

## Precision incubator

### Model IF450plus



## Standard equipment

### Ventilation and Control

- forced air circulation by quiet air turbine, adjustable in 10 % steps for each segment individually
- adjustment of pre-heated fresh air admixture by air flap control in 10 % steps for each segment individually
- vent connection with restrictor flap
- adaptive multifunctional digital PID-microprocessor controller with 2 high-definition TFT-colour displays
- self-diagnostics for fault analysis
- 2 Pt100 sensors Class A in 4-wire-circuit, mutually monitoring and taking over the performance at the same temperature value
- Digital backwards counter with target time setting, adjustable from 1 minute to 99 days
- parameters adjustable on ControlCOCKPIT: temperature (Celsius or Fahrenheit), fan speed, air flap position, programme time, time zones, summertime/wintertime
- SetpointWAIT function - the process time does not start until the set temperature is reached
- AtmoCONTROL software on a USB stick for programming, managing and transferring programmes via Ethernet interface or USB port
- HeatBALANCE function for adapting the distribution of the heating performance of the upper and lower heating circuit from -50 % to +50 %
- Setting of languages on ControlCOCKPIT: German/English/Spanish/French
- resolution of display for setpoint and actual temperature values 0.1 °C
- calibration facility directly at ControlCOCKPIT for three freely selectable temperature values

- programme stored in case of power failure
- fixed sterilisation programme (4 hours/160 °C) for sterilisation of working chamber, not for sterilising the load
- incl. works calibration certificate for +37 °C

### Multiple Overtemperature Protection

- with audible and visual alarm
- overtemperature monitor TWW, protection class 3.1 or adjustable temperature limiter TWB, protection class 2, selectable on display
- additionally integrated over- and undertemperature monitor "ASF", automatically following the setpoint value at a preset tolerance range, alarm in case of over- or undertemperature, heating is switched off in case of overtemperature
- mechanical temperature limiter TB, protection class 1 according to DIN 12880 to switch off the heating approx. 20 °C above nominal temperature

### Textured Stainless Steel Casing

- w x h x d: 1224 x 1247 x 784 mm
- fully insulated stainless steel doors with 2-point locking (compression door lock)
- inner glass doors
- rear zinc-plated steel
- on lockable castors

### Interior - Heating Concept

- w x h x d: 1040 x 720 x 600 mm, 449 l
- easy-to-clean interior, made of stainless steel, reinforced by deep drawn ribbing with integrated and protected large-area heating on four sides
- 2 stainless steel grids
- Max. loading of chamber: 300 kg

**Temperature Range**

- min. 10°C above ambient up to +80°C

**Voltage / Power Rating**

- 230 V (+/- 10 %), 50/60 Hz / approx. 1.800 W
- 115 V (+/- 10 %), 50/60 Hz / approx. 1.500 W

**Packing Data**

- net weight approx. 170 kg
- gross weight carton approx. 236 kg
- dimensions approx.:  
carton w x h x d: 133 x 145 x 105 cm
- the appliances must be transported upright

**Customs Tariff Number**

- 8419 8998

**Country of Origin**

- Federal Republic of Germany

**WEEE-Reg.-No.**

- DE 66812464