

**ZSD-A Series
ZSP-A Series
Programmable
Cooled Incubators**



The newly released ZSD/ZSP-A Series programmable incubators are designed to meet a variety of advanced experimental needs ranging from B.O.D determination to incubation of microorganisms, preservation of samples, determination of enzymatic activities and all those applications that require precise and constant temperature control. The incubators can store 9 programs 18 steps in 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. The incubators can also be used in the non-programmable mode as a normal incubator.

Features:

- 1) P.I.D microprocessor control
- 2) Fully programmable through the keyboard
- 3) Automatic defrosting & CFC-free refrigeration
- 4) Forced-air circulation provides excellent temperature uniformity
- 5) Real-time clock & timer with delayed auto-start from 0 to 99.59 hours
- 6) Audible and visible alarm on overtemperature
- 7) Password protection on safety operation
- 8) Non-volatile memory retains preset parameters
- 9) Large LED for easy digital setting and fast readout
- 10) Fluorescent Lamp included as standard
- 11) Separate safety protections on overheating and to the user

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Specifications:

| Model | ZSD-A1090 | ZSD-A1160 | ZSD-A1270 | ZSD-A1430 |
|--------------------------|----------------------|----------------------|----------------------|----------------------|
| Capacity | 90L | 160L | 270L | 430L |
| Temperature Range | ambient-20°C to 65°C | ambient-20°C to 65°C | ambient-20°C to 65°C | ambient-20°C to 65°C |
| Temperature Set Division | ±0.1°C | ±0.1°C | ±0.1°C | ±0.1°C |
| Temperature Uniformity | ±0.5-1°C | ±0.5-1°C | ±0.5-1°C | ±0.5-1°C |
| Setting | Digital | Digital | Digital | Digital |
| Alarm | Enabled | Enabled | Enabled | Enabled |
| Platform | 2 | 2 | 2 | 2 |
| Interior Size mm | 400x400x550 | 500x500x650 | 600x600x750 | 700x645x950 |
| Exterior Size mm | 530x540x1260 | 630x640x1360 | 730x740x1460 | 830x785x1660 |
| Power | 600W | 700W | 850W | 1200W |
| Electricity | 220V 50/60Hz | 220V 50/60Hz | 220V 50/60Hz | 220V 50/60Hz |
| Approval | CE, ISO | CE, ISO | CE, ISO | CE, ISO |
| Warranty | 1 Year | 1 Year | 1 Year | 1 Year |

| Model | ZSP-A0160 | ZSP-A0270 | ZSP-A0430 |
|--------------------------|--------------|--------------|--------------|
| Capacity | 160L | 270L | 430L |
| Temperature Range | -10-65°C | -10-65°C | -10-65°C |
| Temperature Set Division | ±0.1°C | ±0.1°C | ±0.1°C |
| Temperature Uniformity | ±0.5-1°C | ±0.5-1°C | ±0.5-1°C |
| Setting | Digital | Digital | Digital |
| Alarm | Enabled | Enabled | Enabled |
| Platform | 2 | 2 | 2 |
| Interior Size mm | 500x500x650 | 600x600x750 | 700x645x950 |
| Exterior Size mm | 650x680x1360 | 750x780x1460 | 850x820x1660 |
| Power | 750W | 900W | 1250W |
| Electricity | 220V 50/60Hz | 220V 50/60Hz | 220V 50/60Hz |
| Approval | CE, ISO | CE, ISO | CE, ISO |
| Warranty | 1 Year | 1 Year | 1 Year |

**Low
Temperature
Programmable
Cooled
Incubators**

Control Panel

