



NEPTIS® SYNTHESIZERS OPTIMIZE YOUR PRODUCTION

NEPTIS® SYNTHESIZERS MAKE YOUR LIFE EASY

NEPTIS® SYNTHESIZERS COVER YOUR FUTURE NEEDS
FOR NEW COMPOUNDS

NON-PROPRIETARY CASSETTES

- Non-proprietary commercial consumables to enable lowest possible cost for cassette/kit systems, unlike proprietary systems.
- Manifolds available in polysulfone or polypropylene materials (DMSO and DMF resistant).

GENERAL

Power supply	100-240V AC, 50-60 Hz
Compressed air	6 to 8 bars
Nitrogen	3 to 8 bars

ON-THE-GO DEVELOPMENT

NEPTIS® synthesizer is delivered with a **complete software package**

- NEPTIS® **Control** allows the user to visualize all of the pertinent information of a synthesis in real-time.
- NEPTIS® **Designer** is a stand alone software which allows the development of molecules or the modification of one.
- NEPTIS® **Trending** is an indispensable tool for analysis of data production runs with additional functionalities of key parameters (i.e. calibration, maintenance log, et al.).

WNE® PNEUMATIC SYSTEM

Exclusive patented technology:
3-positions pneumatic actuator.

- WNE® system** NEPTIS® synthesizers are equipped with the exclusive patented WNE® technology: 3-position pneumatic actuators. Only pneumatic pressure is required, and unlike electrically driven actuators, there is no need for any electronic logic control system which is susceptible to radiation, providing an unmatched reliability.
- Electronics** The CPU is installed outside of the machine making its reliability exclusive and preserving it from radiation damages.

DOCUMENTATION

Ensuring a smooth integration into your **Quality Assurance program**

ORA is ISO13485 certified since 2014. All NEPTIS® documentation meets strict GMP regulations and requirements. Moreover, NEPTIS® Software is 21CFR Part 11 compliant and all NEPTIS® products (automated synthesizers) follow and apply GAMP5 guidelines.

The above features are not restrictive. For further information call +32 (0) 71 613823 or email us at questions@oradiochem.eu. We are pleased to help. We reserve the right to discontinue or change specifications or design at any time without prior notice and without incurring any obligation whatsoever.

THE SOLUTION TO ALL YOUR TRACER NEEDS



The NEPTIS® RANGE

The below features are not restrictive. For further information call +32 (0)71 613823 or email us at questanswered@radiochem.eu. We are pleased to help.

		NEPTIS® NaF	NEPTIS® LC	NEPTIS® DB/RS		NEPTIS® Perform	NEPTIS® xSeed™	NEPTIS® SP		
				DB	RS			Stand-Alone	For NEPTIS® LC	
PERFORMANCE	User profile recommended	• Standard laboratory • Commercial laboratory	• Standard laboratory • Commercial laboratory • R&D laboratory	• Standard laboratory • Commercial laboratory • R&D laboratory		• Standard laboratory • Commercial laboratory • R&D laboratory	• R&D laboratory • Standard laboratory	• Standard laboratory • Commercial laboratory • R&D laboratory		
	Purpose recommended	• NaF production • Kit based tracers production	• Newest tracers isotopes of contemporary chemistry • Kit based tracers production	• FDG production (> 70%) • Kit based tracers production		• FDG production (>70%) • Kit based tracers • Advanced tracers production	• FDG production (>70%) • Advanced tracers production • Automated cleaning system	• HPLC purification • Reformulation process		
	Hot cell compatibility <i>Nos of units max. in one single mini-cell</i>	4	3	2		1	1	1	2	
	Applications* <i>VIRTUAL SYNTHESIZER® Applications range from radioisotopes routine production to specific process capability</i>	[¹⁸ F] nucleophilic	[¹⁸ F] NaF	[¹⁸ F]F-Acetate [¹⁸ F]FDG [¹⁸ F]FES [¹⁸ F]FLT [¹⁸ F]NaF	[¹⁸ F]F-Choline [¹⁸ F]FDGal [¹⁸ F]FET [¹⁸ F]FDopa [¹⁸ F]FMISO [¹⁸ F]NaF	[¹⁸ F]FDG [¹⁸ F]NaF [¹⁸ F]FLT [¹⁸ F]FMiso [¹⁸ F]FHBG [¹⁸ F]PSMA-1007	[¹⁸ F]FACetate [¹⁸ F]FCholine [¹⁸ F]FET [¹⁸ F]FES [¹⁸ F]PSMA-1007 [¹⁸ F]Fallypride Advanced tracers (Alzheimer...)	[¹⁸ F]SFB [¹⁸ F]FDGal [¹⁸ F]FDopa [¹⁸ F]MPPF [¹⁸ F]Faza	R&D	Reform
		[⁶⁸ Ga] labelling of peptides	/	[⁶⁸ Ga]Ga-DOTA-NOC [⁶⁸ Ga]Ga-DOTA-TATE [⁶⁸ Ga]Ga-DOTA-TOC [⁶⁸ Ga]Ga-HBED-PSMA	[⁶⁸ Ga]Ga-DOTA-NOC [⁶⁸ Ga]Ga-DOTA-TATE [⁶⁸ Ga]Ga-DOTA-TOC [⁶⁸ Ga]Ga-HBED-PSMA	[⁶⁸ Ga]Ga-DOTA-NOC [⁶⁸ Ga]Ga-DOTA-TATE [⁶⁸ Ga]Ga-DOTA-TOC [⁶⁸ Ga]Ga-HBED-PSMA			R&D	/
		Other	[¹³ N] Ammonia	[⁸⁹ Zr], [⁹⁰ Y], [^{99m} Tc], [¹³¹ I], [¹⁷⁷ Lu], [¹⁸⁸ Re], [²²⁵ Ac]	[¹⁷⁷ Lu]-compounds	Responsive and adjustable to new isotopes			R&D	/
Disposable cassette system	✓	✓	✓		✓	✗	✓			
Single / Multiple run	/	Single run	Single run (all molecules) Dual run (FDG only)	Single run (all molecules)	Single run Dual run FDG (option)	Multiple run	/			
FEATURES	Dimensions <i>W x H x D</i>	(mm) (in) 215 x 245 x 330 8.5 x 9.7 x 13.0 10,5 kg 23 lbs	280 x 240 x 400 11.0 x 9.4 x 15.7 20 kg 44 lbs	560 x 240 x 400 22.0 x 9.4 x 15.7 28 kg 61 lbs		560 x 420 x 400 22.0 x 16.5 x 15.7 38 kg 84 lbs	560 x 420 x 410 22.0 x 16.5 x 16.1 38 kg 84 lbs	280 x 100 x 450 11.0 x 4.5 x 17.7 7,5 kg 16.5 lbs	280 x 100 x 330 11.0 x 4.0 x 13.0 4,5 kg 9.9 lbs	
	Number of radioactivity detectors	1	3 + 1 (option)	3 + 1 (option)		5 + 1 (option) + UV Signal	6 + UV Signal	2	1	
	Number of syringe drivers <i>Capacity (ml)</i>	1 syringe 10 ml	1 syringe 10 ml	2 syringes 30 ml + 1 syringe 3 or 10 ml		2 syringes 30 ml + 1 syringe 3 or 10 ml	2 syringes 30 ml + 1 syringe 3 or 10 ml	0		
	Number of ramps / actuators <i>WNE® pneumatic system: 3-position technology</i>	1 ramp of 5 actuators: 5 actuators 3-positions WNE®	3 ramps of 5 actuators: 15 actuators 3-positions WNE®	3 ramps of 5 actuators: 15 actuators 3-positions WNE®		4 ramps of 5 actuators: 20 actuators 3-positions WNE®	4 ramps of 5 actuators: 20 actuators 3-positions WNE®	1 ramp of 5 actuators : 5 actuators 3-positions WNE®		
	Number of reaction vessels	Standard config.: ambient temp. up to 200°C	/	1		1	1+1	/		
		Enhanced configuration with extra oven, either classical (amb. temp up to 200°C) or Peltier type (-7°C up to 150 °C)	/	+1 (option)		+1 (option)	+1 (option) or +1 (option)	1+1 (different set-up)	/	
	Externalized electronics (PLC)	CPU I/O boards	Outside of module Outside of module (max. 5m)	Outside of module Inside of module	Outside of module Inside of module	Outside of module Inside of module	Outside of module Inside of module	Outside of module Outside of module	No PLC Inside of LC mod.	
	Advanced Research and Drug Development	HPLC ready	✗	With supplemental NEPTIS® SP module		✗	HPLC drawer as standard HPLC tray single/dual column	HPLC drawer as standard HPLC tray single/dual column	✓	
UV ready		✗	✗		✗	Connection to external UV detector	Connection to external UV detector	✓	✗	
Solid Phase Extraction reformulation		✗	With supplemental NEPTIS® SP module		✗	Included	Included	Included		
External output signals		0	Up to 13 free external programmable outputs 0-24V		Up to 13 free external programmable outputs 0-24V Up to 16 free external programmable outputs 0-24V	Up to 13 free external programmable outputs 0-24V	Up to 2 free external programmable outputs 0-24V	0		
SOFT	Network-based server / Ethernet protocol	✓	✓	✓		✓	✓	✓		
	Control console <i>Operating Systems compatibility</i>	Windows / Mac OS / Linux	Windows / Mac OS / Linux	Windows / Mac OS / Linux		Windows / Mac OS / Linux	Windows / Mac OS / Linux	Windows / Mac OS / Linux		

*Limitations may apply, always check with us.