

## Environmental Chamber

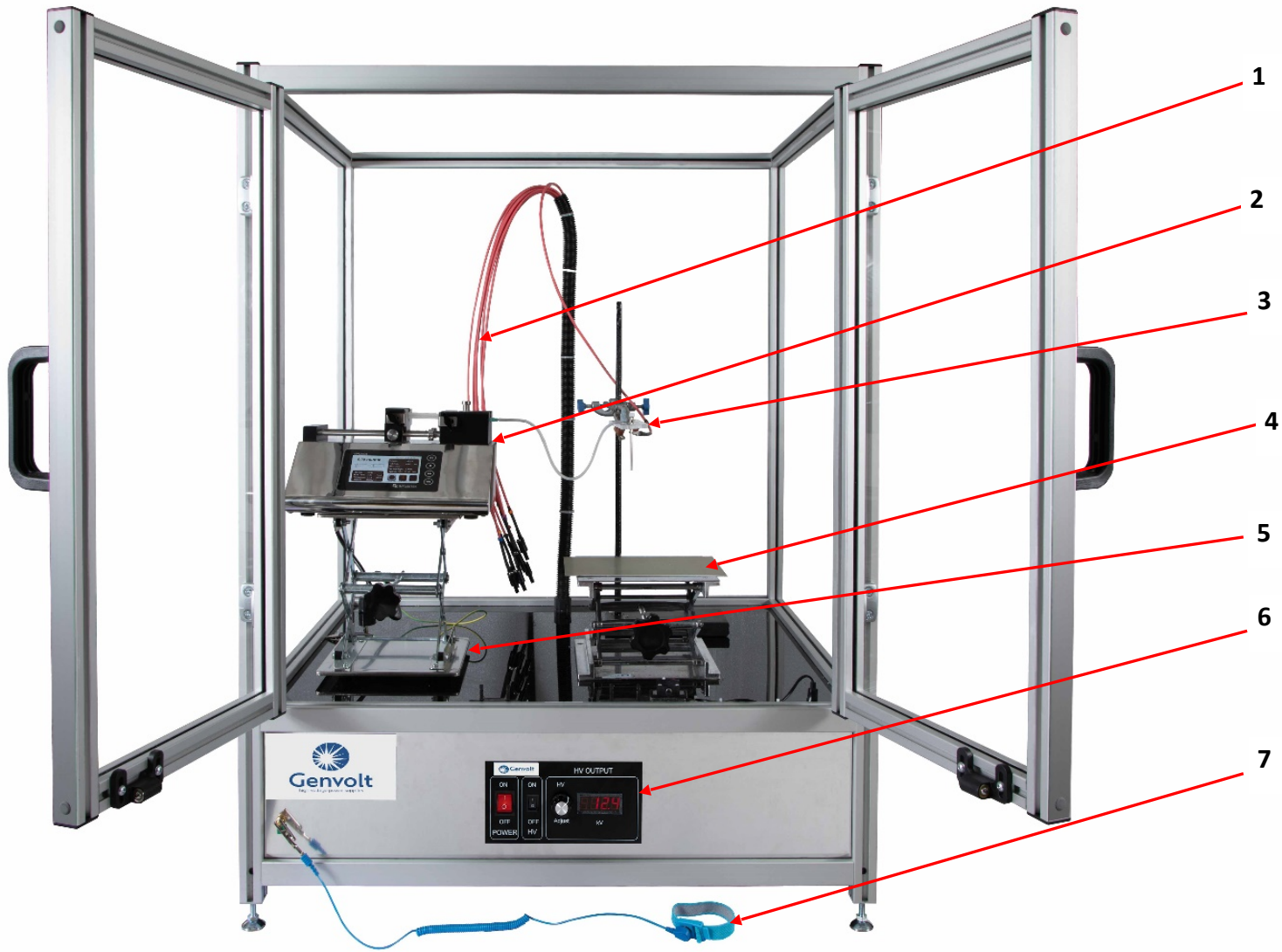
Genvolt are pleased to announce the launch of their new Environmental Chamber, suitable for Electrospinning and Electrospaying.

The Chamber developed in conjunction with Innovate UK funding and the collaboration of De Montfort University of Leicester is the result of an ongoing partnership that has been in place for some 7 years. Another spinoff from all this work was the successful application and granting of a KTP (Knowledge Transfer Partnership) which enabled a greater level of specific research into creating the ideal setup of Electrospinning and Electrospaying research more accessible to everyone involved in this unique and life changing area of science.

And for those that can remember this included the incredibly successful EDHA group, led by Professor Zeeshan Ahmed, who is a leading authority in both the fields of Electrospaying and Electrospinning, and leads a research team at DMU. The culmination of this project included Genvolt's development of modified and bespoke High Voltage Power Supplies designed specifically for Electrospinning and Electrospaying research and development.

To this end Genvolt have developed a "Modular" solution to this, developing a system whereby the customer can add to the start-up package as and when expansion and budget allow. (The Start Up package is detailed separately). Without changing the basic setup, a very large range of equipment can be added to perform the required work at hand.

As the UK's leading independent High Voltage power supply manufacturer, Genvolt are uniquely positioned to be able to call on others to work together to develop on-point solutions for some of the most demanding of conditions and material experiments. Please read on and discover more about the "Genvolt" modular attitude to making things happen in a controlled environment and see how this unique approach can help you with your experiments and research, all our products are supported in the UK, by our own specialist technical team, and all questions that you may have, are "Relevant" and "Important" to us as well as you.



  
**Genvolt**  
FOR THE HIGH-VOLTAGE RESEARCH

 **GENVOLT** HV OUTPUT  
ON OFF HV  
POWER HV  
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## **1. Spyder HV Splitter 1-8 Outputs**

The “Spyder” is a High Voltage (up to 30kV per output) that has been designed to provide multi-needle, balanced high voltage to individual needles. From our range of single output syringes to the incredible 8 needle “Halo” needle holder this unit can be inbuilt into environmental chamber either from the original order specification or supplied as an add on to the Genvolt modular system build.

## **2. Syringe Pump**

Our high-end quality syringe pumps are available as single output all the way up an amazing 12 output layout and are available in the following configurations, 1 output, 2 outputs, 4 outputs, 6 outputs, 8 outputs, 10 outputs and 12 outputs. For more information go to the Syringe Pump section for details and formats.

## **3. Needle Holders**

Genvolt provide a number of combinations of needle holders, that are all in-house designed and tested. Manufactured in-house from PETG.

PETG is a durable co-polyester (combination). The PET stands polythene terephthalate (similar to plastic water bottles) and the G means that it has glycol modified for extra durability. One great thing about PTEG is that it is very recyclable. For more information go to the Needle Holders section for details and formats.

## **4. Adjustable Worktable**

The medium weight adjustable worktable gives a stable platform for conducting a range of experiments upon. It is manufactured from high grade aluminum, providing good mechanical strength and ease of maneuverability, and can be adjusted through a large range of height settings using the rotary adjuster on the front of the worktable, this can be done within the environmental cabinet, along with accessible adjustment, to ensure results.

## **5. Adjustable Syringe Pump Table**

This heavyweight adjustable worktable gives an enhanced mechanical construction and provides an extremely stable platform for our range of syringe pumps. The table can be adjusted through a large range of height settings, enabling the customer to adjust for conditions and individual experiments. It is fully adjustable from the front rotary adjuster and is easily accessible from within the environmental cabinet. For more information go to the Adjustable Tables section for details and formats.

## **6. High Voltage PSU**

As a UK manufacturer, this is another in-house product from Genvolt and forms the core of our business.

The High Voltage Power Supply Unit is specified by the customer from a wide and varying range of power supplies that are available. Once again there are “Standard” power supplies that are considered to be matched to specific requirements, but as always, the customer can specify their own to suit their individual application. The power supplies are available as either +ve (positive) or -ve (negative output. For more information go to the High Voltage Power Supply section for details and formats.

## **7. Anti-Static Wrist Band**

A lightweight fully adjustable wristband that is bonded to earth for static discharge and also connected to an Earth Bonding Point with a 1 Megaohm resistance built in.

This helps prevent static build when working within the environmental cabinet, thus giving an extremely stable static free environment to work and conduct experiments. An absolute must for the laboratory environment.