WHEATON® ROLLER APPARATUS





WHEATON® R2P[®] 2.0 Roller Apparatus

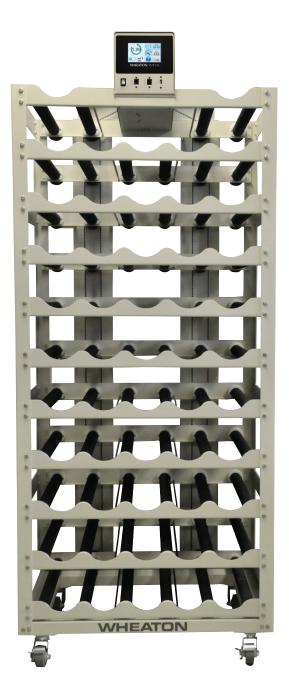
WHEATON Roller Bottle Culture Apparatuses have long since been appreciated for their excellent performance in laboratory, pilot plant and production cell culture installations. They have been designed with customer input in mind in order to meet even the highest expectations of the vaccine and biologics industries.

We understand that control, monitoring and documentation are vital for every cell culture application. Therefore, our state-of-the-art roller systems have been built to support industry standard networking communication protocols to facilitate integration into new production facilities. Moreover, they feature a USB Downloadable System Event Log for precise process documentation. The unique color touch screen with icon driven interface enables intuitive operation of our R2P 2.0 system and is easy to view from a distance.

Looking for something special? Check out the Roller Apparatus Configuration Matrix and Roller Options Information to learn more about customerspecific solutions or contact your DWK Life Sciences Representative for more information.

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



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

Capacity:	
Bottle Speed (110mm Diameter Bottle, other speeds available): 0.25-8.1 RPM	
Accuracy:0.01 RPM	
Drive: Belt Driven	
Motor Type:Brushless DC	
Rotation Direction:Clockwise, Counter-Clockwise and Rocking	
Belt Break Alarm:Included	
Options:	
Remote Communication:Yes,	
Modbus® Protocol and WHEATON Protocol via Ethernet TCP/IP and RS422/485	
Humidity:	
Operating Temperature:	
Electrical:	



Profile



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Main Screen



Bottle Speed





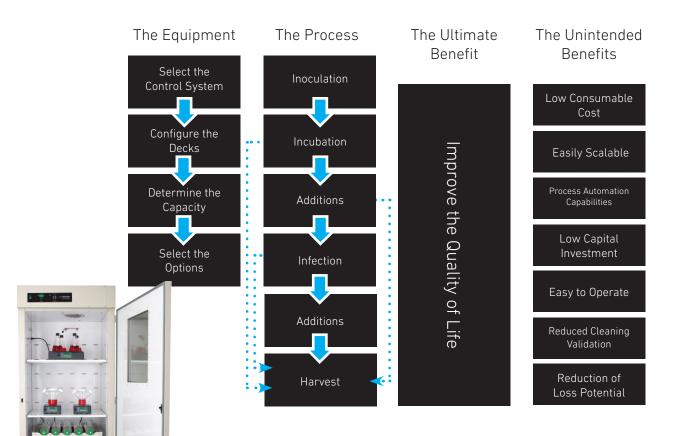


Factory Setup

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.



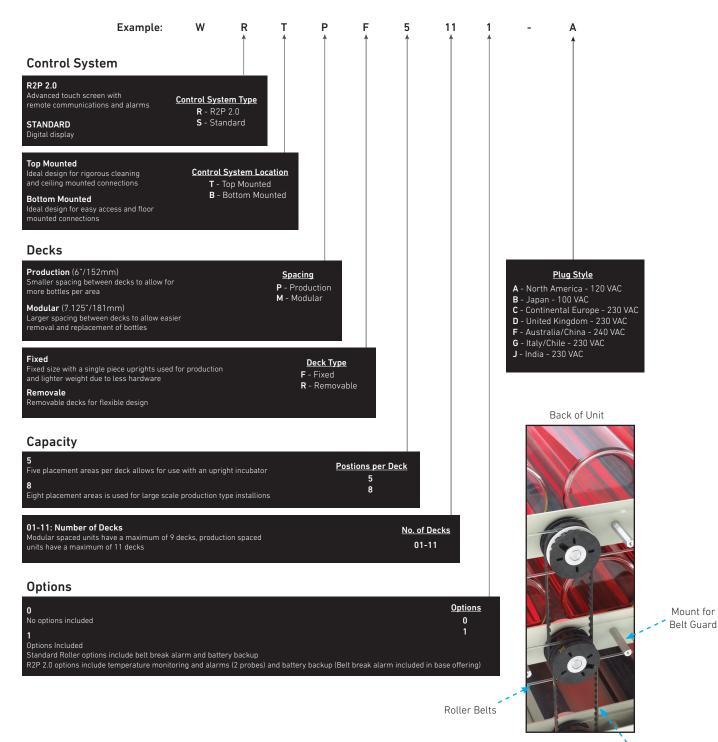
*Incubators sold separately. Temperature and CO_2 models available.

	Part Numbe	rs and Si	zing Infor	rmation fo	or Most P	opular Sy	ystems	
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	g						
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	tion 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

DWK Life Sciences 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 DWK Life Sciences Representative.



Main Belt Drive

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

Specifications

Capacity:	
Bottle Speed (110mm Diameter Bottle,	other speeds available): 0.25-8.1 RPM
Bottle Diameter:	
	Up to 550mm
Accuracy:	
	Belt Driven
Motor Type:	Brushless DC
Rotation Direction:	Clockwise and Counter-Clockwise
Options:	Belt Break Alarm and Battery Backup
Remote Communication:	Dry Contact Relay Alarm
Humidity:	80% up to 31°C
Operating Temperature:	
Electrical:	
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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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