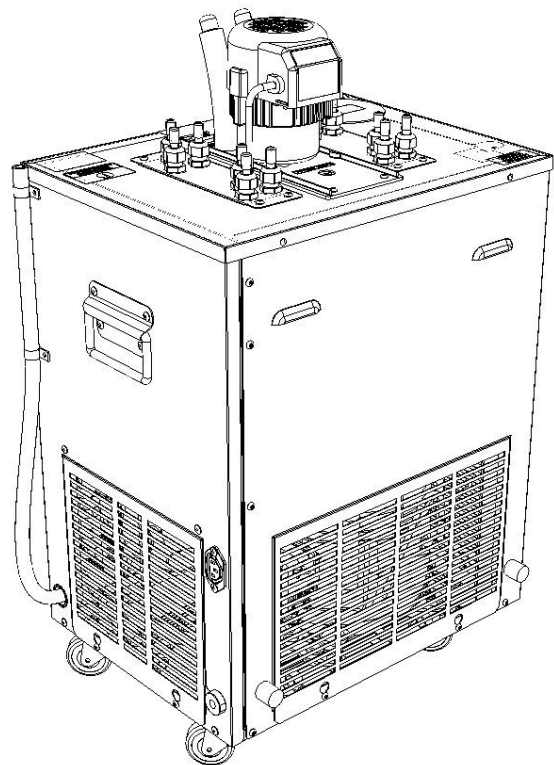




Product Manual

BRW17H Range



Introduction

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Introduction

The BRW17H models are a range of mini-remote coolers with various control options of mechanical, digital and energy saving digital thermostats. They also incorporate various product coil configurations and pump options, including variants for “SCOPE” installations that use pythons with tube-in-tube systems. The individual modules are detailed later on in this guide, but in summary they comprise the following:

- Base unit
- Control module: a range of control modules with both electronic and mechanical thermostat options.
- Pump Options: 3 stage or 4 stage pump options
- Coil assembly: single piece lid with various coil quantities and configurations.

The wiring schematics included in the following pages reflect this modularity.



Safety

The BRW17H models use a R290 (Care 40, Propane) refrigerant. Below are some safety points which the end user must adopt to mitigate the risk of unsafe conditions arising.

- Service must only be carried out by a suitably qualified refrigeration engineer.
- The unit must be isolated from the electricity supply before removal of the covers.
- Do not damage the refrigeration circuit.
- Ventilation openings must be clear of obstructions.
- There must be a gap of at least 100mm between the appliance and a wall or other restriction.
- Where electrical components are replaced, the new component must be of the same type.
- Operate the unit within (ambient) operating temperatures; 10°C to 32°C.

Specification and Installation

BRW1H Specification

Dimensions (approx)	Width 451mm	Compressor	Huyai (Cubigel)
	Depth 371mm		NLY80RA
	Height 730mm		Refrigerant
		Refrigerant Weight	70g
Dry Weight	Nominal 32Kg	Climatic Class	SN (+10°C to +32°C)
Wet Weight	Nominal 52Kg	Nominal Ice Bank	10Kg
Supply	230Vac/50Hz	IP Rating	N/A
Rated input	627W	This product contains Propane Refrigerant gas with a GWP of 3 in a hermetically sealed system	
Rated Current	3.7A		
Fuse Rating	5A		

Installation

The unit must be installed by a competent person. If unit is to be free standing, it must be placed on a firm level surface capable of supporting the weight of the machine when the bath is filled. It is important that the ventilation openings in the machine are not blocked to allow the free movement of air. Inadequate ventilation will shorten the life of the fridge system.

Note: At this stage do not connect the unit to the electrical supply

- Ensure that the ventilation openings are not blocked to allow free movement of air through the unit. **Failure to do this will seriously affect the reliability of the fridge, invalidate the warranty and shorten the life of the fridge system.**
- Locate a container beneath the bath overflow to prevent any water spillage as the bath is filled.
- Fill the bath using cold water through the 'Bath Fill' opening on the top of the machine until water is displaced from the overflow.
- Connect the dispense python to the 'Recirculation' Flow and Return.
- Connect the product to the stainless steel product coils or tube in tube connections dependent on model.
- BRW17H - For details on how to install Tube in Tube/Scope dispense, please contact Brandels at <http://www.brandels.co.uk/>. Alternatively, please phone on 01253 501800 to speak to one of our advisors.
- Connect the unit to the electrical supply and turn on.
- After a short delay the compressor and fan will start.

Specification and Installation

- The unit will now begin to reduce the bath water temperature.
- Once the water has been chilled to the correct temperature, the fan and compressor will switch off and the machine is ready for use.

Note: The time taken for the unit to reach operating temperature will vary depending on ambient temperature, humidity and the temperature of the incoming water supply.

Model Numbering

Unit Number (BRW17H) (X) (Y) (Z)

Key:

BRW17H Base Type

(X) Module Type

(Y) Pump Type

(Z) Coil Type

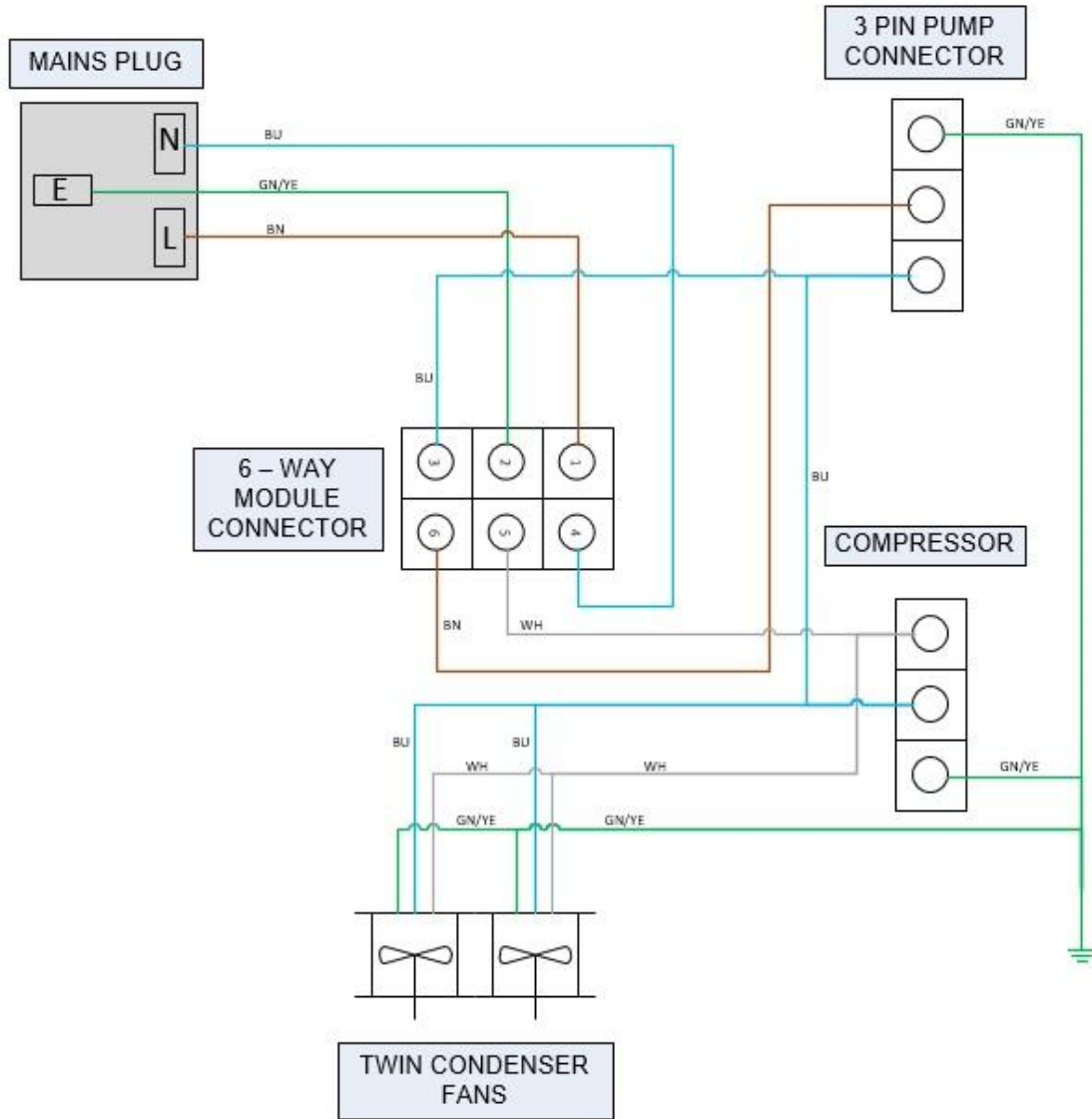
Reference (X)	Part #	Description
A	1A6384	ELIWELL
Z	1A6385	DFX
B	1A6383	MECHANICAL STAT

Reference (Y)	Part #	Description
SPC43 (3)	1A6394	3 STAGE PUMP ASSY
SPC44 (4)	1A6426	4 STAGE PUMP ASSY

Reference (Z)	Part #	Description
0	1A6390	0 COIL
2	1A6391	2 COIL
3	1A6441	3 COIL
4	1A6392	4 COIL
5	1A6442	5 COIL
6	1A6443	6 COIL
T1	1A6448	T1 (Tube in Tube) COIL
T2	1A6449	T2 (Tube in Tube) COIL

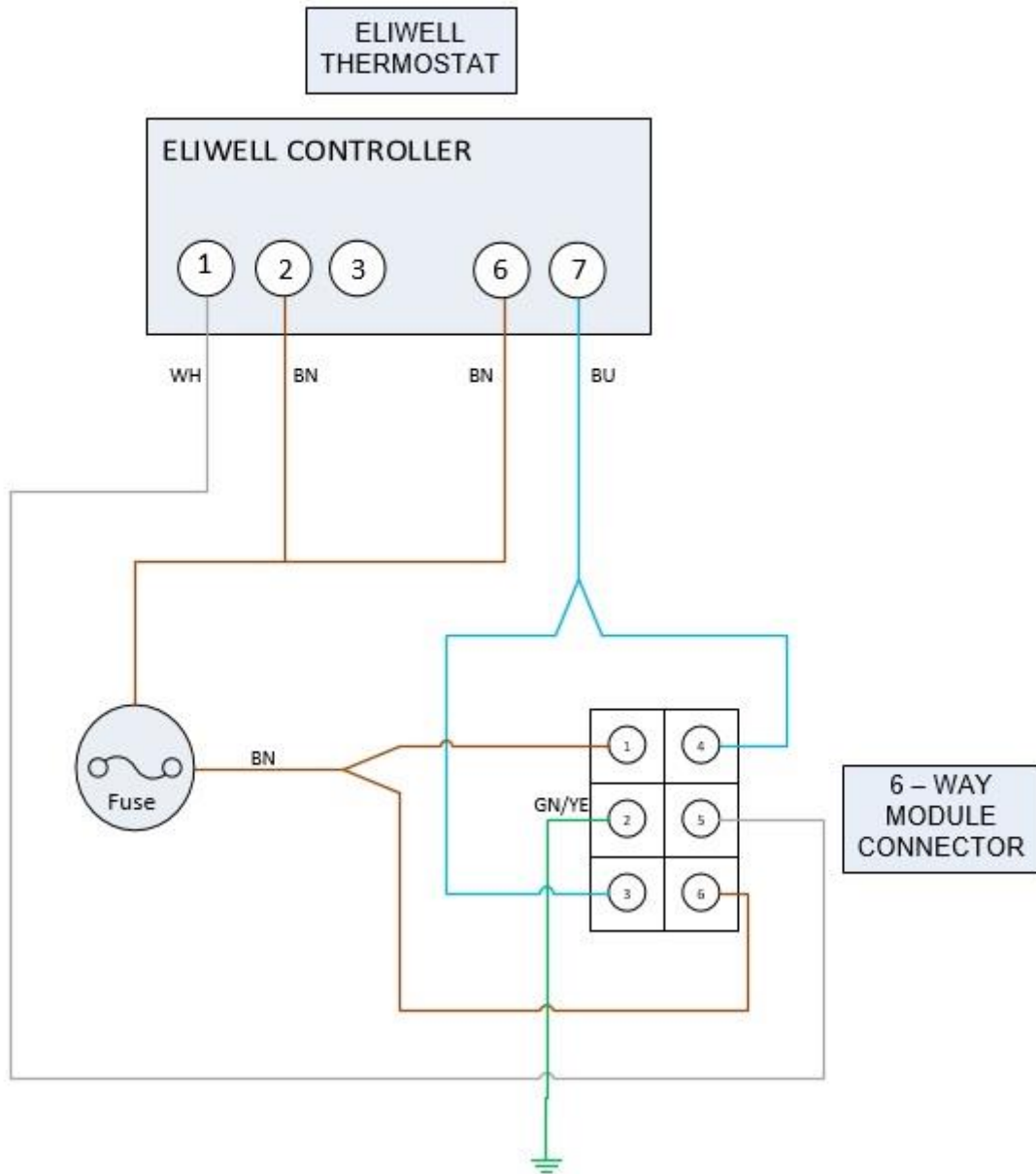
Schematics

BRW17H BASE Wiring Schematic



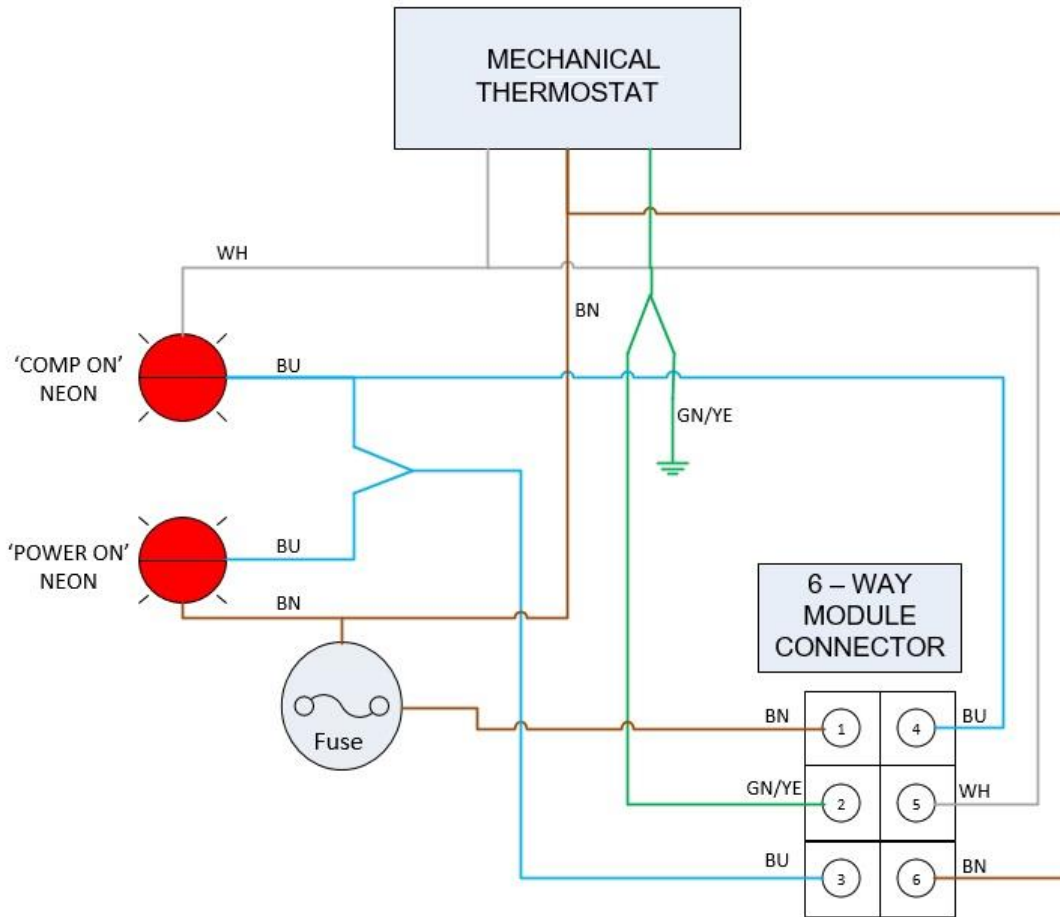
Schematics

BRW17H ELIWELL MODULE WIRING SCHEMATIC



Schematics

BRW17H MECH MODULE WIRING SCHEMATIC



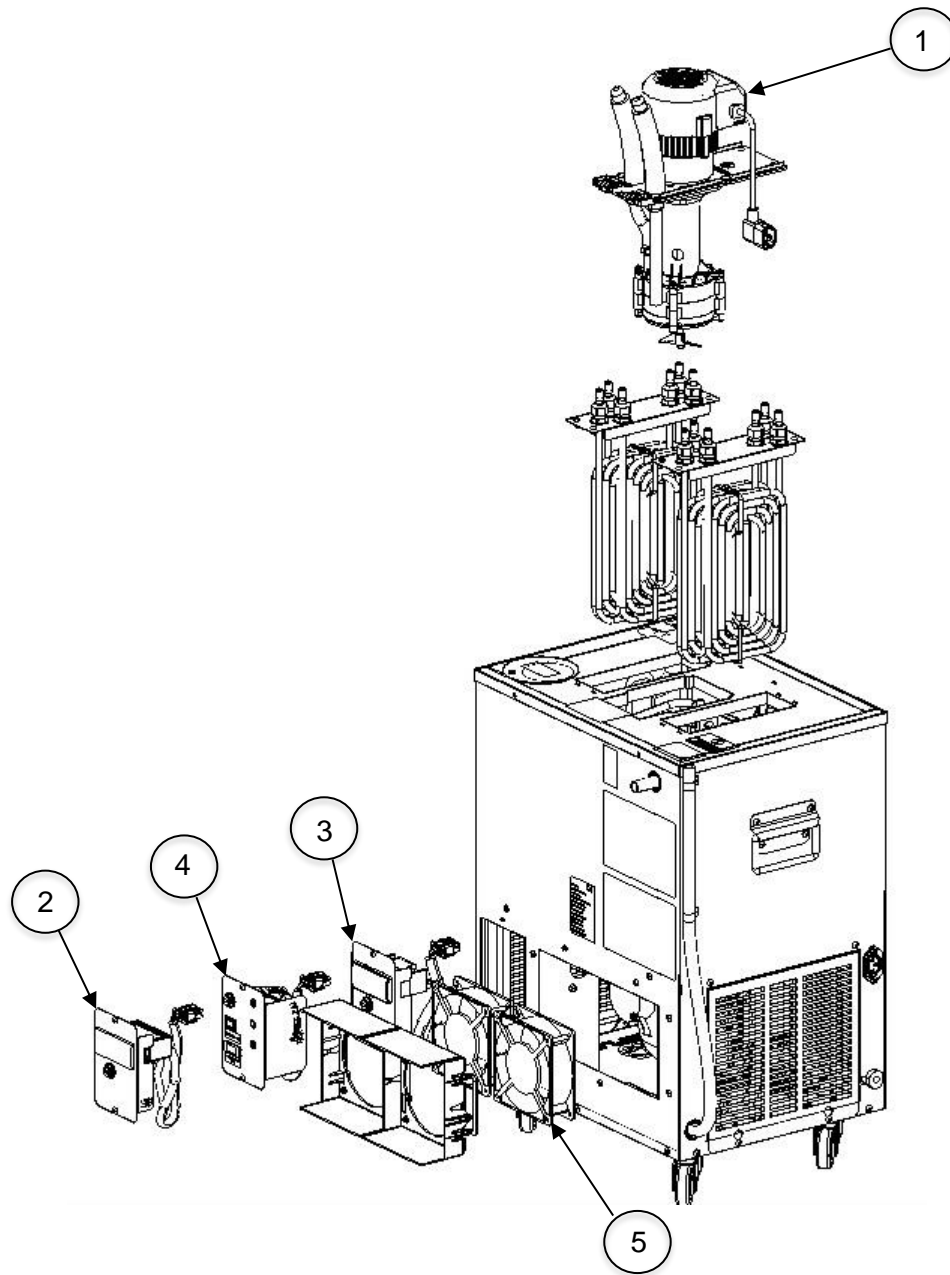
Fault Finding

No Drinks	Frozen product coil	<p>Check thermostat probe is correctly located into the bath probe well.</p> <p>Check the agitator is running. If supply voltage is present, renew agitator assembly.</p> <p>If agitator is running with no water agitation check agitation blades.</p>
Warm Drinks	Insufficient airflow through the fridge.	<p>Check that the condenser is not blocked.</p> <p>Check for blockages and obstructions to ventilation grills.</p>
	Cooling Fan Not running	<p>Check supply to cooling fan motor.</p> <p>If supply present replace fan motor.</p> <p>If supply not present check connections, thermostat, high side protection (model dependent) and fuse.</p>
	Compressor not running	<p>Check supply to Compressor.</p> <p>If supply present return for repair.</p> <p>If supply not present check connections, thermostat, high side protection (model dependent) and fuse.</p>
	Fridge failure	<p>If compressor & fan are running and there is no cooling, return for repair.</p>

Prior to any fault finding, please ensure all connections to the chiller are sound and that the incoming supply is turned on. Ensure that all electrical connections to the chiller and in the chiller are secure and in good condition, the power is on and that the chiller has had adequate time to reach operating temperature.

Replacement Parts, Removal, Transportation and Disposal

Replacement Parts



Item No	Replacement Parts	Part No's
1	Pump	See table (Ref Y) on page 5
2	Eliwell Control Eliwell 1.5m probe	3B3472 3B4341
3	DFx Control DFx Probe	3B5544 3B5545
4	Mech Thermostat	1A6262
5	Axial Fan	1B5514

Replacement Parts, Removal, Transportation and Disposal

Removal, Transportation and Disposal

Important: Before removal from the installation, ensure all electrical, product and gas connections are disconnected.

Disposal of Scrap Units

It is illegal to simply scrap a refrigeration unit. Before a unit can be scrapped it must first have the gas removed by a specialist using special equipment. Please contact Booth Dispensers Ltd., who will be happy to provide a quotation for disposal.

Transportation

Important: This unit must be transported in an upright position

As with all refrigeration systems, irreparable damage can be caused by laying the unit on its side or even transporting upside down. Where the unit is transported by a carrier, the carton should always be marked in a conspicuous manner, the correct upright position in which it must be handled.

If a unit has been transported incorrectly it should be placed in the correct upright position and left for 24 hours before attempting to run the system.

Failure to observe the above precautions could seriously damage the system, and would void any warranty. Terms and conditions apply.

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