

ILS - Industrial Laundry System

Chemical Metering and Delivery System



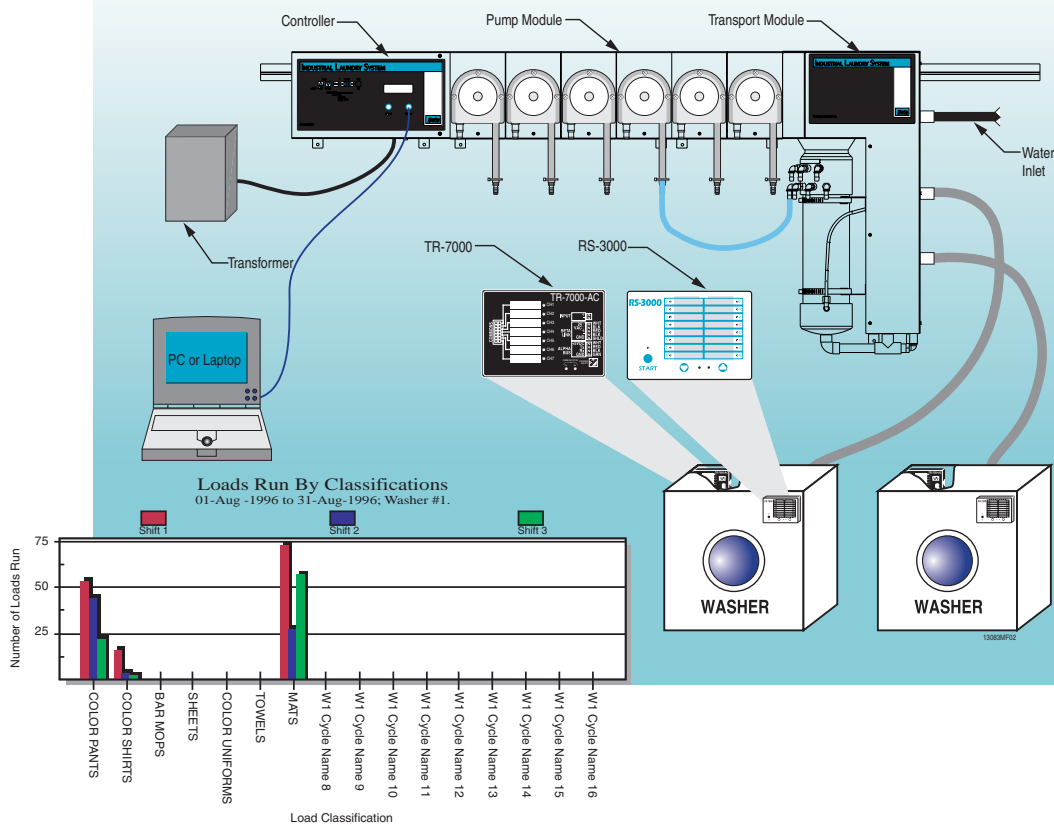
Industrial Laundry System (ILS) is a state-of-the-art chemical feed and data management system for today's medium-to-large on-premise and commercial laundries. It offers outstanding cleaning performance, high safety standards, and maximum profitability.

With ILS, you can configure, monitor and manage your laundry system locally or remotely using ManageNet™ PC software. ManageNet makes laundry management easy and convenient, and allows you to generate reports that provide in-depth analysis of all washroom activities. Color graphs give you an instant, comprehensive view of the laundry's performance and profitability.

Pays for Itself



- Accurate, consistent chemical feeds
- Serves up to two large, industrial washers and up to eight different chemicals per washer
- Easy, comprehensive data management with ManageNet PC software
- Outstanding system safety
- Versatile; interfaces with feed requests from every type of washer
- Networking ILS units together mean complete plant management
- Extremely cost-effective installation, operation and maintenance



System Overview

CONTROLLER

The ILS Controller receives washer trigger signals and supervises the entire chemical delivery system. ILS records all events as they occur. The Controller houses the printed circuit boards, washer signal processor, alarm display screen, reset control panel and the PC communication ports.

PERISTALTIC PUMP MODULES

The Peristaltic Pump Modules deliver chemicals to the Transport Module. Pump Modules are available in 2, 3, 4 or 6 pump configurations. One ILS can dispense up to 8 chemicals.

TRANSPORT MODULE

The Transport Module receives and measures each chemical dose from the peristaltic pumps. The mixing chamber volumetrically measures each dose and then dilutes it with water. The transport pumps then deliver the chemical solution to each washer.

TR-7000 AC TRIGGER MODULE

The TR-7000 AC Trigger Module is the interface between the washer trigger signals and the Controller. It converts seven 24-240 VAC washer triggers to low voltage communications. For safety and ease of installation, a single communication cable (Alpha Bus) connects trigger modules for one or two washers to the Controller.

RS-3000 FORMULA SELECTOR

An optional RS-3000 Formula Selector at the washer provides 16 operator selections that are useful for load classification identification. This allows the Controller to save load-specific logged data.

TRANSFORMER

The transformer reduces voltage from 120/240 VAC to 24 VAC. ILS requires 24 VAC line power at 10 amps.

MANAGENET™

ManageNet™ is a comprehensive laundry management system that lets you monitor, analyze and configure multiple laundry sites locally or remotely. ManageNet's simple screens walk you through total account setup. With the click of your mouse, you can instantly generate comprehensive reports and graphs on elements such as chemical usage, chemical cost and cost by classification.

ManageNet keeps all data and reports separate for each different account, and gives you the tools and information you need to improve your bottom line.

All ILS units can be linked for data management through the ManageNet system.

Specifications

Personal Computer Requirements

- IBM™ compatible PC (minimum 486 processor) running Windows® 3.1, Windows® for Workgroups 3.11, Windows® 95, 98, or NT
- 8 MB RAM
- Serial port for local and remote communications
- CD ROM drive for ManageNet installation
- 15 MB free space on hard drive
- Color monitor (highly recommended but not required)
- Printer, PC-compatible for graphs and reports (color printer optional)
- For optional remote communications, U.S. Robotics Sportster™ or Classic™ 14.4 Kbps modem required

Controller

Communication Ports	RS-485 for PC or modem connection, 15 feet (4.57 meters) or more from the Controller. RS-232 for PC or modem connection within 15 feet (4.57 meters) of the Controller
Keypad	5 key, sealed membrane switch
Display	LCD, 4 line, 20 characters per line
Alarm	10 amp relay for remote annunciation
Memory	Nonvolatile, retains setup and stored data upon power down
Enclosure	304 stainless steel, key lockable with program lockout switch

Size	Height	Width	Depth
	8.2	15.3	6.0 in
	20.8	38.7	15.0 cm
Weight	13.5 lbs (6.1 kgs)		

Power - Input 24VAC @10 amps, 50/60Hz

Peristaltic Pump Module

Type	Peristaltic, positive displacement, self-checking, dual roller
Pump Motors	High torque DC motors with constant speed/volume control
Number of Pumps	8 maximum
Pump Rate	Nominal: 100 oz/minute (3 liters/minute) Slow Speed: 14 oz/minute (0.4 liters/minute)
Pump Squeeze Tubes	Silicone, Beta Tube, C-Flex and Viton
Enclosure	304 stainless steel
Power - Input	24VDC supplied by ILS

Pump Configurations

Size	Height	Width	Depth	Weight
2 Pumps	8.20	10.7	6.00 in	14.5 lbs
	20.8	27.2	15.0 cm	6.60 kgs
3 Pumps	8.20	16.6	6.00 in	21.1 lbs
	20.8	42.2	15.0 cm	9.60 kgs
4 Pumps	8.20	21.3	6.00 in	27.4 lbs
	20.8	54.1	15.0 cm	12.4 kgs
6 Pumps	8.20	32.0	6.00 in	40.9 lbs
	20.8	81.3	15.0 cm	18.5 kgs

Transport Module

TRANSPORT PUMPS

Type	Diaphragm
Flow	3.0 gpm (11.4 liters/min) @17 psi, open flow
Maximum Rating	100 psi
Mixing Chamber	Chemical-resistant PVC
Overfill Switch	Magnetic reed float
Incoming Water	Requires minimum 3 gpm, 50 - 120°F (11.4 liters/min, 10 - 49°C) Standard 3/4 in bib (garden hose type)
Feed Line Connect Size	Polyflow tubing, 3/8 in OD
	Height Width Depth
	30.0 13.25 8.25 in
	76.2 33.6 20.9 cm
Weight	34 lbs (15.4 kgs)
Power - Input	24VDC supplied by ILS

TR-7000 AC Trigger Module

Selection	Processes up to 7 washer triggers
Size	Height Width Depth
	4.75 6.75 1.50 in
	12.1 17.2 3.80 cm
Weight	0.6 lbs (0.3 kgs)
Power - Input	5VDC supplied by Controller (Alpha Bus)
Input Trigger	24-240VAC, fully isolated AC/DC option available

RS-3000 Formula Selector

Size	Height Width Depth
	4.75 6.75 1.50 in
	12.1 17.2 3.80 cm
Weight	0.6 lbs (0.3 kgs)
Power - Input	5VDC supplied by Controller (Alpha Bus)

Transformer

Size	Height Width Depth
	8.00 6.50 5.00 in
	20.32 16.51 12.7 cm
Weight	19 lbs (8.6 kgs)
Power - Input	120-240 (120/240VAC), 50/60 Hz
Power - Output	24VAC @20 amps

Ambient Operating Temperature

36 - 120°F (2 - 49°C)

Ordering Information

Component	Recommended Qty	Code No.
Controller (includes manual but no pumps)	1 per system	087279
Two pump module, 100 oz/min per pump	as required	096623
Three pump module, 100 oz/min per pump	as required	096624
Four pump module, 100 oz/min per pump	as required	096625
Six pump module, 100 oz/min per pump	as required	096626
Transport Module	1 per system	1201127
Transformer	1 per system	051281
TR-7000 Trigger Module	1 per washer	093600
RS-3000 Formula Selector	1 per washer/as required	094488
ManageNet Win	1 per system	099050
Protocol Converter	1 per laundry facility	097906

ILS TABLE

ILS Installation Kits

Item N°	Description
087316	Installation kit, 4 pump
087317	Installation kit, 6 pump
087319	Installation kit, 8 pump

ILS Accessories

Item N°	Description
097906	Protocol Converter
094114	Communications Cable, RS232/DB9, Local PC connection
1202252	USB/RS232 Converter Cable
099246	Anti-siphon Kit
042206	Check Valve, 1/2 FPT x 1/2 FPT
041762	Cable, Shielded, 4-conductor, 24 GA (alphalink to all washers)
4198456	Strobe Light, Amber
050705	Rail, Mounting, 12" SST
050579	Rail, Mounting, 34", SST
092917	Standpipe, 3/4" x 46" L
099839	Temperature Probe TP3409
059000	Trigger Module, 1 per system for installs requiring DC trigger inputs (Braun B&R blue-line controller)
050587	Harness, 7 Channel Trigger Module

ILS Spare Parts

Item N°	Description
069580	Solenoid Repair Kit
099607	Valve Repair Kit, Shurflo, 3 GPM (Santoprene)
068636	Valve Repair Kit, Shurflo, 3 GPM (Viton)
098837	Tandem Peri Pump Kit
097073	Aerator Kit
091155	PCB Assembly, Model 100
1203862	PCB Assembly, Relay, 24V, MOD, ILS
090941	PCB Assembly, Transport Module
1203861	Harness, PCB, Controller
098552	Harness, Motor
069947	Complete Diaphragm Pump, 3 GPM (Viton)
096801	Complete Diaphragm Pump, 1.5 GPM (Viton) for units built prior to 3/99
098583	Diaphragm, Shurflo (head only), with Elbow Fittings (Santoprene)
1201024	Diaphragm, Shurflo (head only), 3 GPM (Viton)
041923	Solenoid Valve, Transport Module
055697	RS-485 Adapter
1202252	Converter Cable, RS232 to USB
091033	Hose Fitting, 3/8B x 3/8 MPT, Elbow
094136	Aerator, Faucet, 3/8 MPT 2.2 GPM
097886	Label, ILS Controller
096093	Strainer, In-line, 1/2 FPT, Polypropylene, 20 mesh
097513	Strainer, In-line, 1/2 FPT, Polypropylene, 80 mesh
098569	Mixing Bowl



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Specifications subject to change without notice

Beta Technology is ISO 9001 certified

Specifications are subject to change as part of Beta's on-going quality improvement process.