

Equipment with photoperiod

- The photoperiodic (FOT) and phytotron (FIT) systems allow day and night simulation in ST and ILW cooled incubators. The basic difference between the FOT and FIT functions is that in the first case, the light can only be turned on and off in the program, and in the second, you can additionally control its intensity.

The ST and ILW cooled incubators in Smart versions can be equipped with the FOT system.

FOT option advantages

- day and night simulation software - for each segment it is possible to program temperature, duration time, fan and light efficiency (ON / OFF)
- temperature range for "night": +3°C... +50°C and -10°C... +60°C (for IL with ILW/T option)
- temperature range for "day": +10°C...+50°C
- 840 fluorescent tube lamps installed in side walls in ST cooled incubators; in door or ceiling in ILW cooled incubators
- with FOT option the equipment operates with time priority (see page 83)
- automatic defrosting function in standard

Photoperiod (FOT option)

| | ST FOT2 | ST FOT4 | ST FOT6 | ST FOT8 | ST FOT10 | ST FOT15 | IL FOT2S | IL FOT3S | IL FOT5D | IL FOT6D | IL FOT8D | IL FOT10D |
|---|--------------------------|----------------|------------------------|--------------|------------------|--------------------|----------|----------|----------|--------------------|-------------------------------|-----------|
| available for models | ST 1 ST 1/1 ST 1/1 | ST 2 ST 2/2 | ST 2 ST 3 ST 2/2 | ST 4 ST 5 | ST 500 ST 700 | ST 1200 ST 1450 | ILW 53 | ILW 115 | ILW 53 | ILW 115 ILW 240 | ILW 240 ILW 400 ILW 750 | ILW 750 |
| temperature range with photoperiod [°C] | +10 ... +50 | | | | | | | | | | | |
| number of lamps in door | - | - | - | - | - | - | - | - | 5 | 6 | 8 | 10 |
| number of lamps in ceiling | 2 | - | - | - | - | - | 2 | 3 | - | - | - | - |
| number of lamps in side walls | - | 4 | 6 | 8 | 10 | 15 | - | - | - | - | - | - |
| adjustable illumination intensity | no | | | | | | | | | | | |

*for the ST series with the FOT option, the internal dimensions of the chamber are reduced by 4 cm on each side, the FOT option must be ordered together with the equipment! It is not possible to purchase this option later.

Application

- microbiological tests
- plant growing, microorganisms breeding at precisely controlled environment
- photostability tests



Equipment with phytotron

■ The ST and ILW cooled incubators in Smart PRO version (ST 500/700/1200/1450, ILW 115/240/400/750) and climatic chambers can be equipped with the FIT system.

FIT option advantages

- day and night simulation software - for each segment it is possible to program temperature, duration time, fan efficiency and light intensity (every 10%)
- temperature range for "night": +3°C... +60°C (ST) and -10°C... +60°C (for IL with ILW/T option)
- temperature range for "day": +10°C...+50°C
- lamps installed in over-shelf panels (FIT P), in side walls (FIT S), in door (FIT D) or in door and side walls (FIT DS)
- 840 fluorescent tube lamps (daylight) or LED modules
- with FIT option the equipment can operate with time or parameters (temperature) priority
- automatic defrosting function in standard

Phytotron (FIT option)

| Option* | ST 500/700 FIT DS | ST 500/700 FIT S | ST 500/700 FIT P | ST 1200 FIT P | ST 1450 FIT P | IL 115 FIT P | IL 240 FIT P | IL 400 FIT P | IL 750 FIT P | IL 115 FIT D | IL 240 FIT D | IL 750 FIT D |
|---|-------------------|------------------|------------------|---------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| temperature range with phytotron ON [°C] | +10 ... +50 | | | | | | | | | | | |
| number of over-shelf panels with illumination (std/max) | - | - | 1/3 | 1/3 | 1/3 | 1/1 | 1/2 | 1/2 | 1/3 | - | - | - |
| lamps in door | yes | - | - | - | - | - | - | - | - | yes | yes | yes |
| lamps in side walls | yes | yes | - | - | - | - | - | - | - | - | - | - |
| adjustable illumination intensity | yes | | | | | | | | | | | |

* **FIT DS** – illumination in door and side walls; **FIT D** - illumination in door; **FIT S** – illumination in side walls; **FIT P** – illumination in over-shelf panels

ST cooled incubators ST 500, 700, 1200, 1450 with FIT/FOT option are produced with previous cooling system. It is not possible to supply them with monoblock (M) cooling unit.

Application

- growth of plants and fungus
- seeds germination
- microorganisms and insects breeding
- photostability tests
- food preservation tests
- any kind of research that requires a stable temperature light control (optionally humidity control)
- tests of building materials

