

NEVA

Thermoelectric Chiller



PSL Rheotek is proud to introduce **NEVA**, a new compact thermoelectric re-circulating chiller with the capability to provide background cooling as well as heating.

NEVA has been developed using the latest solid-state components in conjunction with advanced thermo-dynamic modelling and embedded electronics.

NEVA is the ideal solution for precision cooling a wide range of applications including constant temperature baths, semi-conductors, lasers and other laboratory, medical or industrial equipment.

NEVA is your friend for cooling.

Features

- **Neva** is ruggedly designed
- **Neva** is low power consuming
- **Neva** is small and compact
- **Neva** provides a very stable temperature
- **Neva** is easy to operate with touch button OLED display
- **Neva** only uses solid state cooling components
- **Neva** is environmentally friendly

Operation

Neva is easy to set up and operate. The small foot-print means that **NEVA** can be easily accommodated wherever cooling or heating is required.

Neva will remember the last entered temperature set-point each time you switch on.

A five-button control pad provides easy access to menus

A bright OLED Screen clearly displays the temperature and the status of the instrument

Technology

Neva's technology is based upon a solid-state heat pump utilising the Peltier effect. Heat transfer is optimised using heat sinks, heat exchanger, flow pump and a fan. Optimised PID parameters control the stability of the desired temperature set-point to 0.1°C.



PSL Rheotek are the trade names of Poulten Selfe and Lee, a UK company established in 1850.

The Company has a long tradition of developing and manufacturing scientific measuring instruments – primarily for viscosity, temperature and density.

The Company is embracing new technology and has a strong development team in the areas of heat transfer, embedded electronics and robotics.

The PSL Calibration Laboratory is accredited in viscometer and temperature calibration.

Going forwards, the company is developing a range of ambient as well as sub-zero cooling products.

NEVA TEC Specifications

Cooling Mode:	
Cooling output at 20°C	120 W
Cooling output at 10°C	70 W
Cooling output at 5°C	50 W
Heating Mode:	
Heating output at 20 deg. C	184 W
Temperature stability	
	+/- 0.1°C
Temperature operating range	
	2 to 85 deg. C
Pump rate (max)	
	0.6 L/min
Reservoir	
	120 mL
Dimensions: (w x l x h)	
	143mm x 177mm x 220mm
Weight	
	4.8 kg
Interfaces	
	RS232, RS485
Pump connections	
	Quick connect
Power requirement	
	100 – 240 VAC

Ordering Information

Part Ref	Description
EVS-SSC-100	NEVA Solid State Chiller – with 120 W cooling output at 20°C
EVS-SSC-072	Spare chiller tubing kit – including tubing, insulation and hose clamps.
RP00253	Coolant solution