise dispenser.

Increased 30 Formula Capability

The new versatile On-Premise Global remote offers multiple programming options including the standard programming option, with an increased 30 formula capability with unique run and delay times for each pump. This offers a greater control of chemical costs with better wash results over a wide range of soil loads.

New quick Soil Select mode "Heavy/Medium/Light"

On-Premise Global now offers a quick, simple formula select depending on the type of laundry load. This operation allows three different soil classifications "Light/Medium/Heavy" and the option of selecting bleach or softener. The soil select modes allows the operator to simply press the type of wash and the unit is ready to go.

The Light/Medium/Heavy buttons can also be individually programmed to become quick favorite buttons for specific formulas.

Easy Access Case Design

With the fold down front panel and fold up circuit board lid, the On-Premise Global is one of the most accessible and easy to service laundry chemical dispensers in the market. The simple cable connections, easy accessible internal wiring, and intuitive programming control allows you to quickly get and in out of accounts.

Easy access case design
Fold down front panel and lid mounted circuit board provide convenient and easy access to all internal wiring

Multi-Voltage
Low Voltage Connection Terminal (115/208/ 230 VAC)

1 to 8 Pumps
300 ml (10 oz.) or
600 ml (20 oz.) pumps

New 8 Pump Circuit Board
6 or 8 pump board are available. 8 pump board allows the 6 pump main case to add 2 additional pumps with added satellite pump case (7677502)

Proven Peristaltic Pumps
Knight's standard peristaltic pump has a long history of proven proven performance and longevity. In addition to the highest quality squeeze tubes, the OP-Global is a dispenser you can rely on.

ORDERING INFORMATION

On-Premise Global Dispensing Systems

Features Include: Plastic/stainless steel case, water-tight case and cover, 30-formula capability, drain mode, signal mode, relay mode, flush mode, flow switch input, personalized access code, built-in load counter, washer interface module, variable signal input voltage, split common, automatic calibration and peristaltic pumps with tri-roller block. Option of 10 oz/min (300 ml/min) pump and/or 200 RPM 20 oz/min (600 ml/min) pump, 115/208/230V 50/60 Hz operation.

Part Number	Model	Description
8662723	OP-503 Global	3 product dispenser in S.S. case w/ OP Global remote, SIB 6, w/ pumps
8662724	OP-504 Global	4 product dispenser in S.S. case w/ OP Global remote, SIB 6, w/ pumps
8662725	OP-505 Global	5 product dispenser in S.S. case w/ OP Global remote, SIB 6, w/ pumps
8662726	OP-506 Global	6 product dispenser in S.S. case w/ OP Global remote, SIB 6, w/ pumps
8662714	OP-504X Global	Four product dispenser in S.S. case w/ OP Global remote, SIB 6, w/o pumps
8662716	OP-506X Global	Six product dispenser in S.S. case w/ OP Global remote, SIB 6, w/o pumps
8662718	OP-508X Global	Eight product dispenser in S.S. case w/ OP Global remote, SIB 10, 8 pump ready circuit board, w/o pumps Note: For additional 7th and/or 8th pump, add OP-502 satellite case (7677502)
7677502	OP-502	Two pump satellite S.S. case w/o pumps

Note: One standard system is universal for all voltage ranges and frequencies.

ON-PREMISE GLOBAL PUMP OPTIONS

8155262	KP5110DCX	Peristaltic Pump, 10 oz/min (300 ml/min), 100 RPM, 24 VDC
8155362	KP5200DCX	Peristaltic Pump, 20 oz/min (600 ml/min), 200 RPM, 24 VDC

Note: Option of 1 to 8 pumps

ON-PREMISE GLOBAL OPTIONS

8053006	OP-4 FM	4 port On-Premise Global case mount flush manifold
8053004	OP-6 FM	6 port On-Premise Global case mount flush manifold
0600405	FS-01	Flow switch kit
7655051		Reporter "Expert" Package for OP Global (Includes: KCI-6000 reporter interface module, PC software for Windows, network cable, and USB A to B cable
0300996		Cable, USB A to USB A (10 ft.)

MULTI – FLOW 2

Laundry Chemical Dosing System for Single Washers

The Multi-Flow 2 is built upon the rugged and reliable Multi-flow platform with the expanded programming features and data management capabilities. What makes the Multi-flow 2 different from the Multi-flow is the versatile remote, which offers an increased 30 formula capability and the ability to collect critical data regarding your chemical dispensing usage and costs. The remote was designed to seamlessly work with the existing Multi-flow pump housing to allow you to switch, replace, or update your existing Multi-flow units. The Multi-flow 2 continues to offer the full range of AC pump options from 10 to 226 oz/min (300 to 6700 ml/min) and the options of both the high and low flow manifold.

Multi-flow 2 Remote

Pump housing

Flush Manifold

- For washers with up to 450 lb. (200 kg) wash load capacity
- Up to 8 chemical capability
- Increased 30 wash formula capability
- Multiple product volumes per wash formula
- Peristaltic pumps flow rates: 10, 23, 40, 155, 226 oz./min. (300, 680, 1200, 4500, 6700 ml/min)
- Programming: drain mode, signal mode, relay mode, and soil mode
- Chemical usage / operator activity reports exported into Excel
- Remotely manage the dispenser using the Knight Reporter hardware/software
- Multi-lingual menus (English, Spanish, French, German, Italian)

KNIGHT

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MULTI - FLOW 2 Laundry Chemical Dispenser

6 Pump Multi-flow with 10 oz/min (300 ml/min) pump

Multi-flow 2 Remote

Peristaltic Pumps with Multiple Flow Rates

Each Multi-flow 2 system can house up to six pumps. You can select any combination of pump rates to meet your requirement.

Peristaltic Pump Features:
• Completely Self Priming
• Positive Displacement
• Accurate and Consistent Flow
• Long Life Squeeze Tubing

Feed Rate:
• 10 oz/min (300 mL/min)   KP-5100X
• 23 oz/min (680 mL/min)   KP-8120AX
• 40 oz/min (1200 mL/min)   KP-8120BX
• 155 oz/min (4500 mL/min)   KP-9130XP
• 226 oz/min (6700 mL/min)   KP-9270XP

High Flow and Low Flow Flush Manifold

Low Flow Flush Manifold
with 1/4" Water Solenoid Valve

Flush Manifold Features:
• "Ball" check valve with optional Viton or EPDM O-ring
• Water inlet solenoid
• Optional proof of flow switch
• Pressure regulator
• Water inlet back check valve
• Injection molded eight port manifold with high flow check valves
• Nylobraid tubing and barb fittings

Features and Benefits

Features
• Password protected
• File transfer function (remote to remote)
• 30 wash formula capability
• Multiple product volumes per wash formula
• Drain mode, signal mode, relay mode, soil mode
• Multi-lingual menus (English, Spanish, French, German, and Italian)
• Automatic formula select with signal qualifier
• Load count by formula
• Product lock-out function
• One to one, assigned step, and assigned signal
• Chemical costs
• Formula weight
• Detailed data management report capability

Increased 30 Formula Capability
The new versatile Multi-flow 2 remote offers multiple programming options with an increased 30 formula capability with unique run and delay times for each pump. This offers a greater control of chemical costs with better wash results over a wide range of soil loads.

New quick Soil Select mode "Heavy/Medium/Light"
The Multi-flow 2 now offers a quick, simple formula select depending on the type of laundry load. This operation allows three different soil classifications "Light/Medium/Heavy" and the option of selecting bleach or softener. The soil select modes allows the operator to simply press the type of wash and the unit is ready to go.

The Light/Medium/Heavy buttons can also be individually programmed to become quick favorite buttons for specific formulas.

Multi-Flow 2 Remote Control

The Multi-flow 2 remote is the new force behind the Multi-flow 2 platform, which now offers a whole wide range of new options. The remote offers all the programming features of the Knight-Trak, Multi-flow remote, and more. The Multi-flow 2 remote is also increasing the formula capability from 16 to 30 formulas. In addition to the programming features, the new remote now offers the ability of data management with the Multi-flow 2 unit.

"Heavy/Medium/Light" Soil select modes

Bleach and Soft on-off buttons

MULTI - FLOW 2

F19 WHITE ONLY
P1R P5R FL

KNIGHT
IDEX

HEAVY MEDIUM LIGHT BLEACH SOFT
POWER PUMP FLUSH
COMFORT

UP DOWN SCROLL ENTER

2 X 16 character LCD display

Programming controls

Reporter inlet for data management

Programming Feature Comparison

Features	Multi-flow 2	Multi-flow	Knight-trak
Dispenser ID	●		●
Access Code	●	●	●
Date and Time	●	●	●
Auto Formula Reset	●		●
Bleach Defeat	●	●	●
Soft Defeat	●		
Signal Lockout	●	●	●
System Lockout	●	●	
Flush Mode	●	●	●
User Access Code	●	●	●
Chemical Names	●	●	●
Chemical Costs	●		●
Formula Names	●	●	●
Formula Weight	●		●
Shift Times	●		
Operating Zone	●		●
Calibrate pumps	●	●	●
Prime Pumps	●	●	●
Formula Programming	●	●	●
Computer Interface (Reporting)	●		
Normal Signal Mode	●	●	●
Relay Mode	●	●	
Drain Mode	●	●	
Soil Mode	●		
Receive Setup From Another Dispenser	●	●	
Signal Mode: One to One	●	●	●
Signal Mode: Assigned Step	●		
Signal Mode: Assigned Signal	●		
Digital Display	●	●	
Maintenance Information			●

Reporter – Data Management

The Multi-flow 2 now offers data management capability, which supplies you with critical information to be able to manage and monitor your chemical dispensing usage and costs. This will enable to maximize overall efficiency and save chemical, labor and energy costs.

* Chemical cost per: shift, month, week, day, and load
* Formula Chemical Volumes
* Product Costs
* Load Start/Stop time
* Load count by formula
* Average time between loads
* Washroom operator errors
* Automatic formula reset
* Remote PC or laptop dispenser programming
* Set-up/Cycle/Summary reports
* Export to Excel

Connect Via the Internet

The Reporter hardware and software allows you to program your dispensers, print full detailed reports, or export reports into Excel from anywhere in the world, whether in your office or directly from the dispenser. You have the option to connect to the dispenser through an IP/TCP connection, phone modem connection, or directly connect to the dispenser with your laptop for "real time" graphic view of up to the minute activity on the wash aisle.

Multi-flow 2 Laundry Chemical Dispensers

WITHOUT PUMPS

Features Include: Stainless steel case and cover, 30 formula remote control w/ 25 ft.(8m) cable, signal input/pump output circuitry, volume/time pump calibration, L.C.D. formula display, flush mode, drain mode, multiple chemical levels, signal lockout, supply signal indicators, load counter, variable auto-formula select, external pump prime, auto-program function, personalized access code, choice of pumps.

How to order: Select the case size for the number of pumps required. Order any combination of 500/800/900 series pumps based on the required flow rate for each product. Signal cable, pickup tubes and poly tubing must also be specified to meet installation requirements.

Model	Part Number	Description
MF-4803RC	7677803	3 Pump Dispenser w/Remote Control, w/o pumps, (500/800)
MF-4804RC	7677804	4 Pump Dispenser w/Remote Control, w/o pumps, (500/800)
MF-4805RC	7677805	5 Pump Dispenser w/Remote Control, w/o pumps, (500/800)
MF-4806RC	7677806	6 Pump Dispenser w/Remote Control, w/o pumps, (500/800)
MF-4808RC *	7677808	8 Pump Dispenser w/Remote Control, w/o pumps, (500/800)
MF-4904RC	7677904	4 Pump Dispenser w/Remote Control, w/o pumps, (500/800/900)
MF-4905RC	7677905	5 Pump Dispenser w/Remote Control, w/o pumps, (500/800/900)
MF-4906RC	7677906	6 Pump Dispenser w/Remote Control, w/o pumps, (500/800/900)
MF-4908RC *	7677908	8 Pump Dispenser w/Remote Control, w/o pumps, (500/800/900)
MFRC	0300060-02	Remote Extension Cable 100 ft.

* Indicates system includes 8 pump Input/Output Board in 6 pump cabinet.

Multi-flow 2 Add-on Pumps

Model	Part Number	Description
MF-4801	7677810	1 Pump Slave Case, w/o pump, (500/800)
MF-4901	7677910	1 Pump Slave Case, w/o pump, (500/800/900)

Multi-flow 2 Pump Options

Model	Part Number	Description
KP-5100X	7108262	500 Series Pump, 100 RPM (7.7 oz/min) (227 ml/min)
KP-5100XP	8600120	500 Series Pump,100 RPM (7.7 oz/min) (227 ml/min) w/Quick Change Panel - 900 Case
KP-8120AX	8507752	800 Series Pump, 120 RPM (23 oz/min) (681 ml/min)
KP-8120AXP	8600110	800 Series Pump, 120 RPM, (23 oz/min.) (681 ml/min.) w/Quick Change Panel - 900 Case
KP-8120BX	8507754	800 Series Pump, 120 RPM, (40 oz/min.) (1,184 ml/min.)
KP-8120BXP	8600115	800 Series Pump, 120 RPM, (40 oz/min.) (1,184 ml/min.) w/Quick Change Panel - 900 Case
KP-9130XP	8600116	900 Series Pump, 130 RPM, (155 oz/min.) (4588 ml/min.) w/Quick Change Panel - 900 Case
KP-9270XP	8600126	900 Series Pump, 270 RPM, (226 oz/min.) (6690 ml/min.) w/Quick Change Panel - 900 Case
Note:		1. Add (-01) to Part Number for 115 VAC 60 Hz.
		2. Add (-02) to Part Number for 230 VAC 60 Hz.
		3. For 230 Volt 50 Hz, 800/500 Series, add (-03) to Part Number
		4. For 230 Volt 50 Hz 900 Series, add (-03) to Part Number

Multi-flow 2 Electronic Upgrade Kit

Model	Part Number	Description
MF-4	7676004	4 Pump Multi-Flow Electronics Upgrade Kit w/Remote Controland 4 Pump Input/Output Board and Mounting Shield
MF-6	7676006	6 Pump Multi-Flow Electronics Upgrade Kit w/Remote Control and 6 Pump Input/Output Board and Mounting Shield
MF-8	7676008	8 Pump Multi-Flow Electronics Upgrade Kit w/Remote Control and 8 Pump Input/Output Board and Mounting Shield
Note:		1. Add (-01) to Part Number for 115 VAC 60 Hz.
		2. Add (-02) to Part Number for 230 VAC 60 Hz.
		3. For 230 Volt 50 Hz, 800/500 Series, add (-03) to Part Number
		4. For 230 Volt 50 Hz 900 Series, add (-03) to Part Number

Flush Manifolds

Model	Part Number	Description
	7002940-01	8 Port High Flow Flush Manifold without Check Valves, 1/2" Asco Solenoid Valve (115 VAC), 1/2" Brass Watts Pressure Regulator and Connector Kit
	7002940-02	8 Port High Flow Flush Manifold without Check Valves, 1/2" Asco Solenoid Valve (230 VAC), 1/2" Brass Watts Pressure Regulator and Connector Kit
	7002941-07	8 Port Low Flow Flush Manifold without Check Valves, 1/4" Eaton Solenoid Valve (24 VAC), Step Down Transformer, 1/4" Brass Watts Pressure Regulator and Connector Kit
	0600423	Injection Kit, 9th Port
	7901238	Check Valve, 1/4" NPT x 3/8" Barb w/Hastelloy Spring, PTFE Ball and EPDM O-Ring, White Body
	7901237	Check Valve, 1/4" NPT x 3/8" Barb w/Hastelloy Spring, PTFE Ball and Viton O-Ring, Gray Body
	7912200	Poly Plug, 1/4" NPT

KNIGHT IDEX
FLUID & METERING

KNIGHT-TRAK
DATA MANAGEMENT SYSTEM

THE

STANDARD

FOR ALL

LAUNDRY

DISPENSING

SYSTEMS

KNIGHT
IDEX

KNIGHT-TRAK II
DATA MANAGEMENT SYSTEM

The Knight-Trak II incorporates years of experience in the development of the most cost effective, versatile, laundry chemical systems available today. Knight-Trak II can be used as a simple multiple formula laundry chemical dispenser or employed as an advanced information system designed to help control overall costs in the laundry.

AN ADVANCED SYSTEM...
Very easy to use

Combine various size, reliable Knight peristaltic pumps with the Knight-Trak II electronics and design a total system for any OPL, Commercial or Industrial Laundry application.

The standard system is designed for washer-extractors with signal or relay mode functions and all types of washwheel controllers.

Laundry Formula Programmer (LFP)

Included with the Knight-Trak II system is the SIB/Signal Input Board which mounts in the washer. This module converts the high voltage supply signals from the washer to a low voltage data transmission and connects to the Laundry Formula Programmer (LFP).

• Large full screen 48 character backlit display

KNIGHT-TRAK II
DATA MANAGEMENT SYSTEM

FORMULA 01
ENTER LOAD WEIGHT   LB

KNIGHT
A division of **KCI** Corporation

• Private labeling with your corporate logo avaliable

• User friendly formula and programming keys

• Oversized, easy to read formula indicator

• Easy to use alpha numeric keypad

New compact programmer (LFP) fits into the palm of your hand for easy calibration and mounts to front of washer for convenient formula selection.

KNIGHT-TRAK II STANDARD FEATURES WITH *New!* VERSION 3.2 SOFTWARE

- 20 Formula capability
- Detailed data management report capability
- Remote PC or laptop dispenser programming
- Automatic formula select with signal qualifier
- Mulitple chemical levels (patented)
- Load start/stop tracking
- Load count by formula

- Large formula indicator
- Flush transfer software
- System diagnostics
- Product "lockout" function
- Automatic formula reset
- Load weight entry
- Dedicated flush output channel

Knight Computer Interface Module, KCI-6000
On or Off-Site Programming and Reporting

The latest innovation in data management technology is this portable hand held interface that allows you to program your dispensers and print full detailed reports from anywhere in the world, your office or directly from the dispenser. Print reports faster than ever! Complete memory print in only 3.5 minutes. **Specify Part# 7681045**

TWO WAYS TO USE THE KCI-6000

#1 Simply plug in the KCI-6000 to the LFP and then to your PC to print out reports or program dispensers on site.

#2 You can do all of the above automatically over phone lines from anywhere in the world by simply using Reporter Software, a PC and a modem.

KNIGHT-TRAK II AND REPORTER SOFTWARE FOR WINDOWS

The system of choice for high volume industrial, commercial and hospitality laundries. Meaningful, laundry reports maximize overall efficiency and save chemical, labor and energy costs.

And you can get maximum performance from your Knight-Trak II system with new version 3.0 WinReporter.

The Knight Reporter Software is an easy to use point and click software program for your PC or Laptop computer that allows you to take advantage of all Knight-Trak II's detailed reporting functions either on-site or at a remote location.

PROGRAM COMPATIBLE WITH WINDOWS 3.1, 95/98,2000, OR XP

New Fast Loading CD ROM!

Expert 6000 Network Kit with KCI-6000

REAL-TIME DISPLAY

REPORTER WASHER NETWORK VIEWER

Reporter for Windows provides the user a "Real-Time" graphic interface view of up to-the-minute activity on the wash aisle. Animated washer graphics display current loads in the washers, cycle time of the load, chemical injection status and more. System interfaces to conventional washers and tunnel washers.

KNIGHT FLUSH MANIFOLDS – Increased Protection Against Corrosion!

The High/Low Flow Knight Flush Manifold offers an increased level of safety for operators as well as protection against corrosion to the washer and chemical burn to the fabrics.

When the highly corrosive laundry chemicals are dispensed by the peristaltic pumps into the Flush Manifold, the unique flush mode of the control opens the built-in water solenoid to provide a diluted flush to the washer through a single injection line. Concentrated chemicals can now be dispensed with less chemical shock to the fabrics being washed. The external high flow check valves prevent back-siphonage as well as cross contamination of chemicals.

Low Flow Flush Manifold with 1/4" Water Solenoid Valve

High Flow Flush Manifold with 1/2" Water Solenoid Valve

Flush Manifold Features:

- New robust "ball" check valve with optional Viton or EPDM O-ring
- Water inlet solenoid
- Optional proof of flow switch
- Pressure regulator
- Water inlet back check valve
- Injection molded eight port manifold with high flow check valves
- Nylobraid tubing and barb fittings

Knight-Trak II Detailed Data Management Reports
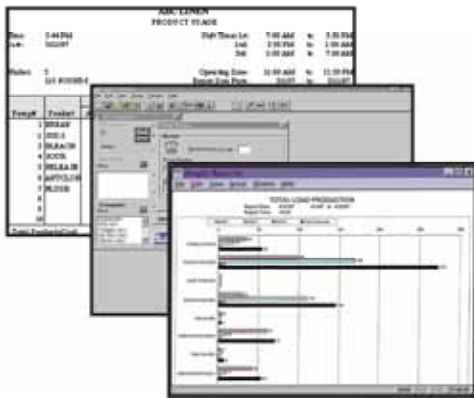
Here is new, meaningful, data reporting technology you must have if you're serious about controlling your chemical, labor and energy costs. Knight-Trak II's detailed reporting functions combined with our unique point and click software for remote PC and laptop operation is the benchmark in the industry.

Knight-Trak II detailed reports include:

- Formula chemical volumes
- Product costs
- Load start-stop time
- Drains per formula
- Average time between loads
- Washroom operator errors
- Chemical cost per: shift, month, day, load and week
- Low supply warning

Knight-Trak Laundry Data Management Systems For Tunnel Washers

Configure various sizes of Knight Peristaltic Pumps and Tunnel Dispenser software options to deliver your chemistry to any type of Tunnel washing machine. System requires use of Reporter for Windows PC software to program dispensers, print logged data and view laundry activity. System can be networked with Knight-Trak II washer extractor Laundry Data Management Systems.

Standard Features

- 20 Formula Capabilities
- Detailed Data Management Reports
- Remote PC, Laptop or Palm top programming
- Automatic Formula Select
- 10 Pump Capability
- Reliable Peristaltic Pumps

Options

- Reporter PC Software
- Tunnel Relay Dispender Software (relay mode)
- Strobe Alarm

KNIGHT LIMITED WARRANTY

Knight controls and pump systems are warranted against defects in material and workmanship for a period of ONE YEAR. All Electronic Control Boards have a TWO YEAR warranty. Warranty applies only to the replacement or repair of such parts when returned to the factory with a KRA number, freight prepaid and found to be defective upon factory inspection. Rubber and synthetic rubber parts such as "O" rings, diaphragms, squeeze tubing and gaskets are considered expendable and are not covered under warranty. Warranty does not cover liability resulting from performance of this equipment nor the labor to replace this equipment. Product abuse or misuse voids warranty.

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KNIGHT, INC.
For information on the complete line of Knight equipment call the sales office nearest you.

Knight Trak Rev - Jan 2002

CHEM-TRAK JR.

CHEM-TRAK Jr.™
MULTI-WASHER CHEMICAL CONTROL

LAUNDRY CHEMICAL ALLOCATION SYSTEM

4 Washer, 8 Chemical Dispensing System for Small Washers with Data Management Reports

- Proven **Knight-Trak** controls
- Single Control and Pump cabinet for four washers
- **Reduced** installation time and cost of ownership
- Integrated **Chemical Flush Manifold**
- **Low Voltage** controls
- **Reliable Knight Perstaltic Pumps** with flow rates up to 36 oz/min (1065mL/min)

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CHEM-TRAK Jr.™
MULTI-WASHER CHEMICAL CONTROL

Chem-Trak Jr is an advanced yet simple chemical dispensing system designed to service up to four washers with capacities up to 250 lbs (114 kgs). Washers are accurately and automatically dosed with up to eight chemicals through a single chemical and water flush line at flow rates up to 36 oz/min (1065 mL/min). A central microprocessor control receives each chemical request from the washers and reliably manages the specific chemical volume delivered to the load. Smaller laundry facilities can now realize the same benefits of many large plants including:

- Centralized chemical storage
- One dispenser on the wall
- Fewer chemical delivery lines
- Rapid chemical dispensing with flush
- Data management reports in plain text and Excel formats

CHECK OUT THESE OUTSTANDING FEATURES!

- **90 Formula capability**
- **Low voltage controls**
- **Simple programming w/menu-driven display**
- **Simple User Interface w/formula indicator**
- **Reliable Knight peristaltic pumps**
- **Automatic formula select**
- **Detailed data management reports**
- **Load weight entry**
- **Integrated chemical flush manifold**
- **Windows compatible PC software**
- **Network to other Knight dispensers**

ABC LINEN
PRODUCT USAGE

#	Product	1st Shift Amount	1st Shift Cost	2nd Shift Amount	2nd Shift Cost	3rd Shift Amount	3rd Shift Cost	Total Amount	Total Cost
1	BREAK	10.18	$56.95	6.50	$36.50	1.59	$11.96	19.28	$96.4
2	SUDS	0.00	$0.00	0.00	$0.00	0.00	$0.00	0.00	$0.0
3	BLEACH	2.89	$11.44	1.54	$9.19	0.78	$3.09	6.01	$3.0
4	SOUR	1.71	$11.46	0.90	$6.04	0.38	$2.59	3.00	$0.1
5	RELEASE	19.85	$279.03	10.11	$141.75	4.04	$56.65	34.03	$456.4
6	ANTICOLOR	1.01	$6.56	1.40	$5.04	0.46	$1.60	5.70	$13.2
7	FLUSH	52.18	$0.00	30.39	$0.00	11.40	$0.00	93.90	$0.0
8		0.00	$0.00	0.00	$0.00	0.00	$0.00	0.00	$0.0
9		0.00	$0.00	0.00	$0.00	0.00	$0.00	0.00	$0.0
10		0.00	$0.00	0.00	$0.00	0.00	$0.00	0.00	$0.0
	Products/Cost	88.63	$358.42	51.65	$194.61	39.65	$76.97	160.00	$630.

Chemical Request Server

- Easy to use menu-driven programming
- 4 x 24 character LCD screen
- List current chemical requests and the last two completed requests
- Diplays all programming menus
- Password protected against tampering
- Main and user passwords
- Program locally or via PC upload on or offsite

Reliable Peristaltic Pumps

- Superior chemical dispensing accuracy
- 3 Pump flow rates to choose: 10, 23, 36 oz/min. (300, 650, 1065mL/min)
- No valves to clog
- Instant priming
- Only the tube gets wet

Reliable Electronic Controls

- Locking water tight stainless steel enclosure
- Plug-in terminal strips
- Network with other Knight dispensers
- Low voltage
- External alarm output

Integrated Flush Manifold

- Injection Molded
- Chemical resistant polypropylene
- Eight chemical inlet port
- Choice of epdm or viton check valves
- Fixed pressure regulator
- Water flow switch
- Pressure relief valve
- High Flow Transfer rate
- Back siphon check valve

Management Reports

Plain text or Excel formats
Setup/Summary/Cycle reports details:
- Chemical usage by product, shift, day, week, month and load
- Washer cycle times
- Wash formula and Chemical Usage
- Washer cycle errors
- Missed or incorrect injections
- Cost per 100 lbs./100 kilos

User Interface with Formula Indicator

Mount on washer or near dispenser

Select wash formula automatically by washer trigger signal or by manual operator input

SIB

Signal Interface connects to washer supply signals and includes one washer interrupt input. Optional quad input interrupt module available. High voltage signals converted to low voltage.

Chem-Trak Jr. Detailed Reports Include:

- **Formula chemical volumes**
- **Product costs**
- **Load start-stop time**
- **Cost per 100 lbs/kg**
- **Average time between loads**
- **Washroom operator errors**
- **Chemical cost per: shift, month, day, load and week**
- **Low supply warning**

Here is new, meaningful, data reporting technology you must have if you're serious about controlling your chemical, labor and energy costs. Chem-Trak Jr.'s detailed reporting functions combined with our unique point and click software for remote PC and laptop operation is the benchmark in the industry.

CHEM-TRAK JR. NETWORK DIAGRAM

Chem-Trak Jr. Chemical
Control Center and Pumps

Small Washer
Extractor

Formula
Selector

PC/Laptop
with Modem Connection
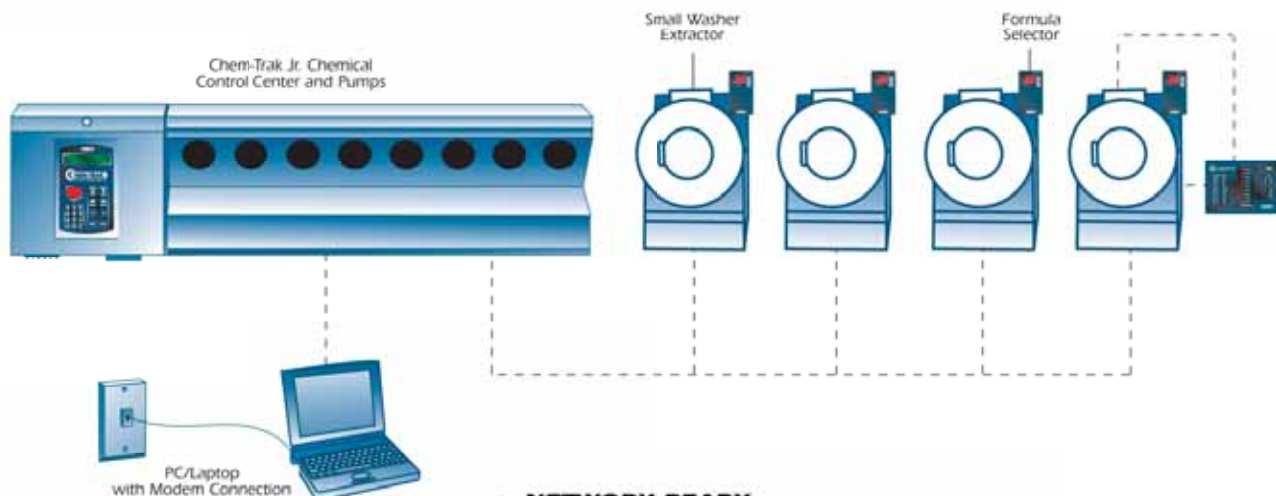
- **NETWORK READY**
- **COMMON REPORTING SYSTEM**
- **DIAL-UP CONNECTIVITY FOR REMOTE USERS**

CSA ⓒ US   CE

ORDERING INFORMATION

CHEM-TRAK JR   Four Washer, Eight Chemical Dispensing System

CHEM-TRAK JR.   (Build your own configuration to service 1-4 washer extractors)

Features Include: Base unit includes eight pump stainless steel pump/flush cabinet, Host Controller in locking stainless steel cabinet, eight port flush manifold assy. w/o check valves. Specify required pumps, signal interface, formula selectors, PC Software, squeeze tube material and check valves at time of order.

Part Number	Description
7224501	Chem Trak Jr. four washer base unit for eight products
7224513-01	Power Supply (110 VAC)
7224513-02	Power Supply (230 VAC)
7224515	KP-8110B DC Pump Assembly (24 VDC) 36 oz. (1065 ML)/Min.
7224516	KP-8110A DC Pump Assembly (24 VDC) 18 oz. (532 ML)/Min.
7224517	KP-5110 DC Pump Assy. (24 VDC) 10 oz.(296 ML)/Min.
7655070-25	Formula Selector, CT Jr. w/25' cable
7655070	Formula Selector, CT Jr. w/100' cable
7656010	Chemtrak SIB Signal Interface
7901245	Check Valve, Viton, Gray PVC
7901239	Check Valve, EPDM, White PVC
7224541-V	Three Way Valve, Viton
7224541-E	Three Way Valve, EPDM
1600351	Plug 1/2 MNPT PP
7656020	Four Contact Washer Hold Module

CHEM-TRAK JR. SPECIFICATIONS

Description	Specifications
Control Box	54"L x 14"H x 7"D/1.3m x .4m x .2m
Pump Cabinet	16"L x 6"H x 4"D/.4m x .15 x .1 m
Power Supply Box	8"L x 10"H x 4"D/.2m x .25m x .1m
Mounting	Wall or substrate of choice
Display	4 x 24 with alpha numeric keypad
Control System	Knight-Trak/Chem-Trak compatible
Electrical Supply	120V/ 240VAC
Electrical Output	24VAC
Washer Requirements	A minimum of 5 chemical signals
Formulas	90 total for four washers
Security	Main/User passwords
Maximum chemical flow rate	36 oz/min (1065 mL/min)

UTILITIES REQUIRED AT THE SYSTEM

Description	Specifications
Location	Within five feet of dispenser
Electrical	115 VAC, 1A, 230V 0.5A 50/60 Hz
Water	1/2" water line
	Ambient water temperature 32F-120F
	(0 - 40C). Do not exceed 120F/40C
	Normal operating pressure 30-70 PSI
	(2-4BAR)

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CHEM-TRAK JR. EDP
With Electric Diaphragm Pumps

CHEM-TRAK *Jr.*™
MULTI-WASHER CHEMICAL CONTROL

The Chem-Trak Jr. with Electric Diaphragm Pumps (EDP) is an advanced chemical dispensing system designed to service up to four washers with capacities of over 450 lbs. (200 kgs.). This field proven electric pump is designed to inject laundry chemistries at higher flow rates than traditional peristalitic pumps without the need for scheduled squeeze tube replacements. These highly reliable pumps are available with Santoprene/EPDM or Santoprene/Viton wetted materials for a wide range of chemicals. Faster more reliable injections will improve laundering results giving your chemicals more time to work in the wash cycle while reducing your overall cost of ownership.

Larger Capacity

Accuracy

Less Service

Main Controller

EDP Pump Cabinet

SIB
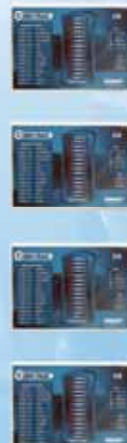
Formula Selectors

Power Supply

LAUNDRY SYSTEMS

- Electric Diaphragm Pumps (50, 190, 410 oz/min) (1.5, 5.6, 12.1 lit/min) are engineered for reliable operation with a wide range of industrial and institutional laundry chemicals
- High flow rates = More time in the water
- Long lasting EPDM or Viton diverter valves
- Attractive, service friendly, locking pump cabinet
- Long lasting EDP pump heads require less service than peristaltic or air operated diaphragm pumps

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Electric Diaphragm Pump (EDP)

EDP's are geared for aggressive chemical, high duty cycle applications. This unique pump features a heavy duty, long life DC motor drive that connects to an offset cam /wobbler plate. This low friction, low stress pumping action produces smooth laminar flow at pressures up to 70 PSI (4.83 bar).

Features
- Quick connect inlet/outlet fittings
- EPDM or Viton seals
- 70 PSI (4.83 bar) pressure switch
- 115 VAC or 230 VAC
- Continuous duty rated motors
- Extended life with minimal moving parts

Chem-Trak Jr. EDP Features
- Full range of flow rates up to 410 oz/min
- 90 formula capability
- Low voltage controls
- Simple programming w/ menu-driven display
- Simple user interface w/ formula indicator
- Automatic formula select
- Detailed data management reports
- Load weight entry
- Integrated chemical flush manifold
- Long lasting diverter valves
- Windows compatible PC software
- Centralized chemical storage
- 115 or 230 VAC
- Easy servicing EDP pump cabinet

Electric Diaphragm Pumps	Peristaltic Pumps
50 oz/min (1500 ml/min)	**10 oz/min** (295 ml/min)
190 oz/min (5600 ml/min)	**23 oz/min** (680 ml/min)
410 oz/min (12.1 liter/min)	**36 oz/min** (1064 ml/min)

Chem-Trak Jr. with EDP Network Diagram

Controller · Pump Cabinet · Small Washer Extractor · Formula Selector · SIB · PC/Laptop · Power Supply

Chem-trak Jr. EDP pump cabinet

ORDERING INFORMATION

Chem-Trak Jr. EDP

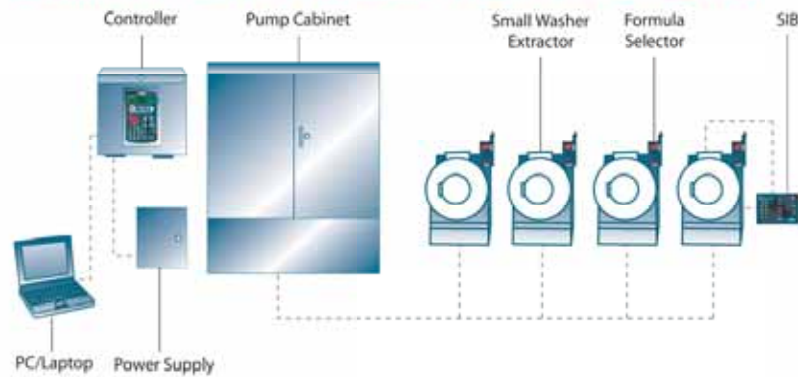Main controller includes: main controller cabinet, user interface board, pump output board, SIB-5010 signal interface, network jack, membrane switch panel and instruction manual

Part Number	Description
7224503	CT Jr. Main Controller "EDP"
Power Supply Options	
Part Number	**Description**
7224513-01	Assembly, Power Supply 120V 50/60 Hz, 80VA High Power
7224513-02	Assembly, Power Supply 230V 50/60 Hz, 80VA High Power
Pump Options	
Part Number	**Description**
7224504	CT Jr. EDP Pump Station (up to 8 pumps)
1600155-01	EDP .4 GPM (1.5 LPM) w/ EPDM w/ Internal Bypass (115V)
1600155-02	EDP .4 GPM (1.5 LPM) w/ EPDM w/ Internal Bypass (230V)
1600156-01	EDP .4 GPM (1.5 LPM) w/ Viton w/ Internal Bypass (115V)
1600156-02	EDP .4 GPM (1.5 LPM) w/ Viton w/ Internal Bypass (230V)
1600157-01	EDP 1.5 GPM (5.7 LPM) w/ EPDM w/ Internal Bypass (115V)

Part Number	Description
1600157-02	EDP 1.5 GPM (5.7 LPM) w/ EPDM w/ Internal Bypass (230V)
1600158-01	EDP 1.5 GPM (5.7 LPM) w/ Viton w/ Internal Bypass (115V)
1600158-02	EDP 1.5 GPM (5.7 LPM) w/ Viton w/ Internal Bypass (230V)
1600159-01	EDP 3.2 GPM (12.1 LPM) w/ EPDM w/ Internal Bypass (115V)
1600159-02	EDP 3.2 GPM (12.1 LPM) w/ EPDM w/ Internal Bypass (230V)
1600154-01	EDP 3.2 GPM (12.1 LPM) w/ Viton w/ Internal Bypass (115V)
1600154-02	EDP 3.2 GPM (12.1 LPM) w/ Viton w/ Internal Bypass (230V)
Accessories	
Part Number	**Description**
7224506	Accessory Kit Chemtrak Jr. EDP
7655070-25	Formula Selector 25 ft.(7.6 m)
7655070	Formula Selector 100 ft. (30.5m)
7656010	ChemTrak SIB's
7655040	WinReporter Software/Hardware Package

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CHEM-TRAK Tunnel Express™
CONTINUOUS BATCH WASHER

CHEMICAL INJECTION SYSTEM FOR TUNNEL WASHERS

Chem-Trak Tunnel Express is the ultimate in modularity, allowing versatile configurations to fit your laundry tunnel. With the ability to add various pumps, valves, and other accessories, Chem-Trak Tunnel Express ensures consistent wash quality and predictable costs in any plant.

- The only tunnel dispenser system with air or electric operated pumps: **Air Operated Double Diaphragm Pumps** (4.0 GPM)(25.7 LPM) or **Electric Diaphragm Pumps** (.4 GPM)(1.5 LPM)
- **Less service and maintenance** is required with the AODD and EDP pumps because there are no tubes that need to be replaced.
- High speed injection with improved accuracy / resolution of chemical dosing (+/- 2%)
- Exclusive module injection assembly allows for simple, fast, and **non-invasive one person calibration**
- Precision metering of pumps to +/- .10 oz/second
- **Flush or no flush configurations**
- Simple, multi-lingual menus (English, Spanish, French, German, Italian, Dutch)
- **Data management** reports (Excel)
- Able to network with multi-washer and conventional Knight dispensers

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Chem-Trak Tunnel Express Automates and Controls Chemical Dispensing

Chem-Trak Tunnel Express captures all the simplicity and proven reliability of a Knight engineered laundry chemical injection system with several unique features geared to reduce installation time, improve the speed of your injections and deliver quality results each and every load transfer!

New Tunnel Express Chemical Injection Controller - This new integrated pump/valve controller features good looks, robust function keys and multilingual displays. Electronics that store usage data and manage the chemical injection are easily accessed and easy to use because they are Knight Trak!

Bright LED Display – easier to see in poorly lit areas

Multilingual Function Key Label is available in English, Spanish, French, Italian, Dutch, and German

Large, Alpha Numeric Key Pad designed for use with gloves on and will withstand chemical exposure

Attractive Watertight Stainless Steel Control Cabinet and Membrane keeps direct spray from attacking components

New Intuitive Membrane Switch User Panel is easy to use for technicians and end users.

Security Lock

Bold, easy access buttons for starting and stopping the dispensing cycle

Exclusive Pump Options for Tunnel Dispensers

Chem-Trak Tunnel Express offers the industry's only tunnel dispenser with the choices of the industries most reliable and carefree high speed pumps. Air operated double diaphragm pumps (AODD) and CleanGuard Electric Diaphragm pumps offer fast reliable flow rates from .4 GPM (1.5 LPM) to 12 GPM (45.4 LPM). These pumps are virtually service free!

PUMP NAME	AODD Pumps	CleanGuard EDP Pumps	900 Series Peristaltic Pumps
Pump Type	Air Operated Double Diaphragm Pump	Electric Diaphragm Pump (EDP)	Peristaltic Pump System
Flow Rate	KAP-25: 4 GPM (15 LPM) Uniflow KAP-50: 12 GPM (45.4 LPM)	.4 GPM (1.5 LPM) or 1.5 GPM (5.6 LPM) or 3.2 GPM (12.1 LPM) at 70 PSI	230 oz/min. (6.8 LPM) at 30 PSI
Power Source	Air at minimum of 8 SCFM	110 or 230 VAC	110 or 230 VAC
Chemical Compatibility	All Known Laundry Products	All Known Laundry Products	All Known Laundry Products

Exclusive Module Injection Assembly

One of the key advantages of Tunnel Express is the ease of which pump calibration is achieved. Chem-Trak Tunnel Express offers the only injection assembly located at the washer that allows for easy and quick one person calibration and control. The module injection assembly allows for metering the chemical flow rates, dead heading the pumps during service, directing chemical to the washer or to a measuring vessel, preventing siphoning, and visualizing the chemical flow. All these controls within an arms length allows for easy one person control, and the quickest, safest calibration in the industry.

Proof of Delivery Sight Tube: Clear sight tube allows operators to see that chemicals are primed, supply tanks are full, and product is going into the washer. (Optional)

Three Way Ball Valve: A three way ball valve controls the flow path to the washer or to the measuring vessel. The valve eliminates the need to remove lines from the washer for calibration.

Metering Valve: Unique metering valve used to calibrate desired flow rates of AODD or EDP pumps. Dispense quantities as little as .25 oz (7 ml) per transfer with excellent resolution.

On-off ball valve: Valve used for safe service or to "dead head" pumps during calibration routine.

Mounting Bracket: Uni-strut mounting brackets provide versatile mounting system for the variety of Tunnel Washer designs on the market.

* Metering chemical flow rate
* Dead heading the pumps
* Directing chemical to the washer or to the measuring vessel for calibration
* Anti-siphoning
* Visualizing chemical flow

Chem-Trak Installation Diagram
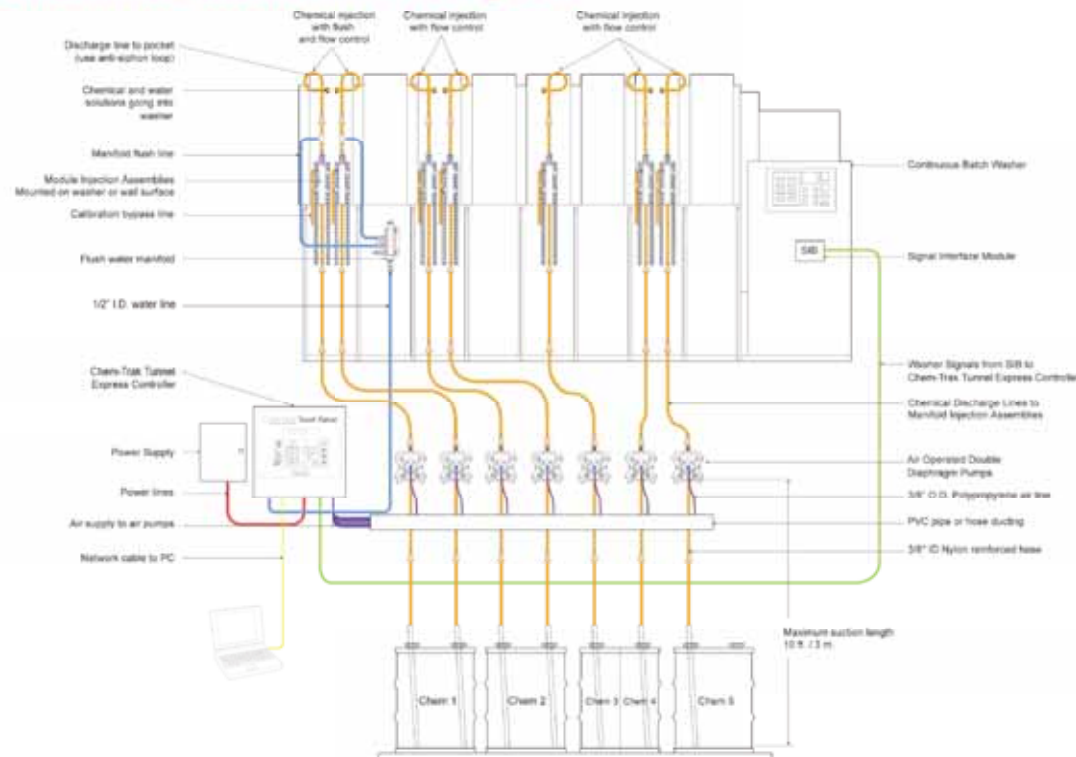
Data Management

KNIGHT-TRAK II
DATA MANAGEMENT SYSTEM

Management Reports

Chem-Trak Tunnel Express windows compatible software connects the Laundry Manager directly to the system.

* Track and verify chemical usage in all areas
* Remote connection via ethernet or LAN
* Export laundry reports to Excel in one report
* Usage reports include product cost, consumption, batch tracking, and user activity
* Records data instantly as chemicals are allocated

OPTIONS

WATER FLUSH MANIFOLD

Provides water flush of chemicals for up to four injection points at washer or at dispenser location

INJECTION ASSEMBLY

* Visual Proof of Flow
* Calibration of Pumps
* Flow Regulation
* Anti-siphon for air pumps

EDP PUMP INTERFACE

Water tight, stainless steel Electric Diaphragm Pump interface box.

SYSTEM SPECIFICATIONS

Chem-Trak Tunnel Express Main Controller
Dimensions: 19"H x 19"W x 7.5"D
        (48.3cm H x 48.3cm H x 19.1cm D)
Power: 12 VDC
Air inlet capacity: 100 PSI (6.8 Bar)
Water pressure: 100 PSI (6.8 Bar)

Chem-Trak Tunnel Power Supply
Dimensions: 10"H x 8"W x 4"D
        (25.4cm H x 20.3cm W x 10.2cm D)
Input power: 110 or 230 VAC
Output power: 12 VDC

Chem-Trak Tunnel Flush Manifold
Dimensions: 16"H x 6.5"W x 2.5"D
        (40.6cm H x 16.5cm W x 6.4cm D)
Injection ports: four to washer and two inlet
Port size: 1/2" FPT
Materials: Schedule 80 PVC

Signal Interface
Dimensions: 4.75"H x 6.75"W x 1.5"D
        (12.1cm H x 17.1 cm W x 3.81 cm D)
Signal input: 18 VAC to 230 VAC
Output to dispenser: low voltage data

Electric Diaphragm Pump Controller
Dimensions: 16"H x 9"W x 4"D
        (40.6cm H x 22.9cm W x 10.2cm D)
Input power from main controller: 5 wire data line
Input power from source: 115 or 230 VAC
Output power: 12 VDC

Chem-Trak Tunnel Module Injection Assembly
Dimensions: 36"H x 7"W x 5"D
        (91.4cm H x 17.8cm W x 12.7cm D)
Inlet thread size: 1/2" FPT
Outlet thread size: 1/2" FPT
Bypass thread size: 1/2" FPT
Materials: Schedule 80 PVC

Air Operated Pumps
KAP-25 (1/4")
Dimensions (in case): 7.2" H x 7"W x 5.5"D
        (235mm H x 198mm W x 140mm D)
Flow rate: 4 GPM (15 LPM)
Max pressure: 100 PSI (7 bar)
Wetted materials: Santoprene, PTFE
Port size: 1/4" FPT

Uniflow Air Operated Pumps
KAP-50 (1/2")
Dimensions (in case): 12" H x 13"W x 8.5"D
        (30.5cm H x 33cm W x 21.6cm D)
Flow rate: 12 GPM (45 LPM)
Max pressure: 100 PSI (6.9 bar)
Wetted materials: Santoprene, PTFE
Port size: 1/2" FPT

CleanGuard Electric Diaphragm Pump
Dimensions: 10"H x 9."W x 4.75"D
        (25.4cm H x 22.9cm W x 12.1cm D)
Flow rate: .4 GPM (1.5 LPM)
Bypass pressure: 70 PSI (4.8 bar)
Wetted materials: EPDM or Viton
Power: 115 or 230 VAC
Amperage: 1.3 Amps

Peristaltic Pump Cabinet
Dimensions: 10" H x 42"W x 8"D
        (25.4cm H x 106.7cm W x 20.3cm D)
Max Pumps: Six
Max Flow Pumps: KP-9270

ORDERING INFORMATION

Chem-Trak Tunnel Express

Base CT Tunnel Control and Options

Part Number	Description
7667007	CT Tunnel Express Main Controller
7224430	CT Tunnel Express Power Supply, 120 VAC
7224441	CT Tunnel Express Power Supply, 240 VAC
7641410	CT Tunnel Express POB Unit for EDP Pumps (10 Pump)
7641405	CT Tunnel Express Peristaltic Pump Case w/ POB-6010 (10 Pump)
7655040	WinReporter Version 3.6 PC Interface and Software Package w/ Cables and KCI PC Interface
2200084	Air Solenoid Valve/Regulators/Gage Assy (x10), Pressure Switch assy. Installed for AODD Pumps
2200085	Air Solenoid Valve/Regulators/Gage Assy (x6), Pressure Switch assy. Installed for AODD Pumps
7664209	Water Flush Solenoid Valve Assembly w/ Regulator and Gage

Fluid End Components

Part Number	Description
7630538	Tunnel Flush Manifold Assy., Four Port
1600929	Check Valve, 1/2" Ported w/ EPDM Seals, includes Kynar barb ftg.
1600921	Check Valve, 1/2" Ported w/ Viton Seals, includes Kynar barb ftg.
7630576-1	Tunnel Water/Chemical Injection "T" w/ Check Valve, Viton
7630576-2	Tunnel Water/Chemical Injection "T" w/ Check Valve, EPDM
1600362	1/2" Kynar port plug (for unused manifold ports)
1600826	KAP-25SP 1/4"AODD Pump, Polypropylene/Santoprene, 4 GPM
1600827	KAP-25TP 1/4" AODD Pump, Polypropylene/PTFE, 4 GPM (15 LPM)
1600828	KAP-25SK 1/4" AODD Pump, Kynar/Santoprene, 4 GPM (15 LPM)
7640638	AODD Pump Cabinet, Stainless Steel for 1/4" AODD Pumps w/ Mounting hardware
7640631	Flow Guard AODD Pump Cabinet, Stainless Steel for 1/2" AODD Pumps w/ Mounting hardware

Fluid End Components (cont.)

Part Number	Description
7640636-01	CleanGuard Electric Diaphragm Pump, .4 GPM(1.5 LPM), EPDM Seals, 110 VAC in Stainless Steel Case
7640636-02	CleanGuard Electric Diaphragm Pump, .4 GPM(1.5 LPM), EPDM Seals, 230VAC in Stainless Steel Case
7640637-01	CleanGuard Electric Diaphragm Pump, .4 GPM(1.5 LPM), Viton Seals, 110 VAC in Stainless Steel Case
7640637-02	CleanGuard Electric Diaphragm Pump, .4 GPM(1.5 LPM), Viton Seals, 230 VAC in Stainless Steel Case
8600126-01	KP-9270 XP, 230 Oz./min (6.8 LPM) Peristaltic Pump w/ QC Panel, 110 VAC w/ T-86E Squeeze Tube
8600126-02	KP-9270 XP, 230 Oz./min (6.8 LPM) Peristaltic Pump w/ QC Panel, 230 VAC w/ T-86E Squeeze Tube
8600115-01	KP-8120BXP,40 Oz./min(1 LPM) Peristaltic Pump w/ QC Panel,110 VAC w/ T-66E Squeeze Tube
8600115-02	KP-8120BXP,40 Oz./min(1 LPM) Peristaltic Pump w/ QC Panel, 230 VAC w/ T-66E Squeeze Tube

Tunnel Module Chemical Injection Components

Part Number	Description
2200096	Module Injection Assembly w/ Ball Metering Valve, Three Way Ball Valve, Two Way Ball Valve and Uni-strut Mounting Brackets, Inlet Check Valve (EPDM)
2200097	Module Injection Assembly w/ Ball Metering Valve, Three Way Ball Valve, Two Way Ball Valve and Uni-strut Mounting Brackets, Inlet Check Valve (Viton)
2200082	Air Operated Antisiphon Valve w/ PTFE Body/Seals mounted on above
2200083	Sight Glass for MIA, mounted

OP *Elite LLA*

Low Level Alarm and Sensor Probe

The OP Elite LLA is designed to reliably monitor supply levels of your liquid chemistry and signal when your chemical is low. With the ability to independently monitor up to 10 chemicals and supply up to three dispensers, the low level alarm not only ensures your chemical is always supplied to multiple dispensing equipment, but also gives a professional appearance to the set up and installation. The OP Elite LLA can be operated as a stand alone unit or work in conjunction with other Knight dispensers.

- Control module accepts up to 10 probes and detects 10 chemical levels simultaneously
- Internal audio alarm that can be heard even in a busy wash room
- Individual response LED shows which product is empty
- Automatically resets low chemical alarm when chemicals are replenished
- 12 VDC power supply with plugs for North America, UK, Europe, and Asia Pacific
- Each probe allows you to feed up to 3 different dispensers with from one chemical container
- 1/4" (7 mm) or 3/8" (10 mm) fittings to accommodate different suction lines
- Durable float construction is made of Polypropylene which is chemical resistant to most common chemicals in the industry
- Probe uses reliable magnetic float switch technology

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Low Level Sensor Probe

The low level sensor probe uses a magnetic switch technology to reliably signal when the chemical supply is low. The probe acts as both a sensor and a suction probe, reducing the number of items you have to install into the chemical container.

1/4" (7 mm) or 3/8" (10 mm) suction lines can be connected to the probe alarm

Plug for unused ports

Three way fitting allows you to connect up to three different machines from one container

Attaches to main control unit using standard low-voltage wire

Dust cover to prevent air born particles from getting into the container

Probe is constructed of durable PVC and Polypropylene

Probe diameter: 1.625" (42 mm)

Protective housing around both the float and suction line

The float is designed to maximize the amount of chemical consumed before the alarm is triggered ensuring minimal waste or residual in the container

Low Level Alarm main module

- Gives audio and LED alarms when chemicals need replacing
- Includes ten individual LEDs to indicate exactly which chemicals are low
- Designated area on the label for chemical name
- Clearly marked screw terminal connections for each low level sensor
- Terminal connection to connect and operate with other Knight systems
- Power supply includes plugs for North America, UK, Europe, Australia, or China
- Voltage/Frequency: 90-260V (50-60hz)   Current: DC 12V, 1.5 Amps
- Optional SA-12 remote strobe alarm available

Probes available in three lengths

- 20" (500mm) suitable for 1 gal, 5 gal, 10L, 25L containers
- 30" (750 mm) suitable for 15 gal, 60L containers
- 43" (1100 mm) suitable for 55 gal, 200L drums

20" Probe (.5 m)

30" Probe (.75 m)

43" Probe (1.1 m)

ORDERING INFORMATION

OP Elite Low Level Alarm

Part Number	Description
8080117	OP Elite LLA main module, 90-260 VAC (50-60 Hz), 12 VDC, 1.5 Amps, 1 to 10 chemicals
7110220	20" Low Level Alarm probe with sensor and suction tube, suitable for 1 gal, 5 gal, 10L, or 25L containers, accommodates 1 to 3 suction lines, 1/4" (7 mm) and 3/8" (10 mm) connectors supplied
7110230	30" Low Level Alarm probe with sensor and suction tube, suitable for 15 gal, or 60L containers, accommodates 1 to 3 suction lines, 1/4" (7 mm) and 3/8" (10 mm) connectors supplied
7110240	43" Low Level Alarm probe with sensor and suction tube, suitable for 55 gal or 200L drums, accommodates 1 to 3 suction lines, 1/4" (7 mm) and 3/8" (10 mm) connectors supplied
7112102	SA-12 strobe alarm for low level and flush errors w/high decibel piezo in stainless steel case

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Knight U.S.	Knight Canada	Knight Europe	Knight Australia	Knight N. Asia	Knight S. Asia
Toll Free (800) 854-3764	Tel (905)542-2333	Tel +44(1323)514855	Tel +61(02)9352.1801	Tel +82(2)3481.6683	Tel +65.9170.0984
Tel (949) 595-4800	Fax (905)542-1536	Fax +44(1323)514828	Fax +61(02)9352.1899	Fax +82(2)3482.5742	Fax +65.6489.6723

Laundry Chemical Dispensers - Specifications

Model	Capacity Washer	Number of Washers	Number of Chemicals	Number of Formulas	AOD Pumps Flow Rate 640 oz (18927ml/min)	EDP 410 oz/min (12 lit/min)	EDP 192 oz/min (5.7 lit/min)	226 oz/min (6684 ml/min)	155 oz/min (4584 ml/min)	40 oz/min (1183 ml/min)	34 oz/min (1005 ml/min)	23 oz/min (680 ml/min)	20 oz/min (591 ml/min)	16 oz/min (473 ml/min)	10 oz/min (296ml/min)	8 oz/min (237 ml/min)	AC Pumps	DC Pumps	115 VAC	208 VAC	240 VAC	240/50 Hz VAC	Liquid Dispenser	Solid Dispenser	CBW	Multiwasher	Washer Extract	Top Load	Data Management	Multi Link (Network)	Flow Meter	POF	Flush	Security Passcode	External SIB	LLA Option
Chem-Trak Tunnel Express	CBW	1	10	99	●		●	●	●	●		●							●		●	●	●		●					●	●		●	●	●	●	●
Chem-Trak Jr. with AOD	< 450lbs. (200kg)	4	8	90 Shared	●														●		●	●	●			●	●			●	●		●	●	●	●	●
Chem-Trak Jr. with EDP	< 450lbs. (200kg)	4	8	90 Shared		●	●												●		●	●	●			●	●			●	●		●	●	●	●	●
Chem-Trak Jr.	250lbs. (114kg)	4	8	90 Shared							●			●	●		●		●		●	●	●			●	●			●	●		●	●	●	●	●
OP Elite	250lbs. (114kg)	4	8	99 Shared							●			●	●				●		●	●	●			●	●			●	●		●	●	●	●	●
Knight-Trak II	< 450lbs. (200kg)	1	9	20				●	●	●	●			●	●		●	●	●		●	●	●			●	●			●	●		●	●	●	●	●
Multi-Flow 2	< 450lbs. (200kg)	1	8	30				●	●	●	●				●	●	●		●		●	●	●			●	●			●	●		●	●	●	●	●
On-Premise Global	< 175lbs. (80kg)	1	8	30								●		●			●		●		●		●				●			●	●	●	●	●	●	●	●
On-Premise Plus	< 175lbs. (80kg)	1	6	8								●		●			●		●		●		●				●						●	●	●	●	●
OP Pro Global	< 175lbs. (80kg)	1	6	30								●		●			●		●		●		●				●			●	●	●	●	●	●	●	●
OP Pro	< 175lbs. (80kg)	1	6	8								●		●			●		●		●		●				●						●	●	●	●	●
OP Pro Relay	< 175lbs. (80kg)	1	6	8								●		●		●	●	●	●	●						●						●	●	●	●	●
OP Hospitality	< 175lbs. (80kg)	1	6	30								●		●			●	●	●		●						●						●	●	●	●	●
One Shot OS-100L	< 75lbs. (35kg)	1	1	1									●			●	●	●	●	●									●			●					
One Shot OS-100S	< 75lbs. (35kg)	1	1	1												●	●	●						●					●			●					
One Shot OS-200L	< 75lbs. (35kg)	1	2	1												●	●	●				●		●					●			●					
One Shot OS-200S	< 75lbs. (35kg)	1	2	1												●	●		●					●					●			●					
One Shot OS-200LS	< 75lbs. (35kg)	1	2	1														●	●										●			●					
One Shot / Bowl Combination	< 75lbs. (35kg)	1	1	1												●	●		●				●					●			●					

Peristaltic Squeeze TUBES Specification Sheet

Squeeze Tubes are available in a wide variety of rubber and synthetic materials.
Select the appropriate material that matches the flow rate of the pump and chemical to be pumped.

The chart below should be used as a reference tool only. Actual tube compatibility with chemical blends subject to environmental and "in situation" variables including:
1.head pressure 2.temperature 3.viscosity 4.chemical concentration

Model Number	Part Number	Dimensions (inch) ID X Wall x OD (ref)	Dimensions (mm) ID X Wall x OD (ref)	Length (inch)	Length (mm)	Roller Block	Description*
BV — LEXSIS							
T-50-BV	7018047	.25 x .13 x .52	6.4 x 3.4 x 13.2	BULK	BULK	RB-550, RB-850	The new BV tube is made of a new high grade Lexsis compound that is specifically designed to last with Peracetic Acid, Iron Sours, Sours, Neutralizers, Chlorine, and other Acids. Not suitable for Detergents, Oils, and Solvents
T-50-BV	7018047-11	.25 x .13 x .52	6.4 x 3.4 x 13.2	11"	279.4 mm	RB-550, RB-850	
T-50-BV	7018047-14	.25 x .13 x .52	6.4 x 3.4 x 13.2	14"	355.6 mm	RB-550, RB-850	
T-66-BV	7018048	.35 x .13 x .62	8.9 x 3.4 x 15.7	BULK	BULK	RB-550, RB-850	
T-66-BV	7018048-14	.35 x .13 x .62	8.9 x 3.4 x 15.7	14"	355.6 mm	RB-550, RB-850	
D — DURO							
T-50-D	7018055	.25 x .13 x .52	6.4 x 3.4 x 13.2	BULK	BULK	RB-550, RB-850	A resilient neoprene tube that is compatible with Alkalis, Builders, Breaks, Surfactants, and Detergent compounds. Not suitable for Solvents, Hydrocarbons, Caustic, and Acids
T-50-D	7018045	.25 x .13 x .52	6.4 x 3.4 x 13.2	11"	279.4 mm	RB-550	
T-50-D	7018046	.25 x .13 x .52	6.4 x 3.4 x 13.2	14"	355.6 mm	RB-550	
E — EPDM							
T-50E	7018050	.25 x .13 x .52	6.4 x 3.4 x 13.2	BULK	BULK	RB-550, RB-850	The EPDM tube is resilient with excellent memory and field proven mechanical reliability. Compatible with weak to strong corrosive solutions including: Alkalis, Builders, Breaks, Surfactants, Detergent compounds, Chlorine, Iron Sours, weak to medium Acids, and Rinse Agents. Not suitable for oils and hydrocarbons.
T-50E	7018051	.25 x .13 x .52	6.4 x 3.4 x 13.2	11"	279.4 mm	RB-550, RB-850	
T-50E	7019060	.25 x .13 x .52	6.4 x 3.4 x 13.2	14"	355.6 mm	RB-550, RB-850	
T-51E	7018021	.11 x .20 x .52	2.4 x x 13.2	BULK	BULK	RB-551	
T-51E	7018020	.11 x .20 x .52	2.9 x 5.2 x 13.2	11"	279.4 mm	RB-551	
T-53E	7018056	.19 x .16 x .51	4.7 x 4.1 x 13.0	BULK	BULK	RB-553	
T-53E	7018063	.19 x .16 x .51	4.7 x 4.1 x 13.0	11"	279.4 mm	RB-553	
T-66E	7018066	.35 x .13 x .62	8.9 x 3.4 x 15.7	BULK	BULK	RB-550, RB-850	
T-66E	7018068	.35 x .13 x .62	8.9 x 3.4 x 15.7	14"	355.6 mm	RB-550, RB-850	
T-86E	7028662	.48 x .19 x .86	12.2 x 4.8 x 21.8	20"	508.0 mm	RB-986	
EP Plus — EPDM PLUS							
T-50EP Plus	7018031	.25 x .13 x .52	6.4 x 3.4 x 13.2	BULK	BULK	RB-550, RB-850	EP Plus is an enhanced EPDM tube that is designed to last longer with Alkalis, Builders, Breaks, Surfactants, Detergent compounds, Chlorine, Iron Sours, weak to medium Acids, and Rinse Agents. Not suitable for oils and hydrocarbons
T-50EP Plus	7018031-11	.25 x .13 x .52	6.4 x 3.4 x 13.2	11"	279.4 mm	RB-550, RB-850	
T-66EP Plus	7018042	.35 x .13 x .62	8.9 x 3.4 x 15.7	BULK	BULK	RB-550, RB-850	
T-66EP Plus	7018042-14	.35 x .13 x .62	8.9 x 3.4 x 15.7	14"	355.6 mm	RB-550, RB-850	
EH — EPDM PLUS (Hospitality Line)							
T-50EH Plus	7018061	.25 x .06 x .38	6.5 x 1.5 x 9.7	BULK	BULK	6326023	EH tube is made with the new EPDM Plus material that is designed to last longer with Alkalis, Builders, Breaks, Surfactants, Detergent compounds, Chlorine, Iron Sours, weak to medium Acids, and Rinse Agents. Not suitable for oils and hydrocarbons
T-50EH Plus	6326019	.25 x .06 x .38	6.5 x 1.5 x 9.7	5.71"	145.0 mm	6326023	
T-53EH Plus	7117170	.13 x .06 x .25	3.3 x 1.5 x 6.4	BULK	BULK	6543023	
T-53EH Plus	6543005	.13 x .06 x .25	3.3 x 1.5 x 6.4	5.65"	143.5 mm	6543023	

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* Knight only recommends potential solutions for tubing applications.
All chemicals should be tested in their proposed applications and under proposed conditions.
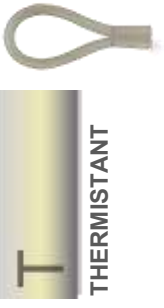
ENBR_TUBES_052217

Squeeze Tubes are available in a wide variety of rubber and synthetic materials.
Select the appropriate material that matches the flow rate of the pump and chemical to be pumped.

The chart below should be used as a reference tool only. Actual tube compatibility with chemical blends subject to environmental and "in situation" variables including:
1.head pressure 2.temperature 3.viscosity 4.chemical concentration

FLUORO VITON (F)

Model Number	Part Number	Dimensions (inch) ID X Wall x OD (ref)	Dimensions (mm) ID X Wall x OD (ref)	Length (inch)	Length (mm)	Roller Block	Description*
T-50F	7018186	.25 x .13 x .52	6.4 x 3.4 x 13.2	BULK	BULK	RB-550, RB-850	A Fluoro-Viton material designed to be compatible with Acids, Caustics, Hydrocarbons, Oils, natural Solvents, and Di-limonene.
T-50F	7018086	.25 x .13 x .52	6.4 x 3.4 x 13.2	9"	228.6 mm	RB-550, RB-850	
T-50F	7018089	.25 x .13 x .52	6.4 x 3.4 x 13.2	12.5"	317.5 mm	RB-550, RB-850	Viton is a harder durometer tubing
T-66-F	7018087	.35 x .13 x .62	8.9 x 3.4 x 15.7	12.5"	317.5 mm	RB-550, RB-850	
T-75-F	7018188	.48 x .13 x .75	12.2 x 3.4 x 19.0	BULK	BULK	RB-975	
T-75-F	7018088	.48 x .13 x .75	12.2 x 3.4 x 19.0	18.5"	469.9 mm	RB-975	

MEDSIL (M)

Model Number	Part Number	Dimensions (inch) ID X Wall x OD (ref)	Dimensions (mm) ID X Wall x OD (ref)	Length (inch)	Length (mm)	Roller Block	Description*
T-50-M	7018000	.25 x .13 x .52	6.4 x 3.4 x 13.2	BULK	BULK	RB-550, RB-850	A commercial grade Silicone based tube good for Detergents, Alkalies, Chlorine, and mild Corrosives.
T-50-M	7018001	.25 x .13 x .52	6.4 x 3.4 x 13.2	11"	279.4 mm	RB-550, RB-850	
T-50-M	7018002	.25 x .13 x .52	6.4 x 3.4 x 13.2	14"	355.6 mm	RB-550, RB-850	
T-53-M	7018005	.19 x .16 x .51	4.7 x 4.1 x 13.0	BULK	BULK	RB-553	Not suitable for Solvents or Oils.
T-66-M	7018010	.35 x .13 x .62	8.9 x 3.4 x 15.7	BULK	BULK	RB-550, RB-850	
T-66-M	7018011	.35 x .13 x .62	8.9 x 3.4 x 15.7	14"	355.6 mm	RB-550, RB-850	
T-86-M	7018015	.48 x .19 x .86	12.2 x 4.8 x 21.8	BULK	BULK	RB-986	
T-86-M	7018016	.48 x .19 x .86	12.2 x 4.8 x 21.8	20"	508.0 mm	RB-986	

SILICONE (S)

Model Number	Part Number	Dimensions (inch) ID X Wall x OD (ref)	Dimensions (mm) ID X Wall x OD (ref)	Length (inch)	Length (mm)	Roller Block	Description*
T-50-S	7018210	.25 x .13 x .52	6.4 x 3.4 x 13.2	BULK	BULK	RB-550, RB-850	A Silicone based tube good for Detergents, Alkalies, Chlorine, and mild Corrosives.
T-50-S	7018211	.25 x .13 x .52	6.4 x 3.4 x 13.2	11"	279.4 mm	RB-550, RB-850	
T-50-S	7018212	.25 x .13 x .52	6.4 x 3.4 x 13.2	14"	355.6 mm	RB-550, RB-850	
T-66-S	7018213	.35 x .13 x .62	8.9 x 3.4 x 15.7	BULK	BULK	RB-550, RB-850	Not suitable for Solvents or Oils.
T-66-S	7018214	.35 x .13 x .62	8.9 x 3.4 x 15.7	14"	355.6 mm	RB-550, RB-850	

THERMISTANT (T)

Model Number	Part Number	Dimensions (inch) ID X Wall x OD (ref)	Dimensions (mm) ID X Wall x OD (ref)	Length (inch)	Length (mm)	Roller Block	Description*
T-50-T	7018100	.25 x .13 x .52	6.4 x 3.4 x 13.2	BULK	BULK	RB-550, RB-850	The Santoprene based tube is generally resistant to strong to medium corrosive solutions including: Acids, Caustics, Chlorine, and Rinse agents.
T-50-T	7018101	.25 x .13 x .52	6.4 x 3.4 x 13.2	11"	279.4 mm	RB-550, RB-850	
T-50-T	7018102	.25 x .13 x .52	6.4 x 3.4 x 13.2	14"	355.6 mm	RB-550, RB-850	
T-53-T	7018097	.19 x .16 x .51	4.7 x 4.1 x 13.0	BULK	BULK	RB-553	Not suitable for Oils and Hydrocarbons
T-53-T	7018096	.19 x .16 x .51	4.7 x 4.1 x 13.0	11"	279.4 mm	RB-553	
T-66-T	7018106	.35 x .13 x .62	8.9 x 3.4 x 15.7	BULK	BULK	RB-550, RB-850	
T-66-T	7018105	.35 x .13 x .62	8.9 x 3.4 x 15.7	14"	355.6 mm	RB-550, RB-850	
T-86-T	7018107	.48 x .19 x .86	12.2 x 4.8 x 21.8	20"	508.0 mm	RB-986	

Peristaltic PUMPS
Specification Sheet

KNIGHT®

For liquid metering applications at low pressure a peristaltic pump is your best choice. Knight's range of variable (DC) and fixed speed (AC) pumps offers a wide range of flow rates and squeeze tubing for chemical and non-chemical applications. Choose the pump and squeeze tube from the tables below. Custom mounting brackets and special configurations are available upon request.

	Part Number	Flow Rate** (oz/min)	Flow Rate** (ml/min)	Tube Specify	Speed (RPM)	Max Back Press. (PSI)	(BAR)	Volt	Amps	AC/DC	Suction Lift (ft.)	(M)	Weight (lb.)	(kg)	Duty Cycle***	Dimensions
Hospitality Line	6326020	16.9	500	T-50EH	xx	40 PSI	2.8 BAR	24	2A	DC	10 ft.	3M	3.8 lb	1.4kg	continuous	
Hospitality Line	6543020	.135 - 1.96	4 to 58	T-53EH	xx	40 PSI	2.8 BAR	24	2A	DC	10 ft.	3M	3.8 lb	1.4kg	continuous	
KP-515X / UMP Digital	9800002-BK	.1 to 1.5	3 to 45	T-53	15	30 PSI	2 BAR	24	400mA	DC	10 ft.	3M	3.8 lb	1.4 kg	continuous	
KP-5100DCX	8080151	10	300	T-50	100	30 PSI	2 BAR	24	400mA	DC	10 ft.	3M	3.8 lb	1.4 kg	continuous	
KP-5200DCX / OP Pro / OP Elite	8080152	20	600	T-50	200	30 PSI	2 BAR	24	800mA	DC	10 ft.	3M	3.8 lb	1.4 kg	continuous	
KP-5100DCX	8155262	10	300	T-50	100	30 PSI	2 BAR	24	400mA	DC	10 ft.	3M	3.8 lb	1.4 kg	continuous	
KP-5200DCX / On-Premise Plus	8155362	20	600	T-50	200	30 PSI	2 BAR	24	800mA	DC	10 ft.	3M	3.8 lb	1.4 kg	continuous	
KP-5100X	7108262-*	7.7	227	T-50	100	30 PSI	2 BAR	See Note*	1.5A	AC	10 ft.	3M	7.2 lb	2.7 kg	5min - ON / 30min - OFF	
KP-5100XP w/ quick change panel	8600120-*	7.7	227	T-50	100	30 PSI	2 BAR	See Note*	1.5A	AC	10 ft.	3M	7.2 lb	2.7 kg	5min - ON / 30min - OFF	

*Add (-01) to Part no. for 115V 60Hz
*Add (-02) to part no. for 230V 60Hz
*Add (-03) to part no. for 230V 50Hz

** Flow Rates are ±10% Dependent on Application.
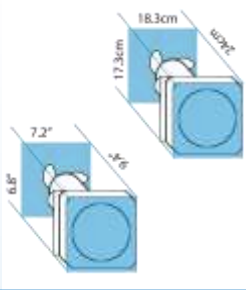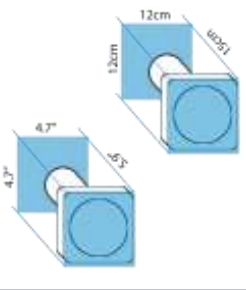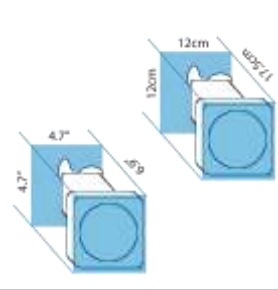*** Duty Cycles— Maximum DC Motor life is 2000 hours.

ENBR_PUMPS_052217

Peristaltic
PUMPS
Specification Sheet

For liquid metering applications at low pressure a peristaltic pump is your best choice. Knight's range of variable (DC) and fixed speed (AC) pumps offers a wide range of flow rates and squeeze tubing for chemical and non-chemical applications. Choose the pump and squeeze tube from the tables below. Custom mounting brackets and special configurations are available upon request.

	Part Number	Flow Rate** (oz/min)	(ml/min)	Tube Specify	Speed (RPM)	Max Back Press. (PSI)	(BAR)	Electrical Volt	Amps	AC/DC	Suction Lift (ft.)	(M)	Weight (lb.)	(kg)	Duty Cycle***	Dimensions
KP-8110DCX (OP Pro / OP Elite)	8080109	36	1065	T-66	110	30 PSI	2 BAR	24	800mA	DC	10 ft.	3M	7.8 lb	2.9 kg	continuous	
KP-8110DCX	8155462	36	1065	T-66	110	30 PSI	2 BAR	24	800mA	DC	10 ft.	3M	7.8 lb	2.9 kg	continuous	
Chem-Trak Jr.																
KP-8120AX	8507752-*	23	650	T-66	120	30 PSI	2 BAR	See Note*	1.5A	AC	10 ft.	3M	8.6 lb	3.2 kg	5min - ON / 30min - OFF	
KP-8120AXP w/ quick change panel	8600110-*	23	650													
KP-8120BX	8507754-*	40	1184													
KP-8120BXP w/ quick change panel	8600115-*	40	1184													

*Add (-01) to Part no. for 115V 60Hz
*Add (-02) to part no. for 230V 60Hz
*Add (-03) to part no. for 230V 50Hz

	Part Number	Flow Rate** (oz/min)	(ml/min)	Tube Specify	Speed (RPM)	Max Back Press. (PSI)	(BAR)	Electrical Volt	Amps	AC/DC	Suction Lift (ft.)	(M)	Weight (lb.)	(kg)	Duty Cycle***
KP-9130XP w/ quick change panel	8600116-*	155	4588	T-86	130	30 PSI	2 BAR	See Note*	3.0 A	AC	10 ft	3M	11.5 lb	4.3 kg	5min - ON / 30min - OFF
KP-9270XP w/ quick change panel	8600126-*	226	6690		270										

*Add (-01) to Part no. for 115V 60Hz
*Add (-02) to part no. for 230V 60Hz
*Add (-03) to part no. for 230V 50Hz

** Flow Rates are ±10% Dependent on Application.
*** Duty Cycles – Maximum DC Motor life is 2000 hours.

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