



新芝恒温水浴

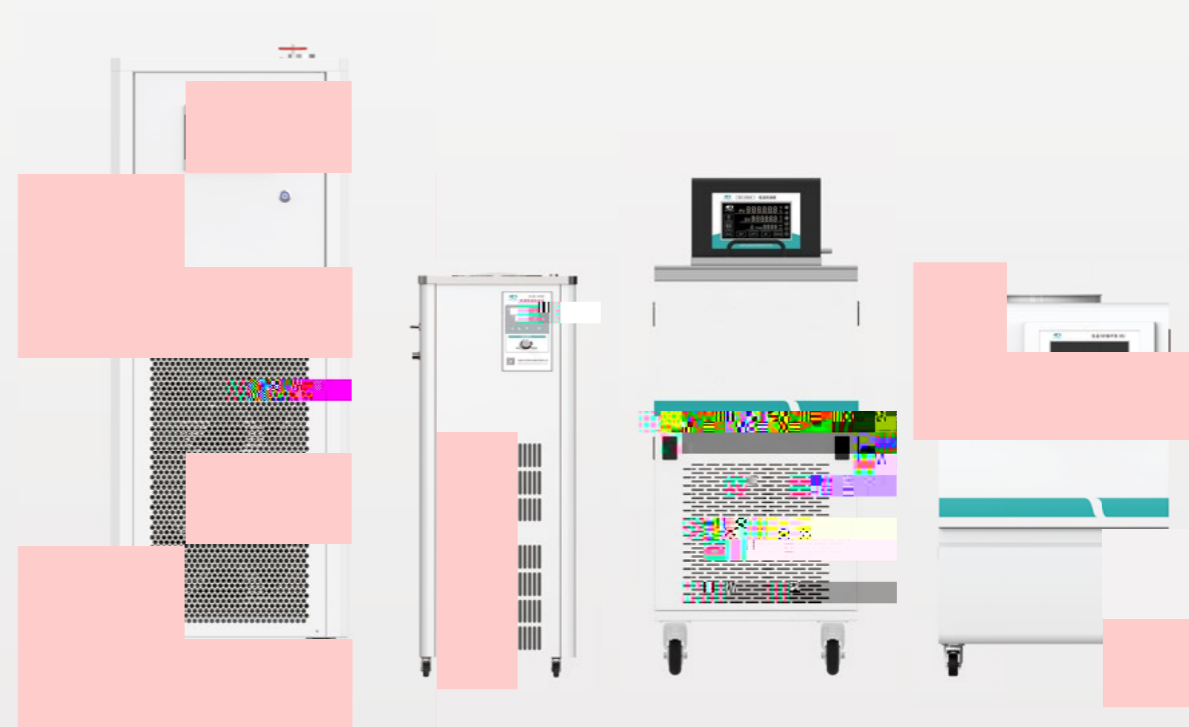
THERMOSTATIC BATH

工艺流程温控系统 恒温反应浴 恒温槽 低温冷却循环泵



创新服务科学

创新服务科学



4008-122-088

SCIENTZ

PID

?

(+20)

+8

?

?

?

:

$$P=(M*c*dT) / t$$

P= / kW

M= kg

c= (=4.2 =2.5 =1.8)

dT= °C

t= / S

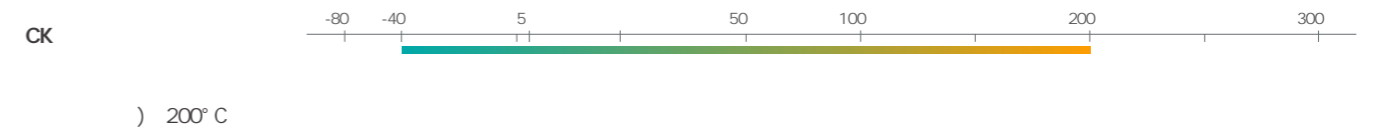
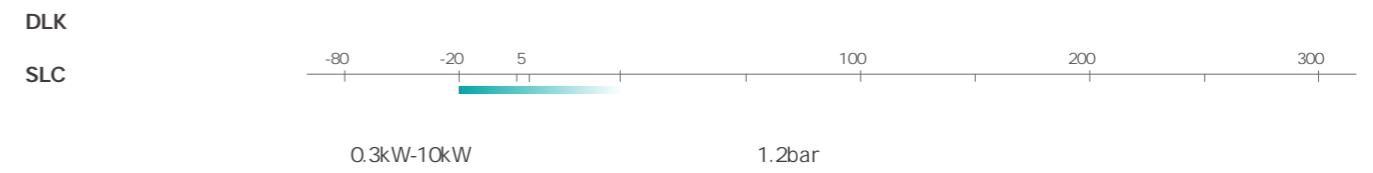
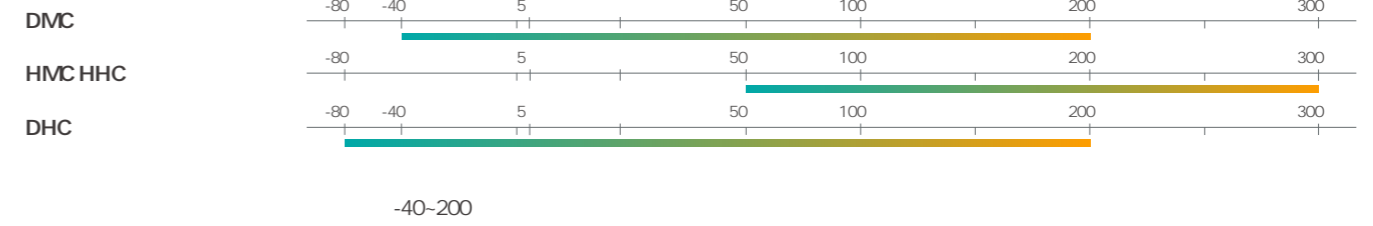
M

/

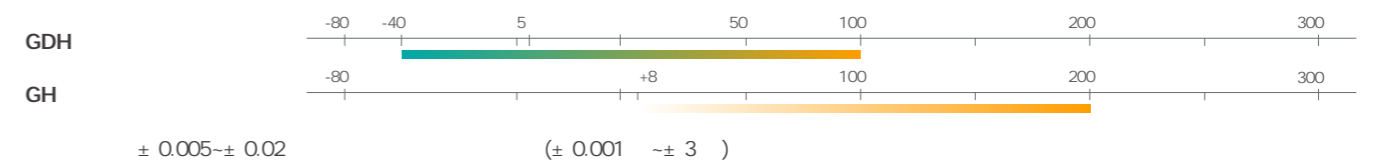
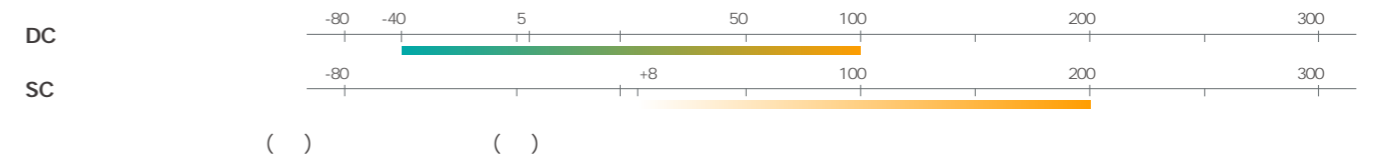
(

20-30%

)

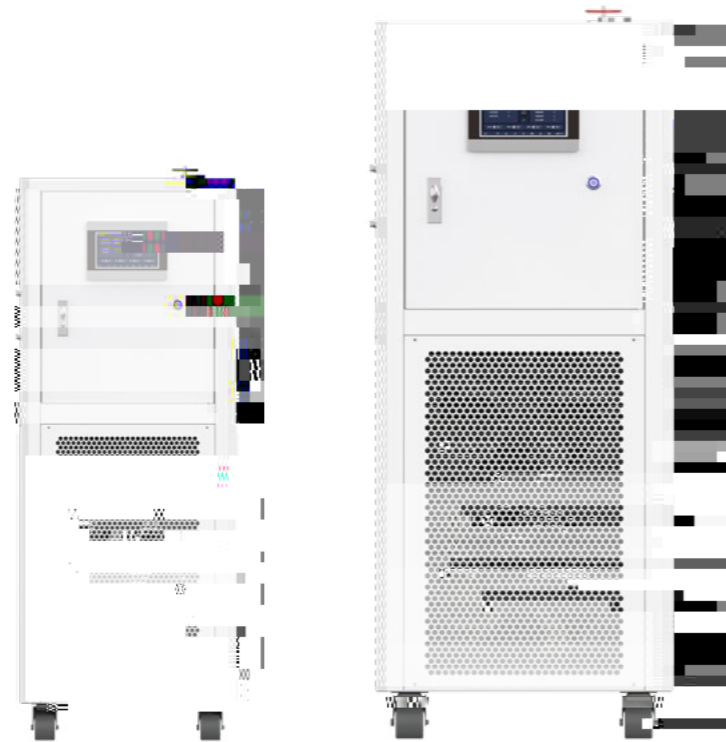


MOCVD LED



;

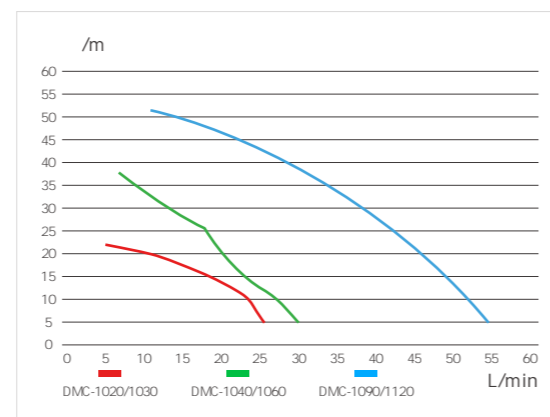
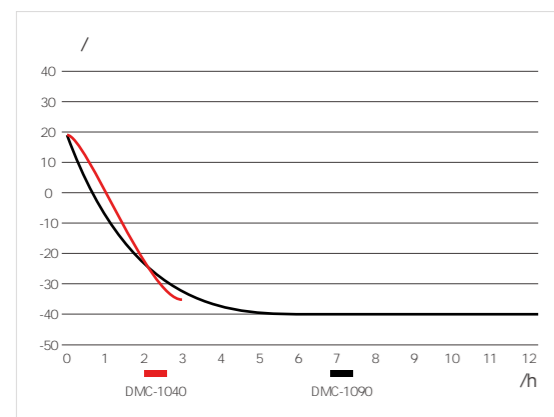
X



DMC-1040/1060

DMC-1090/1120

200° C
-40~200° C



	DMC-1020	DMC-1030	DMC-1040	DMC-1060	DMC-1090	DMC-1120
()	-35~200	-35~200	-40~200	-40~200	-40~200	-40~200
()	0.1	0.1	0.1	0.1	0.1	0.1
()	± 0.5	± 0.5	± 0.5	± 0.5	± 0.5	± 0.5
(L)	3	3	9	9	9	9
(L)	3.5	3.5	4.5	4.5	7	7
(kW)	2.5	3.5	5.5	7.5	11.5	14.5
(200 /kW)	2.2	3.5	5.5	7.5	10	13.5
(45 /kW)	2.2	3.5	5.5	7.5	10	13.5
(25 /kW)	2	3	4.4	6.2	9	12
(0 /kW)	1.8	2.7	3.8	5.8	8.6	11.5
(-10 /kW)	1.5	2	3.2	5.2	7.5	10
(-20 /kW)	0.9	1.5	2.2	3.3	4.2	5.5
(-30 /kW)	0.3	0.5	0.82	1.4	2.1	3
(-40 /kW)	/	/	0.3	0.5	0.8	1.1
(L/min)	20	20	40	40	60	60
(bar)	4	4	4	4	4	4
	G1/2	G1/2	G3/4	G3/4	G1	G1
(dB)	62	65	68	69	70	73
(kg)	65	70	120	135	180	190
L/W/H(mm)	450 680 1100	450 680 1100	540 680 1420	540 680 1420	750 890 1770	750 890 1770
(kW)	3.8	5.1	7.9	11	16	21
	220V/50Hz-1	380V/50Hz-3	380V/50Hz-3	380V/50Hz-3	380V/50Hz-3	380V/50Hz-3

" S"

" EX"

HMC HHC

PROCESS TEMPERATURE CONTROL SYSTEM



	HMC-125	HMC-155	HMC-1100	HMC-1150	HHC-125	HHC-155	HHC-1100	HHC-1150
()	50-200	50-200	50-200	50-200	50-300	50-300	50-300	50-300
()	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
()	± 0.5	± 0.5	± 0.5	± 0.5	± 0.5	± 0.5	± 0.5	± 0.5
(L)	4.5	9	9	9	4.5	9	9	9
(L)	3.5	4.5	4.5	4.5	3.5	4.5	4.5	4.5
(kW)	2.5	5.5	10	15	2.5	5.5	10	15
(300 kW)	/	/	/	/	2	5	9	14
(200 kW)	2	5	9	14	2	5	9	14
(45 kW)	0.6	1	2	3	0.6	1	2	3
(L/min)	20	35	50	80	20	35	50	80
(bar)	1.5	1.5	2	2.5	1.5	1.5	2	2.5
	G1/2	G3/4	G3/4	G1	G1/2	G3/4	G3/4	G1
(dB)	54	56	62	65	54	56	62	65
(kg)	35	65	85	100	35	65	85	100
L/W/H(mm)	350 560 750	400 600 1050	400 600 1050	600 600 1250	600 600 1250	600 600 1250	600 600 1250	700 800 1650
(kW)	3.5	5.9	10.8	15.7	3.5	6.2	11	16
	220V/50Hz-1	380V/50Hz-3	380V/50Hz-3	220V/50Hz-1	380V/50Hz-3	380V/50Hz-3	380V/50Hz-3	380V/50Hz-3

DHC

PROCESS TEMPERATURE CONTROL SYSTEM



	DHC-1035	DHC-1055	DHC-1075	DHC-1100	DHC-1150
()	-80-200	-80-200	-80-200	-80-200	-80-200
()	0.1	0.1	0.1	0.1	0.1
()	± 0.5	± 0.5	± 0.5	± 0.5	± 0.5
(L)	9	9	9	9	9
(L)	3.5	4.5	7	10	15
(kW)	3.5	5.5	7.5	10	15
(200 kW)	3.5	5.5	7.5	10	15
(45 kW)	3.5	5.5	7.5	10	15
(0 kW)	3.5	5.5	7.5	10	15
(-20 kW)	3.5	5.5	7.5	10	15
(-40 kW)	2.5	3.3	5.8	6.3	11
(-60 kW)	1.4	1.6	3	3.3	5.8
(-75 kW)	0.4	0.7	1.3	1.4	2.4
(L/min)	35	50	75	75	75
(bar)	1	1	1.5	1.5	1.5
	G1/2	G3/4	G3/4	G3/4	G1
(dB)	65	68	70	72	75
(kg)	285	345	500	600	750
L/W/H(mm)	550 700 1650	700 800 1650	700 800 1650	1000 950 1750	1000 950 1750
(kW)	10	13	17	22	33
	5-35 900L/H 1.5bar-4bar G1/2	5-35 1500L/H 1.5bar-4bar G1/2	5-35 1900L/H 1.5bar-4bar G3/4	5-35 2400L/H 1.5bar-4bar G3/4	5-35 3200L/H 1.5bar-4bar G3/4
	380V/50Hz-3	380V/50Hz-3	380V/50Hz-3	380V/50Hz-3	380V/50Hz-3



()

	10mm	14mm	60PS	-60-225
	G1/2		2	70 304
	G3/4		2	80 304
	G1		2	100 304

	G3/4	G1/2 304	44mm
	G1	G3/4 304	44mm
	G1	G1/2 304	44mm
	304	G1	L=45mm
	304	G3/4	L=45mm
	304	G1/2	L=45mm
	4	PN63 316	
	1	304	
	6	PN63 316	
	ZG1/2(4)		12mm

		g/cm ³ (20)			mm ² /s(40)	
U350	0-320	1.046	-30	390	40	0.00087
U40	-40-200	0.768	-60	241	2.11	0.000733
U85	-80-180	0.755	-85	192	1.11	0.00098
U115	-110-90	0.743	-126	99	0.75	0.00143
U2	-80-200	0.879	-100	230	2.11	0.00134
U5	-60-250	0.916	-95	280	5.21	0.00105
U10	-60-280	0.942	-95	300	10.25	0.00107

10L/
25L/
200L/

/

A
B

()

A
B
C
D

A
B

()

A
B
C
D

7.5kw

7

EXPdmbIBT4 EXPdmbiCt4

GB3836.5-2004(

ExpdmbICT4

" p")

GYB091118

2-3mm

a. 280Pa
c. 50Pa

b. 80Pa 50Pa

1 220

" " 4

250Pa

1

50Pa

50Pa

2

t2 3

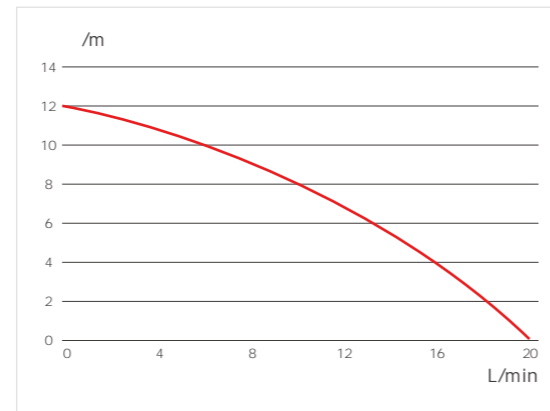
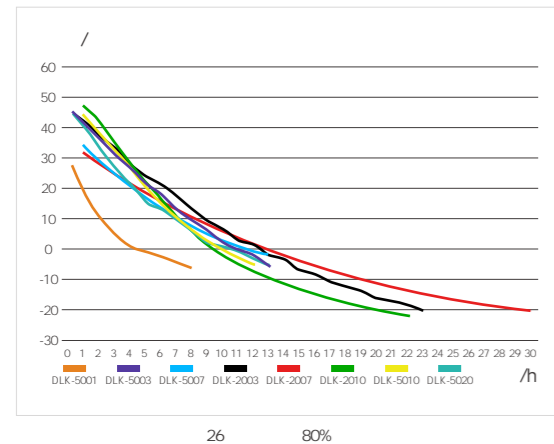
50Pa



DLK

LOW TEMPERATURE COOLING CIRCULATION PUMP

DLK-5001 DLK-2002 DLK-2003/5003 DLK-2007/5007 DLK-2010/5010 DLK-2020/5020 DLK-2030/5030



	DLK-5001	DLK-2002	DLK-5003	DLK-2003	DLK-5007	DLK-2007	DLK-5010	DLK-2010	DLK-5020	DLK-2020	DLK-5030	DLK-2030
()	-5-45	-20-45	-5-45	-20-45	-5-45	-25-45	-5-45	-25-45	-5-45	-25-45	-5-45	-25-45
()	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
()	± 2	± 2	± 2	± 2	± 2	± 2	± 2	± 2	± 2	± 2	± 2	± 2
(L)	0.9	2	3	3	7	7	10	10	20	20	30	30
(45 kW)	/	/	0.76	0.76	1.36	1.36	2.6	2.6	4.5	4.5	6.4	6.4
(25 kW)	0.35	0.55	0.63	0.63	1.27	1.27	2.1	2.1	3.8	3.8	5.8	5.8
(20 kW)	0.3	0.53	0.58	0.56	1.15	1.15	2	2	3.4	3.4	5.4	5.4
(15 kW)	0.25	0.5	0.55	0.51	1.05	1.05	1.75	1.75	2.8	2.8	4.8	4.8
(10 kW)	0.2	0.48	0.5	0.45	0.9	0.9	1.5	1.5	2.2	2.2	4.2	4.2
(5 kW)	0.18	0.44	0.45	0.41	0.82	0.82	1.15	1.15	1.7	1.7	3.7	3.7
(0 kW)	0.15	0.43	0.39	0.37	0.65	0.65	0.9	0.9	1.35	1.35	3	3
(-5 kW)	0.1	0.39	0.28	0.33	0.5	0.5	0.7	0.7	1.05	1.05	2.2	2.2
(-10 kW)	/	0.36	/	0.27	/	0.38	/	0.52	/	0.8	/	1.7
(-15 kW)	/	0.29	/	0.2	/	0.23	/	0.35	/	0.65	/	1.2
(-20 kW)	/	0.23	/	0.15	/	0.11	/	0.26	/	0.4	/	0.9
(L/min)	20	20	20	20	20	20	20	20	20	20	20	20
(bar)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
	G1/2	G1/2	G1/2	G1/2	G1/2	G1/2	G1/2	G1/2	G1/2	G1/2	G1/2	G1/2
(dB)	55	63	57	57	60	60	62	62	65	65	70	70
(kg)	18	32	29	29	35.5	35.5	46	46	64	64	122	122
L/W/H(mm)	260 340 300	222 450 505	390 423 445	390 423 445	390 410 630	390 410 630	430 470 820	430 470 820	447 553 960	447 553 960	557 675 1193	557 675 1193
(kW)	0.2	0.43	0.55	0.55	0.65	0.65	0.77	0.77	1.2	1.2	2.4	2.4

DLK-5007

" G"

220V/50Hz~1

SLC

CONSTANT TEMPERATURE COOLING CIRCULATOR



0.1
0-6bar
30L/min

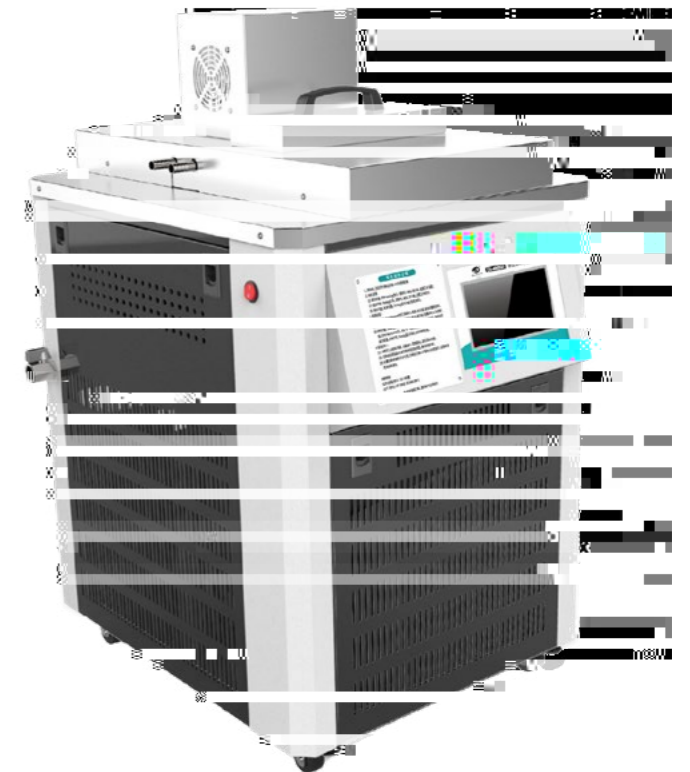
ICP ICP-MS

			L/min	bar	25 kW	kW	L/WH(mm)	L
SLC-2006	-25-45	± 0.1	20	1.2	0.6	0.4	220*450*500	0.7
SLC-2030	-25-45	± 0.1	30	6	3.0	1.6	428*620*890	8-15

CK

RAPID LOW-TEMPERATURE COOLING CIRCULATING BATH

32
()
± 0.1

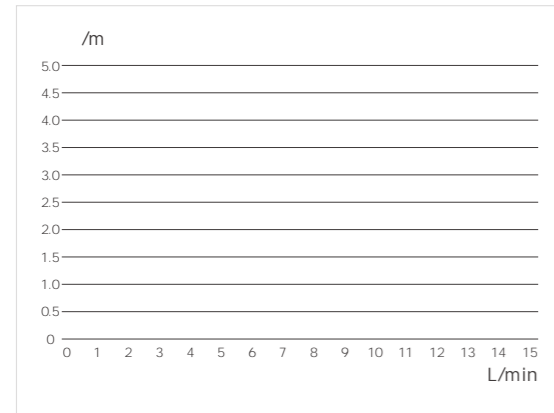


				L		(L/min)	(bar)	(20 kW)	kW	(kWh)	L/WH(mm)
CK-2003GD	-40-200	32	220V/50Hz	3	± 0.1	15	0.45	0.35	0.6	1.0	535*395*750
CK-4005GD	-40-200	32	220V/50Hz	5	± 0.1	15	0.45	0.75	1.5	2.3	590*435*770
CK-4007GD	-40-200	32	220V/50Hz	7	± 0.1	15	0.45	1.24	2.1	3.1	615*505*845
CK-4010GD	-40-200	32	220V/50Hz	10	± 0.1	15	0.45	1.65	2.5	3.5	615*505*895

DC

CONSTANT TEMPERATURE BATH

()
 ± 0.1
 7



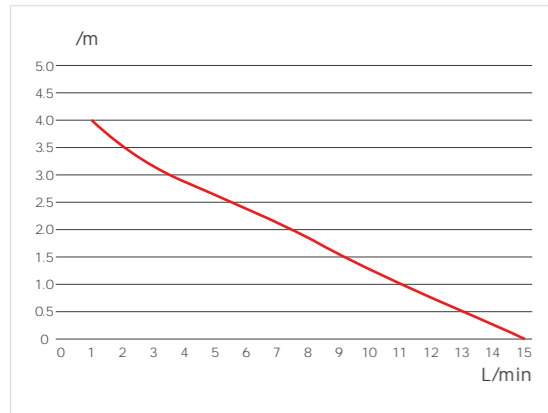
	()	(mm ²)	(mm ³)	(L)	()	(L/min)	(bar)	(25 /kW)	(kW)	(kW/h)	L/W/H(mm)
SDC-6	-5-100	180*140	260*200*140	6	± 0.1	0-15	0.45	0.42	1.0	1.3	390*340*652
DC-1006	-10-100	180*140	260*200*140	6	± 0.1	0-15	0.45	0.32	1.0	1.3	390*340*652
DC-2006	-20-100	180*140	260*200*140	6	± 0.1	0-15	0.45	0.42	1.0	1.4	390*340*652
DC-3006	-30-100	180*140	260*200*140	6	± 0.1	0-15	0.45	0.42	1.0	1.6	455*388*845
DC-4006	-40-100	180*140	260*200*140	6	± 0.1	0-15	0.45	0.48	1.0	1.9	455*388*845
DC-0510	-5-100	180*140	260*200*200	10	± 0.1	0-15	0.45	0.52	1.0	1.3	395*336*715
DC-1010	-10-100	180*140	260*200*200	10	± 0.1	0-15	0.45	0.42	1.0	1.3	395*336*715
DC-2010	-20-100	180*140	260*200*200	10	± 0.1	0-15	0.45	0.62	1.0	1.5	395*336*715
DC-3010	-30-100	180*140	260*200*200	10	± 0.1	0-15	0.45	0.54	1.0	1.5	455*388*845
DC-4010	-40-100	180*140	260*200*200	10	± 0.1	0-15	0.45	0.46	1.0	1.9	455*388*845
DC-0515	-5-100	235*160	300*250*200	15	± 0.1	0-15	0.45	0.76	1.55	2.1	455*388*845
DC-1015	-10-100	235*160	300*250*200	15	± 0.1	0-15	0.45	0.76	1.55	2.1	455*388*845
DC-2015	-20-100	235*160	300*250*200	15	± 0.1	0-15	0.45	0.76	1.55	2.4	455*388*845
DC-3015	-30-100	235*160	300*250*200	15	± 0.1	0-15	0.45	0.73	1.55	2.5	455*430*865
DC-4015	-40-100	235*160	300*250*200	15	± 0.1	0-15	0.45	1.24	1.55	2.5	455*430*865
DC-2020	-20-100	235*160	300*250*260	20	± 0.1	0-15	0.45	1.55	2.5	3.6	455*430*935
DC-0530	-5-100	310*280	440*325*200	30	± 0.1	0-15	0.45	1.80	2.5	3.6	625*500*990
DC-1030	-10-100	310*280	440*325*200	30	± 0.1	0-15	0.45	2.00	2.5	3.7	625*500*990
DC-2030	-20-100	310*280	440*325*200	30	± 0.1	0-15	0.45	2.40	2.5	4.1	625*500*990
DC-3030	-30-100	310*280	440*325*200	30	± 0.1	0-15	0.45	2.50	2.5	4.3	625*500*990
DCW-1015	-10-100	235*160	280*250*220	15	± 0.1	0-15	0.45	0.76	1.0	1.5	725*440*555
DCW-2008	-20-100	235*160	260*200*140	10	± 0.1	0-15	0.45	0.62	1.0	1.4	725*440*555
DCW-3506	-35-100	180*140	260*200*140	7	± 0.1	0-15	0.45	0.75	1.0	1.8	725*440*555
DCW-3510	-35-100	180*140	250*200*200	10	± 0.1	0-15	0.45	0.75	1.0	1.8	725*440*555
DCW-0506	-5-100	180*140	260*200*140	7	± 0.1	0-15	0.45	0.52	1.0	1.4	725*440*555
DCW-4006	-40-100	180*140	260*200*140	7	± 0.1	0-15	0.45	0.75	1.0	1.6	725*440*555

SC

CONSTANT TEMPERATURE BATH

7

± 0.1



	()	(mm ²)	(mm ³)	(L)	()	(L/min)	(bar)	(kW)	(kW)	L/W/H(mm)
SC-5A	+8-95	130*130	260*140*140	5	± 0.1	0-15	0.45	0.75	0.6	380*318*445
SC-15	+8-100	235*160	300*240*200	15	± 0.1	0-15	0.45	1.8	1.55	422*348*500
SC-15A	+8-200	235*160	300*240*200	15	± 0.1		/	1.8	1.55	482*375*490
SC-15B	+8-200	235*160	300*240*200	15	± 0.1	0-15	0.45	1.8	1.55	482*375*490
SC-20	+8-100	310*280	500*300*150	20	± 0.1	0-15	0.45	2.2	1.95	620*395*445
SC-20A	+8-200	310*280	500*300*150	20	± 0.1		/	2.2	1.95	642*404*440
SC-20B	+8-200	310*280	500*300*150	20	± 0.1	0-15	0.45	2.2	1.95	642*404*440
SC-25	+8-100	235*160	280*250*300	25	± 0.1	0-15	0.45	2.2	2.1	410*330*600
SC-25A	+8-200	235*160	280*250*300	25	± 0.1		/	2.8	2.5	450*375*600
SC-25B	+8-200	235*160	280*250*300	25	± 0.1	0-15	0.45	2.8	2.5	450*375*600
SC-30	+8-100	310*280	400*330*230	30	± 0.1	0-15	0.45	2.8	2.5	530*450*525
SC-30A	+8-200	310*280	400*330*230	30	± 0.1		/	2.8	2.5	605*425*490
SC-30B	+8-90	150	300*300	30	± 0.1	6	0.15	2.8	2.5	306*585
SC-30C	+8-200	310*280	400*330*230	30	± 0.1	0-15	0.45	2.8	2.5	605*425*490

GDH

HIGH PRECISION CONSTANT TEMPERATURE BATH

± 0.01 ± 0.02



		(mm ²)	(mm ³)	(L)	()	()	(kW)	(L/min)	L/W/H(mm)
GDH-2006	-20~100	180*140	260*200*140	6	± 0.01	0.001	1	0-15	455*388*845
GDH-4006	-40~100	180*140	260*200*140	6	± 0.01	0.001	1	0-15	455*388*845
GDH-2010	-20~100	180*140	260*200*200	10	± 0.01	0.001	1	0-15	455*388*845
GDH-2015	-20~100	235*160	300*250*200	15	± 0.01	0.001	1.5	0-15	455*388*845
GDH-0530	-5~100	310*280	440*325*200	30	± 0.01	0.001	2.5	0-15	625*500*900
GDH-2030	-20~100	310*280	440*325*200	30	± 0.01	0.001	2.5	0-15	625*500*900
GDH-2008W	-20~100	235*160	280*250*140	8	± 0.01	0.001	1	0-15	725*440*555

GH

HIGH PRECISION CONSTANT TEMPERATURE BATH

± 0.01 ± 0.02



		(mm ²)	(mm ³)	(L)	()	()	(kW)	(L/min)	L/W/H(mm)
GH-15	+8~100	235*160	300*240*200	15	± 0.01	0.001	1.55	0-15	482*375*490
GH-15A	+8~200	235*160	300*240*200	15	± 0.01	0.001	1.55		482*375*490
GH-30	+8~100	310*280	400*330*230	30	± 0.01	0.001	2.5	0-15	605*425*490
GH-30A	+8~200	310*280	400*330*230	30	± 0.01	0.001	2.5		605*425*490

DLBC

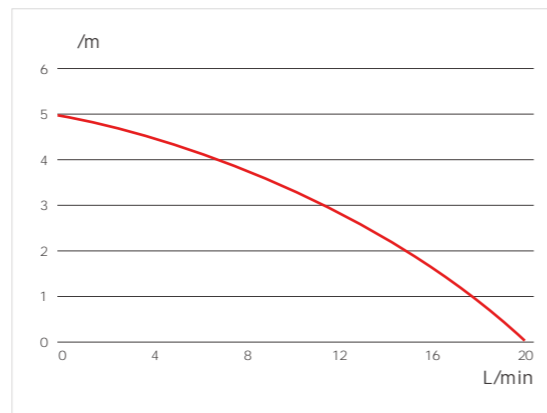
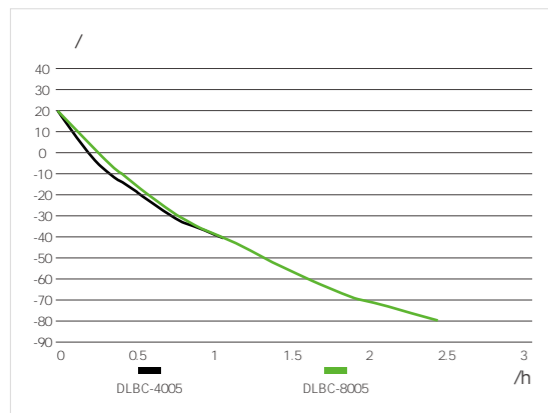
CONSTANT-TEMPERATURE REACTION BATH



PID ± 0.1

DLBC-4005

DLBC-8005



	DLBC-4005	DLBC-8005	DLBC-4010	DLBC-8010	DLBC-4020	DLBC-8020	DLBC-4030	DLBC-8030	DLBC-4050	DLBC-8050	DLBC-4080	DLBC-8080
()	-40-98	-83-98	-40-98	-83-98	-40-98	-83-98	-40-98	-83-98	-40-98	-83-98	-40-98	-83-98
(mm ²)	230 150	230 150	290 200	290 200	290 350	290 350	290 350	290 350	350 400	350 400	500 450	500 450
()	± 0.1	± 0.1	± 0.1	± 0.1	± 0.1	± 0.1	± 0.1	± 0.1	± 0.5	± 0.5	± 0.5	± 0.5
(L)	5	5	10	10	20	20	30	30	50	50	80	80
(kW)	1.2	1.2	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5
(25 Δ)	1420~ 462	1938~ 200	2548~ 980	2900~ 230	3635~ 980	4530~ 360	4080~ 1270	4679~ 422	10256~ 2300	11200~ 1480	10860~ 2830	11670~ 1800
(L/min)	35	35	35	35	35	35	35	35	70	70	70	70
(bar)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
L/W/H(mm)	520 350 720	430 350 960	580 450 730	720 650 900	630 520 1000	940 710 1010	940 710 1010	1030 810 1020	760 610 1030	1030 860 1030	1000 800 1100	1220 830 1350
(kW/h)	1.3	3.19	2.6	3.8	4.8	5.9	5.2	6.1	7.6	9.8	11.4	13.8
	220V/50Hz~1						380V/50Hz~3					