

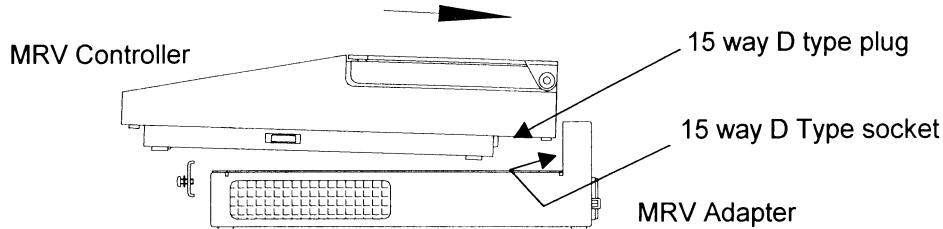
# MRV ADAPTER INSTALLATION INSTRUCTIONS



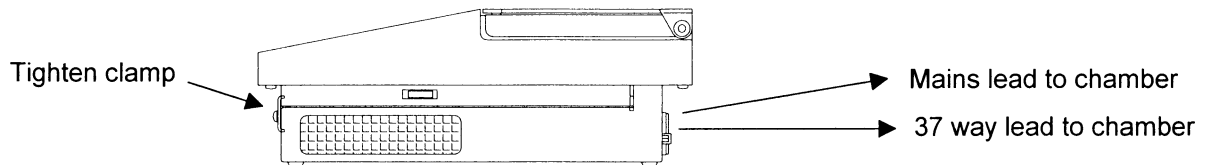
Please read the safety instructions overleaf before proceeding with the installation.

## Installation

- ❖ Take the MRV Controller and carefully align with the 15 Way D Type socket connector at the rear of the MRV Adapter.



- ❖ Gently push the MRV Controller back until the connectors are securely mated. Note that there is a small tag at the rear of the Adapter which slots into the rear of the MRV Controller.
- ❖ Align the clamp at the front of the MRV Adapter so that it fits into the slots at the front of the MRV Controller and MRV Adapter. You may need to apply slight downwards pressure on the front edge of the MRV Controller.



- ❖ Tighten the screw at the front of the clamp to secure the MRV Controller to the MRV Adapter.
- ❖ Connect the 37 Way D Type plug on the lead from Kryo 10 Series III Chamber to the connector at the rear of the MRV Adapter.
- ❖ Connect the mains lead normally used for connecting the K10-22 Controller, from the Auxiliary power outlet at the rear of the Kryo 10 Series III Chamber to the inlet at the rear of the MRV Adapter.
- ❖ Position the MRV Controller and Adapter assembly so that the side ventilation grilles are at least 50 mm clear of any obstruction.
- ❖ The system is now fully connected.
- ❖ Connect the Kryo 10 Series III Chamber to the mains supply. Refer to the Kryo 10 Series III Operating Manual, MA007489.
- ❖ Apply power to the system.
- ❖ Refer to the Series 300 & 500 Operator's Manual MA007944 and Kryo 10 Series III Operating Manual, MA007489 for operating instructions.

## Troubleshooting and Maintenance

Refer to the Series 300 & 500 Operator's Manual MA007944



Do not allow water or other liquids to enter the MRV Adapter.

To clean the MRV Adapter, disconnect the mains power supply cord. Wipe the MRV Adapter with a damp cloth containing water and detergent or IPA (alcohol).

## Specifications

Model number	GDMRV-ADAPTER
Storage temperature	-10°C to +50°C.
Storage humidity	5% to 95% relative humidity non-condensing.
Operating environment	For indoor use only
Operating temperature	5°C to +40°C.
Operating humidity	5% to 90% relative humidity non-condensing.
Dimensions	85 mm high x 195 mm wide x 300 mm deep
Weight	1.9 Kg
Power Requirements ( Adapter + MRV only)	115-230V~, 1A, 50 - 60 Hz Maximum inrush current 36A @230V
Mains Inlet Fuse	T 1A 250V 20 x 5 mm glass, PPL Number FL011977

# MRV ADAPTER INSTALLATION INSTRUCTIONS

## Notices

All equipment supplied by Planer Products Ltd. is subject to a Warranty Agreement and Limited Liability. Please ensure that you read these documents before using the equipment. If you cannot locate this documentation, please contact your supplier who will be able to provide you with copies. Planer Products Ltd. reserve the right to alter products and their specifications without notice

## Symbols Used in this Manual



Failure to follow these instructions could result in personal injury.



Failure to follow these instructions could result in damage to equipment or samples.

## Symbols Used on the Equipment



Caution: Refer to this manual and accompanying documentation



Alternating current

## Safety



**Failure to comply with these instructions could result in personal injury**

- ❖ These instructions must be read in conjunction with the Series 300 & 500 Operator's Manual MA007944 and the Kryo 10 Series III Operating Manual, MA007489.
- ❖ Operating the system in a manner not specified within in this manual or under conditions outside of the specifications may result in the protection offered by the equipment being impaired.
- ❖ Always disconnect the MRV Adapter from the mains power supply before removing the MRV Controller.
- ❖ The MRV Adapter must never be connected to the mains supply when the MRV Controller is not attached to the MRV Adapter.
- ❖ User servicing is limited to cleaning and replacement of the mains inlet fuse (see overleaf). All other servicing must only be undertaken by suitably qualified engineers.
- ❖ To avoid risk of fire, fuses must always be replaced with the same type and rating.

## Introduction

The MRV Controller is designed to be used with the Kryo 300 and 500 range of freezers. However, by using the MRV Adapter, the MRV Controller can be connected to the existing range of Kryo 10 Series III chambers to replace the original K10-22 (MR3) Controller. Note that in order to comply with EMC regulations, the MRV Adapter should only be used with the CE marked chambers.

These instructions provide details on how to connect the MRV Controller to the MRV Adapter. For information on using the MRV Controller, refer to the Series 300 & 500 Operator's Manual MA007944. For information about the Kryo 10 Series III chamber refer to the Kryo 10 Series III Operating Manual, MA007489. If you cannot locate these manuals, do not proceed with the installation, but contact your supplier to obtain copies.