

 **KSV NIMA** | Dip Coaters

Accessories



KSV NIMA Dip Coater Accessories

KSV NIMA Dip Coaters are robust computer controlled instruments for precise and straightforward film deposition, for small and large

samples, in single or multiple vessels. The accessories listed are available to add further capabilities to your dip coaters.

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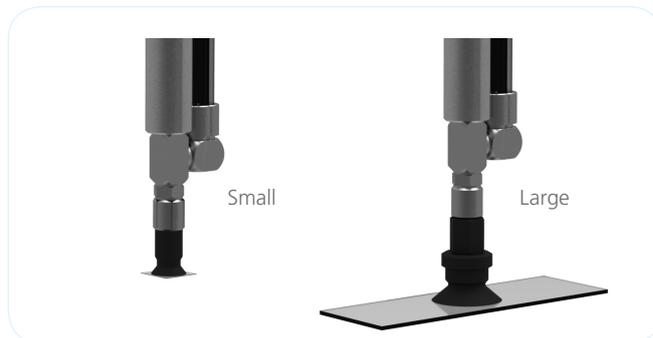
A - ALL DIP COATERS

1. Sample holder

Vacuum pump based horizontal dipping clamp | ref. KN 0006

To perform horizontal deposition. The holder consists of a suction pump (not shown here) connected with flexible tubing to a sample holder rod. On the end of the sample holder is a soft rubber suction cup that creates a vacuum when brought into contact with a substrate.

Two sizes of interchangeable suction cup are provided. The large suction cup has a diameter of 18mm. The small suction cup has a diameter of 7mm.



2. Environmental control

Active vibration isolation system | ref. AVS-SMALL

The active vibration isolation system eliminates vibrations in order to improve the stability when depositing and characterizing. It enables you to eliminate disturbing vibrations caused by other instruments, buildings and constructions in a zone of seismic activity, cars and traffic in general.

Specifications:

- Element dimensions: 636 x 130 x 111 mm
- Breadboard size (effective surface area): 100 x 600 x 60 mm
- Load capacity: 300 kg (150 kg per element)
- Isolation performance: min. 25 dB (94.4%) at 5 Hz, 35 dB (98.2%) beyond 10 Hz
- Manual load adjustment
- Analog diagnostic output (BNC)



Active vibration isolation system small ref. AVS-SMALL

Thermostatic vessel (from -10 to +100°C) | ref. T705

Thermostatic jacket for temperature control of the liquid sample. A heat exchange vessel with water jacket construction. Heating/cooling of the water jacket by external bath/circulator (e.g. KN 0008 or KN 0010). Fits glass sample vessel 70 mm in diameter (T104). Temperature range from -10 to 100°C.

Note 1: Requires external bath/circulator (e.g. KN 0010) which is not included.

Note 2: This item is not available with the KSV NIMA Dip Coater Multi Vessel Small (see instrument dedicated section for a suitable alternative).



Bath/circulator, Julabo F12-MA | ref. KN 0008

A computer controlled (can also be used as standalone) bath/circulator for sample liquid temperature regulation. It can be connected to the Dip Coater Software for fully automated temperature control. Temperature range -20 to +200°C. Stability 0.03°C. Digital readout. Bath opening 130x150mm, bath depth 130mm, volume 4.5L. Dimensions 200 x 360 x 560 (W,L,H).

Bath/circulator, Julabo F12-ED | ref. KN 0010

A standalone water bath/circulator for liquid temperature regulation. Temperature range -20 to +100°C. Stability ±0.03°C. Digital readout. Bath opening 130x150mm, bath depth 130mm, volume 4.5L. Dimensions 200 x 360 x 560 (W,L,H).



3. Sample vessels

Glass sample vessels for T705 | ref. T104

Sample vessel, diameter 70 mm, 5 pcs/box. Fits in thermostatic vessel (T705).



3. PC & Software

Computer with pre-installed software | ref. KN 4023

Computer with KSV NIMA Dip Coater software already installed.

B - KSV NIMA DIP COATER Single Vessel Small

1. Sample holder

Additional sample clip holder | ref. KN 4020

An additional sample clip holder includes a rod and a clip for samples up to 150g. Possible sample dimensions: Height 15...70 x Width 5...150 x Thickness 0.15...3 mm. The KSV NIMA Dip Coater Single Vessel Small comes with one sample holder but can be equipped with 2 additional holders for simultaneous dipping of 3 samples.



Easy addition of 1 to 2 holders

Multiple sample clip holder | ref. KN 4021, KN 4022

A sample holder enabling simultaneous dipping of several substrates. The holder can be 6 clips (KN 4021) or 10 clips (KN 4022). Each clip can be rotated to the desired position (e.g. to have the samples sideways). Each clip can hold up to 150 g. Please see drawing at the bottom of the page for all dimensions.

Note: The standard vessel provided with the instrument cannot be used with the multiple sample clip holders.



The orientation of each clip is easily controlled.

2. Environmental control

Cabinet | ref. CABI DC

A dust and draft excluder to protect the instrument from airborne particles and airflow. Frame in aluminium, inlet holes for circulator tubes and power cable, one door. Dimensions (mm): 772 height x 560 width x 510 depth.



C - KSV NIMA DIP COATERS Single/Multi Vessel - Medium/Large/Extra Large

1. Sample holder

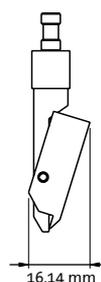
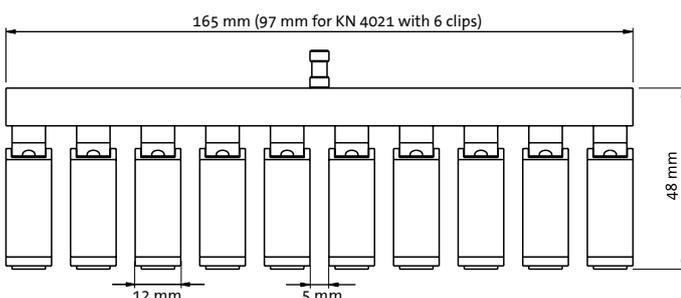
Multiple sample clip holder | ref. KN 4021, KN 4022

A sample holder enabling simultaneous dipping of several substrates. The holder can be 6 clips (KN 4021) or 10 clips (KN 4022). Each clip can be rotated to the desired position (e.g. to have the samples sideways). Each clip can hold up to 150 g. Please see drawing at the bottom of the page for all dimensions. Note: The standard vessel provided with the instrument cannot be used with the multiple sample clip holders.



The orientation of each clip is easily controlled.

KN 4021 and KN 4022 dimensions:



This sample clip holder is provided with every KSV NIMA Dip Coater Medium/ Large.

Sample specifications:
Weight: 0...500 g
Thickness: 0.15...15 mm

2. Environmental control

Temperature measurement probe | ref. KN 0054

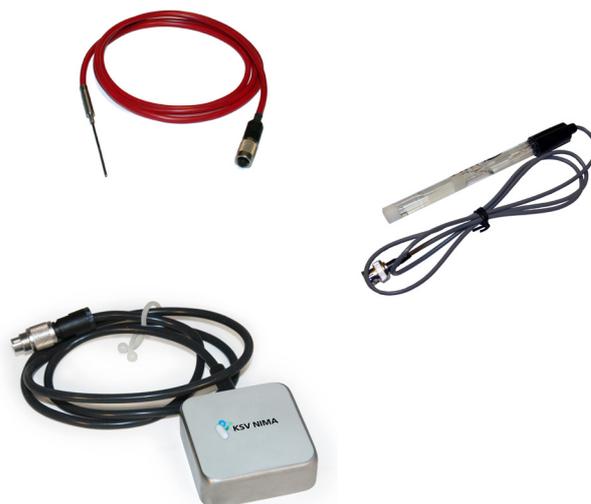
Temperature probe is already included in the KSV NIMA Dip Coater Multi Vessel systems, this is only for replacement and spare part. Requires KSV NIMA interface unit.

pH measuring probe for KSV NIMA System | ref. KN 0011

A probe to measure pH in your liquid sample. The probe is connected to the Interface Unit.

Magnetic stirrer | ref. KN 0012

The magnetic stirrer connects to the Interface Unit for computer controlled liquid sample stirring. It comes with a teflon coated stirring bar. Please note that KSV NIMA does not provide any holder to place sample vessels above the stirrer.



D - KSV NIMA DIP COATER Multi Vessel Small

Glass sample vessels | ref. KN 0058

Glass vessels for KSV NIMA Dip Coater Multi Vessel Small. Diameter 48 mm, Volume 100ml. 8 pcs/box.

Note: 8 vessels are provided with every instrument. This item is for replacement or spare parts only.

Thermostated glass vessels | ref. KN 0059

Water bath thermostatable glass vessel for KSV NIMA Dip Coater Multi Vessel Small. Diameter 48 mm. Temperature range -20 / +100°C.

Note: Requires external bath/circulator (e.g. KN 0008 or KN 0010) which is not included. KN 0008 and KN 0010 are available on page 3.

Temperature measurement probe | ref. KN 0054

Temperature probe is already included in the KSV NIMA Dip Coater Multi Vessel systems, this is only for replacement and spare part. Requires KSV NIMA interface unit.

pH measuring probe for KSV NIMA System | ref. KN 0011

A probe to measure pH in your liquid sample. The probe is connected to the Interface Unit.

Cabinet | ref. CABI DC

A dust and draft excluder to protect the instrument from airborne particles and airflow. Frame in aluminium, inlet holes for circulator tubes and power cable, one door. Dimensions (mm): 772 height x 560 width x 510 depth.



Specifications and appearance are subject to change without prior notice. Biolin Scientific shall not be liable for any errors in this document.