

TECHNICAL DATA SHEET



GEN3 SYSTEMS LIMITED
Unit B2, Armstrong Mall,
Southwood Business Park,
Farnborough, Hampshire,
GU14 0NR, UK

T: +44 (0)12 5252 1500

F: +44 (0)12 5252 1112

E: sales@gen3systems.com

DC2002 Nanocoat Tank with RPS

Description

The DC2002 Nanocoat is normally fitted with a 24" (610mm) electro-polished stainless steel tank.

When the RPS (Recirculation Pumping System) system is fitted, a weir plate is installed into the tank. The purpose of the weir and pumping system is to maintain a constant level for precision dip coating. When the object to be coated is immersed into the tank the coating material is displaced and cascades over the weir where it is slowly pumped back into the main tank. (See page 2). The pump also helps in maintaining homogeneity of the material.

TANK DIMENSIONS (mm)

<u>Length</u>	<u>Usable Width</u>	<u>Usable Depth</u>	<u>Total Width (incl. weir)</u>	<u>Weir Width</u>	<u>Top of tank to top of weir</u>	<u>Volume litres</u>
610	200	300	250	50	50	46



ENGINEERING RELIABILITY IN ELECTRONICS

INCORPORATING GEN3 KINEMATICS

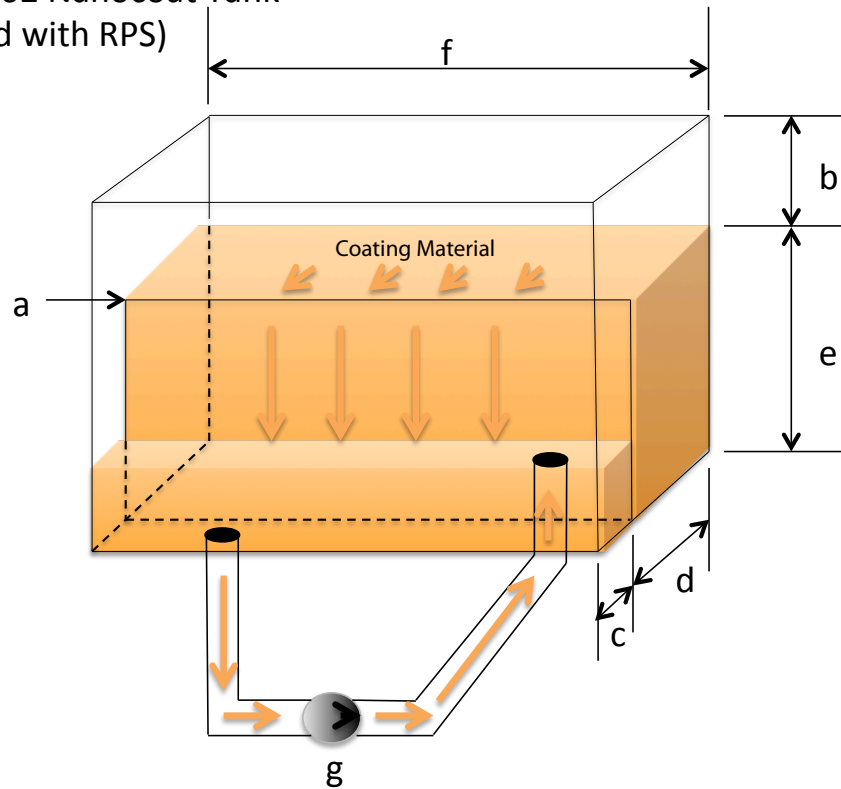
Chairman: **A.W.Naisbitt**, Managing Director: **G.K.Naisbitt**
Registered office as above. Registered No. 4639449 (England & Wales)
VAT No. GB 838 6776 67



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DC2002 Nanocoat Tank (fitted with RPS)



Key	
a	Weir
b	Freeboard
c	Weir width
d	Usable tank width
e	Usable tank depth
f	Tank length
g	Pump

* Not to scale

Definitions:

1. Freeboard: Area above the surface level of coating material to the very top of the tank.
2. GIS (Gas Inerting System): A simple manifold comprising several nozzles fitted within the freeboard area of the tank. The GIS supplies an inert gas such as argon or nitrogen (from the factory supply or bottle) to fill the area above the coating material in the tank. This prevents the material coming into contact with the atmosphere, which can cause oxidation. Using the GIS helps to maintain viscosity too.
3. Usable tank dimension: The area in the main tank that can be used for processing.
4. Pump: Pneumatically driven double diaphragm pump