



IS401/601

Incubators of natural convection by air-jacket, equipped with various functions.

| Model | | | |
|--------------------------------|------|------|------|
| 401 | 601 | 801 | 901 |
| Operating Temperature Range | | | |
| Room Temp. +5deg.C to 80 deg.C | | | |
| Temp. Distribution Accuracy | | | |
| ±1.0 deg.C (at 37 deg.C) | | | |
| Internal Capacity | | | |
| 97L | 159L | 318L | 567L |

- Fix temperature operation, Quick auto stop, Auto stop, Auto start operation are available.
- 3 patterns, 30 steps programming are available.
- The air-jacket method makes it possible to obtain uniform temperature distribution.
- Samples can be observed through the inner door.
- Equipped with self-diagnosis function, a key-lock function and an over current breaker.
- Possible to place the models IS401/601 in piles, one over the other.
- Various expanded function due to external communication function, temperature output terminal.
- The operation before power failure can be resumed.

■ Specifications

| Model | IS401 | IS601 | IS801 | IS901 |
|---------------------------------|---|-------------------------|--------------------------|--------------------------|
| Performance | | | | |
| Circulation method | Natural convection by air jacket | | | |
| Operating temperature range | Room temperature +5 to 80deg.C | | | |
| Temp. control accuracy | ±0.2deg.C (at 37deg.C) | | | |
| Temp. fluctuation | ±0.4deg.C (at 37deg.C) | | | |
| Temp. distribution accuracy | ±1.0deg.C (at 37deg.C) | | | |
| Temp. gradient | 2degC (at 37deg.C) | | | |
| Time required to reach 60 deg.C | Approx. 70 min | | Approx. 90 min | |
| Components | | | | |
| Interior Material | Stainless steel | | | |
| Exterior material | Cold rolled steel plate with melamine resin baking finish | | | |
| Heat insulating material | Glass wool | | | |
| Heater | Iron-chrome wire heater, | | | |
| | 0.3kW | 0.36kW | 0.73kW | 1.2kW |
| Exhaust port | 30 mm I.D. ×2 pcs (on the top) | | 30 mm I.D. ×2 pcs (side) | |
| Inner door | 5mm thickness reinforced glass | | | |
| Controller | | | | |
| Temp. controller | PID control by microprocessor | | | |
| Temp. setting method | Digital setting with key | | | |
| Temp display method | Digital display by LED | | | |
| Timer | 1 min. to 99 Hrs. 59 min. and 100 Hrs. to 999 Hrs. | | | |
| Min. division | 1 min. or 10 min. | | | |
| Operation function | Fixed temperature operation, quick auto-stop, auto-stop, auto-start operation | | | |
| | Program operation 3 patterns, 30 steps, patterns repeat function. | | | |
| Additional functions | Calibration offset function, key lock function, power failure compensation function | | | |
| Heater circuit control | SSR drive | | | |
| Temp. sensor | Pt100 / K thermocouple | | | |
| Safety Device | | | | |
| Safety countermeasures | Self diagnosis functions (temp. sensor abnormal, heater disconnection, triac short circuit, automatic overheat prevention), Key lock function, Over current breaker, Resume function. | | | |
| Standard | | | | |
| Internal dimensions | 450×480×450 | 600×530×500 | 600×530×1,000 | 1,070×530×1,000 |
| External dimensions | 560×606×820 | 710×656×870 | 710×655×1,611 | 1,180×655×1,619 |
| Internal capacity | 97L | 159L | 318L | 567L |
| Shelf plate with standard load | Approx. 15 kg/piece | | | |
| Shelf rest step number | 11 steps | 13 steps | 29 steps | 29 steps |
| Shelf rest pitch | 30 mm | | | |
| Power source 50/60Hz | AC100V 3.2 (10A) | AC100V 3.8A(10A) | AC100V 7.5A (10A) | AC100V 12.2A (15A) |
| Weight | Approx. 55 kg | Approx. 65 kg | Approx. 105kg | Approx. 166 kg |
| Accessories | | | | |
| Shelf plate | Stainless steel, 2 pcs. | Stainless steel, 3 pcs. | Stainless steel, 5 pcs. | Stainless steel, 10 pcs. |
| Shelf bracket | 4 pcs. | 6 pcs. | 10 pcs. | 20 pcs. |

■ IS801/901



■ Control panel



■ Interior



■ Exhaust port



■ Shelf/Shelf support



■ Optional items

| Remark | Description | Option Model | Main Unit Model No. | Item Code |
|--------|---|--------------|---------------------|-----------|
| ● | Stand | ON61 | IS401/IS601 | 211856 |
| | Stacking support | OD40 | IS401 | 212822 |
| | Stacking support | OD60 | IS601 | 212823 |
| | Stainless punching metal shelf (loading up to 15kg/shelf) | - | IS401 | 212246 |
| | Stainless punching metal shelf (loading up to 15kg/shelf) | - | IS601/IS801 | 212266 |
| | Stainless punching metal shelf (loading up to 15kg/shelf) | - | IS901 | 212371 |
| ● | Cable port, 25mm dia | - | IS series | 281121 |
| ● | Cable port, 50mm dia | - | IS series | 281122 |
| ● | External communication terminal (RS485) | - | IS series | 212575 |
| ● | External Communication Adapter (changeable to RS232C) | - | IS series | 281388 |
| ● | External Alarm Terminal | - | IS401 | 212578 |
| ● | External Alarm Terminal | - | IS601 | 212961 |
| ● | External Alarm Terminal | - | IS801 | 212964 |
| ● | External Alarm Terminal | - | IS901 | 212967 |
| ● | Time-up Output Terminal | - | IS401 | 212579 |
| ● | Time-up Output Terminal | - | IS601 | 212962 |
| ● | Time-up Output Terminal | - | IS801 | 212965 |
| ● | Time-up Output Terminal | - | IS901 | 212968 |
| ● | Temperature output terminal | - | IS401 | 212588 |
| ● | Temperature output terminal | - | IS601 | 212963 |
| ● | Temperature output terminal | - | IS801 | 212966 |
| ● | Temperature output terminal | - | IS901 | 212969 |

Note:

The item marked "●" in the column of "Remark" shall be ordered together with the main unit.

■ Dimension drawing

