

# PULSAtron<sup>®</sup> PLUS

**PULSAFEEDER<sup>®</sup>**  
A Unit of IDEX Corporation

## Series WT Water Meter Feed & Bleed Control

The Series WT was designed to control the feed and bleed cycle in an open-air cooling tower. The feed and bleed cycle is initiated and controlled by input from a water meter. The Series WT combines everything you need to bleed off the tower and feed inhibitor into one unique, compact package to create a simple and cost effective metering and control system.

### Principal of Operation

The Series WT includes a water meter input with programmable pulse timers that control the feed and bleed relays. When the water level in the cooling tower drops, the make-up water is turned on creating flow through the water meter. As make-up water passes through the water meter, it generates a series of pulses based on the volume of flow.

The Series WT has two pulse counters with independent set points that monitors output of the water meter. One controls the pump and one controls the bleed relay. When the count exceeds the set point, the counter is reset and the control function is activated for the run-time specified at set-up.

### Operating Benefits

- **Complete Control System** in one unique package. There is no need for a separate controller. All control functions are integrated into the pump eliminating the expense of purchasing and installing another piece of equipment.
- **Easy to program User Interface.** There are no complicated menu structures in order to set up the PULSAtron Plus for your specific parameters. Simply press the universally recognized symbol key identifying the function you wish to adjust and change the value with the up or down arrow key.
- **Dual Programmable Pulse Counters.** Independent timers for feed and bleed provide a greater level of control within your application.
- **Water Meter Input.** User determines the amount of chemical to feed and bleed time based on the volume of make-up water. Programmable timer, stroke frequency and count set point combine to provide precise control over the amount of chemical used.

- **Reliable metering performance.** Guided check valves with the proven seat and ball designs make PULSAtron the most reliable metering pumps in the world. PULSAtron pumps are known for excellent suction lift characteristics resulting in highly dependable chemical additions.
- **Rated 'hot' for Continuous duty.** PULSAtron Plus pumps continue to meet their specifications for pressure and capacity during extended use. The solenoid is separately encapsulated in a fin-cooled, thermal-conductive enclosure that effectively dissipates heat away from the electronics.
- **Leak-free, wet end without seals.** Our diaphragms are of superior construction – teflon-faced, bonded to a composite of Hypalon and fabric layers and reinforced with a metal insert for optimum flexibility and durability.



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# PULSAtron PLUS Series WT Specifications

Four distinct models are available, having pressure capabilities to 150 PSIG / 10 BAR at 6 GPD and flow capacities to 30 GPD / 5.04 LPH at 100 PSIG/7 BAR with a 100:1 turndown ratio. Metering performance is reproducible to within ±2% of maximum capacity. For full model selection information refer to Price Schedule EMP-PS LP.

- 120VAC or 250VAC @ 50/60 HZ, 5A max
- Relay rated to 5A at 240VAC
- Isolated dry contact flow switch input
- Isolated dry contact water meter input
- 4 Digit LED, 9 key membrane keypad
- Single-button function keys
- Pump and bleed timers, pump and bleed counters
- Stroke rate adjusts 0-100% in 1% increments, turndown ratio 100:1

## Pressure and Flow Rate Capacity

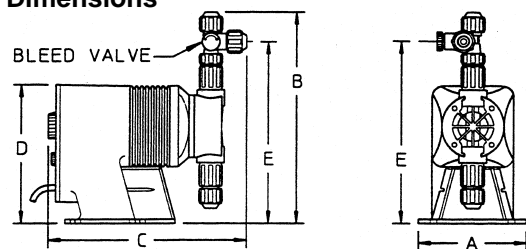
Capacity, nominal	GPD	6	12	22	30
	GPH	0.25	0.50	0.91	1.25
	LPH	0.95	1.89	3.47	5.04
Pressure, max PSIG/Bar					
150/10		LQ02	LQ03	—	—
100/7				LQ04	LQ64

## Liquid End Materials

Series	Pump Head	Diaphragm	Check Valves		Fittings	Bleed Valve	Injection Valve Assembly Foot Valve Assembly	Tubing
			Seats/O-Rings	Balls				
Series CL	GFPPL PVC SAN PVDF	Teflon-faced Hypalon-backed	Teflon, Hypalon, Viton	Ceramic, Teflon	GFPPL PVC PVDF	Same as fitting and check valve selected, except 316SS	Same as fitting and check valve selected	Clear PVC White PE

**Important:** Material Code— GFPPL = Glass-filled Polypropylene, PVC = Polyvinyl Chloride, SAN = Styrene-Acrylonitrile, PE = Polyethylene, PVDF = Polyvinylidene Fluoride. Teflon, Hypalon and Viton are registered trademarks of E.I. DuPont Company. PVC wetted end recommended for sodium hypochlorite.

## Dimensions



Series WT Dimensions (inches)						
Model No.	A	B	C	D	E	Shipping Weight (lbs.)
LQ02	5.0	9.6	9.5	6.5	8.2	13
LQ03	5.0	9.9	9.5	6.5	8.5	13
LQ04	5.0	9.9	9.5	6.5	8.5	13
LQ64	5.0	9.9	9.5	6.5	8.5	13

Note: Inches x 2.54 = cm

## KOPkit®

Available for every model, the KOPkit provides an economically priced package of parts required for routine maintenance. The kit typically contains new valve cartridges with o-rings, head, diaphragm, secondary o-ring seal, head screws and washers.

For further KOPkit information, refer to Technical Sheet No. EMP-002.



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## Standard Product Operations

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