

ZXDP-B Series General Purpose Incubators

LABWIT[®]
2018
Catalogue



CE



Models:

ZXDP-B2050 (50L), ZXDP-B2080 (80L)
ZXDP-B2120 (120L), ZXDP-B2160 (160L)
ZXDP-B2270 (270L), ZXDP-R2800 (800L)

Description

The classic ZXDP-B Series general purpose incubators are designed for a wide variety of lab applications that requiring a constant thermal environment, typical applications including biochemical studies, microbiology, histology, bacteriology, pharmaceutical stability testing, food processing quality control, hematological studies, etc. Consisting of highly efficient heating elements combined with a gentle forced-air fan that provides horizontal airflow, the incubators deliver superior temperature uniformity within the entire chamber.



A precise PID microprocessor controller maintains tight temperature control in the range of ambient+5°C to 60°C. An independent safety thermostat protects the incubator and its culturing samples in the event of overheat. An audible and visible alarm is incorporated to warn of overtemperature deviations, and user-friendly sealed LCD control panel allows easy digital setting and fast

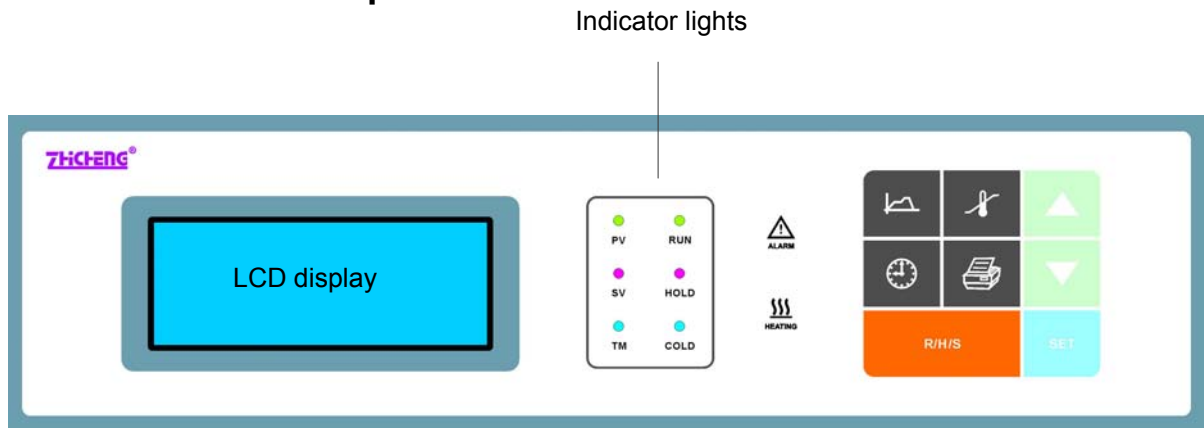
readout. The incubators can be operated either in Steady Status Running Mode or in Programmable Running Mode. In the programmable running mode, a maximum of 9 programs 18 steps can be edited and stored in the memory. Steps can be set for running multiple "ramp and soak" cycles, or for just running at one temperature for a given time and then switching automatically to another temperature for another given time. Each program can be made to repeat from 1 to 99 times automatically.



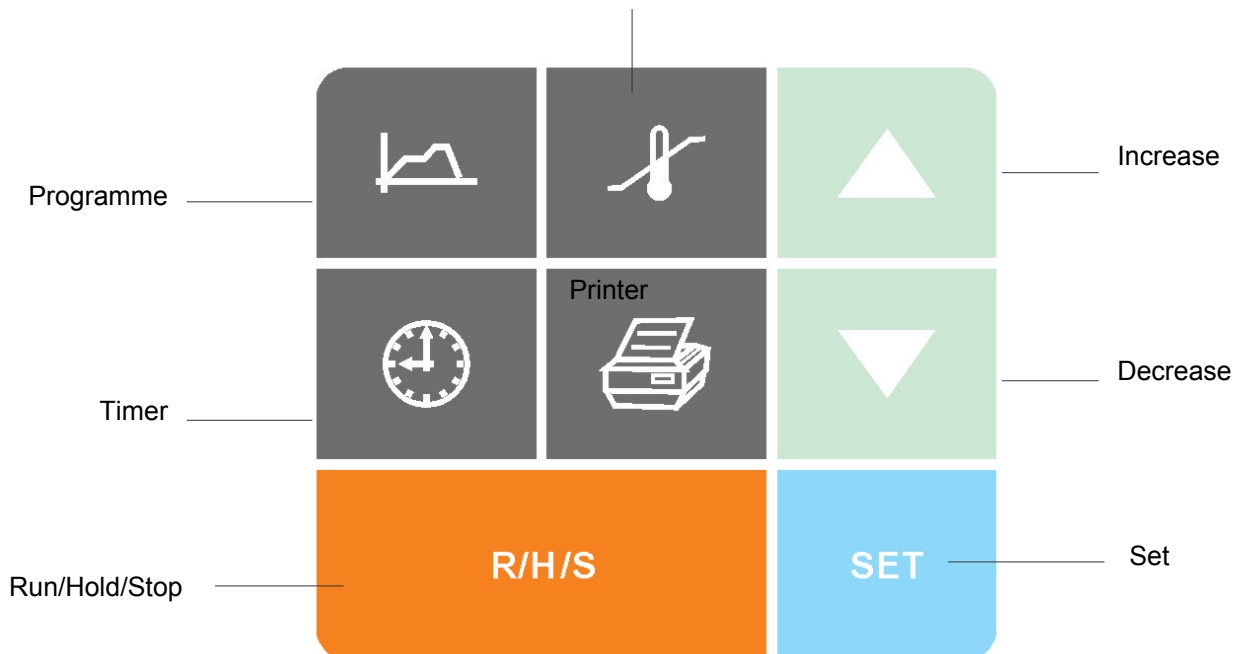
Large, bright LCD control panel shows target temperature value and actual measured temperature value in real time.

An inner door made of tempered safety glass allows a clear view of the samples without disturbing the internal culturing atmosphere. The outer door has a silicone gasket that provides tight seal to the chamber and keeps the heat loss to a minimum. The interior chamber is made of mirror-finished SUS304 stainless steel with rounded corners that allows easy cleaning. The incubators are rigorously tested by the third party independent certification body DNV for user safety.

Overview of control panel

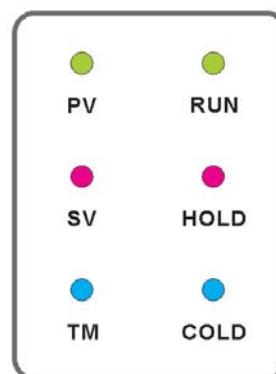


Temperature Setting



Indicator Lights

- PV: actual measured temperature indicator
- SV: target temperature value indicator
- TM: Timer indicator
- RUN: running indicator
- HOLD: temperature hold indicator (disabled)
- COLD: refrigerating indicator (disabled)



Technical Specifications

Model	ZXDP-B2050	ZXDP-B2080	ZXDP-B2120	ZXDP-B2160	ZXDP-B2270
Capacity	50L	80L	120L	160L	270L
Performance	Heated only	Heated only	Heated only	Heated only	Heated only
Heating method	Thermal Electrical	Thermal Electrical	Thermal Electrical	Thermal Electrical	Thermal Electrical
Controller Type	PID	PID	PID	PID	PID
Temperature	Ambient+5°C to 60°C		Ambient+5°C to 60°C		
Temperature Set Resolution	±0.1°C	±0.1°C	±0.1°C	±0.1°C	±0.1°C
Temperature Uniformity	±1°C@37°C	±1°C@37°C	±1°C@37°C	±1°C@37°C	±1°C@37°C
Airflow type	Forced-air	Forced-air	Forced-air	Forced-air	Forced-air
Timer	1~999 minutes	1~999 minutes	1~999 minutes	1~999 minutes	1~999 minutes
Programs	9 programs, 18 steps	9 programs, 18 steps	9 programs, 18 steps	9 programs, 18 steps	9 programs, 18 steps
Safety Protection	Sensor failure alarm, overtemperature alarm, independent temperature thermostat, overcurrent & leakage protection, non-volatile memory after power failure.				
Setting	Digital	Digital	Digital	Digital	Digital
Display	LCD	LCD	LCD	LCD	LCD
Platforms Included	2	2	2	2	2
Chamber Dimension	350x350x435 mm	400x400x525 mm	450x450x625 mm	500x500x675 mm	600x550x845 mm
Exterior Dimension	470x465x785 mm	520x515x875 mm	570x565x975 mm	620x615x1025 mm	720x665x1195 mm
Power	350W	400W	500W	500W	700W
Electricity Supply	220~230V 50/60Hz	220~230V 50/60Hz	220~230V 50/60Hz	220~230V 50/60Hz	220~230V 50/60Hz
Net weight (Kg)	33	40	51	57	90
Approval	CE, ISO	CE, ISO	CE, ISO	CE, ISO	CE, ISO
Warranty	1 Year	1 Year	1 Year	1 Year	1 Year

Model	ZXDP-R2800	With advanced intuitive touch screen	
Capacity	800L	Chamber Dimension	840*800*1200mm
Performance	Heated only	Exterior Dimension	990*905*1690mm
Heating method	Thermal Electrical	Power	1500W
Controller Type	PID microprocessor	Electricity Supply	220~230V, 50/60Hz
Temperature Set Resolution	±0.1°C	Net weight (Kg)	235Kg
Temperature Uniformity	±1°C@37°C	Safety Protection	Sensor failure alarm, overtemperature alarm, independent temperature thermostat, overcurrent & leakage protection, non-volatile memory after power failure.
Airflow type	Forced-air		
Timer	1~999 minutes		
Programs	9 programs, 18 steps		
Setting	Digital		
Platforms Included	2		

ZXSD-B Series Cooled Incubators

LABWIT[®]

Models:

ZXSD-B1090 (90L), ZXSD-B1160 (160L)

ZXSD-B1270 (270L), ZXSD-B1430 (430L)



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Description

ZXSD-B series incubators are sleek in design and ensure reliable temperature controls in the range of 4~65°C (or ambient-20°C to 65°C at room temperature 25°C). The incubators are ideal for a variety of advanced research application needs ranging from B.O.D determination to incubation of microorganisms, preservation of samples, determination of enzymatic activities, growth of bacteria, yeast, insect, plant cells and all those applications that require tight temperature control.

The incubators incorporate a highly efficient heater with PID microprocessor temperature control combined with gentle forced-air circulation which ensures even temperature distribution and guarantees reproducible culturing results. Moreover, the incubators are equipped with a hermetically-sealed compressor that runs at a low noise and provides automatic refrigeration and defrosting at a specified time. Manual defrosting is also available.

The incubators offer programmable running mode or steady status running mode for selection. In the programmable running mode, a maximum 18-step, 9 programs can be edited and stored for running multiple ramp and soak cycles or for convenient retrieval.

The incubators have an inner tempered safety glass door as standard, see-through door window also provide complete visibility to the interior. An access port at the left side is included for use of external temperature probes. All the models are supplied with castor wheels for easy movement within the lab.

Key Features

1. Advanced P.I.D microprocessor control.
2. Forced-air fan circulation allows fast temperature recovery.
3. Hermetically sealed compressor offers intelligent refrigeration and automatic defrosting.
4. User-friendly interface with bright LCD display for easy digital setting and fast readout.
5. A fluorescent lamp installed as standard.
6. An inner glass door installed as standard.
7. See-through door window provides complete visibility to the interior.
8. An access port is included for external sensors.
9. Non-volatile memory retains previous setting parameters during a power failure.
10. Audible and visible alarm on overtemperature.
11. Independent temperature thermostatic protects culturing samples against overheat.
12. Independent overcurrent and leakage protections offers user safety.
13. Cleaning is easy due to mirror-finished stainless steel interior and round corners design.
14. All units are supplied with castor wheels for easy movement within the lab.
15. Extra shelves available upon request.
16. All models are CE Marked by third party, independent certification body DNV.

Specifications:

Model	ZXSD-B1090	ZXSD-B1160	ZXSD-B1270	ZXSD-B1430
Performance	Heated & Cooled	Heated & Cooled	Heated & Cooled	Heated & Cooled
Capacity (Volumn)	90L	160L	270L	430L
Controller	P.I.D microprocessor			
Temperature Range	ambient-20 to 65°C (or 4~65°C)			
Minimum temperature setpoint	4°C			
Temperature Set Resolution	±0.1°C			
Temperature Uniformity	±1°C@37°C			
Temperature Fluctuation	±0.5°C			
Timer	1~999 minutes			
Airflow	Forced-air Circulation			
Refrigeration	Compressor-cooled, R134a			
Defrosting	Automatic. Manual defrosting is available.			
Operation Modes	Steady Status Mode & Programmable Mode.			
Programs	18 steps, 9 programs.			
Setting	Digital			
Display	LCD			
Shelf numbers	2			
Access Port	Φ50mm, for external sensors.			
Inner glass door	Installed as Standard			
Illumination	Fluorescent lamp			
Functions	Auto-diagnostics, overtemperature alarm, relay for heating cutoff, electric leakage protection, real time clock, auto-and delayed start, non-volatile memory.			
Interior Size mm	400x400x550	500x500x650	600x600x750	700x645x950
Exterior Size mm	530x540x1260	630x640x1360	730x740x1460	830x785x1660
Power	600W	700W	850W	1200W
Net Weight (Kg)	68	98	108	130
Electrical Connection	AC220~230V 50/60Hz			
Approval	CE Marked			
Warranty	1 Year or more			

Advanced Models:

ZXSD-R1090, ZXSD-R1160,
ZXSD-R1270, ZXSD-R1430.

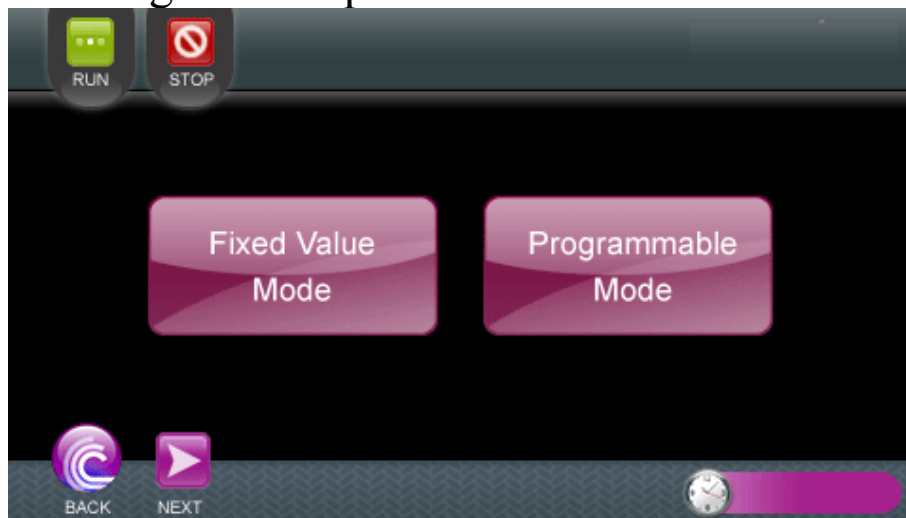
With intelligent 65K colors, 4.3 inch touch screen controller for easy and intuitive operation.

The cooled incubators can also be equipped with a user-friendly interface with a modern design intuitive touch screen controller for easy operation. With the 65K colors, 4.3 inch touch screen controller, controls for entering the setpoints becomes exceptionally easy, display is bright and clearly visible from all angles.

Default Setting interface



Running Mode Options



Programmable Mode Setting



Alarm Setting



Applicable to models: ZXSD-R1090, ZXSD-R1160, ZXSD-R1270, ZXSD-R1430.



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Specifications:

Model	ZXSD-R1090	ZXSD-R1160	ZXSD-R1270	ZXSD-R1430
Capacity (Volumn)	90L	160L	270L	430L
Performance	Heated & Cooled	Heated & Cooled	Heated & Cooled	Heated & Cooled
Controller	Intelligent microprocessor-based Touch Screen Controller			
Temperature Range	ambient-20 to 65°C (or 4~65°C)			
Minimum temperature setpoint	4°C			
Temperature Set Resolution	±0.1°C			
Temperature Uniformity	±1°C@37°C			
Temperature Fluctuation	±0.5°C			
Timer	1~999 minutes			
Airflow	Forced-air Circulation			
Refrigeration	Compressor-cooled, R134a			
Defrosting	Automatic			
Operation Modes	Steady Status Mode & Programmable Mode.			
Programs	18 steps, 9 programs.			
Setting	Digital			
Display	Intuitive Touch Screen			
Shelf numbers	2			
Access Port	Φ50mm, for external sensors.			
Inner glass door	Installed as Standard			
Illumination	Fluorescent lamp			
Functions	Auto-diagnostics, overtemperature alarm, relay for heating cutoff, electric leakage protection, real time clock, non-volatile memory.			
Interior Size mm	400x400x550	500x500x650	600x600x750	700x645x950
Exterior Size mm	530x540x1260	630x640x1360	730x740x1460	830x785x1660
Power	600W	700W	850W	1200W
Net Weight (Kg)	68	98	108	130
Electrical Connection	AC220~230V 50/60Hz			
Approval	CE Marked			
Warranty	1 Year or more			

Low Temperature Incubators

Models:

ZXSP-A0160, ZXSP-A0270, ZXSP-A0430 (LCD Display)

ZXSD-R0160, ZXSP-R0270, ZXSP-R0430 (Touch Screen)

Models	ZXSP-A0160	ZXSP-A0270	ZXSP-A0430
Capacity (Volumn)	160L	270L	430L
Controller	P.I.D microprocessor		
Temperature Range	-10°C to 65°C (at ambient 25°C)		
Minimum temperature setpoint	-10°C (at ambient 25°C)		
Temperature Set Resolution	±0.1°C		
Temperature Uniformity	±1°C (at ambient 37°C)		
Temperature Fluctuation	±0.5°C		
Timer	0~999 minutes		
Airflow	Forced-air Circulation		
Refrigeration	Compressor-cooled, R134a		
Defrosting	Automatic		
Operation Mode	Steady Status Running Mode & Programmable Running Mode		
Programs	9 programs, 18 steps.		
Setting	Digital		
Display	LCD		
Shelf numbers	Includes 2 shelves as standard. Extra shelves available.		
Access Port	Φ 50mm, for external sensors.		
Inner glass door	Not Applicable		
Illumination	Fluorescent lamp		
Functions	Auto-diagnostics, sensor failure alarm, over-temperature alarm, relay for heating cutoff, over-current & electric leakage protection, real time clock, auto-and delayed start, non-volatile memory.		
Interior Size mm	550x500x650	600x600x750	700x645x950
Exterior Size mm	650x680x1360	750x780x1460	850x820x1660
Power	750W	900W	1250W
Net weight	98	140	185
Electrical Connection	AC220~230V 50/60Hz		
Approval	CE Marked		
Warranty	1 Year or more		



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Specifications

Models	ZXSD-R0160	ZXSP-R0270	ZXSP-R0430
Capacity (Volumn)	160L	270L	430L
Controller	P.I.D microprocessor with intelligent touch screen controller.		
Temperature Range	-10°C to 65°C (at ambient 25°C)		
Minimum temperature setpoint	-10°C (at ambient 25°C)		
Temperature Set Resolution	±0.1°C		
Temperature Uniformity	±1°C (at ambient 37°C)		
Temperature Fluctuation	±0.5°C		
Timer	0~999 minutes		
Airflow	Forced-air Circulation		
Refrigeration	Compressor-cooled, R134a		
Defrosting	Automatic		
Operation Mode	Steady Status Running Mode & Programmable Running Mode		
Programs	9 programs, 18 steps.		
Setting	Digital		
Display	4.3 inch, 65K color, Touch Screen		
Shelf numbers	Includes 2 shelves as standard. Extra shelves available.		
Access Port	Φ 50mm, for external sensors.		
Inner glass door	Not Applicable		
Illumination	Fluorescent lamp		
Functions	Auto-diagnostics, sensor failure alarm, over-temperature alarm, relay for heating cutoff, over-current & electric leakage protection, real time clock, auto-and delayed start, non-volatile memory.		
Interior Size mm	550x500x650	600x600x750	700x645x950
Exterior Size mm	630x640x1385	750x780x1485	850x820x1685
Power	750W	900W	1250W
Net weight	98	140	185
Electrical Connection	AC220~230V 50/60Hz		
Approval	CE Marked		
Warranty	1 Year or more		