

WHEATON Standard Roller



Refer to page 189-190 for plug styles.

- Smooth ramping digitally controlled rotation accurate to 0.1 RPM
- Maintenance free precision brushless motor
- Bright LCD display for easy operation
- Multiple decking and capacity configurations available for process flexibility

Specifications

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: 0.1 RPM
 Drive: Belt Driven
 Motor Type: Brushless DC
 Rotation Direction: Clockwise and Counter-Clockwise
 Options: Rotation Alarm and Battery Backup
 Remote Communication: Dry Contact Relay
 Humidity: 80% up to 31°C
 Operating Temperature: 10 to 40°C
 Electrical: 100-240 VAC, 50/60 Hz, 35W

Roller Options Information

Rotation Alarm (Included with R2P 2.0) - The rotation 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 12 – 24 hours. Bottom mounted control systems house larger, longer lasting batteries.

Temperature Monitoring / Alarm Option (R2P 2.0 Only) - This option includes two precision temperature probes for real time temperature monitoring and deviation alarms. The temperature is displayed on the touch screen, screen saver for quick confirmation of optimal operating conditions.

WHEATON Field Installation Options Packages

Cat. No.	System
W348890V2	Wheaton Standard Roller Top Drive System Options with Rotation Alarm and Battery Backup
W348891V2	Wheaton Standard Roller Bottom Drive System Options with Rotation Alarm and Battery Backup
W348892V2	R2P 2.0 Roller Top Drive System Options with Battery Backup and Temperature Sensors (Rotation Alarm is already included with unit)
W348893V2	R2P 2.0 Roller Bottom Drive System Options with Battery Backup and Temperature Sensors (Rotation Alarm is already included with unit)

WHEATON R2P™ 2.0 Roller Apparatus



Top Mount Available



NEW touch screen functionality



- 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 interface and monitoring through SCADA systems
- Multiple decking and capacity configurations available for process flexibility

Specifications

Capacity: 5-88 Positions
 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
 Rotation Alarm: Included
 Options: Temperature Monitoring and Battery Backup
 Remote Communication: Yes, Modbus® Protocol and WHEATON Protocol via Ethernet and RS422
 Humidity: 80% up to 31°C
 Operating Temperature: 10 to 40°C
 Electrical: 100-240 VAC, 50/60 Hz, 35W

Deck Kit



Deck Kit For Modular Spaced Systems - The deck kit is designed for modular systems with removable decks. These are kits designed for customer installation.

Deck Kit For Production Spaced Systems - The deck kit is designed for production systems with removable decks. These are kits designed for customer installation.

Cat. No.	Description	Qty / Case
W348887	5 position deck, 7 1/8" Deck Spacing	1
W348889	5 position deck, 6" Deck Spacing	1

Please contact your WHEATON representative for information regarding retrofits, modifications, custom systems and deck kits for existing systems.



Main Screen



Bottle Speed



Factory Setup



Profile



Temperature Alarm

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 below listing the most commonly used roller apparatus. If you have any questions about custom bottle sizes, rotation speeds or standard systems do not hesitate to contact your WHEATON representative.

Example: W R T P F 5 11 1 - A

Control System

R2P 2.0
Advanced touch screen with remote communications and alarms

STANDARD
Digital display

Control System Type
R - R2P 2.0
S - Standard

Top Mounted
Ideal design for rigorous cleaning and ceiling mounted connections

Bottom Mounted
Ideal design for easy access and floor mounted connections

Control System Location
T - Top Mounted
B - Bottom Mounted

Decks

Production (6"/152mm)
Smaller spacing between decks to allow for more bottles per area

Modular (7,125"/181mm)
Larger spacing between decks to allow easier removal and replacement of bottles

Spacing
P - Production
M - Modular

Fixed
Fixed size with single piece uprights used for production and lighter weight due to less hardware

Removable
Removable decks for flexible design

Deck Type
F - Fixed
R - Removable

Capacity

5
Five placement areas per deck allows for use with an upright incubator

8
Eight place is used for large scale production type installations

Positions Per Deck
5
8

01-11: Number of Decks
Modular spaced units have a maximum of 9 decks, production spaced units have a maximum of 11 decks

No. of Decks
01 - 11

Options


0
No Options Included

1
Options Included
WHEATON Standard Roller options include belt break alarm and battery backup
R2P 2.0 options include temperature monitoring and alarms (2 probes) and battery backup (Belt break alarm included in base offering)

Options
0
1

Plug Style

A - North America - 120 VAC
B - Japan - 100 VAC
C - Continental Europe - 230 VAC
D - United Kingdom - 230 VAC
F - Australia/China - 240 VAC
G - Italy/Chile - 230 VAC
J - India - 230 VAC



Refer to page 58 for Roll-In Incubators.

Part Numbers and Sizing Information for Most Common Systems

Part Number	# Positions	# Decks	Width (in / cm)	Depth (in / cm)	Height (in / cm)	Weight (lb / kg)	# of Bottle Positions	Control System
Bottom Drive Production Spacing								
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 Modular Spacing								
WRBMR5010-A	5	1	30 / 76	25 / 63	14 / 34	70 / 32	5	R2P 2.0
WSBMR5010-A	5	1	30 / 76	25 / 63	14 / 34	70 / 32	5	Standard
WRBMR5030-A	5	3	30 / 76	25 / 63	29 / 74	112 / 51	15	R2P 2.0
WSBMR5030-A	5	3	30 / 76	25 / 63	29 / 74	112 / 51	15	Standard
WRBMR5070-A	5	7	30 / 76	25 / 63	57 / 145	196 / 89	35	R2P 2.0
WSBMR5070-A	5	7	30 / 76	25 / 63	57 / 145	196 / 89	35	Standard
WRBMR5090-A	5	9	30 / 76	25 / 63	71 / 179	238 / 108	45	R2P 2.0
WSBMR5090-A	5	9	30 / 76	25 / 63	71 / 179	238 / 108	45	Standard
Top Drive Production 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	85	R2P 2.0
WSTPF8110-A	8	11	47 / 120	25 / 63	75 / 190	350 / 159	85	Standard



Roller Bottles

- Specifically designed for adherent cell roller culture
- Withstands repeated wet or dry sterilization cycles
- Borosilicate glass conforms to USP Type I and ASTM E 438 Type I, Class A requirements
- Available with different cap configurations



Cat. No.	Dia x Flat Overall Length (mm)	Usable Surface Area (cm ²)	Surface (cm ²)	Approx Capacity (mL)	Qty / Case
Roller bottle with 38mm deep skirted, black phenolic screw cap with white styrene-butadiene rubber liner (GPI 38-415)					
348252	110 x 240	550	680	1380	4
348253	110 x 285	700	840	1760	4
348256	110 x 480	1320	1500	3450	4
348258	110 x 550	1555	1680	4230	4

Roller bottle with 45mm white polypropylene screw cap with inner sealing ring and polypropylene pour ring. This bottle can also be used with the WHEATON Vented Cap (Cat. No. W240751)

348272	110 x 240	550	680	1380	4
348273	110 x 285	700	840	1760	4

Roller bottle with 51mm black phenolic screw cap with shallow skirt and white styrene-butadiene rubber liner (GPI 51-400)

348522	110 x 270	700	840	1760	4
348524	110 x 355	940	1070	2500	4
348528	110 x 535	1555	1680	4230	4

Power Homogenizer and Overhead Stirrer

- Dual purpose unit for use with tissue grinders or impellers
- Adjustable speed ranging from 300 – 5000 RPM under load
- Adjustable connector accepts stainless steel shafts up to 0.3125" (7.9mm) in diameter
- Aluminum rod and clamp included for unit mounting
- Electrical Requirements: 120 VAC, 50/60 Hz, 50 watts
- Dimensions: 4.5" x 5" x 12" (11.5 x 13 x 30cm)
- Weight: 6lbs (2.7kg)



Cat. No.	Description	Qty/Case
903475	Complete Unit	1

Accessories

Cat. No.	Description	Qty/Case
905275	Swivel Blade Paddle for Stirring Liquids in Vessels with Side Entry Port or for Vessels with Narrow Openings. Shaft 0.25" x 12" (6.3 x 305mm) Blade Measures 0.5" x 2" (12.7 x 50.8mm). Stainless Steel	1
905462	Extension Rod, 0.25" x 6" (6.3 x 153mm) For Use with Extension Sleeve for Lengthening Paddles. Stainless Steel	1
905465	Extension Rod, 0.25" x 12" (6.3 x 305mm) For Use with Extension Sleeve for Lengthening Paddles. Stainless Steel	1
905475	Extension Sleeve for 0.25" (6.3mm) Diameter Rods, with Set Screws For Use in Lengthening Paddles. Stainless Steel	1

Standard Incubator



- Compatible with:
 - Production-spaced R2P 2.0 and Standard rollers with up to 11 decks
 - Modular-spaced R2P 2.0 and Standard rollers with up to 9 decks
- User configurable shelving system and roller apparatus guide tracks (shelves sold separately)
- Power outlets for magnetic stirrers or orbital shakers
- Designed for temperature uniformity
- Viewing window with an option for dual windows

Specifications

Capacity:40 Cubic ft
 Interior Dimensions: W x D x H 35 x 26 x 76" (89 x 66 x 193cm)
 Exterior Dimensions: W x D x H 41 x 34 x 87" (104 x 86 x 221cm)
 Control: Microprocessor Controlled $\pm 0.1^{\circ}\text{C}$
 Temperature Range: 8°C Above Ambient to 70°C
 Temperature Uniformity: Forced Air Circulation $\pm 0.5^{\circ}\text{C}$ at 37°C
 Electrical: 100-240 VAC, 50/60 Hz, 12A-8A
 Shelving: 20 Maximum
 Interior Electrical Outlet: 4
 Net Weight: 730lb (331kg)
 Shipping Weight: 850lb (386kg)

Cat. No.	Plug Style	Voltage	Qty
753680	North America	120 VAC	1
W753680-B	Japan	100 VAC	1
W753684-C-E	Continental Europe	230 VAC	1
W753684-D-E	United Kingdom	230 VAC	1
W753684-F-E	Australia / China	230 VAC	1
W753684-G-E	Italy / Chile	230 VAC	1
W753684-J-E	India	230 VAC	1

Refer to page 189-209 for plug styles.

Incubator Shelves (Not Supplied with Incubators)

Cat. No.	Description	Qty
753685	Painted Shelf for Standard	1
WI056028	Stainless Steel Shelf for CO ₂	1

CO₂ Incubator



- Compatible with:
 - Production-spaced R2P 2.0 and Standard rollers with up to 11 decks
 - Modular-spaced R2P 2.0 and Standard rollers with up to 9 decks
- Infared sensor technology to maintain 0 to 20% CO₂ concentration
- Stainless steel interior
- User configurable shelving system and roller apparatus guide tracks (shelves sold separately)
- Power outlets for magnetic stirrers or orbital shakers
- Designed for temperature uniformity
- Viewing window with an option for dual windows)

Specifications

Capacity: 40 Cubic ft
 Interior Dimensions: W x D x H 35 x 26 x 76.5" (89 x 66 x 194cm)
 Exterior Dimensions: W x D x H 41 x 34 x 89.1" (104 x 86 x 226.3cm)
 Control: Microprocessor Controlled $\pm 0.1^{\circ}\text{C}$
 Temperature Range: 8°C Above Ambient to 70°C
 Temperature Uniformity: Forced Air Circulation $\pm 0.5^{\circ}\text{C}$ at 37°C
 Electrical: 100-240 VAC, 50/60 Hz, 15A-10A
 CO₂ Range: 0-20%
 CO₂ Sensor: IR
 CO₂ Rate: <5min (Recovery)
 CO₂ Connection: 1/4" (6.35mm) Hose Barb
 CO₂ Inlet pressure: 5-40 psi (0.345-2.76 bars)
 Jacket Type: Air
 Shelving: 30 Maximum
 Interior Electrical Outlet: 4
 Net Weight: 730lb (331kg)
 Shipping Weight: 850lb (386kg)

Cat. No.	Plug Style	Voltage	Qty
WI057607	North America	120 VAC	1
WI057607-C-E	Continental Europe	230 VAC	1
WI057607-D-E	United Kingdom	230 VAC	1
WI057607-F-E	Australia / China	230 VAC	1
WI057607-J-E	India	230 VAC	1

Refer to page 189-190 for plug styles.



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