RHEEM THERMAL

RHEEM IQ® LINK DPi1

DIGITAL PUMP INTERFACE

DESCRIPTION

The **Rheem IQ® Link DPi1** controller is suitable for connection where a separate pump is installed on a heating circuit in combination with a Rheem Thermal heat pump.

OPERATION

The DPi1 controller is designed to switch a 240V pump, rated to 9.98 Amps, 2395 watts controlled from the 'HEATER INTERLOCK' output of a Rheem Thermal heat pump.

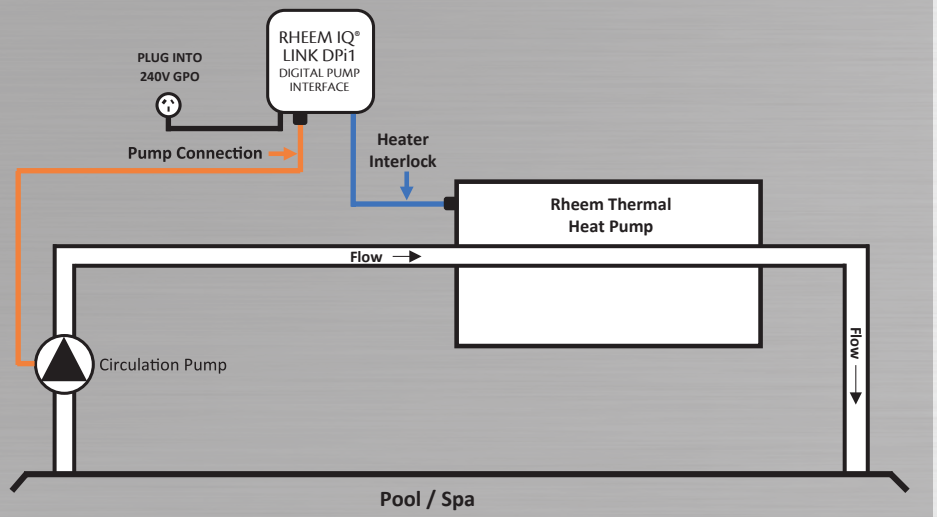
DEMAND HEAT

Your Rheem Thermal heat pump includes Rheem IQ® which provides a range of advanced control functions to aid operation and service. This includes a 'CYCLE TO TEST TEMPERATURE' function that will assist in maintaining the temperature of the pool or spa by communicating to the DPi1. The DPi1 will start the circulator pump when heating is called for by the Rheem IQ® controller, which monitors the pool or spa temperature.

PROGRAMMING DEMAND HEAT

To program and switch on the demand heat function in the Rheem Thermal heat pump controller, refer to the back page of these instructions.

INSTALLATION INSTRUCTIONS



Fix the mounting bracket to a solid structure via screws and wall plugs kit provided, and slide the controller on, locking into place. Adjusting screws on the back of unit to ensure snug fit. To remove unit, lift and gently pull away from structure.

CONTROLLER MOUNTING

Find a suitable location to mount the control box. Ideally, as with all pool equipment, it should be installed out of direct weather and no closer than 3 metres from the water's edge and a minimum 600mm above ground. The power cable is 1.8m long and should be plugged directly into a general power outlet, not into an extension lead.

PUMP CONNECTION

The circulation pump plugs into the 3 pin, 240V socket beneath the DPi1 controller marked **'PUMP CONNECTION'**.

HEATER INTERLOCK

Plug in the **'HEATER INTERLOCK'** lead from the DPi1 controller to the female socket on the side of the Rheem Thermal heat pump marked, "Rheem IQ® DPi Link".

Note: Damage caused by incorrect connections will void warranties.

WARRANTY

RHEEM IQ® LINK DPi1
DIGITAL PUMP INTERFACE

This range of product is covered by a limited 2 year warranty against component failure or faulty workmanship from the date of installation. A faulty unit should be returned in the first instance to Rheem Thermal or the Rheem Thermal dealer from which the unit was purchased. Damage to the unit due to misuse, power surges, lightning strikes or installation that is not in accordance with the manufacturer's instruction may void the warranty.

Warranty does not cover postage or travel costs to or from installation site.

If the power cord is damaged, do not use the controller; return the unit to Rheem Thermal or the Rheem Thermal dealer from which the unit was purchased for repair.

Customer Record. (To be retained by the customer)

Dealer/Installer Name: _____

Serial Number: _____

Date Installed : _____

Rheem
THERMAL SYSTEMS GROUP

INSTRUCTION SHEET FOR PROGRAMMING 'DEMAND HEAT'

Programming Demand Heat on your RHEEM THERMAL HEAT PUMP CONTROLLER

The Rheem Thermal heat pump comes with an advanced Rheem IQ® control that is designed to communicate with your Rheem IQ® - Link DPi Digital Pump Interface control.

The **'Cycle to Test Temperature'** setting in Rheem IQ® is designed to control operation of the system water pump(s). With this function activated, Rheem IQ® will turn the water pump 'ON' so that the heat pump can check the current pool or spa water temperature. If heating is required, the water pump remains 'ON' until the pool or spa has reached temperature and the pump is switched 'OFF'. The heat pump will **'Cycle to Test Temperature'** throughout the day determined by the time setting programmed by the owner.

To activate the **Demand Heat** function, **'Cycle to Test Temperature'** needs to be set to **'ON'** and **'Enable Unit on/off by Flow Switch'** needs to be set to **'No'**.

Adjust the set points at the Rheem IQ® controller screen on your heat pump as follows:

1. Whilst in the home screen, press and release ***Esc***. The screen will change to the 'Main menu'.

2. Press and release ↑ or ↓ until 'A. On/Off Unit' is selected.

3. Press and release ← . The screen will change to show 'ON' or 'OFF'.

4. Press and release ↑ or ↓ . The screen will change to show 'Type of circulating pump control' and the current setting.

5. Press and release ← . The first letter in the current setting will start flashing.

6. Press and release ↑ or ↓ until the desired setting is displayed.

7. Press and release ← to confirm the selection. With 'CYCLE TO TEST TEMP' selected, proceed to step 8.

8. The first digit in the 'temp test cycle' time will now be flashing. Press and release ↑ or ↓ until the desired time setting is displayed. The time setting can be changed in 0.5 hour increment from 0.5 to 5.0 hours.

9. Press and release ← to confirm the time selection. The first digit in the 'temp test cycle' time will stop flashing and the setting will be saved.

10. Press and release ***Esc*** twice to go back to the home screen.

11. Whilst in the home screen, press and release ***Esc*** or ↩ to change to the 'Main menu' screen.

12. Press and release ↑ or ↓ until **'G. Service'** is selected.

INSTRUCTION SHEET FOR PROGRAMMING 'DEMAND HEAT'

13. Press and release ← .

14. Press and release ↑ or ↓ until **'F. Service'** is selected.

15. Press and release ← . and enter the four digit password **'0022'** (Set first digit then press ← to move to the next digit etc.). When the last digit has been set press and release.
Note: This step will not occur if the password has been previously entered within 10 minutes.

16. Press and release ↑ or ↓ until **'C. Thermoregulation'** is selected.

17. Press and release ← .

18. Press and release ↑ or ↓ until **'C. Thermoregulation 06'** is selected.

19. 'Enable Unit On / Off ' screen will be displayed.

20. Press and release ← to move cursor to 'Yes' on the right of 'By Flow Switch'. Should be flashing.

21. Press and release ↑ or ↓ to select 'No' as appropriate.

22. Press and release ← .

23. Press and release *Esc* or ⮌ four times to go back to the home menu.

24. Press and hold 🔔 or ⚠ for 2 seconds to clear all active alarms.

The Rheem Thermal heat pump is now programmed and ready to use with the Rheem IQ®- Link DPi Digital Pump Interface Controller.

The **'Cycle to Test Temperature'** function should be set at the time of installation by the installer and does not normally require changing.

Controller set up is completed.

HEAD OFFICE

Rheem Thermal Systems Group
43 Marigold Street, Revesby NSW 2212
PO Box 146 Moorebank NSW 1875 Australia

Sales: 1300 132 950
Service: 02 9684 3684
Intl: +61 2 9684 3684
Fax: (02) 9684 3698
Email: sales@rheemthermal.com.au
Web: www.rheemthermal.com.au
ABN: 21 098 823 511

Rheem
THERMAL SYSTEMS GROUP

Certified Product Australian Standard AS/NZS 2712 Lic SMK 0757 Lic SMK 1048 Lic SMKP 21548 SAI Global

Certified System Quality ISO 9001

WaterMark AS 3498 Lic WMKA 00153 Lic WMKA 00177 Lic WMKA 00299 Lic WMKA 00500 Lic WMKA 21434 Lic WMKA 21549 Lic WMKA 21766 SAI Global

The Australian Gas Association

HEAD OFFICE

Rheem Thermal Systems Group
43 Marigold Street, Revesby NSW 2212
PO Box 146 Moorebank NSW 1875 Australia

Sales: 1300 132 950
Service: 02 9684 3684
Intl: +61 2 9684 3684
Fax: (02) 9684 3698
Email: sales@rheemthermal.com.au
Web: www.rheemthermal.com.au
ABN: 21 098 823 511

Rheem
THERMAL SYSTEMS GROUP

Certified Product
Australian Standard
AS/NZS 2712
Lic SMK 0757
Lic SMK 1048
Lic SMKP 21548
SAI Global

Certified System
Quality
ISO 9001

WaterMark
AS 3498
Lic WMKA 00153
Lic WMKA 00177
Lic WMKA 00299
Lic WMKA 00500
Lic WMKA 21434
Lic WMKA 21549
Lic WMKA 21766
SAI Global

The Australian Gas Association