



## Boekel Replicators 140500, 140501, 140384, 140384T1

**Always observe the following safety precautions :**



Do not immerse the entire replicator in a bath or washer.



Do not use with a sonicator or put into an ultrasonic cleaner.



**Caution :** Never place hot or glowing pins into flammable liquids as a fire may result causing user injury and/or lab damage.

### PRODUCT INFORMATION

The Boekel Replicators models, 140500-96 pin, 140501-48 pin, 140384-384 pin are designed for transferring microliter quantities of sample, buffer or inoculums from microwell plates/blocks to other plates/blocks or to a solid support or filter paper. The model 140500-96 pin is designed for the 96 well spacing to transfer from half a plate/block to a Petri dish or solid support. The volume transfer is 1 microliter.

### PRODUCT PERFORMANCE

Boekel's replicators are manufactured from stainless steel and aluminum to withstand rigorous lab use and cleaning.

The replicators can withstand flame sterilization or autoclaving if sterilization is required. DO NOT put the replicator pins into a flame for more than a few minutes. Prolonged heating or very high temperatures can damage the materials that hold the pins to the base.

Use care in unpacking and in use not to bend the pins. If the replicator is dropped the pins will bend and they will need to be straightened to the original position. DO NOT over bend the pins.

The replicators are designed to be used to transfer all types of liquids; however some strong solvents and acids will discolor the metal. The replicators are NOT designed to be used in strong acids or alkalis. DO NOT use HCL as it will cause the replicators to oxidize. A soft cloth should be used to wipe the pins after DI rinse or after flame sterilization. Make sure that the pins have cooled after flame sterilization.

Please use the handle when flame sterilizing as the base plate will get hot and can cause injury.

## CLEANING PROCEDURES

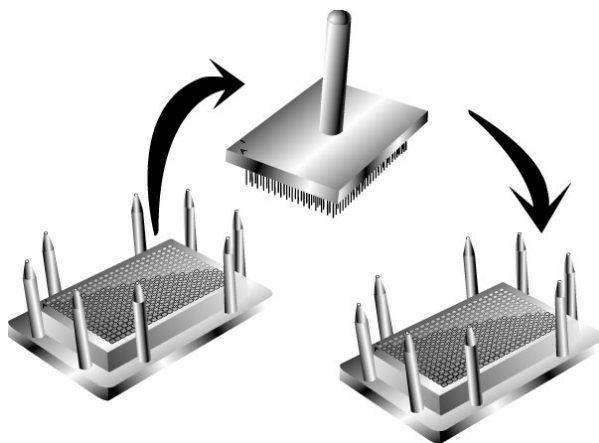
It is recommended that the replicator pins be rinsed in a solvent such as acetone or one similar to the type of sample being used and then DI rinsed to remove any foreign material. If the substance being replicated is sticky or thicker than water, then a cleaning with a fine nylon or wire brush can be used in addition to the solvent. It is best to rinse and pat dry with a soft cloth after using a brush. Since the replicator pins are generally what are coming in contact with the transfer liquid, it is recommended that only the pins be cleaned by the above method. **DO NOT IMMERS**E the entire replicator in a bath or washer as it could damage or dislodge the pins. **DO NOT USE WITH A SONICATOR OR PUT IN AN ULTRASONIC CLEANER.**

Caution: If a wire pad or brush is used it can remove material from the pins and change the flatness or the face and negatively affect the liquid transfer.

## SPECIFICATIONS

	96 Pin Replicator 140500	48 Pin Replicator 140501	384 Pin Replicator 140384	Template 140384T1
Product Dimensions: Width x Length x Height	11cm x 7.6cm x 11cm (4-1/2in x 3in x 4-1/2in)			N/A
Net Weight	0.6kg (1-1/4lb)	0.45kg (1lb)	0.6kg (1-1/2lb)	0.6kg (1-1/2lb)
Shipping Weight	1.5kg (1-3/4lb)	0.7kg (1-1/2lb)	0.9kg (2lb)	0.9kg (2lb)
Pin Length	2.54cm (1in)			N/A
Pin Size	1.5mm x 1.5mm (1/16in x 1/16in)			N/A
Pin Design	Flat, Square	Flat, Square	Flat, Square	N/A

\***Note:** Template is available for the 140384 replicator only. Both 140384 and 140384T1 are labeled with "A1" for correct plate orientation. It is recommended that 2 templates are used when replicating between two 384 plates.



## **RETURN PROCEDURES**

It is required to obtain a Returned Material Authorization (RMA) number before any Boekel products are returned for any reason. A Decontamination Certificate must be completed, signed by the user, and returned to Boekel Scientific prior to receiving the RMA number. Please be sure to mark the outside of the returned goods package with this RMA number to ensure prompt handling.

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