



# NOKI

TECHNOLOGIES

*Noki Technologies, a privately-owned family business operating through two decades in the Nuclear Medicine and Nuclear Energy. Leveraging our expertise, we bring to the fore, Advanced Measurement & Automation Instruments. Our focus on innovation and precision drives us to deliver solutions tailored to the evolving demands of our clients.*

# ML PHARM -TRACER

## GALLIUM SYNTHESIZER

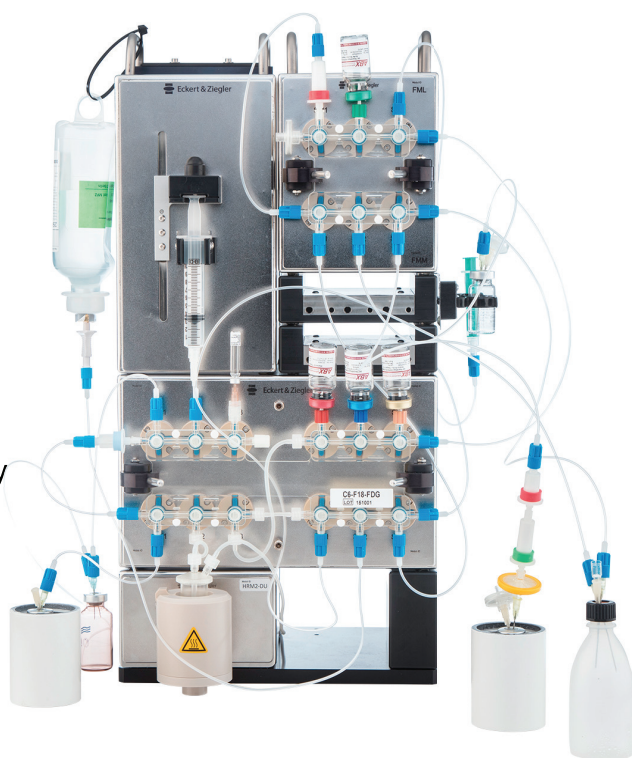
### DESCRIPTION

Eckert & Ziegler Eurotope GmbH offers one setup for the routine production of a wide range of Fluorine-18 based tracers using the reliable Modular-Lab PharmTracer technology. The laboratory equipment has been specifically designed to allow efficient, GMP compliant production of different tracers without cross contamination issues. All tracers are produced using sterile disposable synthesis cassettes. The system additionally supports research and development activities by using the freely programmable and intuitive Modular-Lab software and adaptable cassettes.

Using the cartridge-based SPE purification approach, the basic Fluorine-18 PharmTracer setup, consisting of the Heater Module (HRM), the Syringe Module (SYM), the 4-fold Module (SLM-4), the 2-fold Module (SLM-2) and a vacuum pump, will enable the production of [18F]FDG, [18F]FES, [18F]FET, [18F]FLT, [18F]FMISO and [18F]PSMA-1007. A heater and SLM-4 will not be required when producing [18F]NaF. By adding modules, Modular-Lab PharmTracer can also be used for the production of further tracers based on other nuclides such as Gallium-68, Lutetium-177, Yttrium-90, Carbon-11, Copper-64 and more. The appropriate system configuration can be provided upon request. Eckert & Ziegler offers assistance to find the ideal setup for your needs.

### KEY FEATURES

- Fully automated synthesis
- Multiple tracer production using a single configuration
- Open Software for in-house tracer development
- Short synthesis time
- High and stable yields
- Easy cassette handling through click'n'start technology
- Compact size and small footprint
- GMP and GAMP5 compliance
- Expandable setup for production of other tracers



## STERILE DISPOSABLE CASSETTES

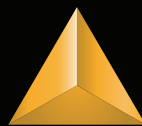
Cassettes are assembled under GMP-compliant clean room conditions, sterilized with gamma-radiation and double-vacuum packed. All consumables used are chemical resistant and have been tested for their suitability with the specific syntheses. A shelf life of 18 months can be guaranteed. For further information please refer to the respective user manual. Due to the cassettes one time use no cleaning, drying or sanitation routines are necessary.

## TECHNICAL DATA

Module Characteristics*	
Dimension of entire system	280 x 268 x 515 mm (L x W x H) incl. cables and accessories
2-fold Modular-Lab PharmTracer (SLM-2)	130 x 198 x 191 mm (L x W x H)
4-fold Modular-Lab PharmTracer (SLM-4)	262 x 198 x 191 mm (L x W x H)
Syringe Dispensing Module (SYM)	130 x 184 x 268 mm (L x W x H); responsible for liquid transport
Heater Reaction Module (HRM) Dimensions	130 x 220 x 113 mm (L x W x H); heating via heating foil from room temperature to 180 °C, internal activity detector
Vacuum Pump	164 x 90 x 141 mm (L x W x H); weight: 1.9 kg 230V/115V, single-head, dry-running device, 5°C to 40°C, 100 mbar
Pressure	Additional nitrogen supply required, 5-10 bar
Accessories	Two additional activity detectors and one pressure sensor included
Module Characteristics*	
Power supply	Electrical Cabinet (EC mini): 100-240 V 50/60 Hz
Power consumption	up to 480 W
Environment temperature	+10 °C to +40 °C
Environment humidity	Max. 70% rel.
Unit Control	
Software	Modular-Lab Software
Interfaces	USB



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