



CHEM-TRAK JR.

LAUNDRY CHEMICAL ALLOCATION SYSTEM

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



LAUNDRY SYSTEMS

- 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 Peristaltic Pumps** with flow rates up to 36 oz/min (1065mL/min)

KNIGHT

IDEX
FLUID & METERING



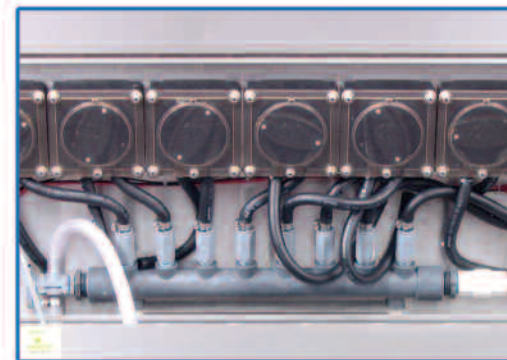
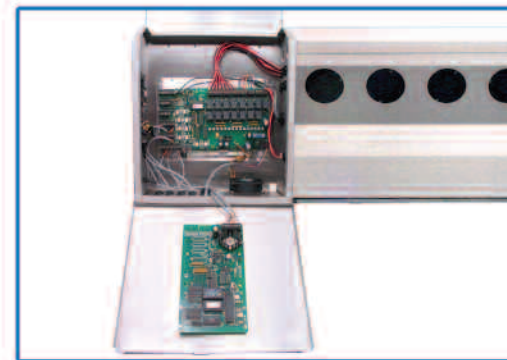
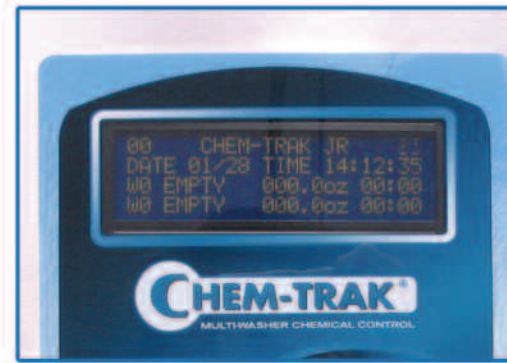
Chem-Trak Jr is an advanced yet simple chemical dispensing system designed to service up to four washers with capacities up to 250 lbs (114 kgs). Washers are accurately and automatically dosed with up to eight chemicals through a single chemical and water flush line at flow rates up to 36 oz/min (1065 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**

5:44 PM
5/22/97

Shift Times 1st: 7:00 AM to 3:30 PM
2nd: 3:30 PM to 2:00 AM
3rd: 2:00 AM to 7:00 AM

5
125 POUNDS

Operating Zone: 12:00 AM to 11:59 PM
Report Date From: 5/1/97 to 5/22/97

PRODUCT USAGE

#	Product	1st Shift		2nd Shift		3rd Shift		Total	
		Amount	Cost	Amount	Cost	Amount	Cost	Amount	Cost
1	BREAK	10.18	\$20.93	4.50	\$32.50	2.59	\$11.96	19.28	\$66.40
2	SUD S	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00
3	BLEACH	2.89	\$11.44	1.34	\$9.28	0.78	\$3.09	6.01	\$23.81
4	SOUR	1.71	\$11.46	0.90	\$6.04	0.38	\$2.59	3.00	\$20.10
5	RELEASE	19.45	\$278.05	10.11	\$141.75	4.04	\$56.65	34.05	\$476.45
6	ANTICLOR	1.82	\$6.56	1.40	\$5.04	0.46	\$1.68	3.70	\$13.28
7	FLUSH	52.18	\$0.00	20.59	\$0.00	11.40	\$0.00	95.98	\$0.00
8		0.00	\$0.00	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00
9		0.00	\$0.00	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00
10		0.00	\$0.00	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00
Product/Cost:		88.63	\$358.42	51.65	\$194.61	19.65	\$76.97	160.00	\$630.00

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
- Displays 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

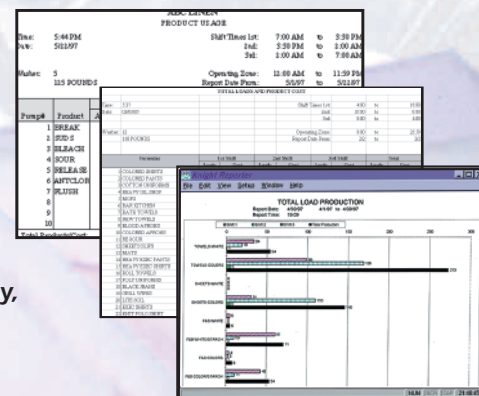
SIB

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.



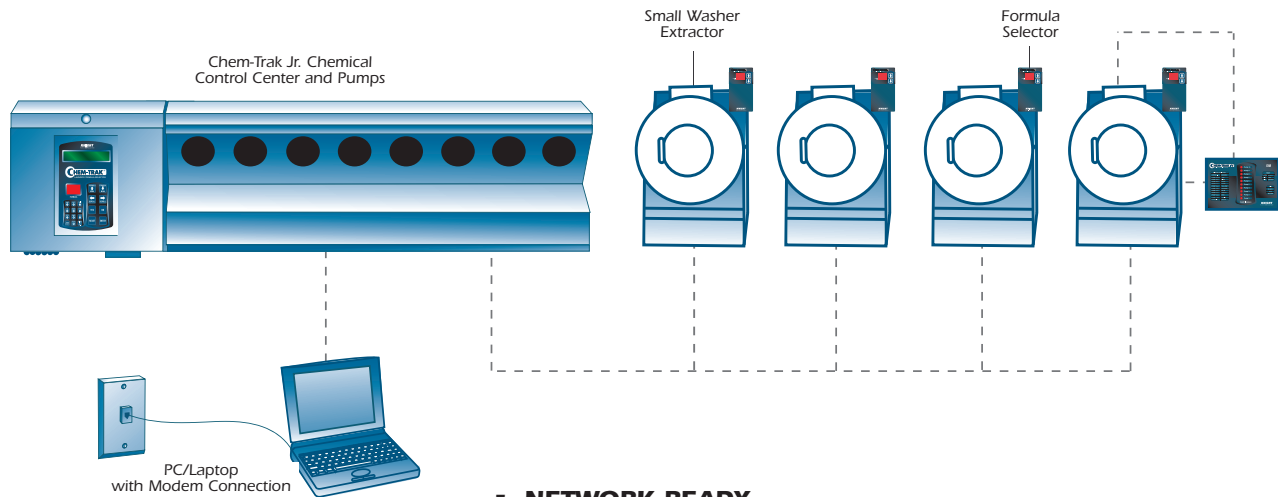
Chem-Trak Jr. Detailed Reports Include:

- 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



- **NETWORK READY**
- **COMMON REPORTING SYSTEM**
- **DIAL-UP CONNECTIVITY FOR REMOTE USERS**



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)

KNIGHT LIMITED WARRANTY

Knights 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. Knight products are not for use in potentially explosive environments. Any use of our equipment in such an environment is at the risk of the user. Knight does not accept any liability in such circumstances.

KNIGHT DISCLAIMER

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