



Cell Handling



Model	Galaxy® 48 R
Positioning	Mid size (48 L) CO ₂ incubator for isolation applications (also hypoxic) and small labs
Page(s)	324
Capacity	48 L
Dimensions (W x D x H)	48.3 x 47.5 x 64.5 cm
Dimensions internal (W x D x H)	40.1 x 30.5 x 40.1 cm
Weight w/o accessories	31.8 kg
Benchtop (B), Under Bench (U), Floor (F) or Stackable (S)	B, U, F, S (x2)
Display	standard display
High temperature disinfection (HTD)	120 °C optional
Sealed inner glass doors	–
Segmented doors	2 segments
Temperature range	Ambient +4 °C to 50 °C
Temperature control increment	±0.1 °C
Temperature stability at 37 °C	±0.1 °C
Temperature uniformity	±0.3 °C
CO ₂ range	0.1 – 20 %
CO ₂ control increment	±0.1 %
CO ₂ stability at 5 % CO ₂	±0.2 %
CO ₂ uniformity	±0.1 %
O ₂ control	0.1 – 19 % or 1 – 19 % optional
Number of shelves (standard/max)	3/6
Copper options	–
Access port	1
On-board data logging	standard
Data export interface	RS-232, VisioNize® box
Water/Humidity monitoring	optional
BMS relay	standard
Remote Device Monitoring and Notifications (VisioNize®)	VisioNize-qualified

Model	CellXpert® C170i
Positioning	Large (170 L) CO ₂ incubator with advanced interface, easy monitoring/documentation/cleaning etc.
Page(s)	326
Capacity	170 L
Dimensions (W x D x H)	71.8 x 71.5 x 90.0 cm
Dimensions internal (W x D x H)	53.9 x 44.5 x 69.2 cm
Weight w/o accessories	113 kg
Benchtop (B), Under Bench (U), Floor (F) or Stackable (S)	B, U, F, S (x2)
Display	VisioNize® touch interface
High temperature disinfection (HTD)	180 °C standard
Sealed inner glass doors	standard
Segmented doors	4/8 segments
Temperature range	Ambient +4 °C to 50 °C
Temperature control increment	±0.1 °C
Temperature stability at 37 °C	±0.1 °C
Temperature uniformity	±0.3 °C
CO ₂ range	0.1 – 20 %
CO ₂ control increment	±0.1 %
CO ₂ stability at 5 % CO ₂	±0.1 %
CO ₂ uniformity	±0.1 %
O ₂ control	1 – 20 %
Number of shelves (standard/max)	4/8
Copper options	chamber, water tray, shelves
Access port	2
On-board data logging	standard
Data export interface	USB, Ethernet, VisioNize® onboard
Water/Humidity monitoring	optional (available beginning of 2020)
BMS relay	standard
Remote Device Monitoring and Notifications (VisioNize®)	VisioNize-onboard

Model	CellXpert® C170
Positioning	Basic version of the C170i
Page(s)	328
Capacity	170 L
Dimensions (W x D x H)	71.8 x 71.5 x 90.0 cm
Dimensions internal (W x D x H)	53.9 x 44.5 x 69.2 cm
Weight w/o accessories	105 kg
Benchtop (B), Under Bench (U), Floor (F) or Stackable (S)	B, U, F, S (x2)
Display	standard display
High temperature disinfection (HTD)	140 °C standard
Sealed inner glass doors	standard
Segmented doors	1
Temperature range	Ambient +4 °C to 50 °C
Temperature control increment	±0.1 °C
Temperature stability at 37 °C	±0.1 °C
Temperature uniformity	±0.3 °C
CO ₂ range	0.1 – 20 %
CO ₂ control increment	±0.1 %
CO ₂ stability at 5 % CO ₂	±0.1 %
CO ₂ uniformity	±0.1 %
O ₂ control	–
Number of shelves (standard/max)	3/8
Copper options	water tray, shelves
Access port	2
On-board data logging	–
Data export interface	Ethernet, VisioNize® box
Water/Humidity monitoring	–
BMS relay	standard
Remote Device Monitoring and Notifications (VisioNize®)	VisioNize-qualified

Model	New Brunswick™ S41i
Positioning	Large (170 L) CO ₂ incubator with integrated shaker inside
Page(s)	331
Capacity	170 L
Dimensions (W x D x H)	87.5 x 73 x 85 cm / 34.4 x 28.7 x 33.5 in
Dimensions internal (W x D x H)	69.1 x 44.4 x 53.8 cm
Weight w/o accessories	152 kg
Benchtop (B), Under Bench (U), Floor (F) or Stackable (S)	U, F, S (x2)
Display	touchscreen
High temperature disinfection (HTD)	120 °C standard
Sealed inner glass doors	standard
Segmented doors	–
Temperature range	Ambient +4 °C to 50 °C
Temperature control increment	±0.1 °C
Temperature stability at 37 °C	±0.1 °C
Temperature uniformity	±0.25 °C at 37 °C
CO ₂ range	0.1 – 20 %
CO ₂ control increment	±0.1 %
CO ₂ stability at 5 % CO ₂	±0.2 %
CO ₂ uniformity	±0.1 %
O ₂ control	–
Number of shelves (standard/max)	1/2
Copper options	–
Access port	1
On-board data logging	standard
Data export interface	Ethernet, VisioNize® box
Water/Humidity monitoring	–
BMS relay	standard
Remote Device Monitoring and Notifications (VisioNize®)	VisioNize-qualified

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Product appearance and specifications are subject to change without notice.



On page 396 you will find detailed information on services for these products!



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Model	Innova® S44i	Innova® 44/44R	Innova® 43/43R
Page(s)	338	340	341
Temperature range	Incubated: 5 °C above ambient to 80 °C; Refrigerated: 20 °C below ambient (min. 4 °C) to 80 °C.	5 °C above ambient to 80 °C. (Innova 44R: 20 °C below ambient (min. 4 °C) to 80 °C) ¹⁾	5 °C above ambient to 80 °C. (Innova 43R: 20 °C below ambient (min. 4 °C) to 80 °C) ¹⁾
Temperature uniformity	±0.25 °C at 37 °C and 250 rpm	±0.25 °C at 37 °C	±0.25 °C at 37 °C
Speed range	2.5 cm orbit: 20 – 400 rpm, 5.1 cm orbit: 20 – 300 rpm	25 – 400 rpm with 2.5 cm orbit; 25 – 300 rpm with 5.1 cm orbit or 2 stacked units; 25 – 250 rpm with 3 stacked units	25 – 500 rpm with 2.5 cm orbit; 25 – 300 rpm with 5.1 cm orbit
Orbit	2.5/5.1 cm (1/2 in)	2.5/5.1 cm (1/2 in)	2.5/5.1 cm (1/2 in)
Benchtop (B), Under Bench (U), Floor (F) or Stackable (S)	F, S (x3)	F, S (x3)	F
Platform size	76 × 62 cm (30 × 24 in)	76 × 46 cm (30 × 18 in)	76 × 46 cm (30 × 18 in)
Slide-out platform	yes	yes	no
Drive mechanism	Eppendorf X-Drive with semi-automated counterbalance setting	Triple-eccentric counterbalanced drive	Triple-eccentric counterbalanced drive
Motor type	Solid state, DC brushless motor	Solid state, DC brushless motor	Solid state, DC brushless motor
Dimensions (W × D × H)	118.2 × 86.9 × 63 cm / 46.5 × 34.2 × 24.8 in	134.9 × 84.3 × 66 cm / 53.1 × 33.2 × 26 in	115.6 × 81.3 × 103.1 cm / 45.5 × 20 × 40.6 in
External height (with lid/door open)	115.8 cm (45.6 in) excluding base	113.9 cm (47 in) excluding base	165.1 cm (65 in)
External depth (with lid/door open)	–	–	–
Space-saving glide-up doors	yes	yes	no
Weight w/o accessories	198 kg / 437 lb	238 kg / 525 lb	209 kg / 445 lb
Audible and visual alarms	yes	yes	yes
Available program modes	> Constant speed and temperature > Time shaking mode up to 95:59 hours > Multi step programming/cycling – Parameters include shaking speed, temperature, time and (optional) photosynthetic light intensity	> Constant speed and temperature > Programmable multi-steps > RS-232 communication port	> Constant speed and temperature > Programmable multi-steps > RS-232 communication port
Steps per program	unlimited	15	15
Stored programs	unlimited	4	4
Timer	0.01 – 95.59 h, continuous	0.01 – 99.59 h, continuous	0.01 – 99.59 h, continuous
Memory	Non volatile with automatic power failure restart	Non volatile with automatic power failure restart	Non volatile with automatic power failure restart
cETLus and CE marked	yes	yes	yes
Remote Device Monitoring and Notifications (VisioNize®)	VisioNize-on-board	VisioNize-qualified	VisioNize-qualified

¹⁾ Configuration dependent



Innova® 42/42R	Innova® 40/40R	Excella® E25/E25R	Excella® E24/E24R
342	343	344	345
5 °C above ambient to 80 °C. (Innova 42R: 20 °C below ambient (min. 4 °C) to 80 °C) ¹⁾	5 °C above ambient to 80 °C. (Innova 40R: 15 °C below ambient (min. 4 °C) to 80 °C)	7 °C above ambient to 60 °C. (Excella 25R: 15 °C below ambient (min. 4 °C) to 60 °C)	7 °C above ambient to 60 °C. (Excella 24R: 15 °C below ambient to 60 °C)
±0.25 °C at 37 °C	±0.25 °C at 37 °C	±0.5 °C at 37 °C	±0.1 °C at 37 °C
25 – 400 rpm; 25 – 300 rpm when using flasks > 500 mL in stacked devices	25 – 500 rpm	50 – 400 rpm	50 – 400 rpm
1.9/2.5 cm (0.75/1 in)	1.9/2.5 cm (0.75/1 in)	2.5 cm (1 in)	1.9 cm (0.75 in)
B, U, S (x2)	B	F	B
46 × 46 cm (18 × 18 in)	46 × 46 cm (18 × 18 in)	76 × 46 cm (30 × 18 in)	46 × 46 cm (18 × 18 in)
no	no	no	no
Triple-eccentric counterbalanced drive	Triple-eccentric counterbalanced drive	Heavy-duty unicentric counterbalanced drive	Heavy-duty unicentric counterbalanced drive
Solid state, DC brushless motor	Solid state, DC brushless motor	Solid state, DC brushless motor	Solid state, DC brushless motor
63.5 × 74.5 × 881.8 cm / 25 × 29.3 × 32.8 in	55.9 × 76.2 × 61 cm / 22 × 30 × 24 in	127 × 77 × 105.9 cm / 50 × 30.5 × 41.7 in	56 × 76.2 × 61 cm / 22 × 30 × 24 in
–	101.6 cm (40 in)	165.7 cm (65.2 in)	101.6 cm (40 in)
131 cm (51.6 in)	–	–	–
no	no	no	no
98 kg / 217 lb	60 kg / 133 lb	204.5 kg / 450 lb	60 kg / 133 lb
yes	yes	yes	yes
> Constant speed and temperature > Programmable multi-steps > RS-232 communication port	> Constant speed and temperature > Programmable multi-steps > RS-232 communication port	> Constant speed and temperature > Timed shaking	> Constant speed and temperature > Timed shaking
15	15	–	–
4	4	–	–
0.01 – 99.59 h, continuous	0.01 – 99.59 h, continuous	0.1 – 99.9 h	0.1 – 99.9 h
Non volatile with automatic power failure restart	Non volatile with automatic power failure restart	Non volatile with automatic power failure restart	Non volatile with automatic power failure restart
yes	yes	yes	yes
VisioNize-qualified	VisioNize-qualified	–	–

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