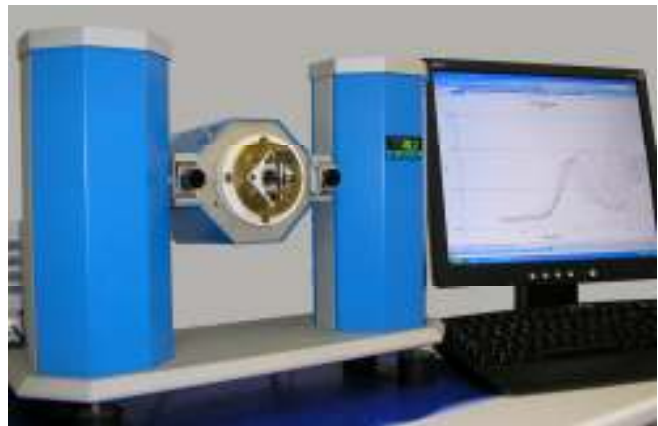




## Product Information Sheet – DS6000 and DS6010 Dielectric Thermal Analyser systems

The DS6000 range offers the most flexible, cost effective Dielectric Thermal Analyser systems available today. Its features include:

- Low Thermal Mass assembly
- Highly efficient and fast cooling available
- Start Temperatures from -190°C
- Cup Electrodes for liquids
- Unique rotating head design
- High performance to cost ratio
- Unparalleled flexibility
- Lowest temperature range
- Advanced control via Triton Laboratory software



## Specifications

<b>Rotational Analytical Head:</b>	Vertically up Vertical down Horizontal (forward) Any angle in between
<b>Environmental Conditioning:</b>	Air oven (standard)
<b>Temperature Range:</b>	Standard Furnace     -190°C to 400°C
<b>Heating and Cooling Rates:</b> (standard air oven)	Heating rate 0 to 20°C/min (mid range) Cooling rate 0 to 40°C/min (mid range) Isothermal
<b>Coolant Consumption:</b>	-100°C            5 minutes            0.3 L Liquid N <sub>2</sub> -150°C            10 minutes           <1 L Liquid N <sub>2</sub> -190°C            15 minutes           <1 L Liquid N <sub>2</sub>
<b>Frequencies:</b>	Range: 0.012 kHz to 100kHz Max. Number Up to 100 per experiment Precision        0.001Hz

<b>Voltage range AC:</b>	0 to 1.275V in 5mV steps	
<b>Voltage range DC:</b>	2V internal and 30V external	
<b>Tan <math>\delta</math> resolution:</b>	0.0001	
<b>Capacitance range:</b>	$10^{-5}$ pF to $10^5$ $\mu$ F, sample >10pF	
<b>Dynamic Impedance range:</b>	$10^{-5}$ $\Omega$ to $10^5$ k $\Omega$	
<b>Electrode Types:</b>	10mm, 33mm, 40mm, Parallel plates 40 mm Cup Titanium, low mass design	
<b>Gap Range:</b>	0 to 5mm	
<b>Gap measurement:</b>	Sample measurement	
<b>Instrument Footprint:</b>	170mm depth x 475mm width x 340mm height	
<b>Instrument Weight</b>	15 kg	
<b>Optical Window:</b>	Standard 45mm diameter borosilicate Optional quartz window available Optional lateral windows or apertures available	
<b>Connections:</b>	Electrical	85 to 264V AC, 600VA
	Interface	1 USB input
	Purge Gases	via 6mm purge inlets
	Cryogenic Fluids	via 6mm inlet ports

## Packing List

DS6000:  
Titanium Electrodes;10,33,40 & Cup  
Basic tool kit  
Triton Laboratory software  
Open Circuit jig  
USB Connection cable

Digital Micrometer  
Test samples  
Standard power cable

DS6010:  
As DS6000 + 1litre self pressurizing LN2 Delivery System

### Options

Minisputter Coater

10 litre Autocryo system