> WHEATON® ROLLER APPARATUS





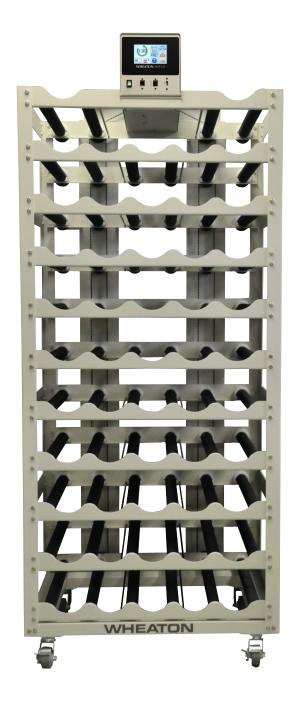
WHEATON[®]

R2P™ 2.0 Roller Apparatus

WHEATON has a long history of designing, building and supporting cultivation equipment. The R2P 2.0 and the WHEATON Standard Roller are the next logical steps. We have updated and enhanced our process control systems for our production scale roller apparatus. We understand the importance of our culture systems to the vaccine and biologics industries; therefore, customer input was a key driver governing the upgrades. The systems utilize current technology to facilitate implementation into new production installations with networked equipment. The systems also maintain backwards compatibility for existing operations. All of these improvements will enable better control and monitoring for research or pilot roller culture installations.

The R2P 2.0 Roller Apparatus features:

- A color touch screen or digital display
- An icon driven interface with intuitive menus.
- Surface mount gold plated electrical connections for better reliability in high temperature environments
- Updated industry standard networking communications protocols and connections
- Lower power consumption for longer battery run time and a safer design
- Backwards compatibility for continuing support of existing installations
- Retrofit kits available to update older WHEATON systems or unsupported systems
- Maintenance-free brushless DC motor for years of trouble-free operation



R2PTM

2.0

WHEATON°

R2P™ 2.0 Roller Apparatus



Available in Top or Bottom Mounted Control

- Robust touch screen interface that is easy to view from a distance
- Readily recognized icons for intuitive navigation
- Digitally controlled maintenance free motor accurate to 0.01 RPM
- Capable of remote control and monitoring through SCADA systems
- Multiple decking and capacity configurations available for process flexibility
- **USB Downloadable** System Event Log

Specifications Bottle Speed (110mm Diameter Bottle, other speeds available): ... 0.25-8.1 RPM Belt Driven Drive: Motor Type: Brushless DC Rotation Direction:Clockwise, Counter-Clockwise and Rocking Relt Break Alarm: Options:.....Temperature Monitoring and Battery Backup Remote Communication:.... Modbus® Protocol and WHEATON Protocol via Ethernet TCP/IP and RS422/485 Operating Temperature: 10 to 40°C Electrical:....100-240 VAC, 50/60 Hz, 35W



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WHEATON R2P 2.0

Profile



Main Screen



Bottle Speed



Temperature Alarm

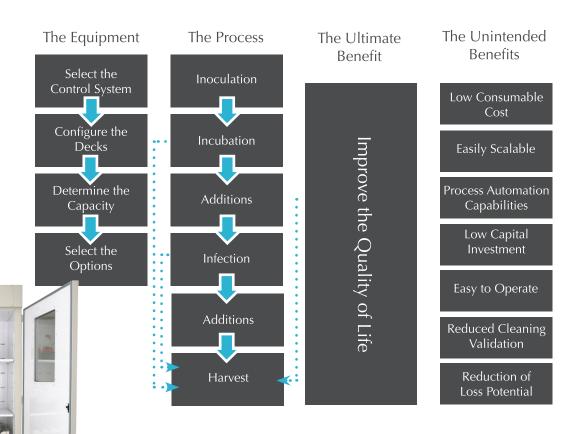


Factory Setup

Extremely Intuitive

The R2P 2.0 touch screen was designed for use directly out of the box. There are four types of screens for system navigation. The **Main Screen** displays all of the most important process conditions including bottle speed, bottle direction, alarms, unit identification number, power status, and the network status. From the main screen the user can access the general **Setup Screen**.

The user can configure system parameters that are frequently accessed from the Setup Screen including speed ramp time and the event log. All parameters are changed in Configuration Screens that feature large numeric keypads and intuitive operation. The Setup Screen also allows access to the Factory Screen for system parameters that are established during factory assembly and testing. All screens can access an onboard user guide that details the function of each icon. Don't worry we will still include the user manual; you just may never need it.



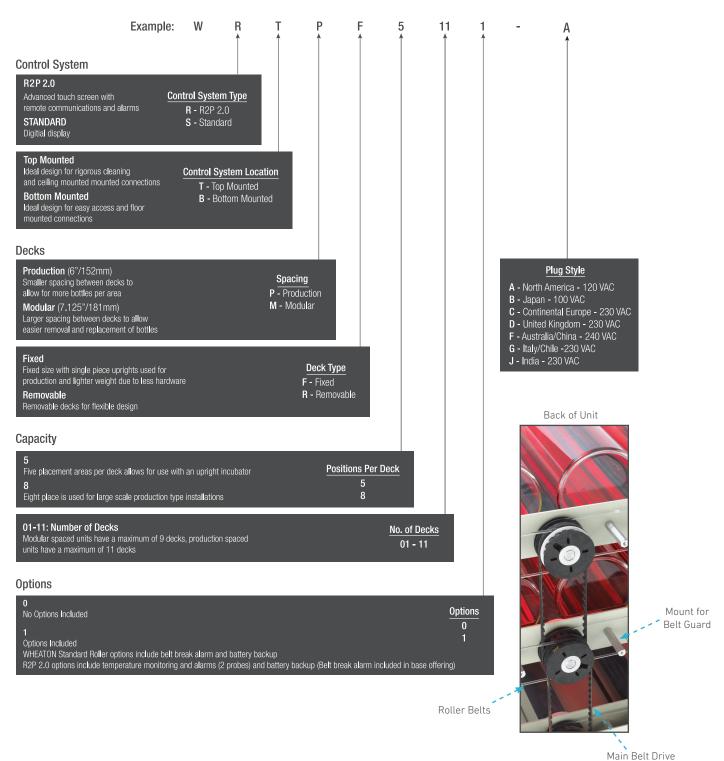
*Incubators sold separately. Temperature and ${\rm CO_2}$ models available.

Part Numbers and Sizing Information for Most Popular Systems								
Part Number	# Positions	# Decks	Width (in / cm)	Depth (in / cm)	Height (in / cm)	Weight (lb / kg)	# of Bottle Positions	Control System
Bottom Drive Pro	oduction Spacing	I						
WRBPR5010-A	5	1	31 / 79	25 / 63	14 / 35	52 / 24	5	R2P 2.0
WRBPR5030-A	5	3	31 / 79	25 / 63	26 / 65	85 / 39	15	R2P 2.0
WRBPF5110-A	5	11	31 / 79	25 / 63	74 / 187	217 / 99	55	R2P 2.0
WRBPF8110-A	8	11	47 / 120	25 / 63	74 / 187	360 / 167	88	R2P 2.0
Bottom Drive Mo	dular Spacing							
WRBMR5010-A	5	1	31 / 79	25 / 63	14 /34	70 / 32	5	R2P 2.0
WSBMR5010-A	5	1	31 / 79	25 / 63	14 /34	70 / 32	5	Standard
WRBMR5030-A	5	3	31 / 79	25 / 63	29 / 74	112 / 51	15	R2P 2.0
WSBMR5030-A	5	3	31 / 79	25 / 63	29 / 74	112 / 51	15	Standard
WRBMR5070-A	5	7	31 / 79	25 / 63	57 / 145	196 / 89	35	R2P 2.0
WSBMR5070-A	5	7	31 / 79	25 / 63	57 / 145	196 / 89	35	Standard
WRBMR5090-A	5	9	31 / 79	25 / 63	71 / 179	238 / 108	45	R2P 2.0
WSBMR5090-A	5	9	31 / 79	25 / 63	71 / 179	238 / 108	45	Standard
Top Drive Produc	ction Spacing							
WRTPF5110-A	5	11	31 / 79	25 / 63	75 / 190	250 / 113	52	R2P 2.0
WSTPF5110-A	5	11	31 / 79	25 / 63	75 / 190	250 / 113	52	Standard
WRTPF8110-A	8	11	47 / 120	25 / 63	75 / 190	350 / 159	86	R2P 2.0
WSTPF8110-A	8	11	47 / 120	25 / 63	75 / 190	350 / 159	86	Standard

Configuration Matrix for Easy Ordering

Ordering Information

WHEATON specializes in standard and customized roller apparatus units. The part numbering system below allows for the configuration of a standard system. The main components that make up a unit include the control system, the size and type of roller bottle decks and system options. There is also a table listing the most commonly manufactured roller apparatus. If you have any questions about custom bottle sizes, rotation speeds or standard systems, please contact your WHEATON Representative.



WHEATON® Standard Roller Apparatus

Product Specifications

Standard Roller





- Smooth ramping digitally controlled rotation accurate to 0.01 RPM
- Maintenance free precision brushless motor
- Bright digital display for easy operation
- Multiple decking and capacity configurations available for process flexibility

Specifi	cations
Capacity:	5-88 Positions
Bottle Speed (110mm Diameter Bottle,	other speeds available):0.25-8.1 RPM
Bottle Diameter:	108-121mm
Bottle Length:	Up to 550mm
Accuracy:	0.01 RPM
Drive:	Belt Driven
Motor Type:	
Rotation Direction:	Clockwise and Counter-Clockwise
Options:	Belt Break Alarm and Battery Backup
Remote Communication:	
Humidity:	80% up to 31°C
Operating Temperature:	10 to 40°C
Electrical:	100-240 VAC, 50/60 Hz, 35W

Roller Options Information

Belt Break Alarm

The **Belt Break Alarm employs two magnetic sensors** to ensure that all main pulleys are rotating on the unit. This is included on all R2P 2.0 Roller Apparatus.

Battery Backup

The **Battery Backup protects cells during transport,** processing and power outages. The unit automatically and seamlessly switches over to battery power to provide rotation for 8-18 hours. Bottom mounted control systems house larger, longer lasting batteries.

Temperature Monitoring/Alarm Option

This option **includes two precision temperature probes** for real time temperature monitoring and deviation alarms. The temperature is displayed in the temperature calibration screen or on the screen saver for quick confirmation of optimal operating conditions.

Cat. No.	Description
W348890V2	WHEATON Standard Roller Top Drive System Options with
	Belt Break Alarm and Battery Backup
W348891V2	WHEATON Standard Roller Bottom Drive System Options
	with Belt Break Alarm and Battery Backup
W348892V2	R2P 2.0 Roller Top Drive System Options with Battery
	Backup and Temperature Sensors
	(Belt Break Alarm is already included with unit)
W348893V2	R2P 2.0 Roller Bottom Drive System Options with Battery
	Backup and Temperature Sensors
	(Belt Break Alarm is already included with unit)
W348887	Deck Installation Kit for Modular (7.125") Spaced System
	(Units have a maximum capacity of 9 decks)
W348889	Deck Installation Kit for Production (6") Spaced System
	(Units have a maximum capacity of 11 decks)



Deck Kit



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