

HICLAVE

AUTOCLAVES, HOT AIR OVENS & INCUBATORS



HIRAYAMA MANUFACTURING CORPORATION

Products shown in this brochure are manufactured by the company, ISO 9001 / 13485 / 14001 certified

Japan

HIGH GRADE HICLAVE

[CE option available]

HG-50/80

The Most Advanced HICLAVE

- * Automatic Open/Close Lid by One Button
- * New Safety Interlock Mechanism
- * Built-in Cooling Fan
- * Programmable Auto-start
- * Programmable Time for Air Removal
- * Large and Efficient Steam Condenser
- * New Body Design with Larger Diameter

Optional Accessories

- F : Floating Sensor
- W : Automatic Water Supply
- P : Digital Printer
- R : Hybrid Chart Recorder



HG-50

HG-80



Model	Chamber volume (Effective capacity)	Chamber size (mm)	Outer dimensions (W×H×Dmm)	Max. Steril. temp.	Cycle mode	Net weight
HG-50	60L (50.2L)	364φ×482D	455×890×691	135℃	4cycle 12memory	62kg
HG-80	85.1L (76L)	364φ×730D	455×1030×691			73kg

HG-113/133 VERTICAL AUTOCLAVES HGS-113/133 WITH STEAM GENERATOR HGD-113/133 WITH VACUUM PUMP & DRY

[With CE]

The Large-sized and Most Advanced HICLAVE

- * Automatic Open/Close Lid by One Button
- * New Safety Interlock Mechanism
- * Programmable Auto-start
- * Programmable Time for Air Removal
- * USB Connectors
- * PT 100Ω Sensor
- * Large capacity with 500φ mm Diameter
- * With Water Cooling (HGS/HGD)
- * Separate Steam Generator (HGS/HGD)
- * Automatic Water Feed (HGS/HGD)
- * AC 380 - 440V, 50/60Hz, 3-Phase

Optional Accessories

- W : Automatic Water Supply (HG-113/133)
- F : Floating Sensor
- P : Digital Printer
- R : Hybrid Chart Recorder



HG-113



HGD-133



Model	Chamber volume (Effective capacity)	Chamber size (mm)	Outer dimensions (W×H×Dmm)	Max. Steril. temp.	Cycle mode	Net weight
HG-113	131.7L(108L)	500φ×552D	686×930×870	135℃	4cycle 12memory	137kg
HGS-113	132.9L(113L)	500φ×576D				153kg
HGD-113		500φ×576D				184kg
HG-133	152.1L(129L)	500φ×656D	686×1034×870	135℃	4cycle 12memory	145kg
HGS-133	153.3L(133L)	500φ×680D				161kg
HGD-133		500φ×680D				192kg

HICLAVE VERTICAL AUTOCLAVES

HV SERIES

[CE option available]

Vertical Autoclaves with Unique Features

- *Electromechanical Lock System
- *Dual-sensing Interlock Mechanism
- *Double-sensing System for Air Removal
- *Programmable Auto-start
- *Process Status Display
- *Process Mode for Agar

Retrofittable Accessories (Any Combination Possible)

- A : Forced Cooling Unit
- F : Floating Sensor
- P : Digital Printer
- W : Automatic Water Supply
- Z : All Combined (A+F+P+W)



Model	Chamber / Effective	Chamber size(mm)	Outer dimensions (W×H×Dmm)	Max. Steril. temp.	Process mode	Net weight
HV-25	28 L (25L)	240φ×550D	485×956×470	126℃	4 mode	41kg
HV-50	54.2L(50L)	300φ×710D	547×1046×532	135℃		57kg
HV-85	98.8L(85L)	420φ×615D	667×1011×652			71kg
HV-110	123.7L(110L)	420φ×795D	667×1191×652			81kg

HVE-50

Economy Type

HVA-85/110

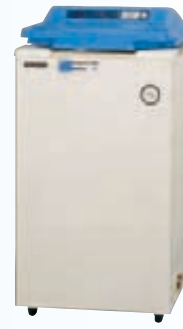
With Cooling Fan



HVE-50

HVP-50

With Vacuum Pump
And Drying Cycle



Model	Chamber / Effective	Chamber size (mm)	Outer dimensions (W×H×Dmm)	Max. Steril. temp.	Process mode	Net weight
HVE-50	54.2L(50L)	300φ×710D	547×1046×532	135℃	3 mode	57kg
HVA-85	98.8L(85L)	420φ×615D	667×1011×652			78kg
HVA-110	123.7L(110L)	420φ×795D	667×1191×652			85kg
HVP-50	54.2L(50L)	300φ×710D	540×1040×630		5 mode	80kg

HICLAVE HORIZONTAL AUTOCLAVES

HRH-110

Full-auto with One-touch Open/Close Lever, Vacuum Pump And Drying Cycle



HRG-112/140

With Vertical Sliding Door

- *Sliding Tray for Easy Loading
- *PT 100Ω sensor
- *With Vacuum Pump & Dry



HRG-112

Optional Accessories

- F: Floating Sensor
- P: Digital Printer
- R: Hybrid Chart Recorder

Model	Chamber volume (Effective capacity)	Chamber size(mm)	Outer dimensions (W×H×Dmm)	Max. Steril. temp.	Cycle mode	Net weight
HRH-110	123.7L(110L)	420φ×795D	690×1385×1150	123℃(135℃)	4 mode	174kg
HRG-112	124.9L(112L)	420φ×810D	691×1374×1048	135℃	4cycle 12memory	213kg
HRG-140	152.6L(140L)	420φ×1010D	691×1374×1248			229kg

BENCHTOP AUTOCLAVES

HRM SERIES "Benchtop Autoclave"

- HRM-222/V With Drying Cycle
- HRM-242II With Drying & Pulse Exhaust
- HRM-242IIP With Drying by Air Pump



HRM-222/V



HRM-242 II



HPM-16 "Portable Autoclave"

- With Drying Cycle
- Multiple Electric Power Source

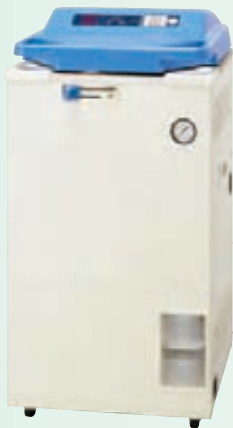


Model	Chamber volume (Effective capacity)	Chamber size (mm)	Outer dimensions (W×H×Dmm)	Steril. temp.	Process mode	Net weight
HPM-16	7L (6L)	160φ×310D	324×292×522	121/135℃	2 mode	12kg
HRM-222/V	13L	220φ×355D	445×385×590	121/132℃		29kg
HRM-242 II	17.2L (16L)	240φ×360D	505×380×535	Max.134℃	3 mode	39kg
HRM-242 IIP						41kg

SPECIAL AUTOCLAVES

HVN-50/85

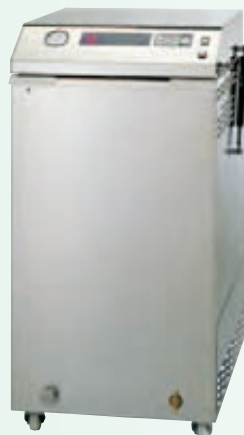
- DEO-AUTOCLAVE
- Exhaust Steam-Free
- Autoclave with Deodorizing



HVN-50

HLM-36

- RETORT STERILIZER
- for Aluminum & Plastic Pack and Closed Bottle
- Sterilization with Water Cooling



HLM-36

HA-305M

- 145°C Sterilization Temp.
- 999min Sterilization Time



HA-305M

HB-305M

- BIOHAZARD PREVENTIVE AUTOCLAVE



HB-305M

Model	Chamber volume (Effective capacity)	Chamber size (mm)	Outer dimensions (W×H×Dmm)	Max. Steril. temp.	Process mode	Net weight
HVN-50	54.2L (50L)	300φ×710D	540×1046×596	135℃	3 mode	73kg
HVN-85	98.8L (85L)	420φ×615D	669×1011×658	128℃ (135℃)		88kg
HLM-36	7.9L (63L)	360φ×620D	602×1064×679	134℃		120kg
HA-305M	32.6L (28L)	300φ×400D	504×1095×697	145℃		80kg
HB-305M	32.6L (28L)	300φ×400D	504×987×697	123℃	1 mode	80kg

HOT AIR OVENS AND INCUBATORS

DON SERIES HOT AIR OVEN

With Digital Temp. Controller
And Digital Timer
Operating Temp. :
40~270°C
(DON-450/650)
50~260°C
(DON-M II series)

Model	Capacity
DON-450 / V	95L
DON-650 / V	155L
DON-800M II	240L
DON-1000M II	420L
DON-1200M II	648L
DON-1200M II/V	750L



DON-450/V

DON-F SERIES FORCED CONVECTION OVEN

With Built-in Circulating Fan
for Uniformity of Temp. distribution
Operating Temp. :
40~270°C

Model	Capacity
DON-350F / V	28L
DON-450F / V	93L
DON-650F / V	150L



DON-650F/V

FIN SERIES INCUBATOR

With Digital Temp. Controller
And Digital Timer
Operating Temp. :
Ambient +5~60°C

Model	Capacity
FIN-310 / V	29L
FIN-410 / V	95L
FIN-610 / V	156L
FIN-800M IV	280L
FIN-1000M IV	420L
FIN-1200M IV	648L
FIN-1400M IV	840L
FIN-1600M IV	1400L



FIN-410/V

FCI SERIES CO₂ INCUBATOR

Air-jacketed CO₂ Incubator,
Designed for Space saving
Two units are Stackable

Model	FCI-164
Effective capacity	163L
Chamber size (W×H×Dmm)	510 x 640 x 500
Outer dimensions (W×H×Dmm)	625 x 915 x 635
Temperature range	Ambient +5~50°C
CO ₂ Density range	0~20%
Net weight	80kg



FA-M SERIES "Anaerorator"

Anaerobic Incubators with Powerful Vacuum Pump
And Precision Electronic Temp. Controller

Model	FA-3M	FA-6M	FA-9M	FA-12M
Outer dimensions (W×H×Dmm)	700×1150×710	900×1150×710	1100×1150×710	1300×1150×710
Capacity by number of model J-45 Jars	3	6	9	12
Capacity by number of 90mmφ petri dishes	45	90	135	180
Capacity by number of 13mmφ test tubes	378	756	1134	1512
Temperature range	Ambient +5~55°C			
Net weight	80kg	90kg	100kg	110kg
Optional accessories	CO ₂ /N ₂ gas cylinder (empty), Cylinder cart, Pressure regulator assembly (valves&gauges), Steel wool, Anaerobic jar as below.			



FA-6M

ANAEROBIC JAR

Model	J-45
Outer size	15φ×45cm
Capacity by number of 90mmφ petri dishes	15
Capacity by number of 13mmφ test tubes	126
Net weight	2.5kg



OPTIONAL ACCESSORIES

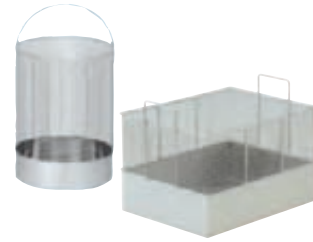
STAINLESS STEEL WIRE BASKETS

Model	Application
WB-3422	HG-50 / HG-80
WB-3430	HG-80
WB-4722	HG-113
WB-4728	HGS/HGD-113
WB-4731	HG-133
WB-2226	HV-25
WB-2823	HV-50, HVE-50
WB-3929	HV-85, HVA-85
WB-3938	HV-110, HVA-110
WB-2121	HA-240MIV
WB-2142	HA-240MIV
WB-2721	HA-300 series
WB-2727	HA-300 series
WB-2756	HA-300 series
WB-3327	HL-36AE / A-DY
WB-3927	HL-42AE / A-DY



STAINLESS STEEL BOTTOMED BASKETS

Model	Application
BB-3345	HG-50
BB-3369	HG-80
BB-2142	HV-25, HA-240MIV
BB-2760	HV-50, HVE-50, HA-300 series
For HRG-112	400W x 290H x 241D
For HRG-140	500W x 290H x 241D



STAINLESS STEEL BUCKETS

Model	Application
SB-3319	HG-50
SB-3319H	HG-50
SB-3327	HG-80
SB-3327H	HG-80
SB-2126	HV-25
SB-2722	HV-50, HVE-50
SB-3929	HV-85, HVA-85
SB-3938	HV-110, HVA-110
SB-2121	HA-240MIV
SB-2721	HA-300 series
SB-2727	HA-300 series
SB-3327	HL-36AE / A-DY
SB-3927	HL-42AE / A-DY



STAINLESS STEEL DRESSING DRUMS

Model	Application
DD-1816	HRM-242 II / IP
DD-2217	HA-240MIV
DD-2718	HRG-112/140, HRH-110, HVP-50, HA-300MD

Model	Application
DC-242	HRM-242 II / IP



STAINLESS STEEL SQUARE WIRE BASKETS

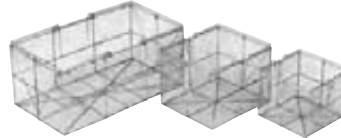
Type	Dimensions (mm)
For HRG-112	390W×240H×280D
For HRG-140	490W×240H×280D
For HRH-110	380W×240H×280D
L	450W×200H×250D
M	250W×180H×220D
S	180W×150H×180D

Model	Application
506054	HPM-16



Hook for BASKET/BUCKET

Model	Application
501032	HV-110



PRIMORDIAL VERTICAL AUTOCLAVES

HA-300MD

With Drying Cycle

HA-300MIV

With Warming Cycle

HA-300MIV



HL-AE SERIES

“Vertical Autoclaves”

HL-A-DY SERIES

With Drying Cycle

HL-42A-DY



Model	Chamber / Effective	Chamber size (mm)	Outer dimensions (W×H×Dmm)	Max. Steril. temp.	Process mode	Net weight
HA-240MIV	28.1L (20L)	240φ×450D	385×845×485	126°C	5 mode	43kg
HA-300MIV	52.6L (47L)	300φ×670D	440×1070×520		4 mode	62kg
HA-300MD	52.6L (47L)	300φ×670D			70kg	
HL-36AE	7.4 L (6.1 L)	360φ×600D	450×1100×450	127°C	1 mode	45kg
HL-36A-DY	7.4 L (6.1 L)	360φ×600D	650×1160×600			47kg
HL-42AE	10.0L (8.3L)	420φ×600D				73kg
HL-42A-DY	10.0L (8.3L)	420φ×600D	75kg			

Specifications and appearance are subject to change without notice due to continuous product improvement.



Manufactured under
ISO 9001 / 13485 / 14001

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