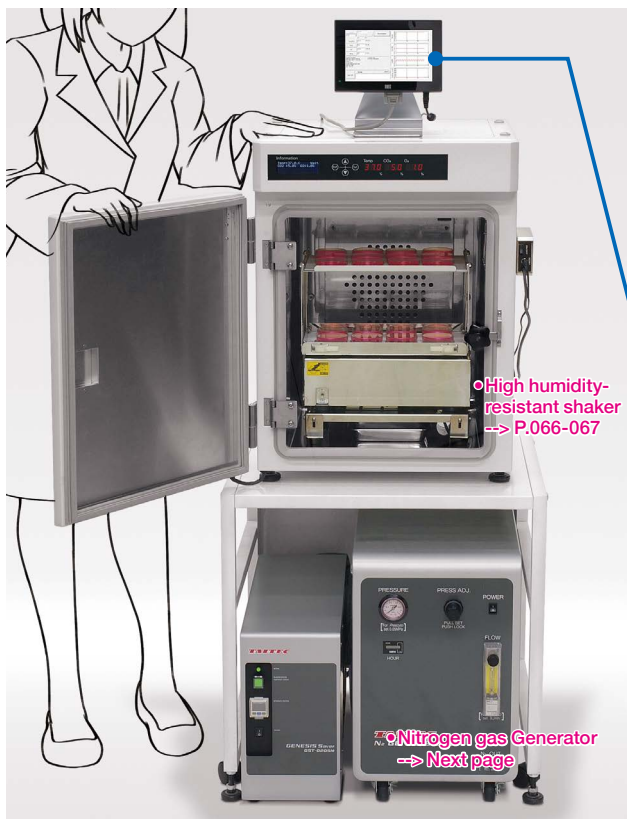


Oxygen concentration program unit MG-PU01



Enables Various patterns of oxygen concentration change by connecting to the Multi-gas incubator MG-71M!

•Multi-gas incubator MG-71M --> P.048

Features and Applications

- Reproduction In vivo environment by changing oxygen
- Recording of Gas concentration and temperature



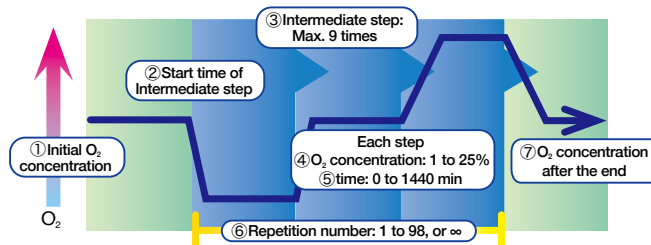
Operation with Touch panel

Model	MG-PU01
Applicable model	MG-71M
Configuration	Touch panel PC (Built-in Control software), Connection cable, AC adapter, Power cable, Stylus pen
System requirements	MG-71M, N ₂ /O ₂ /CO ₂ Gas (O ₂ Gas not required if no Step in which O ₂ concentration is boosted)

Program specifications

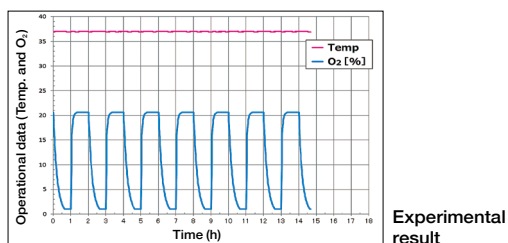
Protocol setting	①Initial O ₂ concentration ③Intermediate step: Max. 9 times ⑦ O ₂ concentration after the end. Up to 5 programs can be saved and invoked.
Step setting	④O ₂ concentration and ⑤Connection time are set as 1 step.
O ₂ concentration setting	1 to 25%, Set in 0.1%
Connection time setting	0 to 1440 min (24 hours), Set in 1 min
Repetition setting	"⑥Repetition number: 1 to 98 arbitrarily set" in "Intermediate step: Max. 9 times". Setting "1" makes each step only one time. Entering "0" keeps Initial O ₂ concentration.
Start time setting	②Start time of the Intermediate step or Immediately after the Data log starts
Data log	The temperature and the concentration of O ₂ and CO ₂ inside the MG-71M chamber can be logged at 1-minute intervals and its data written in USB memory.

Schematic diagram



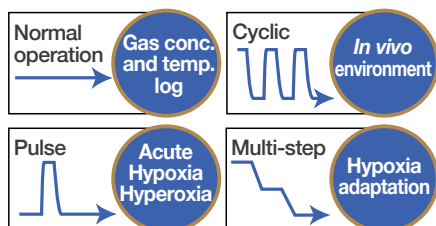
Changes oxygen concentration according to the duration

Oxygen concentration program unit can be connected to the Multi-gas incubator MG-71M to change the oxygen concentration inside the chamber. The change of blood flow and oxygen such as inside a tumor can be simulated.



The pattern of oxygen concentration changes in high flexibility

The pattern of oxygen concentration changes can be created with high flexibility. Not only periodical hypoxic condition but also multi-step change and repetition number can be set. As a Data logger for Temp. and Gas concentration inside the Chamber. The temperature and concentration of O₂ and CO₂ inside the MG-71M chamber can be logged at 1-minute intervals and its data written in USB memory.



As a Data logger for Temp. and Gas concentration inside the Chamber

The temperature and the concentration of O₂ and CO₂ inside the MG-71M chamber can be logged at 1-minute intervals and its data written in USB memory.

Reference performance	
O ₂ Concentration change range	1% to approx. 20.9% (Atmospheric concentration)
O ₂ control accuracy	Conformed to MG-71M accuracy (0.2%)
O ₂ rise speed	Depends on the supply flow rate to MG-71M, 1% --> 20%: Around 5 min (When O ₂ Gas cylinder is used)
O ₂ drop speed	Depends on the supply flow rate to MG-71M, 20% --> 1%: Within 15 min (When N ₂ Gas cylinder is used) 60 to 90 min (When N ₂ GENESIS is used)