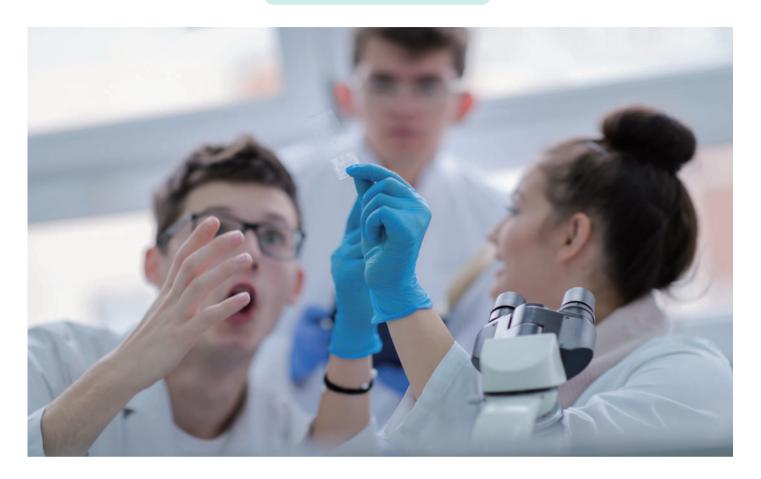# Rotary Evaporator

About us

Innova Bio-Meditech is one of the professional solution provider of laboratory and medical devices. Firmly committed to our mission of "sharing innovative bio-meditech solutions with the world", we are dedicated to innovation in the fields of Biology Project, Life Science, Pharmacy Industry and Medical Treatment.

Innova Bio-Meditech possesses a sound distribution and service network with business partners in North and Latin America, Europe, Africa and Asia-Pacific etc. We have built up a well established R&D, manufacture network with 3 centers in Qingdao, Shanghai and Suzhou. Inspired by the needs of our customers, we adopt advanced technologies and transform them into accessible innovation. This means constant effort and research, in order to more fully understand the developments of the market, INNOVA produce constantly upgraded product ranges by adding new products year after year.

The passion for science

IRE-2000 series Rotary Evaporator (Lab-scale)

| IRE-2000A | IRE-2000B | IRE-2000E |

Introduction

IRE-2000 rotary evaporator is a new generation of intelligent rotary evaporator. The liquid crystal display serves as the human-machine interface of the device. The main control chip adopts a high-performance single-chip microcomputer and a dedicated control program. Beautiful and elegant, stable performance. An upgrade interface is reserved. According to different customer needs, user requirements can be met by upgrading several pieces.

Advantages

- Power supply: AC220V;1kW.
- Temperature range: room temperature-90℃ (not less than 0℃) temperature difference 2C.
- Speed: 5-200rpm; speed difference: earth 2rpm; electronic stepless speed regulation, 5-200rpm, power: 40W.
- Mainframe contact button, fast automatic rise and fall, up and down distance 0-150mm.
- Heating tank: Tetronium compound pot, fully enclosed heater.
- The main component is made of rust-proof aluminum alloy and special engineering plastics, with compact structure, beautiful appearance and durability.

Technical parameters

Model	IRE-2000A	IRE-2000B	IRE-2000E
Glass material	GG-17		
Stand material	Aluminum alloy		
Rotational power	40W		
Speed of rotation	0-200rpm/min		
Heating power	1.2kW		
Temperature control accuracy	±1℃		
Lifting power	15W		
Lifting stroke	0-140mm		
Overall dimension(L×W×H)mm	625x440x600		
Packing size(L×W×H)mm	675x545x655		
Packing Weight(KG)	23KG		
Speed regulation mode	Electronic stepless speed regulation		
Speed display mode	/	Digital display	LCD display
Temperature display mode	Digital display		LCD display
Sealing method	Teflon sealed		
Lifting method	Main engine automatic rise and fall		
Condenser	Vertical condenser 85*375		
Continuous dosing	19# standard port feeding valve		
Vacuum degree	0.098Mpa		
Glass temperature range	-80—250℃		
Pot shell size	285x260x210H(mm)		
Temperature control mode	PT100 sensor LCD display intelligent temperature control		
Pot bladder material	Teflon composite pot fully enclosed heating 285x140		
Collect bottle volume	1000ml φ131mm/35# ball mill mouth		
Rotate bottle volume	1000ml φ131mm/29# maker		
Voltage/Frequency(VHz)	220V/50Hz(110V/60Hz can be customized)		
Bath temperature control range	0-90℃（0-400℃ can be customized）		
Bath pot capacity	φ285×140H(mm)5.6L(can be equipped with organic transparent cover)		

IRE-3000 series Rotary Evaporator (Lab-scale）

| IRE-3000A | IRE-3000B | IRE-3000E |

Advantages

- PTFE and rubber composite seal,maintain high vacuum.
- Aluminum alloy + Teflon water bath liner, aluminum alloy heating plate constant temperature control, PT100 sensor, fast and accurate temperature transmission, optional plexiglass transparent cover.
- The mechanical structure is made of stainless steel and aluminum alloy, and the glass is made of high temperature resistant and high boron glass.
- Piston-type feeding valve is connected to the PTFE extension tube to feed the material to the evaporation bottle under vacuum continuously, convenient to use.
- Electric lifting host,easy to operate.
- Vertical double-layer serpentine coil condenser with high collection rate.
- Electronic speed regulation, knob fine-tuning.Independent control of heating and rotating switch.

Technical parameters

Model	IRE-3000A	IRE-3000B	IRE-3000E
Glass material	GG-17		
Stand material	Aluminum alloy		
Rotational power	40W		
Speed of rotation	0-200rpm/min		
Heating power	1.2kW		
Temperature control accuracy	±1℃		
Lifting power	15W		
Lifting stroke	0-140mm		
Overall dimension(L×W×H)mm	625x440x600		
Packing size(L×W×H)mm	675x545x655		
Packing Weight(KG)	23KG		
Speed regulation mode	Electronic stepless speed regulation		
Speed display mode	/	Digital display	LCD display
Temperature display mode		Digital display	LCD display
Sealing method	Teflon sealed		
Lifting method	Main engine automatic rise and fall		
Condenser	Vertical condenser 85*375		
Continuous dosing	19# standard port feeding valve		
Vacuum degree	0.098Mpa		
Glass temperature range	-80—250℃		
Pot shell size	285x260x210H(mm)		
Temperature control mode	PT100 sensor LCD display intelligent temperature control		
Pot bladder material	Teflon composite pot fully enclosed heating 285x140		
Collect bottle volume	1000ml φ131mm/35# ball mill mouth		
Rotate bottle volume	1000ml φ131mm/29# maker		
Voltage/Frequency(VHz)	220V/50Hz(110V/60Hz can be customized)		
Bath temperature control range	0-90℃（0-400℃ can be customized）		
Bath pot capacity	φ285×140H(mm)5.6L(can be equipped with organic transparent cover)		

IRE-5000 series Rotary Evaporator (Lab-scale）

| IRE-5000A | IRE-5000B | IRE-5000E |

Advantages

- Main components: rust aluminum alloy, special engineering plastics, high temperature resistant high-quality glass. It has compact structure, beautiful appearance and durability.
- Host transmission: precision reduction motor, electronic speed regulation, gear and rack transmission device. The aperture of the drive shaft tube is increased, and the evaporation pipe is 1.5 times that of ordinary instruments, resulting in high evaporation efficiency.
- Lifting mechanism: point-contact mechanical retracting and retracting principle, hydraulic auxiliary push to achieve rapid rise and steady speed descent functions to improve efficiency.
- Evaporation pipe: Made of high-quality high-temperature resistant glass and fluorine plastic composite. Both ends are sleeved with "silicone and fluorine sealing rings" for good vacuum sealing. It has a long service life and can be disassembled for cleaning or replacement.
- Heating tank: Use Teflon aluminum alloy composite pot. The jacket is made of special engineering plastic for protection. The fully enclosed electric heating is installed on a rust-proof aluminum alloy base, which is stable, reliable and removable.

Technical parameters

Model	IRE-5000A	IRE-5000B	IRE-5000E
Glass material	GG-17		
Stand material	Aluminum alloy		
Rotational power	40W		
Speed of rotation	0-200rpm/min		
Heating power	1.5kW		
Temperature control accuracy	±1℃		
Lifting power	15W		
Lifting stroke	0-180mm		
Speed regulation mode	Electronic stepless speed regulation		
Speed display mode	/	Digital display	LCD display
Temperature display mode	Digital display		LCD display
Sealing method	Teflon sealed		
Lifting method	Main engine automatic rise and fall		
Condenser	Vertical condenser 85*375		
Continuous dosing	19# standard port feeding valve		
Vacuum degree	0.098Mpa		
Glass temperature range	—80—250℃		
Pot shell size	285x260x210H(mm)		
Temperature control mode	0.09PT100 sensor LCD display intelligent temperature control8Mpa		
Pot bladder material	Teflon composite pot fully enclosed heating 285x140		
Collect bottle volume	3000m φ230mm/35# ball grinding mouth		
Rotate bottle volume	5000ml φ230mm/φ50mm# flange mouth		
Voltage/Frequency(VHz)	220V/50Hz(110V/60Hz can be customized)		
Bath temperature control range	0-90℃（dual use of water and oil）		
Bath pot capacity	Φ250×140H(mm)8.6L(can be equipped with organic transparent cover)		
Overall dimension(L×W×H)mm	790L×400W×640H		
Packing size(L×W×H)mm	710L×635W×735H		
Packing Weight(KG)	43KG		

IRE-2011/2012 Desktop Rotary Evaporator (Lab-scale）

IRE-2011

IRE-2012

Application

Rotary evaporation apparatus is mainly used for continuous distillation under reduced pressure a number of easily volatile solvent. In particular, receive the extract concentration and separation liquid distillation, separation and purification of the reaction product can be.

Technical parameters

Model		IRE-2011	IRE-2012
Performance	String speed	0-120rmp	0-300rpm
	Evaporation capacity	Max 25ml/min(Evaporation capacity of water)	Max 20ml/min(Evaporation capacity of water)
	Attainable vacuum	399.9Pa(3mm Hg)following	
Fuction	Speed setter	Knob setting:digital display	
	Safety function	Fuse, motor overload protection circuit	
	Lifting function	Manual lifting	Electric lifting+manual auxiliary lifting
Constitute	Rotating motor	Alternating current dynamo	Stepping motor
	Rotating motor power	40W	45W
	Condenser tube	Longitudinal triple coil cooling area 0.24 ㎡	
	Sample bottle	Spherical flask 1L TS29/38	Pear flask 1L TS29/38
	Rotate bottle	Spherical flask 1L ball milling port S35/20	
	Vacuum sealing ring	Teflon + Teflon fluorinated rubber double sealing ring	
Specifications	Interface diameter	The nozzle diameter 10mm (tower connection)	
	The base	T-frame	
	Lifting range	100mm +150mm (sliding lifting + manual lifting)	100mm +115mm (sliding lifting + manual lifting)
Use environment temperature		5~35℃	5~30℃
Overall dimension(mm)		530W×320D×780H	620W×430D×680（780）H
Weight		8.2kg	26kg
Power input power		2A/200VA	2A/220VA
Power supply		AC220V/50Hz	AC220V/50Hz

IRE-52 series Classic Desktop Rotary Evaporator (1L）

IRE-52A/52C/5299

Introduction

IRE-5299，IRE-52C motor have 10-120rpm infinite speed adjustment and automatic lifting function.Rotatino body compesed a group reliable micro motor speed measuring motor and integrated circuit control decive.Under the effect of ectronic speed, steady rotaion within 10-120 rpm.Rotating body move up and down system use screwhoist hand wheel which connect the screwpole, it can be make rotator, flask, condenser, receiving flask raised and lowered at the same time.Distance range：0-150mm.

Advantages

- PTFE and rubber composite seal, high vacuum degree.
- Constant temperature control of water bath pot, bottom PT100 sensor, stainless steel probe rod, fast and accurate temperature transfer.
- Mechanical structure is made of stainless steel and aluminum alloy parts,the glass parts are high temperature resistant and high boron glass.
- The piston-type feeding valve is connected to the PTFE extension tube, and the material is continuously fed to the evaporation bottle under vacuum, convenient to use.
- Vertical double-layer serpentine coil condenser ensures high collection rate.

Technical parameters

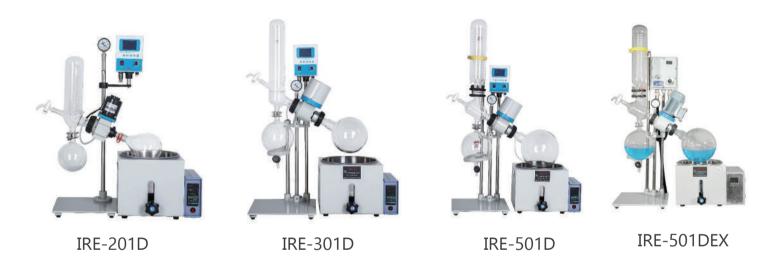| Model	IRE-52A	IRE-52C	IRE-5299
Supply vollage	220V/50Hz(customizable 110V/60Hz)		
Motor power	30W	30W	30W
Lift motor power	/	15W	
Heating power	1200W		
Attainable vacuum	0.098Mpa		
Evaporation capacity	20ml/min		
Rotate bottle volume	1000mlφ131mm/29# standard port		
Collect bottle volume	1000ml35# ball grinding mouth		
Pot shell size	300L×300W×200H(mm)	300L×300W×200H(mm)	300L×300W×260H(mm)
Condenser size	φ85×375H（mm）		
Bath pot size	φ250×130H(mm) about 8.6L		
Rotation speed	0-120rpm/min 0-120pm/min		
Bath temperature control range	0-400℃	0-400℃	room temperature -99℃
Bath pot capacity	±1℃	±1℃	±1℃
Glass temperature range	-80-250℃	-80-250℃	-80-250℃
Lifting range	0-150mm(manual)	0-150mm(electric)	
Feeding valve	19# standard port		
Condenser size	φ85×375H(mm)		
External dimension	700L×450W×750H(mm)		
Packing size.	580L×550W×660H(mm)		
Packing weight	24KG	25KG	14.5KG

IRE-D series Classic Desktop Rotary Evaporator (2-5L）

Introduction

INNOVA rotary evaporator is mainly used in pharmaceutical, chemical and biological pharmaceutical industry concentration, crystalizaton,separation,drying and solvent recovery.The principle is that under vacuum conditions, constant temperature heating causes the rotating bottle to rotate at a constant speed.The material forms a large area film on the bottle wall and evaporates efficiently.The solvent vapor is cooled by a high-efficiency glass condenser and recovered in the collection bottle, which greatly improves the evaporation efficiency. It is especially suitable for the concentration and purification of biological products that are easily decomposed and denatured at high temperatures.

IRE-501DEX equipped with explosion-proof control speed box,explosion-proof speed motor, explosion-proof water bath control box.Explosion-proof grade ExdIIBT4,independent operation display of speed and temperature.

| IRE-201D | IRE-301D | IRE-501D | IRE-501DEX |

Technical parameters

Model	IRE-201D	IRE-301D	IRE-501D	IRE-501DEX
Supply vollage	220V/50Hz(customizable 110V/60Hz)			
Motor power	30W	40W	40W	40W
Heating power	1200W	1500W	1500W	1500W
Attainable vacuum	0.098Mpa			
Evaporation capacity	20ml/min	30ml/min	30ml/min	30ml/min
Rotate bottle volume	1000mlφ131mm/ 29# standard port	3000mlφ195mm/ 50φ flange sport	5000mlφ230mm/ 50φ flange sport	5000mlφ230mm/ 50φ flange sport

Technical parameters

Model	IRE-201D	IRE-301D	IRE-501D	IRE-501DEX
Collect bottle volume	1000ml 35# ball milling port	2000ml 35# ball milling port	3000ml 35# ball milling port	3000ml 35# ball milling port
Pot shell size	360L×330W× 260H(mm)	390L×360W× 260H(mm)	Φ280×160H(mm)	Φ280×160H(mm)
Condenser size	Φ85×375H(mm)	Φ85×375H(mm) about 0.2m²	360L×330W× 260H(mm)	360L×330W× 260H(mm)
Bath pot size	Φ250×160H(mm) about 8.6L	Φ280*160(H) about 8.6L	Φ85×480H(mm) about 0.25m²	Φ85×480H(mm) about 0.25m²
Rotation speed	0-90 rpm/min			
Bath temperature control range	Room temperature-99℃			
Temperature control accuracy	±1℃			
Glass temperature range	-80-250℃			
Lifting range	0-150mm(manual)			
Feeding valve	19# standard port			
Condenser circulation interface	Tower connection 12mm			
External dimension	760L×410W× 800H(mm)	760L×380W× 970H(mm)	790L×380W× 1180H(mm)	790L×380W× 1180H(mm)
Packing size	900L×500W× 450H(mm)	1000L×630W× 420H(mm)	1002L×600W× 450H(mm)	1002L×600W× 450H(mm)
Packing weight	24Kg	47Kg	33Kg	33Kg

IR-202A Desktop Rotary Evaporator(1L)

Advantages

- PTFE and rubber composite seal, high vacuum.
- Water bath constant temperature control, PT100 sensor and stainless steel probe, transmit temperature quickly and accurately.
- Large number of stainless steel and aluminum alloy parts, glass parts resistant to high temperature and high boron glass.
- Vacuum gauge（standard）be able to adjust the best vacuum of low boiling point materials.
- Piston-type feeding valve,connected to the PTFE extension tube.Continuously feed the material to the evaporation bottle under vacuum, making it easy to use.
- Manual pressure bar up and down, with self-locking ability, easy to operate.
- Vertical double-layer serpentine coil condenser with high collection rate.
- Electronic speed regulation, knob fine-tuning. Heating and rotating switch are controlled independently.

IRE-202A

Technical parameters

Model	IRE-202A
Supply vollage	220V/50Hz(customizable 110V/60Hz)
Motor power	40W
Heating power	1500W
Attainable vacuum	0.098Mpa
Evaporation capacity	20ml/min
Rotate bottle volume	1000mlφ131mm/29# standard port
Collect bottle volume	1000ml 35# ball grinding mouth
Condenser size	φ85×375H（mm）
Bath pot size	φ250×140H(mm)about 8.6L
Rotation speed	0-120pm/min
Bath temperature control range	Room temperature-99℃
Temperature control accuracy	±1℃
Glass temperature range	-80-250℃
Lifting range	0-150mm （electric）
Feeding valve	19# standard port
Condenser circulation interface	Tower connection 12mm
External dimension	700L×450W×750H（mm）
Packing size	580L×540W×660H（mm）
Packing weight	21KG

IRE-series Rotary Evaporator (Pilot-scale)

Introduction

Large capacity and large opening of evaporating flask give larger evaporation surface.The evaporating flask keepsrotating when it is constantly heated by water bath, and solvent evaporates more efficiently under vacuum conditionit can be used for pilot-scale production in biology engineering, pharmaceutical industry, chemical industry and foodprocessing.It usually works with water circulating vacuum pump, diaphragm vacuum pump, recirculating chiler, constanttemperature circulator, low temperature circulating pump, etc.
IRE-2010A/2020A/2030A/2050A all can be equipped with explosion-proof devices.

Application

International advanced EL air tight system, high vacuum degree. Gas-liquidseparation,no reflux.
Primary and secondary efficient double condenser ,high recovery.
Rotary bottle with nut connection for easy loading and unloading.
Drain valve at the bottom of the collection bottle,quick solution recovery
The collection bottle is equipped with a vacuum check valve between the secondary condenser, and the evaporation vacuum can be continuously fed without affecting the liquid discharge.
Vacuum meter, low boiling point material can adjust the best vacuum degree.
Water bath electronic thermostat control, up and down abjustable.
Mechanical structure adopts stainless steeland aluminum alloy parts. A lass parts are made of high temperature resistant borosilicate glass.Electrical key parts import,users-friendly to purchase and replace.

IRE-2010A/2020A/2030A/2050A   IRE-2010AEX/2020AEX/2030AEX/2050AEX

Technical parameters

Model	IRE-2010A(EX)	IRE-2020A(EX)	IRE-2030A(EX)	IRE-2050A(EX)
Supply vollage	220V/50Hz(customizable 110V/60Hz)			
Motor power	90W	120W	180W	180W
Heating power	3000W	5000W	8000W	8000W
Attainable vacuum	0.098Mpa	0.098Mpa	0.098Mpa	0.098Mpa
Rotate bottle volume	10Lφ290mm/ φ95mm flange mouth	20Lφ360mm/ φ95mm flange mouth	30Lφ125mmφ125mm flange mouthh	50Lφ470mmφ25mm flange mouth
Collect bottle volume	5000mlφ235mm/ φ50mm flange mouth	10000mlφ290mm/ φ60mm flange mouth	20000mlφ60mm flange mouth	20000mlφ360mm φ60mm flange mouth
Bath size capecity	500L×600W×680H(mm)	600L×650W×680H(mm)	650L×570W×800H(mm)	700L×750W×800H(mm)
Base plate size	450L×500W(mm)	500L×530W(mm)	600L×800W(mm)	600L×800W(mm)
Condenser size	Main coolingφ 120×600H(mm) Subcooledφ 135×470H(mm)	Main coolingφ 130×680H(mm) Subcooledφ 160×550H(mm)	Main coolingφ 160×750H(mm) Subcooledφ 160×550H(mm)	Main coolingφ 130×750H(mm) Subcooledφ 160×550H(mm)
Temperature measuring port	Φ19 mark	Φ19 mark	Φ19 mark	Φ19 mark
Rotation speed	0-120rpm/min	0-120rpm/min	0-120rpm/min	0-120rpm/min
Evaporation capacity	6L/h	6.5L/h	7L/h	8L/h
Bath temperature control range	Room temperature -99℃			
Temperature control accuracy	±1℃			
Glass temperature range	-80-250℃			
Lifting range	0-170mm （manual）			
Feeding valve	34# standard port		40# standard port	
Bleed valve	Φ50 flange mouth teflon discharge valve			
Discharge valve	Discharge valve			
External dimension	1100L×500W×1900H(mm)	1100L×500W×1900H(mm)	1200L×650W×2200H(mm)	1200L×650W×2200H(mm)
Packing size	Pot: 700L×610W×700H(mm) Glass: 700L×550W×550H(mm) Shelf: 1250L×350W×390H(mm)	Pot: 700L×610W×700H(mm) Glass: 700L×550W×550H(mm) Shelf: 1250L×350W×390H(mm)	Pot: 920L×860W×840H(mm) Glass: 970L×840W×610H(mm) Shelf: 1570L×460W×400H(mm)	Pot: 920L×860W×840H(mm) Glass: 970L×840W×610H(mm) Shelf: 1570L×460W×400H(mm)
Packing weight	Glass:33Kg Shelf:46.5Kg Pot:42Kg	Glass:36Kg Shelf:46.5Kg Pot:45Kg	Glass:45Kg Shelf:57Kg Pot:96Kg	Glass:49Kg Shelf:57Kg Pot:100Kg

IR-series Rotary Evaporator（Pilot-scale）

IR-1005（EX）

IR-1010/20/50（EX）

Introduction

IR-series rotary evaporator heats the water bath of the rotating bottle, presets the rotating speed of the bottle,evaporates the solvent.And then cools, separates or distilles the material through a vacuum cooling unit composed of a condenser and a vacuum acquisition device.It can be combined with circulating water multi-purpose vacuum pump and circulating cooler to meet the requirements of production or experiment.

IR-1010/1020/1050 can be equipped with explosion-proof devices.

Application

PTFE and rubber composite seal, high vacuum.

Constant temperature control of water bath pot, PT100 sensor, stainless steel probe rod, fast and accurate temperature transfer, water discharge valve is arranged at the bottom of the pot to facilitate the discharge of liquid.

Main support cold plate anti-corrosion spray and aluminum alloy material, strong anti-corrosion, anti-oxidation.

Pot gallbladder is made of 304 stainless steel once stamping molding material, which is durable.

Glass parts are made of high boron glass with high temperature expansion coefficient of 3.3.

Vacuum meter, the pointer shows the vacuum.

The piston-type feeding valve is connected to the PTFE extension tube to continuously feed the material to the evaporation bottle under vacuum.

LCD displays the temperature and rotation speed,and the buttons control the up and down

movements,operate easily.

Main unit is fixed, and the water bath is lifted and lowered electrically, with stable speed, no impact, and simple operation.

Equipped with silicone gel cover, heat insulation and anti-scalding, safe operation.

Silicone gel cover, heat insulation and anti-scalding.

Vertical double-layer serpentine coil condenser ensures high collection rate.

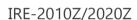Brushless deceleration power-increasing motor, no spark, low noise.

Technical parameters

Model	IR-1005	IR-1010(EX)	IR-1020(EX)	IR-1050(EX)
Supply vollage	220V/50Hz(customizable 110V/60Hz)			
Motor power	150W	250W	250W	400W
Bath voltage	220V/50HZ	220V/50HZ	220V/50HZ	380V/50HZ
Heating power	1.5KW	5KW	5KW	7.5KW
Total Power	1.8KW	5.3KW	5.3KW	8KW
Collect bottle volume	5000mlφ235mm/φ50mm flange mouth	10000mlφ290mm/φ60mm flange mouth	20000mlφ60mm flange mouth	20000mlφ360mm φ60mm flange mouth
Bath size capecity	500L×600W×680H(mm)	600L×650W×680H(mm)	650L×570W×800H(mm)	700L×750W×800H(mm)
Base plate size	450L×500W(mm)	500L×530W(mm)	600L×800W(mm)	600L×800W(mm)
Condenser size	Main coolingφ 120×600H(mm) Subcooledφ 135×470H(mm)	Main coolingφ 130×680H(mm) Subcooledφ 160×550H(mm)	Main coolingφ 160×750H(mm) Subcooledφ 160×550H(mm)	Main coolingφ 130×750H(mm) Subcooledφ 160×550H(mm)
Temperature measuring port	Φ19 mark	Φ19 mark	Φ19 mark	Φ19 mark
Rotation speed	0-120rpm/min	0-120rpm/min	0-120rpm/min	0-120rpm/min
Evaporation capacity	6L/h	6.5L/h	7L/h	8L/h
Bath temperature control range	Room temperature -99℃			
Temperature control accuracy	±1℃			
Glass temperature range	-80-250℃			
Lifting range	0-170mm （manual）			
Feeding valve	34# standard port		40# standard port	
Bleed valve	Φ50 flange mouth teflon discharge valve			
Discharge valve	Discharge valve			
External dimension	1100L×500W×1900H(mm)	1100L×500W×1900H(mm)	1200L×650W×2200H(mm)	1200L×650W×2200H(mm)
Packing size	Pot: 700L×610W×700H(mm) Glass: 700L×550W×550H(mm) Shelf: 1250L×350W×390H(mm)	Pot: 700L×610W×700H(mm) Glass: 700L×550W×550H(mm) Shelf: 1250L×350W×390H(mm)	Pot: 920L×860W×840H(mm) Glass: 970L×840W×610H(mm) Shelf: 1570L×460W×400H(mm)	Pot: 920L×860W×840H(mm) Glass: 970L×840W×610H(mm) Shelf: 1570L×460W×400H(mm)
Packing weight	Glass:33Kg Shelf:46.5Kg Pot:42Kg	Glass:36Kg Shelf:46.5Kg Pot:45Kg	Glass:45Kg Shelf:57Kg Pot:96Kg	Glass:49Kg Shelf:57Kg Pot:100Kg

IRE-Z series Rotary Evaporator (Pilot-scale)

IRE-2010Z/2020Z

IRE-2050Z

Introduction

IRE-Z series of novel floor-standing rotary evaporators adopt large-capacity and large-diameter rotary evaporation bottles. Increase the evaporation area, place it in a water bath under reduced pressure, and heat it while rotating to make the solution diffuse and evaporate efficiently. Widely used in large-scale concentration, drying, extraction, and recovery of samples. It is an ideal equipment for mass production in chemical industry, medicine, food, environmental protection, colleges and universities, scientific research laboratories, industrial and mining units, etc.

Technical parameters

Model	IRE-2010Z	IRE-2020Z	IRE-2050Z
Supply vollage	220V/50Hz(customizable 110V/60Hz)		
Motor power	120W	120W	370W
Bath voltage	220V/50Hz or 380V/50Hz		
Heating power	5000W	5000W	5000W
Thermometer port	Φ19 mark		
Attainable vacuum	0.098Mpa		
Evaporation capacity	6L/h	6.5L/h	8L/h
Rotate bottle volume	10L φ290mm/φ125mm flange port	20L φ360mm/φ125mm flange port	50L φ470mm/φ125mm flange port

Technical parameters

Model	IRE-2010Z	IRE-2020Z	IRE-2050Z
Collect bottle volume	5000ml φ235mm/ φ50mm flange port	10000ml φ290mm/ φ60mm flange port	20000ml φ360mm/ φ60mm flange port
Bath size capecity	Φ420×250H（mm）	Φ420×250H（mm）	Φ540×320H（mm）
Condenser size	Vertical high-efficiency three-reflux condensation Φ130×700H（mm）	Vertical high-efficiency three-reflux condensation Φ160×800H（mm）	Vertical high-efficiency three-reflux condensation Main coolingΦ160×750H(mm) SubcooledΦ160×550H(mm)
Rotation speed	0-120rpm/min	0-120rpm/min	0-120rpm/min
Bath temperature control range	Room temperature -99℃		
Temperature control accuracy	±1℃	±1℃	±1℃
Protect	Owercurrent protection, ground fault protection, overtemperature protection		
Glass temperature range	-80-250℃		
Lifting range	0-180mm(maual）	0-180mm(electric)	0-180mm(electric)
Feeding valve	34# standard port		40# standard port
Bleed valve	Φ50Flanged tetrafluorotop discharge valve		
Discharge valve	Discharge valve		
Vacuum air outlet	Vacuum air outlet		
External dimension	1100L×600W×1720H(mm)	1100L×600W×1720H(mm)	1300L×700W×2350H(mm)
Packing size	Glass 850L×700W×550H(mm) Host 950L×610W×1250H(mm)	Glass 850L×700W×550H(mm) Host 950L×610W×1250H(mm)	Glass 970L×840W×610H(mm) Host 1220L×760W×1560H(mm)
Packing weight	Glass 30KG Host 110KG	Glass 30KG Host 110KG	Glass 50KG Host 175KG