

Bath Circulator



SPHERA GROUP s.r.o. info@sphera-group.cz Tel: +420 226 886 248 Průmyslová 7 Business Park 102 00 Praha, Czech Republic

General Application

Internal/external temperature control: Spectrophotometer, refractometer, polarimeter, viscometer, fermenter, electrophoresis equipment, column chromatography, rotary evaporator etc.

		Description	Temp. Range (°C/°F)	Max. Temp. Stability (°C/°F)	Volume (L / cu ft)	Model	Page
Refrigerated	Program	• 10 Programs & 10 Steps • Intuitive operation with color touch display	-25 ~ 150 /-13 ~ 302 (RW3-25P) -35 ~ 150 /-31 ~ 302 (RW3-35P)	±0.05 / 0.09 at -10 °C	5, 10, 20, 30 / 0.2, 0.4, 0.7, 1.1	RW3-P	22
K Heating	General	Clear VFD & simple operationApplies smart refrigeration system	-25 ~ 150 /-13 ~ 302 (RW3-25) -35 ~ 150 /-31 ~ 302 (RW3-35)	±0.05 / 0.09 at -10°C	5, 10, 20, 30 / 0.2, 0.4, 0.7, 1.1	RW3	24
Haatina	Program	• 10 Programs & 10 Steps • Intuitive operation with Color Touch display	Amb. +10 ~ 150 / Amb. +18 ~ 302	±0.05 / 0.09 at 50°C	5, 10, 20, 30 / 0.2, 0.4, 0.7, 1.1	CW3-P	26
Heating	General	Clear VFD & simple operationDetection and notification of temperature deviation	Amb. +10 ~ 150 / Amb. +18 ~ 302	±0.05 / 0.09 at 50°C	5, 10, 20, 30 /0.2, 0.4, 0.7, 1.1	CW3	26

^{**} The contents of the above and the contents of this catalog may differ depending on the specific model and conditions of use. For the information about the features and specifications that applying to each models, please check the information on the corresponding page of each models.



Satisfaction with the requirements of European regulations and guidelines.



Real-time equipment monitoring and control system using mobile app.



Registered safety patent based on JEIO TECH's proprietary technology.



Eco-friendly product that has passed environmental impact assessment tests.



Digital Input / Output for external device interlock control.



Intuitive operation with Color Touch display.



Warning alarm in case of deviation of temperature control.



Possible to set end time or start time of device operation.



Control of temperature / humidity / rpm / time, etc. through dedicated program.



PC communication via RS-232 / RS-485 / USB port.



More precise temperature control through 3-point temperature calibration.



Over temperature protection function.



Alarm if the water is low level.



It memorizes the state of power failure and operates automatically when power is restored.



2 year warranty Free A/S.

Bath Circulator



Innovative Control System & Design Application of specialized exclusive control system

> Selection of 2 control systems

Program Controller Type

- Program operation controller, 10 programs. (10 steps maximum)
- Intuitive operation with color touch display.

General Controller Type

- Controller for constant temperature value control. and temperature deviation notification.
 (deviation limit/alarm delay setting)
- Precise and stable control of set temperature.

> Sharper screen display

Program type is applied to color touch display, general type is applied to clear VFD.

> Provision of remote equipment monitoring service (option)

Real-time monitoring of equipment operation status using smartphone. (when purchased LC GreenBox)

> More stable temperature control (RW3/CW3)

- Depending on the type of fluid used in the bath, three different auto-tuning values (ΔT1-3) are saved.
- Auto-tuning is activated after 3 operating temperatures are inputted for each auto-tuning.

> Optimized temperature control

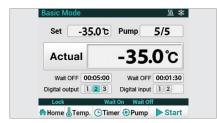
Auto-tuning function enables optimal control even when mainly used temperature or ambient conditions are frequently changed.

> 3-point temperature calibration function (RW3/CW3)

Temperature calibration of up to 3 points provides more reliable temperature control.

> Computer Interface (USB, RS-232)

Convenient remote control and data management on PC via built-in dedicated software.



Color Touch Display Controller.



Clear VFD Controller.



Provision of remote equipment monitoring service.



Provision of convenient and useful functions for actual use Applies Lab Companion's patented safety system

> Convenient timer function provided

Wait On/Wait Off is run after the set time elapses. (Max. 999 hours and 59 minutes)

> Smart cooling control system

According to the temperature, the flow of refrigerant is controlled.

The cooling speed from high temperature to room temperature is faster than previous product.

> Convenient solution discharge

Drain valve is included as standard, making it both easy and convenient to discharge the solution in the bath.

> Stable performance of circulation pump

Stable circulation pump with max. 0.4 bar pressure makes it easy to adjust pump speed in 5 steps.

> Top-grade protection system (Lab Companion's patent)

The safety device is configured to operate preferentially even if the malfunction is occurred in the device control unit.

> Shutdown function in case of over temperature

Safe structure with shutdown function using over temperature limiter in case of overheating.

> Solution level detection

Detects the level of solution in the bath and stops the device and notifying when the level is low.

> Prepared for unexpected power failure

Auto-run function capable of selecting reoperation when power is restored after sudden power failure.



Sophisticated refrigerant volume control system.



Removable freezing condenser grill structure.



Convenient solution discharge (CW3) with drain valve located on the front.

Refrigerated & Heating Bath Circulator Program type

Convenient program control function

Program Type

- Possible to set and save 10 programs.
- Up to 10 steps can be set in the one program.
- Set time up to 99 hours and 59 minutes per step.
- Includes useful scheduler management functions such as program operation range and repeat interval setting.
- Program repetition possible up to 99 times.
- Provides temperature ramp control in program operation.
- Digital Input / Output function makes it easy to connect external equipment.
- Intuitive operation with color touch display.



Structural Functional Features

- Internal circulation and internal/external circulation of solution.
- Built-in bath cover with handle.
- Internal bath with seamless integral structure. (except RW3-3025P, 3035P models)
- Stainless steel material inside and at the top of the bath is excellent in terms of corrosion resistance and clean maintenance.
- Drain valve for easy draining of bath solution.
- Easy-to-clean refrigerator condenser filter.
- Equipped with easy-to-move/install caster.
- 8 models provided according to temperature range, capacity, etc.
- 5-steps pump speed adjustment with simple operation.

Outstanding Safety

- Top-rated overheating protection system. (Registration KR 10-0397583)
- Over temperature limiting function. (Over Temperature Limiter)
- $\bullet \ \ \text{Prevention of mal-operation with controller lock function}.$
- · Check and alert of temperature sensor abnormality.
- If an error occurs during operation, the details of the error are displayed on the screen and an alarm is sounded.
- Safe structure in which the heater, sensor, and pump inside the bath are separated by covering plates.



RW3-0525P

with PPS (poly phenylene sulfide) Bath Cover (standard)

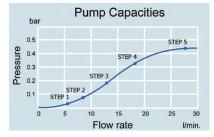
Use Convenience Features

- Temperature calibration of up to 3 points provides more reliable temperature control.
- Optimized control with auto-tuning.
- Wait On/Off timer. (up to 99 hours 59 minutes)
- Microprocessor PID method for precise temperature control.
- USB/RS-232 connection and software provide convenient computer operation and data management.
- Notification of low solution. (low level limiter)
- Automatic restart of operation when power is restored after power failure.
- Monitor via mobile app anytime, anywhere with LC Connected. (mobile monitoring system) (when purchased LC GreenBox)

Pump Capacity

Pump Step	1	2	3	4	5
Max. pressure (psi)	0.5	1.1	2.4	4.9	5.9
Max. flow rate (L/min)	5.6	8.0	12.8	18.8	28.0

※ Bath fluid : Water



















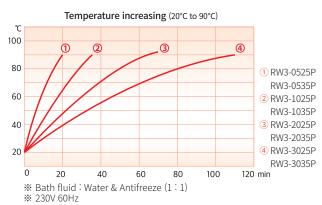


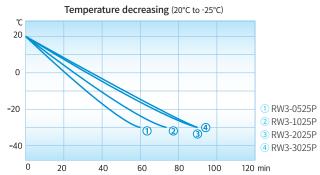












Specification

	Model	RW3-0525P	RW3-1025P	RW3-2025P	RW3-3025P
Bath volume (L / cu ft)	5 / 0.2	10 / 0.4	20 / 0.7	30 / 1.1
Townsonstand	Working temp. range (°C / °F)	-25 to 150 / -13 to 302			
Temperature	Temp. stability ¹⁾ (±°C / °F)	0.05 / 0.09	0.05 / 0.09	0.05 / 0.09	0.05 / 0.09
	at +20°C (+68°F), W	320	380	550	740
Cooling capacity	at 0°C (+32°F), W	230	270	420	630
cupacity	at -20°C (-4°F), W	80	150	300	470
	Bath opening / depth (W x D x H, mm / inch)	150 x 99 x 160 / 5.9 x 3.9 x 6.3	211 x 154 x 180 / 8.3 x 6.1 x 7.1	290 x 214 x 200 / 11.4 x 8.4 x 7.9	300 x 264 x 230 / 11.8 x 10.4 x 9.1
Dimension	Exterior (W x D x H, mm / inch)	308 x 480 x 733 / 12.1 x 18.9 x 28.9	366 x 532 x 780 / 14.4 x 20.9 x 30.7	386 x 602 x 825 / 15.2 x 23.7 x 32.5	446 x 662 x 895 / 17.6 x 26.1 x 35.2
	Net weight (kg / lbs)	37 / 81.6	44 / 97	60 / 132.2	67 / 147.7
Electrical requ	irements (230V, 60Hz, A)	11	11	12.5	13.5
Cat. No.		AAH57641K	AAH57651K	AAH57661K	AAH57671K
Electrical requ	irements (230V, 50Hz, A)	11	11	12.5	13.5
Cat. No.		AAH57642K	AAH57652K	AAH57662K	AAH57672K
Electrical requ	irements (120V, 60Hz, A)	12.6	12.6		
Cat. No.		AAH57643U	AAH57653U	-	-

	Model	RW3-0535P	RW3-1035P	RW3-2035P	RW3-3035P
Bath volume (L / cu ft)	5 / 0.2	10 / 0.4	20 / 0.7	30 / 1.1
Tompovatuva	Working temp. range (°C / °F)	-35 to 150 / -31 to 302			
Temperature	Temp. stability ¹⁾ (±°C / °F)	0.05 / 0.09	0.05 / 0.09	0.05 / 0.09	0.05 / 0.09
	at +20°C (+68°F), W	280	450	800	880
Cooling capacity	at 0°C (+32°F), W	150	330	660	700
cupacity	at -20°C (-4°F), W	80	150	400	440
	Bath opening / depth (W x D x H, mm / inch)	150 x 99 x 160 / 5.9 x 3.9 x 6.3	211 x 154 x 180 / 8.3 x 6.1 x 7.1	290 x 214 x 200 / 11.4 x 8.4 x 7.9	300 x 264 x 230 / 11.8 x 10.4 x 9.1
Dimension	Exterior (W x D x H, mm / inch)	308 x 480 x 733 / 12.1 x 18.9 x 28.9	366 x 532 x 780 / 14.4 x 20.9 x 30.7	386 x 602 x 825 / 15.2 x 23.7 x 32.5	446 x 662 x 895 / 17.6 x 26.1 x 35.2
	Net weight (kg / lbs)	38 / 83.8	44 / 97	60 / 132.2	67 / 147.7
Electrical requ	irements (230V, 60Hz, A)	12.5	12.5	13.5	14.5
Cat. No.		AAH57741K	AAH57751K	AAH57761K	AAH57771K
Electrical requ	Electrical requirements (230V, 50Hz, A)		12.5	13.5	14.5
Cat. No.		AAH57742K	AAH57752K	AAH57762K	AAH57772K

** Technical data (according to DIN 12876)
 ** In case using silicon oil, you need to exchange other material tube (inlet and out late part), such as copper tube, a teflon tube instead of a silicon tube in fitting.
 1) Bath fluid: Ethanol at -10°C / 14°F

Accessories Page 28 Spring Wire Rack, Test Tube Rack, Silicone Tube, Tubing Insulation, Clamp, Cover, Silicone Oil, Ethylene Glycol, LC GreenBox

Refrigerated & Heating Bath Circulator General type

Stable internal/external temperature control

General Type

- Alert function when deviation from control temperature upper limit and lower limit occurs.
- Easy and convenient to use with simple operation.
- Clear VFD panel for clear information display.
- Applies smart refrigeration system using Lab Companion's technology.
- Optimized control reduces overall power consumption.
- Easily removable condenser grill structure.
- Equipped with advanced filter with flat plate structure in refrigeration condenser.
- · Compact structure design.

RW3-2025

with PPS (poly phenylene sulfide) Bath Cover (standard)



Structural Functional Features

- Internal circulation and internal/external circulation of solution.
- Refrigerator stopped automatically when it rises too high of temperature, saving power, extending freezer life, and reducing noise generation.
- High-efficiency refrigeration through application of electronic expansion valve.
- Built-in bath cover with handle.
- Internal bath with seamless integral structure. (except RW3-3025, 3035 models)
- Stainless steel material inside and at the top of the bath is excellent in terms of corrosion resistance and clean maintenance.
- Left and right handles for convenient handling.
- Drain valve for easy draining of bath solution.
- Easy-to-clean refrigerator condenser filter.
- Equipped with easy-to-move/install caster.
- 8 models provided according to temperature range, capacity, etc.
- 5-steps pump speed adjustment with simple operation.

Use Convenience Features

- Temperature calibration of up to 3 points provides more reliable temperature control.
- Optimized control with auto-tuning.
- Save and use 3 frequently used temperatures.
- · Wait On/Off timer. (up to 999 hours 59 minutes)
- Microprocessor PID method for precise temperature control.
- USB/RS-232 connection and software provide convenient computer operation and data management.
- Notification of low solution. (low level limiter)
- Automatic restart of operation when power is restored after power failure.
- Monitor via mobile app anytime, anywhere with LC Connected. (mobile monitoring system) (when purchased LC GreenBox)

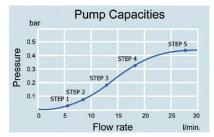
Outstanding Safety

- Top-rated overheating protection system. (Registration KR 10-0397583)
- Over temperature limiting function.
- Prevention of mal-operation with controller lock function.
- Check and alert of temperature sensor abnormality.
- If an error occurs during operation, the details of the error are displayed on the screen and an alarm is sounded.
- Safe structure in which the heater, sensor, and pump inside the bath are separated by covering plates.

Pump Capacity

Pump Step	1	2	3	4	5
Max. pressure (psi)	0.5	1.1	2.4	4.9	5.9
Max. flow rate (L/min)	5.6	8.0	12.8	18.8	28.0
	5.6	8.0	12.8	18.8	28.

※ Bath fluid : Water



























Single-Action refrigeration condenser grill structure allows for detaching and attaching without additional tools.



The drain valve located on the side is simple and convenient to use as it is ball valve type.

Specification

	Model	RW3-0525	RW3-1025	RW3-2025	RW3-3025
Bath volume (L / cu ft)	5 / 0.2	10 / 0.4	20 / 0.7	30 / 1.1
T	Working temp. range (°C / °F)	-25 to 150 / -13 to 302			
Temperature	Temp. stability ¹⁾ (±°C / °F)	0.05 / 0.09	0.05 / 0.09	0.05 / 0.09	0.05 / 0.09
	at 20°C (+68°F), W	400	560	850	980
Cooling capacity	at 0°C (+32°F), W	270	360	610	700
capacity	at -20°C (-4°F), W	140	180	310	465
	Bath opening / depth (W x D x H, mm / inch)	150 x 99 x 160 / 5.9 x 3.9 x 6.3	211 x 154 x 180 / 8.3 x 6.1 x 7.1	290 x 214 x 200 / 11.4 x 8.4 x 7.9	300 x 264 x 230 / 11.8 x 10.4 x 9.1
Dimension	Exterior (W x D x H, mm / inch)	308 x 480 x 733 / 12.1 x 18.9 x 28.9	366 x 532 x 780 / 14.4 x 20.9 x 30.7	386 x 602 x 825 / 15.2 x 23.7 x 32.5	446 x 662 x 895 / 17.6 x 26.1 x 35.2
	Net weight (kg / lbs)	37 / 81.6	44 / 97	60 / 132.3	67 / 147.7
Electrical requ	irements (230V, 60Hz, A)	11	11	12.5	13.5
Cat. No.		AAH57041K	AAH57051K	AAH57061K	AAH57071K
Electrical requ	irements (230V, 50Hz, A)	11	11	12.5	13.5
Cat. No.		AAH57042K	AAH57052K	AAH57062K	AAH57072K
Electrical requ	irements (120V, 60Hz, A)	12.6	12.6		
Cat. No.		AAH57043U	AAH57053U	-	-

	Model	RW3-0535	RW3-1035	RW3-2035	RW3-3035
Bath volume (I	L / cu ft)	5 / 0.2	10 / 0.4	20 / 0.7	30 / 1.1
Tamananatura	Working temp. range (°C / °F)	-35 to 150 / -31 to 302			
Temperature	Temp. stability ¹⁾ (±°C / °F)	0.05 / 0.09	0.05 / 0.09	0.05 / 0.09	0.05 / 0.09
	at 20°C (+68°F), W	400	560	850	980
Cooling capacity	at 0°C (+32°F), W	270	360	610	700
cupacity	at -20°C (-4°F), W	140	180	310	465
	Bath opening / depth (W x D x H, mm / inch)	150 x 99 x 160 / 5.9 x 3.9 x 6.3	211 x 154 x 180 / 8.3 x 6.1 x 7.1	290 x 214 x 200 / 11.4 x 8.4 x 7.9	300 x 264 x 230 / 11.8 x 10.4 x 9.1
Dimension	Exterior (W x D x H, mm / inch)	308 x 480 x 733 / 12.1 x 18.9 x 28.9	366 x 532 x 780 / 14.4 x 20.9 x 30.7	386 x 602 x 825 / 15.2 x 23.7 x 32.5	446 x 662 x 895 / 17.6 x 26.1 x 35.2
	Net weight (kg / lbs)	38 / 83.8	45 / 99.2	60 / 132.3	68 / 149.9
Electrical requ	irements (230V, 60Hz, A)	12.5	12.5	13.5	14.5
Cat. No.		AAH57141K	AAH57151K	AAH57161K	AAH57171K
Electrical requirements (230V, 50Hz, A)		12.5	12.5	13.5	14.5
Cat. No.		AAH57142K	AAH57152K	AAH57162K	AAH57172K



Technical data (according to DIN 12876)
 In case using silicon oil, you need to exchange other material tube (inlet and out late part), such as copper tube, a teflon tube instead of a silicon tube in fitting.
 Bath fluid: Ethanol at -10°C / 14°F

Heating Bath Circulator

Suitable for precise temperature testing above ambient temperature

CW3-05P with PPS (poly phenylene sulfide) Bath Cover (standard)

CW3-05

with PPS (poly phenylene sulfide) Bath Cover (standard)



Program Type Features

- 10 Programs & 10 steps program control
- Set time up to 99 hours and 59 minutes per step.
- Intuitive operation with color touch display.
- Digital Input / Output function makes it easy to connect external equipment.

Structural Functional Features

- · Minimizes evaporation of internal solution at high temperatures and low-heat conductivity bath cover is provided as standard.
- Minimized usage space with compact design.
- · Excellent durability even at high temperatures and
- Internal circulation and internal/external circulation
- Easy to move and manage with the body handle.
- Stainless steel material inside and at the top of the bath is excellent in terms of corrosion resistance and clean
- Drain valve for easy draining of bath solution.
- Includes rubber feet for stable product operation.
- 5-steps pump speed adjustment with simple operation.

Outstanding Safety

- Top-rated overheating protection system. (Registration KR 10-0397583)
- · Over temperature limiting function.
- Prevention of mal-operation with controller lock function.
- Check and alert of temperature sensor abnormality.
- If an error occurs during operation, the details of the error are displayed on the screen and an alarm is sounded.
- · Safe structure in which the heater, sensor, and pump inside the bath are separated by covering plates.

General Type Features

- Alert function when deviation from control temperature upper limit and lower limit occurs.
- Easy and convenient to use with simple operation.
- Clear VFD panel for clear information display.
- Convenient drain valve structure on the front panel.
- Built-in USB connection and dedicated software.

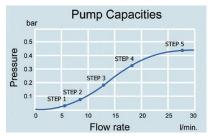
Use Convenience Features

- Temperature calibration of up to 3 points provides more reliable temperature control.
- · Optimized control with auto-tuning.
- Save and use 3 frequently used temperatures.
- Wait On/Off timer. (up to 999 hours 59 minutes)
- Microprocessor PID method for precise temperature control.
- Convenient remote control and data management through built-in dedicated software.
- Notification of low solution. (low level limiter)
- Automatic restart of operation when power is restored after power failure.
- Monitor via mobile app anytime, anywhere with LC Connected. (mobile monitoring system) (when purchased LC GreenBox)

Pump Capacity

Pump Step	1	2	3	4	5
Max. pressure (psi)	0.5	1.1	2.4	4.9	5.9
Max. flow rate (L/min)	5.6	8.0	12.8	18.8	28.0

Bath fluid: Water





























Specification

	Model	CW3-05P	CW3-10P	CW3-20P	CW3-30P
Bath volume (L / cu ft)	5 / 0.2	10 / 0.4	20 / 0.7	30 / 1.1
	Working temp. range (°C / °F)	Amb. +10 to 150 / Amb. +18 to 302	Amb. +10 to 150 / Amb. +18 to 302	Amb. +10 to 150 / Amb. +18 to 302	Amb. +10 to 150 / Amb. +18 to 302
Temperature	Temp. stability ¹⁾ (±°C / °F)	0.05 / 0.09	0.05 / 0.09	0.05 / 0.09	0.05 / 0.09
	Heat up time to 70°C / 158 °F (min)	24	31	43	55
Dimension	Bath opening / depth (W x D x H, mm / inch)	150 x 99 x 160 / 5.9 x 3.9 x 6.3	211 x 154 x 180 / 8.3 x 6.1 x 7.1	290 x 214 x 200 / 11.4 x 8.4 x 7.9	300 x 264 x 230 / 11.8 x 10.4 x 9.1
	Exterior (W x D x H, mm / inch)	228 x 395 x 424 / 9.0 x 15.6 x 16.7	289 x 450 x 444 / 11.4 x 17.7 x 17.5	368 x 510 x 464 / 14.5 x 20.1 x 18.3	378 x 560 x 494 / 14.9 x 22 x 19.4
	Net weight (kg / lbs)	12.5 / 27.6	15.0 / 33.1	17.5 / 38.6	19.5 / 43
Electrical requ	irements (230V, 50/60Hz, A)	8.5	8.5	8.5	8.5
Cat. No.		AAH52741K	AAH52751K	AAH52761K	AAH52771K
Electrical requ	irements (120V, 60Hz, A)	8.6	8.6	8.6	8.6
Cat. No.		AAH52742U	AAH52752U	AAH52762U	AAH52772U

	Model	CW3-05	CW3-10	CW3-20	CW3-30
Bath volume (L / cu ft)	5 / 0.2	10 / 0.4	20 / 0.7	30 / 1.1
	Working temp. range (°C / °F)	Amb. +10 to 150 / Amb. +18 to 302	Amb. +10 to 150 / Amb. +18 to 302	Amb. +10 to 150 / Amb. +18 to 302	Amb. +10 to 150 / Amb. +18 to 302
Temperature	Temp. stability ¹⁾ (±°C / °F)	0.05 / 0.09	0.05 / 0.09	0.05 / 0.09	0.05 / 0.09
	Heat up time to 70°C / 158 °F (min)	15	23	43	55
	Bath opening / depth (W x D x H, mm / inch)	150 x 99 x 160 / 5.9 x 3.9 x 6.3	211 x 154 x 180 / 8.3 x 6.1 x 7.1	290 x 214 x 200 / 11.4 x 8.4 x 7.9	300 x 264 x 230 / 11.8 x 10.4 x 9.1
Dimension	Exterior (W x D x H, mm / inch)	228 x 395 x 424 / 9.0 x 15.6 x 16.7	289 x 450 x 444 / 11.4 x 17.7 x 17.5	368 x 510 x 464 / 14.5 x 20.1 x 18.3	378 x 560 x 494 / 14.9 x 22 x 19.4
	Net weight (kg / lbs)	12.5 / 27.6	15.0 / 33	17.5 / 38.6	19.5 / 43
Electrical requ	irements (230V, 50/60Hz, A)	8.5	8.5	8.5	8.5
Cat. No.		AAH52341K	AAH52351K	AAH52361K	AAH52371K
Electrical requ	irements (120V, 60Hz, A)	8.6	8.6	8.6	8.6
Cat. No.		AAH52342U	AAH52352U	AAH52362U	AAH52372U

^{**} The lowest temperature that can be controlled depends on changes in ambient temperature and sample temperature. Therefore, please contact the distributor of our products before purchasing for technical consultation.
** Technical data (according to DIN 12876)
** In case using silicon oil, you need to exchange other material tube (inlet and out late part), such as copper tube, a teflon tube instead of a silicon tube in fitting.
1) Bath fluid: Water at 50°C / 122°F

Accessories

Stainless Steel Cover

Sturdy, corrosion-resistant, stainless steel material.

Cat. No.	Model
AAA51531	RW3-0525(P), RW3-0535(P), CW3-05(P)
AAA51532	RW3-1025(P), RW3-1035(P), CW3-10(P)
AAA51533	RW3-2025(P), RW3-2035(P), CW3-20(P)
AAA51534	RW3-3025(P), RW3-3035(P), CW3-30(P)



Spring Wire Rack

It has a lattice-shaped double spring structure, which makes it easy to fix various kinds of experiment containers and the height can also be easily adjusted.

Cat. No.	Model
AAA51522	RW3-2025(P), 2035(P)
AAA51523	RW3-3025(P), 3035(P)
AAA51522	CW3-20(P)
AAA51523	CW3-30(P)



Test Tube Rack

Test tubes can be easily fixed in the bath and various models are available according to test tube size. Structure allows for easy adjustment of the degree of tilt and lock.

Cat. No.	Description (mm / inch)	Max. Quantity of Racks
AAA44581	ø8 / 0.3 x 86 tubes	CW3-20(P): 2ea
AAA44582	ø10 / 0.4 x 86 tubes	CW3-30(P): 2ea
AAA44583	ø12 / 0.5 x 58 tubes	RW3-2025(P): 2ea RW3-2035(P): 2ea
AAA44585	ø16 / 0.6 x 32 tubes	RW3-3025(P): 2ea
AAA44586	ø25 / 1.0 x 19 tubes	RW3-3035(P): 2ea
AAA41531	ø8 / 0.3 x 50 tubes	
AAA41532	ø10 / 0.4 x 50 tubes	CW3-10(P): 1ea
AAA41533	ø12 / 0.5 x 33 tubes	RW3-1025(P): 1ea
AAA41535	ø16 / 0.6 x 16 tubes	RW3-1035(P): 1ea
AAA41539	ø25 / 1.0 x 10 tubes	



Silicone Tube

The operating temperature range is $-50 \sim 250^{\circ}\text{C}/-58 \sim 482^{\circ}\text{F}$. Inner diameter of 10 mm, Outside diameter of 16 mm.

Cat. No.	Length (m / inch)
00FAA0001110	10 / 393.7



Tubing Insulation

EPDM material insulation prevents heat loss when using external circulation.

Cat. No.	Description
00FEA0001453	I.D. 25 mm (13T)



Tube Clamp

Attachment that stably holds the tube connection.

Cat. No.	Description
00HXE0001099	3/4"
00HXE0001100	5/8"



LC GreenBox

Real-time monitoring and control of device operation via mobile app.
Up to 4 devices can be connected at once.

Cat. No.	Dimension (W x D x H, mm / inch)
AAAQ1011	156 x 94 x 34 / 6.1 x 3.7 x 1.3



Bath Circulator

VS.

Chiller





	Bath Circulator (ex. RW3-3035)	Chiller (Recirculating Cooler) (ex. HX-25H)
Application	Preserves precise temperature of external devices where heat removal capacity is not required largely.	Maintains temperature by stably removing large heat generated from external devices.
Cooling Capacity	Heat removal capacity is low. 880W at 20°C / 68°F.	Heat removal capacity is large. 2,800W at 20°C / 68°F.
Temperature Range	Temperature range is wide35 to 150°C / -31 to 302°F.	Temperature range is narrow. 3 to 40°C / 37 to 104°F.
Pump Pressure	Circulation pressure is weak. Max. 0.4 bar.	Circulation pressure is strong. Max. 6 bar.

Lab Companion's Chiller Information Page 30

Chiller for Rotary Evaporator

- $\cdot \ \text{Chiller optimized for rotary evaporator.}$
- · Easy to install and use with compact design.
- · Pump In/Out port is located at the upper part, so it is convenient to connect with evaporator.
- \cdot Convenient bath fluid injection on the top.
- · LCD screen for easy checking of operation status.
- · Includes low-level solution alert notification.

Model	RC-05	
Temp. Range (°C / °F)	-20 ~ 30 / -4 ~ 86	
Temp. Stability (°C / °F)	±1.0 / ±1.8	
Cooling Capacity	580W at 20°C / 68°F	
230V, 60Hz, A	4	
Cat. No.	ACH651011K	
230V, 50Hz, A	4	
Cat. No.	ACH651012K	

