



## Shaker incubator **HOT & COLD**

Shaking Incubators produced by FG, with unique design and unparalleled accuracy, could be a perfect choice for any laboratory. Several decades of experience and super-accurate engineering in designing the device and very advanced manufacturing process, has led to producing a very high quality product. Small design points like utilizing a unique system to uniform movement through the whole surface and high temperature accuracy are special features of these series.



Smooth & Silent

THE



**(CMT) (Consistent Movement Technology)**

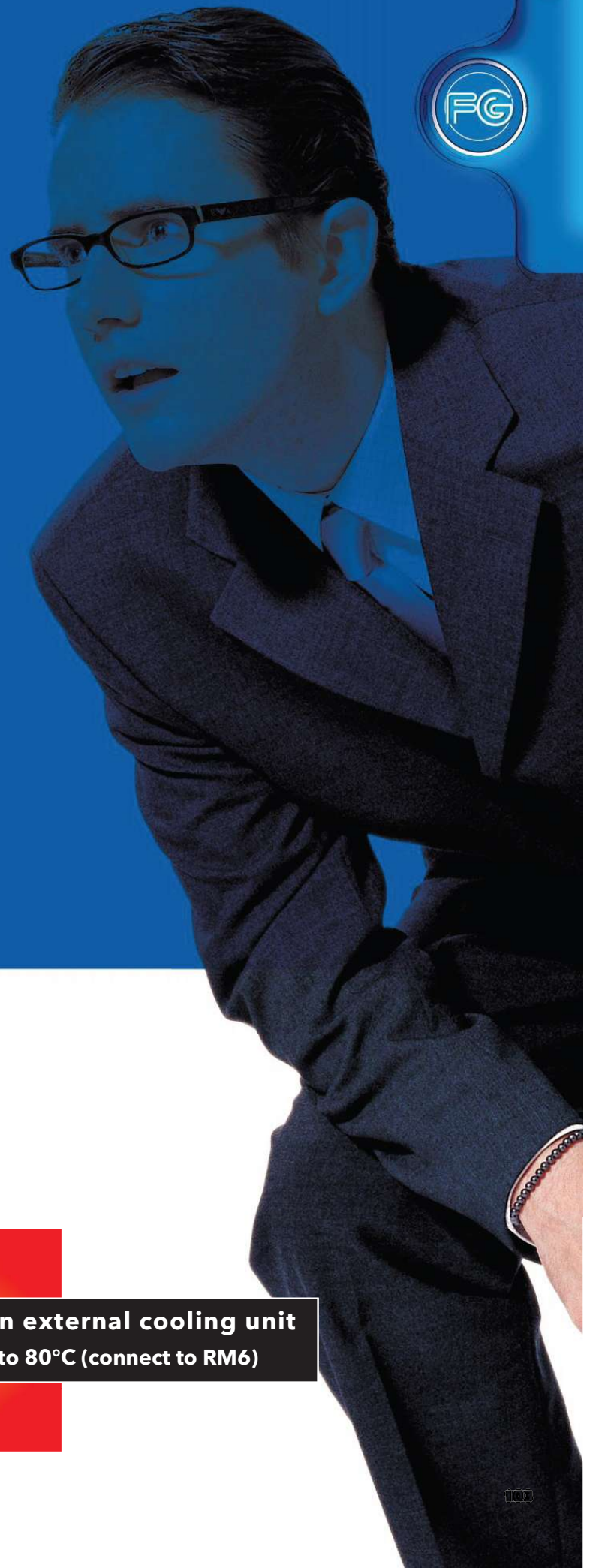
- Uniform movement throughout the whole surface
- Uniform distribution of pressure and movement
- Continuous operation, even under a full load
- Loading capacity of up to 10 kilograms
- **Smooth and silent** movement
- Strapless and spring less





## Micro-Controller

- Accurate tachometer and motor's/speed control
- Motor protection system to prevent its burning
- Color graphic LCD display with touch key
- 999-minutes timer (permanently operable)
- Double PT 1000 temperature sensor
- PID controller with high accuracy
- Electronic motor protect system
- Central troubleshooting system
- PWM speed control



**Cooling coil for connection to an external cooling unit**  
**Temp range: From ambient -10°C to 80°C (connect to RM6)**



# Shaker incubator

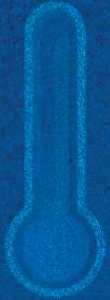
## Main Features

- The heater element is embedded in protection stainless steel shield
- Equipped with current control system to protect gearbox
- Circulation fan system with air channel
- Strong gearbox for more power
- Equipped with Error alarm
- Orbital motion

**CMT**



TEMPERATURE



37.0°C

Ramp: 2.5

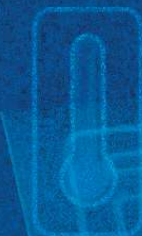
SPR: 37.0

SP = 37.0

ROTATION



ALARM



min

max

39.0°C

±1.5k



TIMER



2016

9:30(A)

999

999



E CLASS

## Special Benefits

### ARM Series Micro Controller

- Timer display for accurate and reproducible conditions
- 10 memories which can save temp and speed
- Assure highly accurate temperature control
- Color graphic LCD display with touch key
- 999 hours timer(permanently operable)
- PID controller with high accuracy
- PT1000 temperature sensor
- PWM speed control
- Electronic timer

### Inner Chamber

- Specially designed to prevent pouring liquids on board, motor and electric parts
- Built-in cooling coil for connection to an external cooling unit (RM6)
- Temperature stability and reproducibility
- Uniformity even under a full load
- Circulation fan with air channel

### CMT technology (Consistent Movement Technology)

- Consistent movement throughout the whole surface
- Continuously operable, even under a full load
- Loading capacity of up to 10 kilograms
- Smooth and silent movement
- Strapless and spring less



# Shaker incubator

## Specifications

<b>Exterior dimensions</b>	<b>km11</b>
Width (cm)	47
Height with close door (incl. feet) (cm)	43
Depth (cm)	70
Weight (empty) (kg)	40
Row material housing	Sheet metal powder coat
Row material front panel	ABS painted
<b>Inner chamber</b>	<b>km11</b>
Operating area inner chamber (width)	32
Operating area inner chamber (height)	26
Operating area inner chamber (depth)	33
Total volume inner chamber(lit)	50
Cooling coil	Yes
Cooling unit	No
<b>Timer data</b>	<b>km11</b>
Timer range	1sec. – 999 hrs.
Timer display	LCD
Operating mode	Timer and continues Operation
<b>Temperature data</b>	<b>km11</b>
Working temperature min.(°C)	Ambient + 5°C
Working temperature max.(°C)	60
Working temperature with chiller circulation min.(°C)	Ambient - 10°C
Working temperature with chiller circulation max.(°C)	60
Temperature variations @ 37 °C (±K)	0.1
Display accuracy @ 37 °C (±K)	0.1
<b>Speed Data</b>	<b>km11</b>
Speed Display	Digital
Type of motion	Orbital
rotation diameter (mm)	25
Weight on shaker (kg)	10
Speed range (rpm)	50 – 300



Electrical data	km11
Voltage(V AC)	220
Power (W)	1100
Frequency (Hz)	50
Current (A)	5

• All technical data are specified for units with standard equipment at an ambient temperature of 25 °C and a line voltage fluctuation of ±10%

## KF11E

