

## SANYO Biomedical Incubation Reference

### The Southern California Institute for Reproductive Sciences



#### Overview:

The Southern California Institute for Reproductive Sciences is an independent, full service in vitro fertilization (IVF) laboratory working with several physicians specializing in the treatment of infertility. The Newport Beach facility has been open since 1992 and performs over 700 embryo transfer procedures annually.

### SANYO Product Solution: MCO-5M

#### Application: IVF

Treatment options include IVF, egg donation, surrogacy, intracytoplasmic sperm injection (ICSI), blastocyst transfer, and preimplantation genetic diagnosis (PGD). Currently, "We have 12 miniature SANYO MCO-5M incubators that can easily handle 600 fresh IVF and ICSI cases per year. We plan to get 6 more SANYO incubators to ensure individualized patient management for future growth."

#### SANYO Advantages:

- Rapid TC Sensor recovery (only takes 10-15 minutes to equilibrate)
- Practical size and volume of shelving, "using 2 shelves there is plenty of room to keep patient dishes separate."
- **"I was initially concerned about the InCu SaFe's reflective quality, but it has quickly proven successful based on our high pregnancy rates and zero contamination. The UV light is a nice feature."**
- Copper-alloy extremely effective in preventing contamination
- Seals on the doors are easy to open and close
- Very accurate temperature control
- Great support team and local servicers
- Back sensor is very accurate and a useful reminder of when to refill the waterpan
- Easy external access to the gas sampling port



MCO-5M

## Competitive Analysis:

"I have used incubators with self-sterilization features, but they can be hard on the sensors. If needed, the UV light in the SANYO incubator can be safely used for decontamination purposes during quality control maintenance."

**"The idea of miniature incubators is great for space efficiency, allowing for more units to be placed into an existing lab area."**

"Even with 12 incubators running on a single CO<sub>2</sub> and N<sub>2</sub> gas tank, with a gas guard system, our consumption is low and replacement is only needed about every 2 weeks."

## Highlights and Current Research:

Mitchel Schiewe, Scientific Lab Director at SCIRS, is an accomplished professional in the IVF field. He has published more than 35 peer-reviewed papers and 70 abstracts presented at national and international meetings, and is serving as the 2008-2009 Chairman of the Reproductive Biology Professional Group (RBPG), for the American Society for Reproductive Medicine (ASRM). He is currently publishing research on the clinical effectiveness of individual, personal patient incubators and laboratory quality control issues, including the effects of air quality and chemical filtration in IVF labs.



SANYO MCO-5M Incubators

**"As a longtime user of Forma/Thermo in the USA and Heraeus in Italy, I am more satisfied with the engineering SANYO has put into designing equipment specifically for today's IVF industry based on embryologist's input."**  
**-Mitchel Schiewe, M.S., Ph.D., HCLD (ABB), ELD (ABB), Laboratory Director**

## Conclusions:

The Southern California Institute for Reproductive Sciences' laboratory is one of the most progressive in Southern California. New procedures and findings are incorporated into practice as quickly as possible to ensure the best patient care available. SANYO is proud to play an integral part in this cutting-edge research in a such a developing field.

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Incubation