

DESCRIPTION

RAINBOW PER is a centralised chemical dosing system designed for laundry applications. The system is suitable to serve up to 10 washing machines (depending on their capacity) for a maximum total load (all machines) of 400/500 Kg (900/1100 lbs).

The main unit includes 4/6/8 peristaltic pumps, with the possibility to add an auxiliary 2/4 pumps unit.

For enhanced accuracy, RAINBOW PER has a built-in flow meter sensor.

Like the other products of the Wash Series, RAINBOW PER allows the remote management of the dosing system and any possible problem and provides useful information through the INJECTAREMOTE portal.



FEATURES

- Modular system configurable for up to 10 washing machines, with 16 chemicals
- The system is provided with a gear flowmeter to assure the right dosing accuracy also if using high viscous chemicals
- All the manifold parts, pump squeeze tubes and sealings are highly compatible with any chemical product.
- Like all the products of the Wash Series, the system has a web server interface WiFi-accessible through any device like smartphone, tablet or laptop
- Temperature monitoring for washed linen disinfection certification

TECHNICAL SPECIFICATIONS

H Series Peristaltic Pumps · Three rollers, self-priming, self-checking	
Squeeze Tubing	Pharmed
Nominal Flowrate	1666 ml/min (56.3 oz./min) with standard tubing 9.6x15.9 mm (0.25") with water @ 20°
Maximum Suction Tube Length	The max length of the suction tube is 5 meters (16 feet). Long tube runs in combination with viscous products shorten pump tube life. It is recommended to keep pick-up lines short as possible and stay within the specification.
Duty Cycle	60% with the maximum continuous run time of 10 minutes

Electrical specifications	
CE Compliant	100-240 VAC 50/60 Hz, 2 Amp. Transient voltages typically present at mains supply. Mains supply fluctuations not to exceed $\pm 10\%$
Fuse	6.3A T 250V (internal, replaceable)
Water Valve Output	30 VDC, 0.5 Amps
Pump Drive Outputs	30 VDC, 1 Amp normal, 2 Amps max
Distributor valve	30 VDC
Power Switch	On/off rocker switch main console

Environmental specifications (all system modules)	
Altitude	Maximum operating altitude 2000 meters (6500 feet)
Internal Ambient Temperature Range	5-40°C (41-104°F) For indoor use only
Humidity	Maximum relative humidity 80% at up to 30°C (86°F) decreasing linearly to 50% relative humidity at 40°C (104°F)
Pollution Degree	2
Installation Category	II

Water supply specifications	
Recommended flow rate	Min: 2 L/min, Max: 10 L/min
Pressure	Min: 1 Bar, Max: 4 Bar (dynamic)
Temperature	10-40°C (50 - 104°F)
Connection	BSP 3/4" female (GHT US version)

STANDARD SYSTEM CONFIGURATIONS

Available RAINBOW PER standard systems with back panel

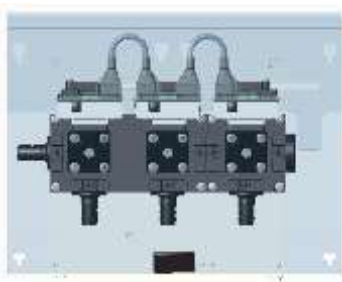
Main unit (4-Pumps System)	
Dimensions (W x H x D cm)	90 x 66.5 x 21.1 cm (35.4 x 27.8 x 9.3 in)
Weight	25.30 kg (56 lbs)

Main unit (6-Pumps System)	
Dimensions (W x H x D cm)	90 x 66.5 x 21.1 cm (35.4 x 27.8 x 9.3 in)
Weight	33.90 kg (74 lbs)

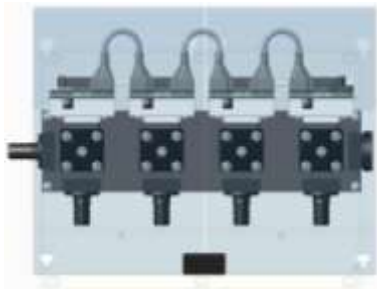
Main unit (8-Pumps System)	
Dimensions (W x H x D cm)	110 x 66.5 x 21.1 cm (43.3 x 27.8 x 9.3 in)
Weight	39.90 kg (88 lbs)

Distributors (standard module)	
Power	30 VDC, supplied by CANbus cable
Outlet	4-5-6 machine valves. (Option to add further machine valves for feeding up to 10 machines max)
IP rating	IP40
Max length tubing	The maximum tubing distances between the pump unit and the machine is 60 m. This distance also includes the passage for the distributor.

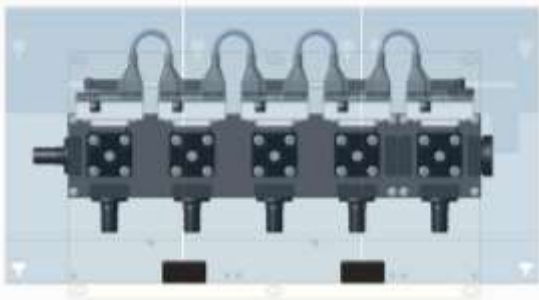
Each of the above standard systems can be configured with a distributor with up to 6 pneumatic valves and in combination up to 10. Below you can find the standard distributors available with a RAINBOW AIR standard system:



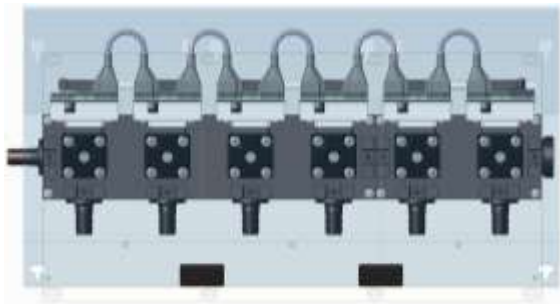
a. Three valve distributor



b. Four valve distributor



c. Five valve distributor



d. Six valve distributor