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**Технические характеристики на  
настольные охлаждаемые инкубаторы,  
программируемые, с фотопериодическим  
контролем JSBI, аксессуары  
КОМПАНИИ JSR**

# JSBI-Series

**PROGRAMMABLE  
with LIGHT  
TABLETOP  
REFRIGERATED  
INCUBATOR**

0 °C ~ 70 °C

JSBI-xxCPL series Programmable Tabletop Refrigerated Incubator provides 10 Steps of temperature programming with photoperiodic day and night light simulation control or constant temperature with light ON/OFF operation. Temperature range from +0 °C to +70 °C. Suitable for incubation of microorganisms needs temperature and light at the same time and various test for food and packaging test on QA / QC labs.



JSBI-100CPL Programmable with Light  
Tabletop Refrigerated  
Incubator, 100 liter

## # Features

### Performance

Temperature Range : 0 °C to 70 °C

Temperature Accuracy : within +/- 0.2 °C

Temperature Uniformity : within +/- 0.5 °C

Forced air convection for excellent thermal accuracy and uniformity.

Aero-dynamic chamber designed with circulation blower to achieve superior thermal uniformity.

Separated heating and cooling compartment located on the back wall for contamination free and maintenance free.

Hermetically Sealed Air Cooled Compressor

### Construction

Durable epoxy powder coated metallic casing.

Corrosion resistant Stainless Steel 304 chamber with seamless round cornered edge allows easy cleaning and prevents leakage.

Tempered Safety Inner Glass Door for easy observation of samples.

### Convenience

Outer door with self-adhesive magnetic packing.

Inner Glass Door with high density silicone gasket and air-tight Door Lock.

Removable and adjustable shelf by 25mm spacing.

### Safety

DUAL OVER TEMPERATURE CUT-OFF BY CONTROLLER AND INDEPENDENT THERMOSTAT

HIGH TEMPERATURE CUT-OFF AND AUDIO VISUAL ALARM

LOW TEMPERATURE CUT-OFF AND AUDIO VISUAL ALARM

PT SENSOR SHORT OR DISCONNECTION AUDIO VISUAL ALARM

OVER CURRENT CUT-OFF

Featured Controller

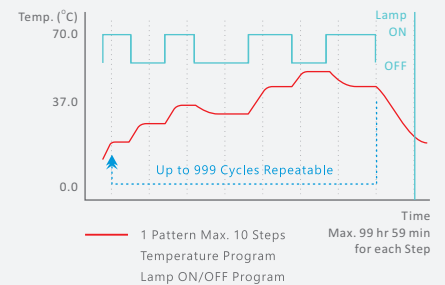
# JIC-CON 5<sup>th</sup> GEN

## Controller Highlights

- ▶ 16-bit Digital Microprocessor PID Controller.
- ▶ High-fidelity clear back light LCD displays complete settings and operating conditions with high readability.
- ▶ UV Coated Water-Proof Polycarbonate Touch Panel.
- ▶ Easy-to-use Encoder Type Jog Dial for quick and convenient temperature and time setting.
- ▶ 0.1 °C control resolution.
- ▶ Turn-On and Turn-Off Timer up to 99 hour 59 min.
- ▶ Temperature and Timer memory function.
- ▶ 10 Step, 999 Cycle Program.
- ▶ 10 Step Light ON/OFF Program.
- ▶ Temperature and Timer automatically resume after power restoration.
- ▶ Class A Pt-100 Ohm Sensor.
- ▶ RS-232C PC Communication Interface. [OPTION]

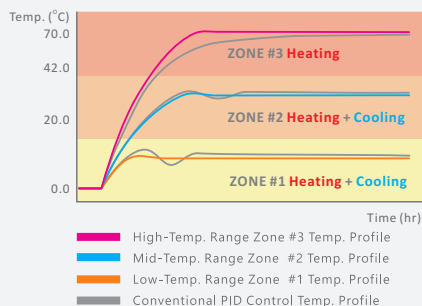
- 3-ZONE PID Algorithm**
- 3-Point Calibration**
- 1-Point Offset**
- 10-Step 999-Cycle Program**
- 10-Step Day-Night Program**

### 10 Step Program



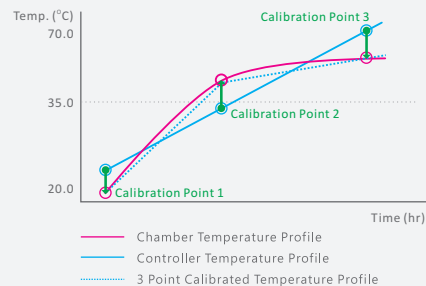
User can create 10 Steps of varying temperature and Lamp ON/OFF program and save it in memory for repeated use. Program can be repeated up to Max. 999 Cycles.

### 3-ZONE PID Algorithm



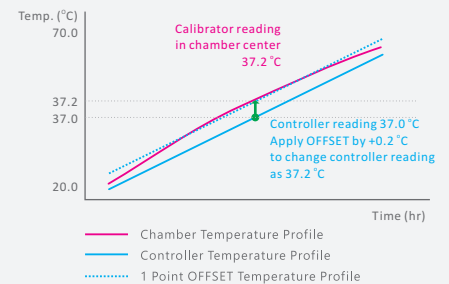
Complete temperature range is divided into three zones (LOW/MIDDLE/HIGH) and each ZONE has its individual PID algorithm to provide precise and superior temperature control characteristic of whole temperature range.

### 3-Point Calibration



An excellent calibration tool to calibrate chamber at THREE DIFFERENT TEMPERATURE POINTS to adjust multiple temperature bias to increase temperature accuracy of WHOLE TEMPERATURE RANGE.

### 1-Point Offset



Provides simple and easy calibration tool to calibrate chamber at ONE SPECIFIC TEMPERATURE POINT of frequent use.



# # Specifications

## Model

JSBI-050CPL

JSBI-100CPL

## Dimension Data

Chamber Volume	50 Liters	100 Liters
Inner Dims. (WxDxH) mm	400 x 360 x 350	450 x 450 x 500
Outer Dims. (WxDxH) mm	580 x 600 x 770	630 x 690 x 920
Window Dims. (WxH) mm	461 x 477	461 x 677
No. of Shelf Positions	10 ea	16 ea
No. of Shelf Included	2 ea	2 ea

## Performance Data

Heating & Cooling System	Forced Convection with Hermetically Sleaed Air Cooled Compressor	
Temperature Range	0°C to 70°C, 0.1°C resolution	
Temperature Accuracy at 20.0°C	+/- 0.2°C	
Temperature Uniformity at 20.0°C	+/- 0.5°C	

## Controller

Type	Digital Microprocessor PID Temp. Controller with Capacitive Touch Button and Jog Dial	
Display	Full Size Digital Back Light Graphic LCD Display	
Control Logic	3 Group Zone PID Control	
Calibration	1 Point Temperature Offset 3 Point Temperature Calibration	
Temp. and Light Program	1 Pattern, 10 Steps, 1 ~ 999 ( Unlimited ) Times Repeatable, Light ON/OFF	
Auto-Start Timer	Max. 99 hr 59 min by 1 min resolution	
Auto-Stop Timer	Max. 99 hr 59 min by 1 min resolution	
Sensor	Class A Pt-100 Ohm Sensor	
Power Restoration	Power and Timer Restoration Function in case of power outage	
Communication Interface	RS-232C Communication Interface [OPTION]	

## Material Data

Body	Epoxy Powder Coated Steel	
Chamber	Stainlss Steel 304 (AISI304)	
Inner Glass Door	5.0 mm Thick Tempered Safety Glass Door	

## Safety Data

Safety Device	Door Open / Over Temperature / Over Cooling / Over Current Protection Audio Visual Alarm	
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## Electrical Data

Power Requirement	220 +/- 10% VAC   50/60 Hz   1 Phase	
Power Consumption	1.2 kW 5.5 amp	1.3 kW 6.0 amp
Plug Configuration	CEE 7/7 Schuko or BS 1363	

## Usable Condition

Temp. & Humidity	5°C - 40°C, 80% RH Max.	
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# JSBI-Series

PROGRAMMABLE  
with LIGHT  
TABLETOP  
REFRIGERATED  
INCUBATOR  
0 °C ~ 70 °C

## # Ordering Information

Art. Number	Descriptions
JSBI-050CPL	Tabletop Refrigerated Incubator 50 Liter 220 VAC 1 ph 50/60Hz Programmable Controller with LED Light
JSBI-100CPL	Tabletop Refrigerated Incubator 100 Liter 220 VAC 1 ph 50/60Hz Programmable Controller with LED Light

## Accessories

### Shelves

PHS-A23	Perforated Shelf, Stainless Steel 304, for JSBI-050CPL W370 x D340 mm
PHS-A24	Perforated Shelf, Stainless Steel 304, for JSBI-100CPL W420 x D430 mm
PHS-C09	Wire Shelf, PVC Coated, for JSBI-050CPL W370 x D340 mm
PHS-C10	Wire Shelf, PVC Coated, for JSBI-100CPL W420 x D430 mm
PHS-A99	Shelf Support, Set of 4 ea



# JSBI-Series

## PROGRAMMABLE TABLETOP REFRIGERATED INCUBATOR

0 °C ~ 70 °C

JSBI-xxCP series Programmable Tabletop Refrigerated Incubator provides 10 Steps of temperature programming or constant temperature operation range from +0 °C to +70 °C for more versatile use. It gives excellent performance for incubation of microorganisms, BOD (Biological Oxygen Demand) Test and various QA / QC Tests.

### # Features

#### Performance

Temperature Range : 0 °C to 70 °C

Temperature Accuracy : within +/- 0.2 °C

Temperature Uniformity : within +/- 0.5 °C

Forced air convection for excellent thermal accuracy and uniformity.

Aero-dynamic chamber designed with circulation blower to achieve superior thermal uniformity.

Separated heating and cooling compartment located on the back wall for contamination free and maintenance free.

Hermetically Sealed Air Cooled Compressor

#### Construction

Durable epoxy powder coated metallic casing.

Corrosion resistant Stainless Steel 304 chamber with seamless round cornered edge allows easy cleaning and prevents leakage.

Tempered Safety Inner Glass Door for easy observation of samples.

#### Convenience

Outer door with self-adhesive magnetic packing.

Inner Glass Door with high density silicone gasket and air-tight Door Lock.

Removable and adjustable shelf by 25mm spacing.

#### Safety

DUAL OVER TEMPERATURE CUT-OFF BY CONTROLLER AND INDEPENDENT THERMOSTAT

HIGH TEMPERATURE CUT-OFF AND AUDIO VISUAL ALARM

LOW TEMPERATURE CUT-OFF AND AUDIO VISUAL ALARM

PT SENSOR SHORT OR DISCONNECTION AUDIO VISUAL ALARM

OVER CURRENT CUT-OFF



JSBI-100CP Programmable Tabletop  
Refrigerated Incubator, 100 liter



Featured Controller

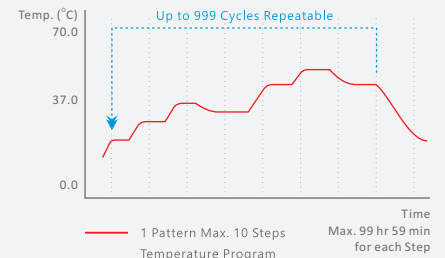
# JIC-CON 5<sup>th</sup> GEN

**3-ZONE PID Algorithm**  
**3-Point Calibration**  
**1-Point Offset**  
**10-Step 999-Cycle Program**

## Controller Highlights

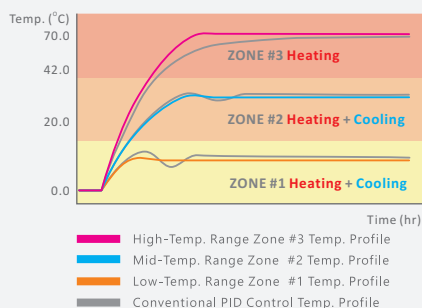
- ▶ 16-bit Digital Microprocessor PID Controller.
- ▶ High-fidelity clear back light LCD displays complete settings and operating conditions with high readability.
- ▶ UV Coated Water-Proof Polycarbonate Touch Panel.
- ▶ Easy-to-use Encoder Type Jog Dial for quick and convenient temperature and time setting.
- ▶ 0.1 °C control resolution.
- ▶ Turn-On and Turn-Off Timer up to 99 hour 59 min.
- ▶ Temperature and Timer memory function.
- ▶ 10 Step, 999 Cycle Program.
- ▶ Temperature and Timer automatically resume after power restoration.
- ▶ Class A Pt-100 Ohm Sensor.
- ▶ RS-232C PC Communication Interface. [OPTION]

### 10 Step Program



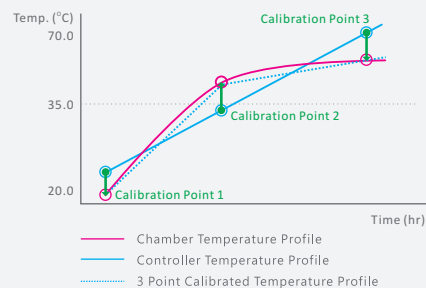
User can create 10 Steps of varying temperature program and save it in memory for repeated use. Program can be repeated up to Max. 999 Cycles.

### 3-ZONE PID Algorithm



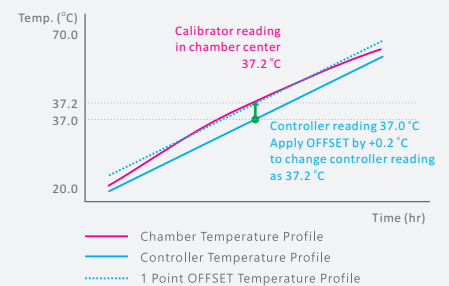
Complete temperature range is divided into three zones (LOW/MIDDLE/HIGH) and each ZONE has its individual PID algorithm to provide precise and superior temperature control characteristic of whole temperature range.

### 3-Point Calibration



An excellent calibration tool to calibrate chamber at THREE DIFFERENT TEMPERATURE POINTS to adjust multiple temperature bias to increase temperature accuracy of WHOLE TEMPERATURE RANGE.

### 1-Point Offset



Provides simple and easy calibration tool to calibrate chamber at ONE SPECIFIC TEMPERATURE POINT of frequent use.



## # Specifications

### Model

JSBI-050CP

JSBI-100CP

### Dimension Data

Chamber Volume	50 Liters	100 Liters
Inner Dims. (WxDxH) mm	400 x 360 x 350	450 x 450 x 500
Outer Dims. (WxDxH) mm	580 x 600 x 770	630 x 690 x 920
Window Dims. (WxH) mm	461 x 477	461 x 677
No. of Shelf Positions	10 ea	16 ea
No. of Shelf Included	2 ea	2 ea

### Performance Data

Heating & Cooling System	Forced Convection with Hermetically Sleaed Air Cooled Compressor	
Temperature Range	0 °C to 70 °C, 0.1 °C resolution	
Temperature Accuracy at 20.0 °C	+/- 0.2 °C	
Temperature Uniformity at 20.0 °C	+/- 0.5 °C	

### Controller

Type	Digital Microprocessor PID Temp. Controller with Capacitive Touch Button and Jog Dial	
Display	Full Size Digital Back Light Graphic LCD Display	
Control Logic	3 Group Zone PID Control	
Calibration	1 Point Temperature Offset 3 Point Temperature Calibration	
Temp. Program	1 Pattern, 10 Steps, 1 ~ 999 ( Unlimited ) Times Repeatable	
Auto-Start Timer	Max. 99 hr 59 min by 1 min resolution	
Auto-Stop Timer	Max. 99 hr 59 min by 1 min resolution	
Sensor	Class A Pt-100 Ohm Sensor	
Power Restoration	Power and Timer Restoration Function in case of power outage	
Communication Interface	RS-232C Communication Interface [OPTION]	

### Material Data

Body	Epoxy Powder Coated Steel
Chamber	Stainlss Steel 304 (AISI304)
Inner Glass Door	5.0 mm Thick Tempered Safety Glass Door

### Safety Data

Safety Device	Door Open / Over Temperature / Over Cooling / Over Current Protection Audio Visual Alarm
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### Electrical Data

Power Requirement	220 +/- 10% VAC   50/60 Hz   1 Phase	
Power Consumption	1.2 kW 5.5 amp	1.3 kW 6.0 amp
Plug Configuration	CEE 7/7 Schuko or BS 1363	

### Usable Condition

Temp. & Humidity	5 °C - 40 °C, 80% RH Max.
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## # Ordering Information

### Art. Number

### Descriptions

JSBI-050CP	Tabletop Refrigerated Incubator 50 Liter	220 VAC 1 ph 50/60Hz
JSBI-100CP	Tabletop Refrigerated Incubator 100 Liter	220 VAC 1 ph 50/60Hz

## JSBI-Series PROGRAMMABLE TABLETOP REFRIGERATED INCUBATOR 0°C ~ 70°C

### Accessories

### Shelves

PHS-A23	Perforated Shelf, Stainless Steel 304, for JSBI-050CP	W370 x D340 mm
PHS-A24	Perforated Shelf, Stainless Steel 304, for JSBI-100CP	W420 x D430 mm
PHS-C09	Wire Shelf, PVC Coated, for JSBI-050CP	W370 x D340 mm
PHS-C10	Wire Shelf, PVC Coated, for JSBI-100CP	W420 x D430 mm
PHS-A99	Shelf Support, Set of 4 ea	



# JSBI-Series

## TABLETOP REFRIGERATED INCUBATOR

0 °C ~ 70 °C

JSBI-xxxC series Tabletop Refrigerated BOD Incubator gives excellent incubation conditions below ambient temperature for bacterial, fungal, cell and tissue culture incubation, BOD (Biological Oxygen Demand) Test, QA / QC in pharmaceutical laboratory.



JSBI-100C Tabletop Refrigerated Incubator, 100 liter

## # Features

### Performance

Temperature Range : 0 °C to 70 °C

Temperature Accuracy : within +/- 0.2 °C

Temperature Uniformity : within +/- 0.5 °C

Forced air convection for excellent thermal accuracy and uniformity.

Aero-dynamic chamber designed with circulation blower to achieve superior thermal uniformity.

Separated heating and cooling compartment located on the back wall for contamination free and maintenance free.

Hermetically Sealed Air Cooled Compressor

### Construction

Durable epoxy powder coated metallic casing.

Corrosion resistant Stainless Steel 304 chamber with seamless round cornered edge allows easy cleaning and prevents leakage.

Tempered Safety Inner Glass Door for easy observation of samples.

### Convenience

Outer door with self-adhesive magnetic packing.

Inner Glass Door with high density silicone gasket and air-tight Door Lock.

Removable and adjustable shelf by 25mm spacing.

### Safety

DUAL OVER TEMPERATURE CUT-OFF BY CONTROLLER AND INDEPENDENT THERMOSTAT

HIGH TEMPERATURE CUT-OFF AND AUDIO VISUAL ALARM

LOW TEMPERATURE CUT-OFF AND AUDIO VISUAL ALARM

PT SENSOR SHORT OR DISCONNECTION AUDIO VISUAL ALARM

OVER CURRENT CUT-OFF

# 3-ZONE PID Algorithm

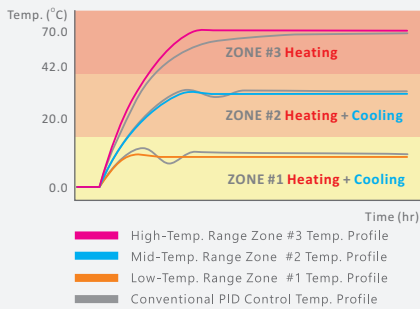
## 3-Point Calibration

### 1-Point Offset

#### Temperature Control

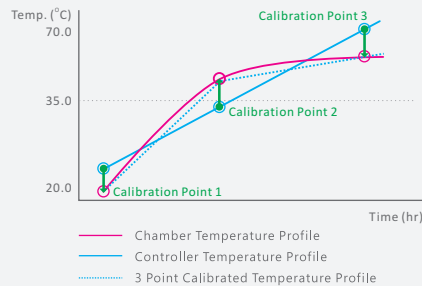
- Digital Microprocessor PID Controller
- High-fidelity clear back light LCD displays complete setting and operating condition at a glance
- UV Coated Polycarbonate Touch Panel
- Easy-to-use Encoder Type Jog Dial for quick and convenient setting of temperature and timer
- 0.1 °C Control resolution
- Auto-Start / Auto-Stop Timer 1 min. to 99 hour 59 min.
- Temperature and Timer memory function in frequent use
- 3-Zone PID Algorithm
- 3-Point Calibration
- 1-Point Offset Calibration
- Power Outage and Restore Function
- Class A Pt-100 Ohm Sensor
- RS-232C PC Communication Interface [OPTION]

#### 3-ZONE PID Algorithm



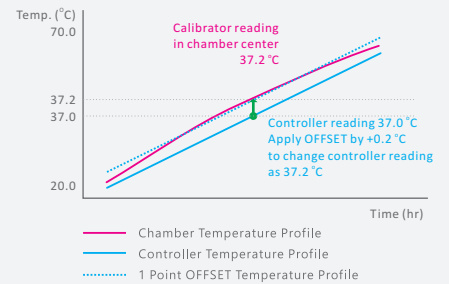
Complete temperature range is divided into three zones (LOW/MIDDLE/HIGH) and each ZONE has its individual PID algorithm to provide precise and superior temperature control characteristic of whole temperature range.

#### 3-Point Calibration



An excellent calibration tool to calibrate chamber at THREE DIFFERENT TEMPERATURE POINTS to adjust multiple temperature bias to increase temperature accuracy of WHOLE TEMPERATURE RANGE.

#### 1-Point Offset



Provides simple and easy calibration tool to calibrate chamber at ONE SPECIFIC TEMPERATURE POINT of frequent use.



# # Specifications

## Model

JSBI-050C

JSBI-100C

## Dimension Data

Chamber Volume	50 Liters	100 Liters
Inner Dims. (WxDxH) mm	400 x 360 x 350	450 x 450 x 500
Outer Dims. (WxDxH) mm	580 x 600 x 770	630 x 690 x 920
Window Dims. (WxH) mm	461 x 477	461 x 677
No. of Shelf Positions	10 ea	16 ea
No. of Shelf Included	2 ea	2 ea

## Performance Data

Heating & Cooling System	Forced Convection with Hermetically Sleaed Air Cooled Compressor	
Temperature Range	0 °C to 70 °C, 0.1 °C resolution	
Temperature Accuracy at 20.0 °C	+/- 0.2 °C	
Temperature Uniformity at 20.0 °C	+/- 0.5 °C	

## Controller

Type	Digital Microprocessor PID Temp. Controller with Capacitive Touch Button and Jog Dial	
Display	Full Size Digital Back Light Graphic LCD Display	
Control Logic	3 Zone PID Control	
Calibration	1 Point Temperature Offset 3 Point Temperature Calibration	
Auto-Start Timer	Max. 99 hr 59 min by 1 min resolution	
Auto-Stop Timer	Max. 99 hr 59 min by 1 min resolution	
Sensor	Class A Pt-100 Ohm Sensor	
Power Restoration	Power and Timer Restoration Function in case of power outage	
Communication Interface	RS-232C Communication Interface [OPTION]	

## Material Data

Body	Epoxy Powder Coated Steel	
Chamber	Stainlss Steel 304 (AISI304)	
Inner Glass Door	5.0 mm Thick Tempered Safety Glass Door	

## Safety Data

Safety Device	Over Temperature / Over Cooling / Over Current Protection Audio Visual Alarm	
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## Electrical Data

Power Requirement	220 +/- 10% VAC   50/60 Hz   1 Phase	
Power Consumption	1.2 kW 5.5 amp	1.3 kW 6.0 amp
Plug Configuration	CEE 7/7 Schuko or BS 1363	

## Usable Condition

Temp. & Humidity	5 °C - 40 °C, 80% RH Max.	
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## # Ordering Information

### Art. Number

### Descriptions

JSBI-050C	Tabletop Refrigerated Incubator	50 Liter	220 VAC 1 ph 50/60Hz
JSBI-100C	Tabletop Refrigerated Incubator	100 Liter	220 VAC 1 ph 50/60Hz

## JSBI-Series TABLETOP REFRIGERATED INCUBATOR 0 °C ~ 70 °C

### Accessories

### Shelves

PHS-A23	Perforated Shelf, Stainless Steel 304, for JSBI-050C	W370 x D340 mm
PHS-A24	Perforated Shelf, Stainless Steel 304, for JSBI-100C	W420 x D430 mm
PHS-C09	Wire Shelf, PVC Coated, for JSBI-050C	W370 x D340 mm
PHS-C10	Wire Shelf, PVC Coated, for JSBI-100C	W420 x D430 mm
PHS-A99	Shelf Support, Set of 4 ea	



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Барнаул (3852)73-04-60  
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Киров (8332)68-02-04  
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Нижний Новгород (831)429-08-12  
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