

DPL 5000D Controller Replacement Kit

This controller kit replaces faulty, water damaged, or burnt out DPL 5000D series Heat Pump Controllers. It is the **only kit available** to replace the DPL5000D series of Heat pump controllers used on DPL Heat Pumps.

Please note this DPL5000D kit ***does not*** replace faulty 5000A, 5000B, or 5000C controllers

The kit comprises of a pre-programmed Eliwell ID 974, 12 vac digital microprocessor controller, plus all parts needed to fit the controller, including easy to understand step-by-step fitting instructions.

The Eliwell ID947 controller is very versatile and reliable, built in Italy to exacting European standards. Its case conforms to IP65 moisture ratings. The screen is made of UV stabilized polycarbonate resin, the display is bright with a decimal point, and will not fade. Millions are in use worldwide.

It retains the same degree of protection as the original controller, namely high pressure, low pressure and water flow protection.

It is very easy to fit, and no special skills or tools are needed.



Please read all the fitting instructions before attempting to fit the kit.

1. Removal and Preparation

- 1.1. Turn off the mains supply to the Heat pump.
- 1.2. Remove the side panel of the heat pump where the faulty controller is fitted.
- 1.3. Disconnect the 4 & 6 pin plugs from the faulty controller
- 1.4. Disconnect the 3 red, white and black probe plugs.
- 1.5. Remove the controller from the panel.
- 1.6. Apply the super glue gel supplied sparingly to the OUTSIDE of the panel.
- 1.7. Moisten the black Perspex adaptor plate, to assist curing and press onto the panel.
- 1.8. Place aside to allow the glue to set.

2. Probes

- 2.1. Remove and discard the water, defrost, and air probes from the old controller, noting their locations. They will not work with this controller.
- 2.2. The new labelled probes supplied with the controller need to be fitted.
- 2.3. Fit the water probe to the bottom of the heat exchanger. It is labelled "water".
- 2.4. Fit the defrost probe to the same location on the evaporator coil as the original defrost probe. It is labelled "defrost".
- 2.5. No air probe is needed with this controller.
- 2.6. Run the probe cables into the controller box and secure with cable ties.

3. Wiring

- 3.1. Disconnect the 9 coloured wires from the back of the new Eliwell controller, it does not fit through the hole with the wires attached.
- 3.2. Fit the new controller into the black Perspex adapter plate which was glued previously to the panel, and secure with the sliding side clips.
- 3.3. Reconnect the 9 wires to the Eliwell as per the wiring table. It is VITALY important that the wires are connected in exactly the same position that they were taken out. Recheck that they are correct, if they are wrong it will **destroy the Eliwell** ----- This will void the warranty.

Eliwell Wiring	
Terminal	Wire
Terminal 0	Empty
Terminal 1	Yellow
Terminal 2	Red
Terminal 3	Black
Terminal 4	Orange
Terminal 5	Empty
Terminal 6	Blue
Terminal 7	Brown
Terminal 8	Purple
Terminal 9	Grey
Terminal 10	Green
Terminal 11	Empty

4. Connect plugs to new controller

- 4.1. Reconnect the 4 and 6 pin plugs into the new interface.
- 4.2. Next, connect the water & defrost probes to the green 4-way block on the Interface. The blue wires are "common".
- 4.3. Using the cable ties, tidy the wiring and secure.

5. Check

- 5.1. Recheck that all wiring and plugs are correctly fitted and secure.

6. Switch on

- 6.1. Switch on the mains power. The display will flash as it performs a self-check and a heat pump check.
- 6.2. The display will go solid and will display the actual pool temperature to an accuracy of .05%.
- 6.3. The fan has a **60 second** time delay, and the Compressor has a **5 minute** time delay (same as the original 5000D series controller). These delays are pre-programmed to stop the compressor "stalling" on start up.
- 6.4. If the compressor does stall, then replace the Compressor capacitor and fit a "hard start", as the capacitor has "lost" its value. The new Eliwell controller is pre-programmed for the complete automatic control of the Heat Pump.

7. Operation

- 7.1. The new controller has a very much improved "on demand defrost" feature, and will help keep the heat pump clear of frost / ice build up at the early and late ends of the pool season.
- 7.2. Defrost is set to analyze frost build up every 2 hours. The defrost can also be manually initiated by holding the "Up" button for 5 seconds. The defrost will start, depending on frost build up. Defrost is terminated by a preset timer and a preset temperature parameter setting.
- 7.3. Finally fit the self adhesive "how to change pool temperature" sticker above the new controller.
- 7.4. Explain to the customer how to alter the Target pool temperature.

Troubleshooting

It has been found that there are a few DPL UNITS in the field that the controller will not work with. This is because the main control box is NOT wired as per the drawing on the control box lid. It's simple to fix, just rewire the transformer 24vac output as per the wiring diagram on the control box lid.

It is also possible that the wire colours for the plugs do not match the wiring diagram. We do believe in this situation the controller will work.

If things are not working, check all wiring carefully.