

Laboratory Automation



...from Prague, the **heart of Europe.**



xTrovert™ XT

DNA/RNA isolation and purification

xTrovert™ XT is an automated benchtop system for DNA and RNA isolation from various types of biological materials. It uses a simple but extremely efficient principle of two pipetting heads that serve up to two 96-well plates with pre-prepared isolation components. This allows for unattended extraction of 1 to 32 samples in a single run, with maximum accuracy and reproducibility.



KEY FEATURES

- Pair of pipetting heads with **interchangeable tips for 300 µl or 1000 µl tips**
- Independent piston mechanisms for accurate and uniform dosing
- Two magnetic arms for protocols using paramagnetic beads
- Patent pending **magnetic bead handling technology inside the pipetting tips** - minimizes losses and simplifies the process
- Thermal incubation in the **range of 25–85 °C**
- Integrated **UV-C sterilization unit** and internal LED illumination
- Automatic optical calibration - compatibility with consumables from any manufacturer
- Fully open, programmable system - creation of custom scripts and workflows



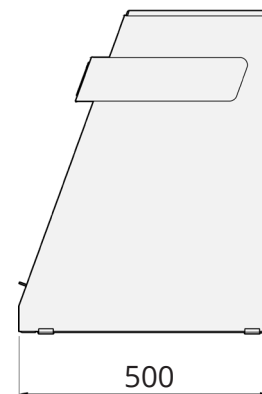
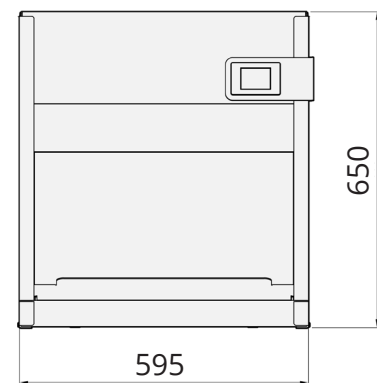
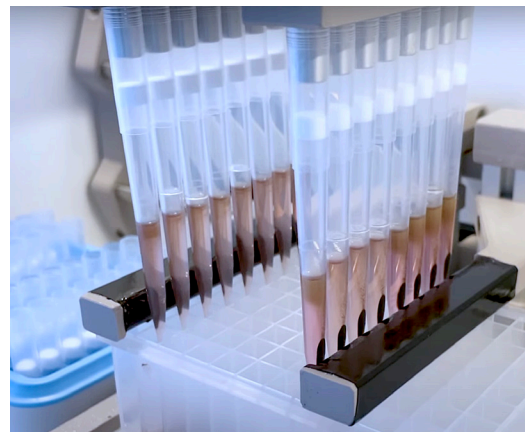
[Video on our website!](#)

SPECIFICATIONS

Capacity:	16 or 32 samples/run
Volume range:	10 – 600 µl
Temperature:	25 – 85 °C
Sterilization:	UV-C
Display:	3,5" TFT touch display
Connectivity:	USB 1.0/2.0
Power source:	24 V adaptor
Dimensions in cm:	59(w) x 65(h) x 50(d)
Weight:	20 kg

WHY xTROVERT XT?

- Fully automated DNA/RNA isolation with minimal operator intervention
- High pipetting accuracy and reproducible results
- Patented magnetic processing directly in the tips
- Compatibility with commonly available tips and plates
- Open system for custom protocols and workflows
- Compact benchtop format ideal for every laboratory



NGS libraries



Sanger DNA sequencing



DNA/RNA extraction



DNA purification



PCR clean-up / desalting

EASY TO USE

The intuitive touch interface with TFT display allows for quick setup and protocol execution. For advanced users, a simple scripting language is available. Custom workflows can be created, edited and recorded using a USB drive.

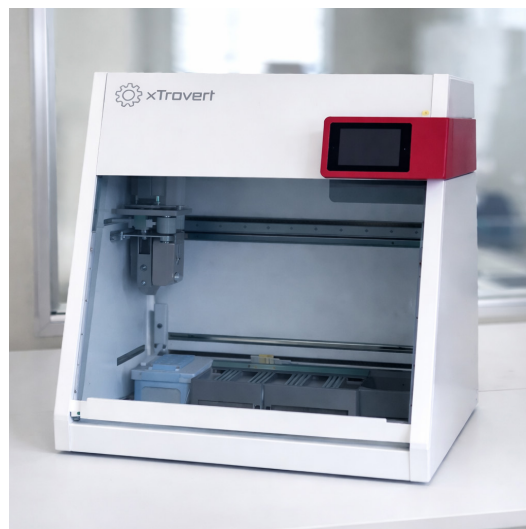


The ideal solution for modern laboratories in the field of molecular biology, genetics and diagnostics.

xTrovert™ FLEX

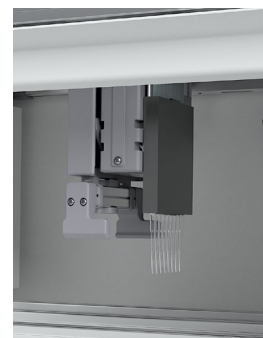
Flexible automation on your bench

xTrovert™ FLEX is a compact and affordable robotic system for laboratory automation. It delivers fully automated multichannel pipetting, liquid dispensing, plate handling and pressure-based purification in a modern benchtop format an ideal solution even for smaller laboratories. The modular design allows the system to be easily expanded with optional functions as laboratory needs evolve.



KEY FEATURES

- **Multichannel pipettor** for fast and accurate dosing
- 96-well plate handling
- Possibility to **mix and fill from up to 8 stock solutions**
- Built-in **dispenser and gripper** for sample handling
- Possibility to mix and dispense from up to **8 stock solutions**
- Advanced **positive pressure technology** for SPE filtration ensures **uniform flow and reproducible results**
- Optional add-on modules for **homogenization/pulverization, heating/incubation, and UV LED sterilization**



PERFORMANCE AND COMPATIBILITY

The system offers high throughput, allowing parallel processing of up to 4 × 96-well plates, for a total of up to 384 samples in a single run. It supports the use of up to eight different wash and extraction reagents within a single protocol, greatly expanding its application possibilities. The device is fully compatible with leading 96-well SPE systems, providing users with flexibility in choosing consumables.



Visite our
website!

SPECIFICATIONS

Capacity:	1 x 96 sample or cleanup plate 24 individual spin-columns
Display:	18.5" IPS/PLS touch screen
Connectivity:	USB 2.0 (480 Mbit/s), Wi-Fi (802.11a/b/g/n/ac/ax)
Power source:	100V-240V/50-60 Hz
Dimensions in cm:	70(w) x 65(h) x 55(d)
Weight:	30 kg

WHY XTROVERT FLEX?

- Multifunctional system for a **wide range of applications**
- Compact **benchtop format**, ideal even for smaller laboratories
- Highly reproducible results thanks to **positive pressure**
- Flexibility thanks to **open protocol programming**
- **Affordable path** to laboratory automation



Preparation of reaction components



Pipetting of dilution series



Distribution of liquids



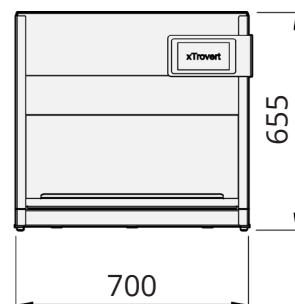
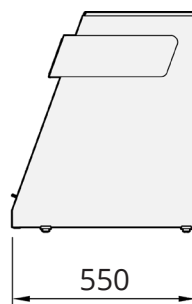
Filtration and purification



Solid phase extraction

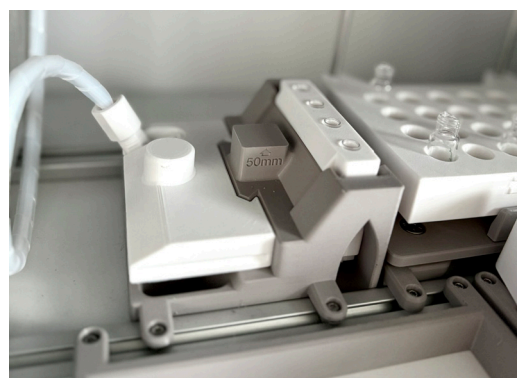
APPLICATION

- Purification of oligonucleotide synthesis products
- Organic synthesis
- Environmental analysis
- Medical diagnostics
- Molecular biology and biochemistry



EASY TO USE

The system is equipped with an Raspberry Pi® computer with an 800×480 RGB touchscreen LCD display, which ensures clear and intuitive operation. It also offers the possibility of remote access via Wi-Fi from a mobile phone, tablet or computer for convenient management and monitoring. For advanced users, a simple scripting language is available.



Bringing precision, flexibility and workflow automation to laboratories of any size.

Follow us...



WATREX PRAHA, S.R.O.

Drnovska 1112/60
CZ - 161 00 Prague 6
Czech Republic



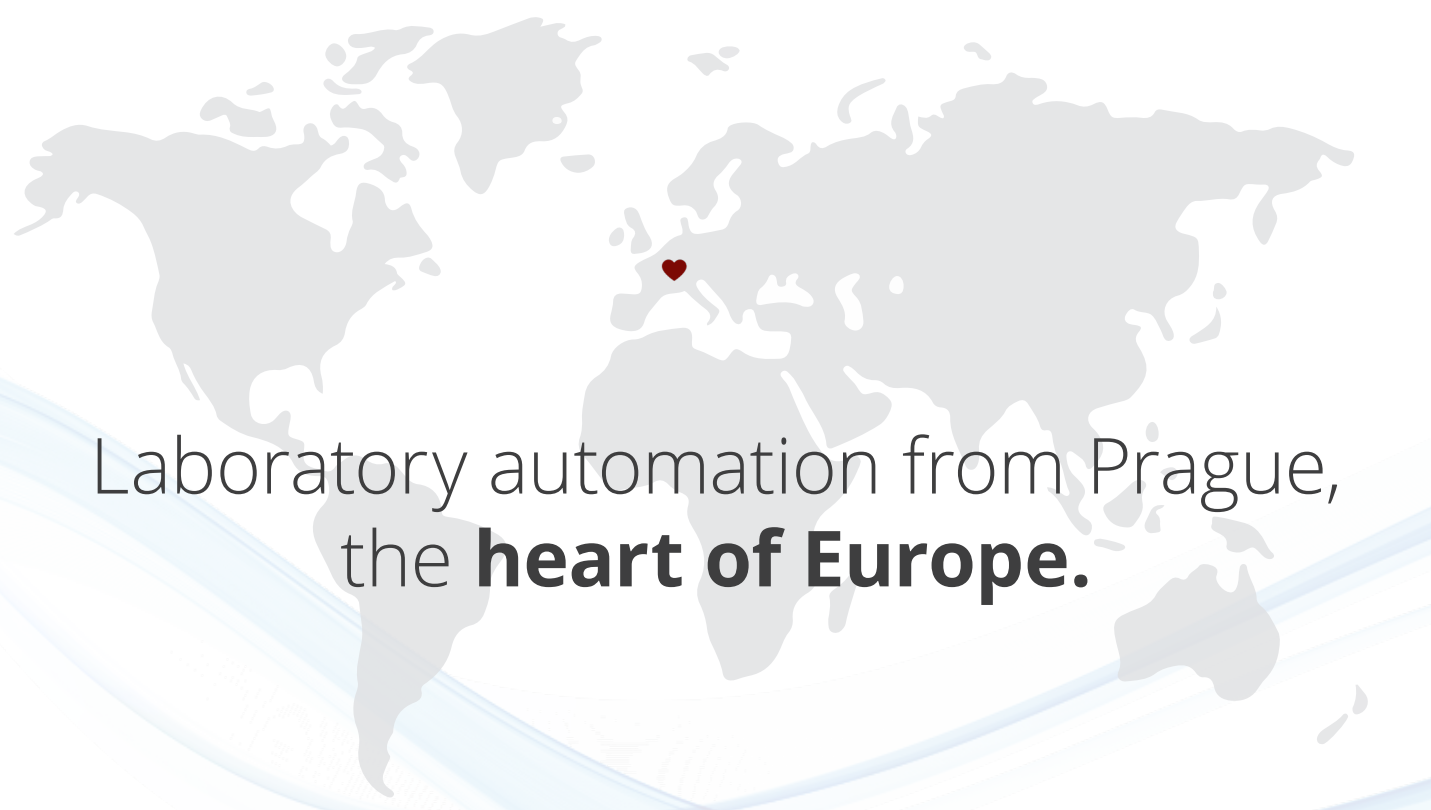
+ 420 226 203 500



watrex@watrex.com



www.watrex.com

A light gray world map with a small red heart marking the location of Prague in Central Europe. The map is overlaid with a blue wave graphic at the bottom.

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the **heart of Europe.**

