

## GR SERIES AUTOCLAVE



## To meet the requirements of a future lab

GR series intelligent autoclaves-a once-off selection that exempts the worries of continual upgrading

### Heavy-gauge sterilization chamber

The heavy gauge sterilization chamber in a diameter of 40cm offers a massive space to satisfy various sterilization requirements.

### Microcomputer control system

The latest “inspiration” fast-speed microcomputer intelligent control system is highly robust to not only realize the total-process controls of sterilization, but also enable convenient maintenance, inquiry, calibration, recording and upward scalability in the future. It allows three tiers of administrations, to guarantee satisfactory us and management of the autoclave.

### Waste sterilization mode:

Dedicated waste sterilization procedures are established for effective sterilization of lab wastes.

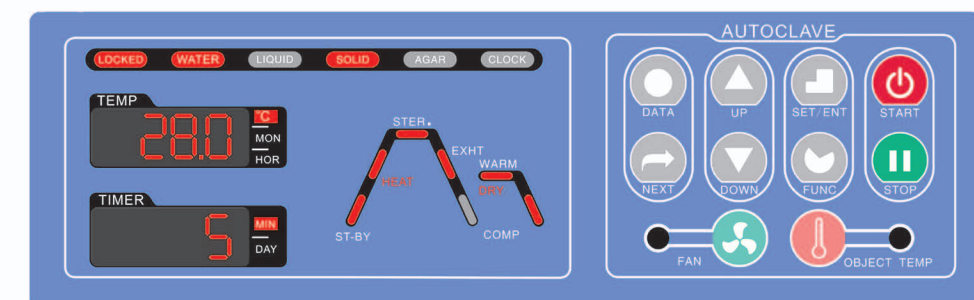
### Drying

Thoroughly drying according to the CE standard, on hot sale in the Europe

### Cooling lock OPEN temperature

Each procedure can set different cooling lock OPEN temperatures according to the thermal inertia of the sterilization object so as to prevent the user from opening the cover and hence getting burnt when the sterilization object(particularly liquid) is still in an unsafe state.

### Simple and easily understandable and operable control panel



## Preset Procedures and memory system

Six sterilization procedures and warming procedures are preset for the sterilizing, warming and drying of solids and liquids, the melting and warming of agars. There are up to 60 cycles and be created and saved to be readily used.

## Safety

Mechanical interlocking: the unique “eight-column evenly distributed” interlocking device is safer and more reliable than common interlocking devices. The electric double inner locks enable the control system to monitor the temperature and pressure in the sterilization chamber on a real-time basis and disable opening of the sterilization chamber cover until the safe temperature and pressure are reached, hence guarantee the personal safety of the operator.

## Technical Data

| Model                            | GR60DA                                                                                                                                                                                                                                                                                                                                                                                   | GR85DA            | GR110DA           |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|
|                                  | GR60DF                                                                                                                                                                                                                                                                                                                                                                                   | GR85DF            | GR110DF           |
|                                  | GR60DR                                                                                                                                                                                                                                                                                                                                                                                   | GR85DR            | GR110DR           |
| Model difference                 | DA:Standard, DF:Automatic water feeding+cooling fan, DR: DF+drying                                                                                                                                                                                                                                                                                                                       |                   |                   |
| Capacity(L)                      | 60                                                                                                                                                                                                                                                                                                                                                                                       | 85                | 110               |
| Dimension(L*W*H,mm)              | 660x644x980(DA)                                                                                                                                                                                                                                                                                                                                                                          | 660x644x980(DA)   | 660x644x1180(DA)  |
| Chamber dimension(Dia*H,mm)      | φ 400x505                                                                                                                                                                                                                                                                                                                                                                                | φ 400x700         | φ 400x895         |
| Rate power supply(w)             | 2900                                                                                                                                                                                                                                                                                                                                                                                     | 4600              | 4600              |
| Stainless steel basket(Dia*H,mm) | ( φ 360x200)x2                                                                                                                                                                                                                                                                                                                                                                           | ( φ 360x280)x2    | ( φ 360x250)x3    |
| Power requirement                | 220V,16A, 50/60HZ                                                                                                                                                                                                                                                                                                                                                                        | 220V,32A, 50/60HZ | 220V,32A, 50/60HZ |
| Temperature accuracy             | 0.1℃                                                                                                                                                                                                                                                                                                                                                                                     |                   |                   |
| Working environment              | 5-45℃, relatively humidity 10%-85%                                                                                                                                                                                                                                                                                                                                                       |                   |                   |
| Chamber material                 | SUS 304                                                                                                                                                                                                                                                                                                                                                                                  |                   |                   |
| Sterilization temperature        | 105-138℃                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |
| Sterilization time range         | 1-6000 minutes                                                                                                                                                                                                                                                                                                                                                                           |                   |                   |
| Melting temperature              | 60-100℃                                                                                                                                                                                                                                                                                                                                                                                  |                   |                   |
| Melting time range               | 1-6000 minutes                                                                                                                                                                                                                                                                                                                                                                           |                   |                   |
| Warming temperature              | 45-60℃                                                                                                                                                                                                                                                                                                                                                                                   |                   |                   |
| Warming time range               | 1-9999 minutes                                                                                                                                                                                                                                                                                                                                                                           |                   |                   |
| Drying(only for DR model)        | 1-300 minutes, drying temperature 80-140℃                                                                                                                                                                                                                                                                                                                                                |                   |                   |
| Cooling lock OPEN temperature    | 40-80℃ for liquid cycle, 40-99℃ for other cycles                                                                                                                                                                                                                                                                                                                                         |                   |                   |
| Sterilization cycle              | 1.Solid cycle 2.Liquid cycle 3.Liquid with warming cycle 4.Agar cycle 5.Solid with drying(for DR) 6. Medical waste cycle 7. Customized cycle                                                                                                                                                                                                                                             |                   |                   |
| Sterilization cycle number       | DA can save up to 20 cycles, DF/DR can save up to 60 cycles                                                                                                                                                                                                                                                                                                                              |                   |                   |
| Exhaust mode                     | Automatic internal discharging ,with a steam collecting bottle inside. Exhaust speed can be selected by 6 levels                                                                                                                                                                                                                                                                         |                   |                   |
| Lid opening way                  | Up and down                                                                                                                                                                                                                                                                                                                                                                              |                   |                   |
| Steam collector and water tank   | DA: embedded 2 steam collector, DF: embedded 2 steam collector and 28L water tank DR: embedded steam collector and 28L water tank                                                                                                                                                                                                                                                        |                   |                   |
| Preset range of timer            | Can be preset and auto start up to 6 days in advance                                                                                                                                                                                                                                                                                                                                     |                   |                   |
| Display range of pressure gauge  | -0.1-0.5Mpa                                                                                                                                                                                                                                                                                                                                                                              |                   |                   |
| Pressure                         | Max working pressure:0.27Mpa,design pressure:0.35Mpa                                                                                                                                                                                                                                                                                                                                     |                   |                   |
| Controller                       | “Inspiration” fast speed microcomputer controller                                                                                                                                                                                                                                                                                                                                        |                   |                   |
| Safety device                    | “eight column evenly distributed” interlocking device, electric double inner locks, lid closing checking, dry scorch protection, overpressure protection, safety valve, water level sensor, over temperature protection, temperature monitor, over current and short circuit protection, leakage protection, cooling lock, anti-scald chamber cover and bench, automatic troubleshooting |                   |                   |