

Baths & Circulators

Heating Bath Circulators

External and internal circulation with powerful pumping capability

CW-G Models are specially designed for precise temperature control of external instruments or for immersion purposes using a powerful pump with five adjustable pressure steps.

Operating Features

- +5°C above room temperature to 150°C.
- Microprocessor PID control / Automatic tuning / Calibration.
- Digital timer for delayed ON / OFF. (from 1 min to 99 hr 59 min)
- Protection against low fluid level and dry-running.
- Convenient memory function of up to three frequently used temperature settings.
- Digital LED display. (0.1°C resolution)
- Splash-proof keypad.
- RS-232 interface.

Constructional Features

- Accurate, stable, and efficient temperature management by using a powerful variable-speed pump. (1 to 3 steps of pump for internal circulation and 4 and 5 steps for external circulation)
- Powerful pressure and suction pumps provide contrast pressure and flow rate throughout the whole temperature range.
- Isolated design of agitator, heater, and sensor by a baffle plate to minimize the turbulence in the bath fluid and also to protect users and samples against direct contact.
- Protection against low fluid level and dry running by automatic shut down of the heater together with audible and visual alarms.
- Corrosion-resistant, seamless, leak-proof, round-cornered, and easy-to-clean stainless steel bath with a drain valve.
- Compact footprints ideal for cramped lab space.



CW-05G with the included SUS Covers

- | | |
|-----------------------------|---|
| Included Accessories | <ul style="list-style-type: none"> • Stainless Steel Flat Type Cover • One 30cm (1 ft) Length and Ø12mm of Silicone Rubber Tubing |
| Optional Accessories | <ul style="list-style-type: none"> • Suction Function for Pump • Test Tube Racks, Spring Wire Racks |
- 📄 see page 20-21

Specifications & Ordering Information



Model	CW-05G	CW-10G	CW-20G	CW-30G
Bath Volume (L / cu ft)	5 / 0.2	10 / 0.4	20 / 0.7	30 / 1.1
Working Temperature Range ²⁾ (°C / °F)	Amb. +5 to 150 / Amb. +9 to 302			
Temperature Stability ¹⁾ (±°C / °F)	0.05 / 0.09	0.05 / 0.09	0.1 / 0.18	0.1 / 0.18
Pump	Max. Pressure, Max. Flow Rate			
	5.9 PSI (406.8 millibar), 7.4 gallons / minute (28 liters / minute)			
Dimension	Max. Suction Flow Rate			
	2.6 gallons / minute (10 liters / minute)			
	Bath Opening / Depth (WxL, D) (mm / inch)	150x99, 160 / 5.9x3.9, 6.3	211x154, 180 / 8.3x6.1, 7.1	290x214, 200 / 11.4x8.4, 7.9
Overall (WxLxH) (mm / inch)	220x395x424 / 8.7x15.6x16.7	281x450x444 / 11.1x17.7x17.5	360x510x464 / 14.2x20.1x18.3	370x560x494 / 14.6x22x19.4
Net Weight (kg / lbs)	12.5 / 27.6	15 / 33	17.5 / 38.6	19.5 / 43
Electrical Requirements (230V, 50 / 60 Hz)	4.5A	6.7A	8.8A	8.8A
Cat. No.	AAH52305K	AAH52315K	AAH52325K	AAH52335K
Electrical Requirements (120V, 50 / 60 Hz)	8.6A	8.6A	8.6A	8.6A
Cat. No.	AAH52306U	AAH52316U	AAH52326U	AAH52336U

1) Technical data according to DIN 12876.

2) If you operate the unit in 1 to 3 steps of pump, the temperature range can be from Amb. +5°C but in 4 and 5 steps, the range will be from Amb. +15°C.

Baths & Circulators

Refrigerated & Heating Bath Circulators

Rapid heating and cooling throughout the entire temperature range.

Specially designed to be used with **Refractometers** and **Viscometers**, RW-G Models feature accurate and stable temperature control capability even at very low temperatures (as low as -35°C) by adopting a powerful pump for both external and internal circulation.

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Operating Features

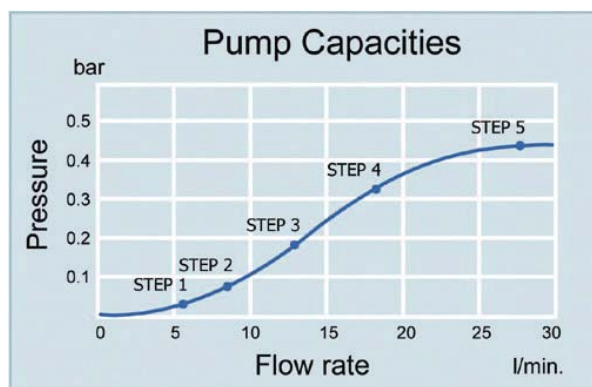
- Temp. range: from -35°C to 150°C for RW-40G Models.
from -25°C to 150°C for RW-25G Models.
- Microprocessor PID control / automatic tuning / calibration.
- Digital timer for delayed ON / OFF. (from 1 min to 99 hr 59 min)
- Protection against over-temperature and low fluid level.
- Convenient memory function of up to three frequently used temperature settings.
- Digital LED display. (0.1°C resolution)
- Splash-proof keypad.
- RS-232 interface.

Constructional Features

- Suitable for both internal and external bath environment due to reduced turbulence by using five-speed duplex pump and built-in cooling coil. (1 to 3 steps of the pump for internal circulation and 4 and 5 steps for external circulation)
- Isolated design of agitator, heater, and sensor by a baffle plate to minimize the turbulence in the bath fluid and also to protect users and samples against direct contact.
- Protection against low fluid level and dry running by automatic shut down of the heater together with audible and visual alarms.
- Corrosion-resistant, seamless, leak-proof, round-cornered, and easy-to-clean stainless steel reservoir with a drain valve.
- Usage of CFC-free refrigerant (R-134A, R-404A) and a double service valve for leakage prevention.
- Quick-release front grille for easy cleaning of the condenser.
- Compact footprints ideal for cramped lab space.

RW-0525G with the included SUS Cover

- Included Accessories**
- Stainless steel Flat Cover
 - 30 cm (1 ft) long and Ø12 mm Silicone Rubber Tubing
- Optional Accessories**
- Additional Suction Pumps
 - Test Tube Racks and Spring Wire Racks
- ☞ see page 20-21



* Applicable for CW-G, RW-25G, and RW-40G Models
* Bath fluid: water (at the normal Temperature)

Baths & Circulators

Refrigerated & Heating Bath Circulators

Specifications & Ordering Information

RW-25G Models (for temperature range from -25°C to 150°C)



Model	RW-0525G	RW-1025G	RW-2025G	RW-3025G
Bath Volume (L / cu ft)	5 / 0.2	10 / 0.4	20 / 0.7	30 / 1.1
Working Temperature Range ²⁾ (°C / °F)	-25 to 150 / -13 to 302			
Temperature Stability ¹⁾ (±°C / °F)	0.05 / 0.09	0.05 / 0.09	0.05 / 0.09	0.08 / 0.14
Cooling Capacity	at -20°C (-4°F), W	30	50	260
	at 0°C (+32°F), W	230	250	410
	at +20°C (68°F), W	320	380	560
Refrigerator	1 / 3 LBP, R-134A	1 / 3 LBP, R-134A	1 / 2 LBP, R-404A	3 / 4 LBP, R-404A
Pump	Max. Pressure, Max. Flow rate	5.9 PSI (406.8 millibar), 7.4 gallons / minute (28 liters / minute)		
	Max. Suction Flow Rate ³⁾	2.6 gallons / minute (10 liters / minute)		
Dimension	Bath Opening / Depth (WxL, D) (mm / inch)	150x99, 160 / 5.9x3.9, 6.3	211x154, 180 / 8.3x6.1, 7.1	290x214, 200 / 11.4x8.4, 7.9
	Overall (WxLxH) (mm / inch)	302x438x690 / 11.9x17.2x27.2	360x490x780 / 14.2x19.3x30.7	380x560x825 / 15x22x32.5
	Net Weight (kg / lbs)	37 / 81.6	44 / 97	60 / 132.2
Electrical Requirements (230V, 60Hz)	7A	9.2A	12.8A	13.8A
Cat. No.	AAH57001K	AAH57011K	AAH57021K	AAH57031K
Electrical Requirements (230V, 50Hz)	7A	9.2A	12.8A	13.8A
Cat. No.	AAH57002K	AAH57012K	AAH57022K	AAH57032K
Electrical Requirements (120V, 60Hz)	12.6A	12.6A	-	-
Cat. No.	AAH57003U	AAH57013U	-	-

* RW-2025G and RW-3025G Models are available ONLY for 230V.

1) Technical data according to DIN 12876.

2) The cooling capacity is measured on a 230V / 60Hz electrical condition.

3) The additional suction function is optional.

Specifications & Ordering Information

RW-40G Models (for temperature range from -35°C to 150°C)



Model	RW-0540G	RW-1040G	RW-2040G	RW-3040G
Bath Volume (L / cu ft)	5 / 0.2	10 / 0.4	20 / 0.7	30 / 1.1
Working Temperature Range ²⁾ (°C / °F)	-35 to 150 / -31 to 302			
Temperature Stability ¹⁾ (±°C / °F)	0.05 / 0.09	0.05 / 0.09	0.05 / 0.09	0.08 / 0.14
Cooling Capacity	at -20°C (-4°F), W	80	150	400
	at 0°C (+32°F), W	150	330	660
	at +20°C (68°F), W	280	450	800
Refrigerator	1 / 2 LBP, R-404A	1 / 2 LBP, R-404A	3 / 4 LBP, R-404A	1 LBP, R-404A
Pump	Max. Pressure, Max. Flow rate	5.9 PSI (406.8 millibar), 7.4 gallons / minute (28 liters / minute)		
	Max. Suction Flow Rate ³⁾	2.6 gallons / minute (10 liters / minute)		
Dimension	Bath Opening / Depth (WxL, D) (mm / inch)	150x99, 160 / 5.9x3.9, 6.3	211x154, 180 / 8.3x6.1, 7.1	290x214, 200 / 11.4x8.4, 7.9
	Overall (WxLxH) (mm / inch)	302x438x690 / 11.9x17.2x27.2	360x490x780 / 14.2x19.3x30.7	380x560x825 / 15x22x32.5
	Net Weight (kg / lbs)	38 / 83.8	44 / 97	60 / 132.2
Electrical Requirements (230V, 60Hz)	8.5A	10.7A	13.8A	14.8A
Cat. No.	AAH57101K	AAH57111K	AAH57121K	AAH57131K
Electrical Requirements (230V, 50Hz)	8.5A	10.7A	13.8A	14.8A
Cat. No.	AAH57102K	AAH57112K	AAH57122K	AAH57132K

* RW-40G Models are available ONLY for 230V.

1) Technical data according to DIN 12876.

2) The cooling capacity is measured under 230V / 60Hz electrical condition.

3) Additional suction pump is optional.

Baths & Circulators

Cold Trap Bath

Digital temperature display.
Effective capture of moisture or condensate.
Also useful as quick cooling baths.



Features

- LED temperature display.
- Protection against over-current.
- Easy installation and maintenance of glass traps.
(Two glass traps included)
- Quick-release front grille for easy cleaning of the condenser.
- Compact size and little noise.
- Built-in dissolving system to easily remove ice or solid matter stuck on the bath.
- Durable stainless steel bath.
- Transparent acrylic lids on top of the glass trap to check condensate level in the trap.

Standard Accessories



CTB-10 CTB-10 with the included U-type Glass Traps (2EA)

Model	Cat. No.	Description
Related accessory	FCA1110	U-type Glass Trap

Specifications & Ordering Information



Specifications		CTB-10
Temperature Range (°C / °F)		Down to -40 / -40
Material	Bath External	Stainless steel, 1.2t, Double painted & baked
	Bath Up Desk	Stainless steel, 1.5t
	Insulation	Polyurethane foam (30mm)
	Refrigerator	1 / 2 HP, R-404A (LBP)
Dimension	Volume (L / cu ft)	4.8 / 0.17
	Bath (ØxH, mm)	Dia, 210x204 / 8.3x8
	Overall (WxDxH) (mm / inch)	360x465x555 / 14.1x18.3x21.9
	Net Weight (kg / lbs)	46 / 101.4
Electrical Requirements		230V, 60Hz
Cat. No.		AAH62011K
Electrical Requirements		230V, 50Hz
Cat. No.		AAH62012K

Baths & Circulators

Accessories & Options

for Shaking & Heating Baths



Universal Platforms



Flask Clamps



Dedicated Platforms



Test Tube Racks

► Universal Platforms & Flask Clamps

The universal platforms provide flexibility for mixing different size test tubes and glassware on a single platform. Various clamps or racks can be interchanged or added easily using mounting holes on the platform. (only for BS Models)

Universal Platform Cat. No.		BS-06	BS-11	BS-21	BS-31
		AAA44521	AAA44522	AAA44523	AAA44524
Max. Mountable Flask Clamps*					
Cat. No.	Erlenmeyer Flask Size				
AAA23550	for 50mL	9	12	20	32
AAA23551	for 100mL	3	9	15	24
AAA23552	for 250ml	2	4	8	12
AAA23556	for 300mL	2	4	8	12
AAA23553	for 500ml	2	4	6	12
AAA23554	for 1L	1	2	4	6
AAA23555	for 2L °	-	1	2	3
AAA23557	for 2.8L °	-	1	1	2

° 2 and 2.8L flasks must be used due to height restrictions, respectively.

* Flask clamps for universal platforms are sold separately.

► Dedicated Platforms

When using glassware of the same size, dedicated platforms with preinstalled 250 mL or 500 mL clamps provide maximum capacity for each platform size. If you need to use different size glassware, purchase other suitable clamps separately. (only for BS Models)

Cat. No.	Description
AAA44531	Dedicated Platform for BS-06 with 250mL Flask Clamps 2ea on
AAA44532	Dedicated Platform for BS-06 with 500mL Flask Clamps 2ea on
AAA44541	Dedicated Platform for BS-11 with 250mL Flask Clamps 4ea on
AAA44542	Dedicated Platform for BS-11 with 500mL Flask Clamps 4ea on
AAA44551	Dedicated Platform for BS-21 with 250mL Flask Clamps 8ea on
AAA44552	Dedicated Platform for BS-21 with 500mL Flask Clamps 6ea on
AAA44561	Dedicated Platform for BS-31 with 250mL Flask Clamps 12ea on
AAA44562	Dedicated Platform for BS-31 with 500mL Flask Clamps 12ea on

※ Dedicated platforms are sold with maximum number of flask clamps preinstalled.

► Test Tube Racks

Highly durable stainless steel test tube racks feature adjustable angle and tube height support without requiring any base plate. You can easily mount and release test tube racks.

Cat. No.	Description	Insert Capacity of Racks*			
AAA44581	for 86 Test Tubes	BS-06 1EA	BS-11 2EA	BS-21 3EA	BS-31 4EA
AAA44582	for 86 Test Tubes				
AAA44583	for 58 Test Tubes				
AAA44585	for 32 Test Tubes				
AAA44586	for 19 Test Tubes				

* No declination.

※ Customized accessories to meet your specific requirements can be also provided. For inquiries, please contact your dealer.

Baths & Circulators

Accessories & Options

for Baths & Bath Circulators



Transparent Polypropylene Gable Covers



Stainless Steel Flat Covers



Open-rings Covers

Transparent Polypropylene Gable Covers

Made of transparent polypropylene, gable covers allow easy sample monitoring, prevent liquid loss due to evaporation, and also protect samples from contamination due to direct dripping of the bath liquid into the samples. The gable type roof accommodates glassware of varying heights. (only for BW-H and BW-B Models)

Cat. No.	Description	Suitable for
AAA45531	Transparent Polypropylene Gable Type	BW-05H / BW-05B
AAA45532	Transparent Polypropylene Gable Type	BW-10H / BW-10B
AAA45533	Transparent Polypropylene Gable Type	BW-20H / BW-20B

Stainless Steel Flat Covers

Made of stainless steel to prevent corrosion and rust. (only for BW-H and BW-B Models)

Cat. No.	Description	Suitable for
AAA45541	Stainless steel flat type	BW-05H / BW-05B
AAA45542	Stainless steel flat type	BW-10H / BW-05B
AAA45543	Stainless steel flat type	BW-20H / BW-05B

Open-rings Covers

Beakers or Erlenmeyer flasks can be placed directly onto the perforated stainless steel half-shelf adjuster or water tank bottom. By adjusting ring size for each glassware, liquid loss due to evaporation is minimized. (only for BW-H, BW-B, BW-G Models)

Cat. No.	Description	Suitable for
AAA45521	with 2 openings 80mm dia. (3.1")	BW-05H / BW-05B
AAA45524	with 1 opening 110mm dia. (4.3")	
AAA45522	with 4 openings 80mm dia. (3.1")	BW-10H / BW-10B
AAA45525	with 2 openings 110mm dia. (4.3")	
AAA45526	with 1 opening 185mm dia. (7.3")	BW-20H / BW-20B
AAA45523	with 8 openings 80mm dia. (3.1")	
AAA45527	with 6 openings 110mm dia. (4.3")	BW-05G
AAA45528	with 2 openings 185mm dia. (7.3")	
AAA41561	with 2 openings 80mm dia. (3.1")	BW-10G
AAA41564	with 1 opening 110mm dia. (4.3")	
AAA41562	with 4 openings 80mm dia. (3.1")	BW-20G
AAA41565	with 2 openings 110mm dia. (4.3")	
AAA41566	with 1 opening 185mm dia. (7.3")	BW-20G
AAA41563	with 6 openings 80mm dia. (3.1")	
AAA41567	with 4 openings 110mm dia. (4.3")	BW-20G
AAA41568	with 1 opening 185mm dia. (7.3")	

Test Tube Racks

Highly durable stainless steel test tube racks feature adjustable angle and tube height support without requiring any base plate. You can easily mount and release test tube racks.

Cat. No.	Description	Insert Capacity of Racks*		
AAA44581	for 86 Test Tubes 8mm dia. (0.3")	BW-05H BW-05B	BW-10G	BW-20G
AAA44582	for 86 Test Tubes 10mm dia. (0.4")		CW-20G, 30G	
AAA44583	for 58 Test Tubes 12mm dia. (0.5")	1EA	RW-2025G, 2040G, 3025G, 3040G	3EA
AAA44585	for 32 Test Tubes 16mm dia. (0.6")			
AAA44586	for 19 Test Tubes 25mm dia. (1.0")	1EA	BW-05G	1EA
AAA41531	for 50 Test Tubes 8mm dia. (0.3")		CW-10G	
AAA41532	for 50 Test Tubes 10mm dia. (0.4")	1EA	RW-1025G, 1040G	1EA
AAA41533	for 33 Test Tubes 12mm dia. (0.5")			
AAA41535	for 16 Test Tubes 16mm dia. (0.6")	1EA	BW-20H BW-20B	2EA
AAA41539	for 10 Test Tubes 25mm dia. (1.0")			
AAA45551	for 176 Test Tubes 8mm dia. (0.3")	1EA	BW-10H BW-10B	2EA
AAA45552	for 176 Test Tubes 10mm dia. (0.4")			
AAA45554	for 84 Test Tubes 12mm dia. (0.5")	1EA	BW-20H BW-20B	2EA
AAA45556	for 68 Test Tubes 16mm dia. (0.6")			
AAA45561	for 33 Test Tubes 25mm dia. (1.0")	1EA	BW-20H BW-20B	2EA

* No declination.

Baths & Circulators

Accessories & Options

for Baths & Bath Circulators



Spring Wire Racks



Half-shelf Adjusters



Additional Suction Pumps

Spring Wire Racks

Ideal for holding a wide variety of tubes, flasks, and other glassware. All components are made of stainless steel.
(for all models)

Cat. No.	Suitable for
AAA45502	BW-10H / BW-10B
AAA45503	BW-20H / BW-20B
AAA41502	BW-10G
AAA41503	BW-20G
AAA51522	CW-20G / RW-2025G, 2040G
AAA51523	CW-30G / RW-3025G, 3040G

Additional Suction Pumps*

Additional suction device for more powerful external and internal circulation. Maximum suction flow rate is 10.0 liters per minute. (only for CW-G and RW-G Models)

Cat. No.	Suitable for
52503	CW-05G / RW-0525G, 0540G
52513	CW-10G / RW-1025G, 1040G
52523	CW-20G / RW-2025G, 2040G
52533	CW-30G / RW-3025G, 3040G

* Adding this additional suction function after your purchase is time-consuming and costly. Prior request is highly recommended.

Half-shelf Adjusters

Stainless steel perforated sample tray shelves with adjustable height support prevent leaks and guard against rust and contamination.
(only for BW-H, BW-B, and BW-G Models)

Cat. No.	Suitable for
AAA45511	BW-05H / BW-05B
AAA45512	BW-10H / BW-10B
AAA45513	BW-20H / BW-20B
AAA41551	BW-05G
AAA41552	BW-10G
AAA41553	BW-20G

for Viscometer Heating Baths

Viscometer Tube Holders

Specially designed to hold a two-opening viscometer glass tube and made of Bakelite, renowned for its high thermal endurance. (only for VB Models)

Cat. No.	Suitable for
AAA43501	VB-25G (need Max. 5 holders) VB-40G (need Max. 8 holders)



Viscometer Tube Holders

Cooling Circulators

The temperature range of viscometer heating baths can be lowered up to +10°C (+50°F) when used with an optional cooling circulator.
(only for VB Models)

Cat. No.	Suitable for	Cooling Circulators *
AAH57011K	VB-25G (230V, 60Hz)	RW-1025G (230V, 60Hz)
AAH57012K	VB-25G (230V, 50Hz)	RW-1025G (230V, 50Hz)
AAH57021K	VB-40G (230V, 60Hz)	RW-2025G (230V, 60Hz)
AAH57022K	VB-40G (230V, 50Hz)	RW-2025G (230V, 50Hz)

* Refer to p.16-17 for more information on the cooling circulators.