

INTERPRETATION OF RESULTS

The Recorders define stages in the drying process as:-

Stage 1 A pear shaped impression corresponding to the time taken for evaporation of solvent.

Stage 2 The cutting of a continuous track, corresponding to a sol-gel transition.

Stage 3 An interrupted track corresponding to the surface-dry time.

Stage 4 The needle no longer penetrates the film, corresponding to the final drying time.

Brass weights, each weighing 5 grams, may be used to apply greater pressure on the needles and thus record the through-drying properties of alkyds, varnishes and paints. The BK Drying Recorders will give useful information about the gelation times of many two component surface coating materials, and about the properties of such films.

SPECIFICATION

RATING: 220-240 volts 50 hz 0.1 amp or 100-115 volts 60 hz 0.1 amp
(other voltages available at either 50 or 60 hz)

FUSES: 1 amp. anti-surge (T) 5 x 20 mm.

OPERATING CONDITIONS : Indoor use
Altitude up to 2000 metres
Ambient temperature 5°C to 40°C
Maximum RH 80% up to 31°C decreasing linearly to 50% RH at 40°C
Installation Category II
Pollution degree 1 or 2 (IEC 664)

	BK-3 SPEED	BK-6	BK-10
DIMENSIONS (cms)	: 47 x 22 x 12	46 x 35 x 15	46 x 53 x 15
WEIGHT (kg)	: 3.4	7.1	11.4

WARRANTY

This product is guaranteed against defects arising from faulty workmanship or materials for a period of one year from the original date of purchase, provided that the equipment has been used solely within the guidelines set by the operating instructions. Return the equipment to us and we will rectify the fault free of charge. This guarantee in no way affects your rights under statutory law.

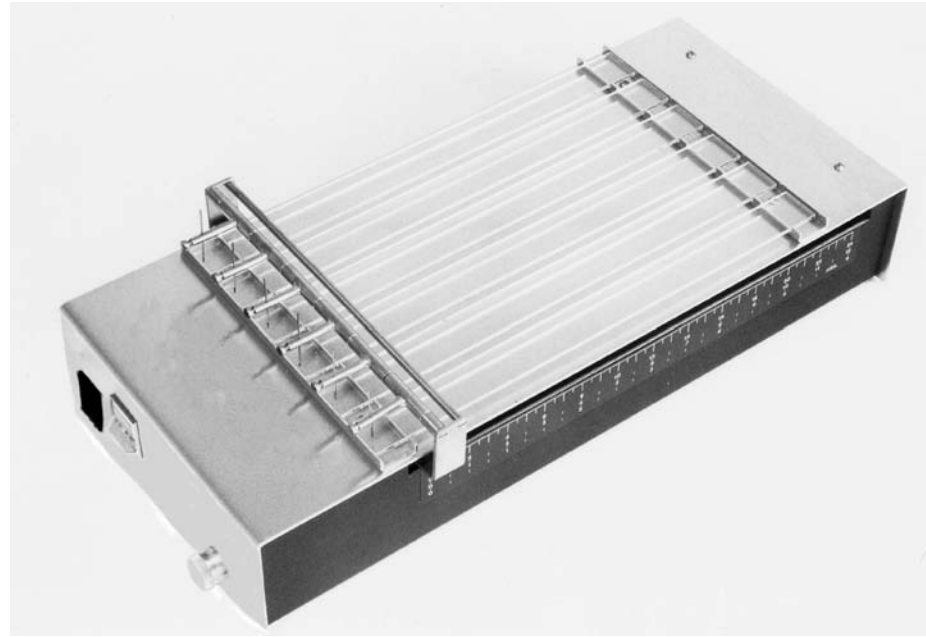
DISPOSAL OF YOUR OLD APPLIANCE



This appliance is labelled in accordance with the European Directive concerning the disposal of waste electrical and electronic equipment – WEEE. The guideline determines the framework for the recycling of used appliances as applicable throughout the EU.

THE BK DRYING RECORDERS

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BK 3

The BK 3 speed Drying Recorder has been used widely in the coatings industry throughout the world for several decades. A needle carrier holding six hemispherical ended needles travels the length of the six 305 x 25 mm test strips in 6, 12 or 24 hours. Other speeds are available to special order. A time scale on the side cover is graduated to suit the three different travel times.



BK 6



BK 10

The BK 6 and BK 10 Recorders have independently operating tracks allowing tests to be made at different start times. Pairs of tracks operate at the same speed, and a wide range of travel times are available. Travel times of 6, 12, 24 and 48 hours are all considered as standard. A time scale on the front cover is graduated to suit the instrument's drying time ranges. Each pair of tracks has its own individual operating switch.

IMPORTANT

The wires in the mains lead supplied with this appliance are coloured in accordance with the following code:

Green and Yellow : Earth Blue : Neutral Brown : Live

As these colours may not correspond with coloured markings identifying the terminals in your plug, connect as follows:

Green and Yellow wire to the terminal marked with the letter E or by the earth symbol \perp or coloured green and yellow.

Blue wire to the terminal marked N or coloured blue.

Brown wire to the terminal marked L or coloured brown.

WARNING: THIS APPLIANCE MUST BE EARTHED.

It must be fitted with a 3 pin plug and only connected to an a.c. supply having a voltage corresponding to that marked on the appliance. When a fused plug is used, it should be fitted with a 3 amp fuse, if in doubt consult a qualified electrician, since these instructions must be observed.

Use the recorder on a firm bench and do not restrict ventilation by using in a confined area.

Any surplus paint should be wiped off the recorder with a dry cloth. We do not recommend the use of solvents.

If an object is accidentally dropped into the recorder, immediately disconnect from the main supply and retrieve the object. If the equipment has been dropped or damaged in any way, it should be checked before connecting to the supply. Similarly, although the equipment is lubricated for life, any work (especially involving the removal of covers) must be carried out by a competent service engineer.

In the interests of safety, always use the equipment in the specified manner.

OPERATING PROCEDURE

1. With the Recorder switched off, place the glass test strips in their holders on the top of the recorder and clamp a needle into each needle holder making sure that the needle arm is horizontal when the needle end is resting on the glass strip. If it is necessary to move the needle carrier in order to bring the needle directly over the glass strip, first lift the release lever on the back of the needle carrier (BK 3 model) or depress the plunger on the top of the needle carrier (BK 6 and 10 model) and slide the carrier to the required position.
2. Raise the needle holder arms so that the needles are lifted off the glass strips and position the arms against the back-rest. Slide the needle carrier to the start position at the zero end of the time scale.
3. (BK 3 model only). The required travel time is obtained by turning the selector knob in a clockwise direction and sliding it in or out to expose the desired travel time and then releasing the knob.
4. Remove the glass strips and apply a paint film to them (our Applicator cube and Casterguide are recommended for this) and replace them on the Recorder.
5. Lower the needles onto the test strips and switch on at the main switch (marked O/I). (Note: BK 6 and BK 10 models only. Each switch on the top cover alongside the glass strips operates the pair of needle carriers to which it is closest. Switch on these switches as required.) The needles will now commence their run along the glass strips and automatically stop at the end of their travel, (a few millimetres before the end of the time scale.)
6. Switch off the Recorder and remove the glass strips for analysis.