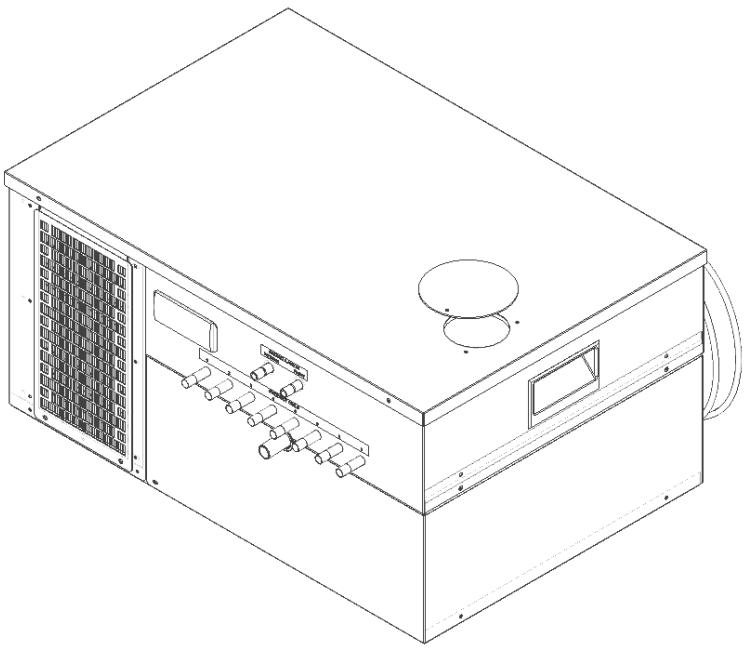
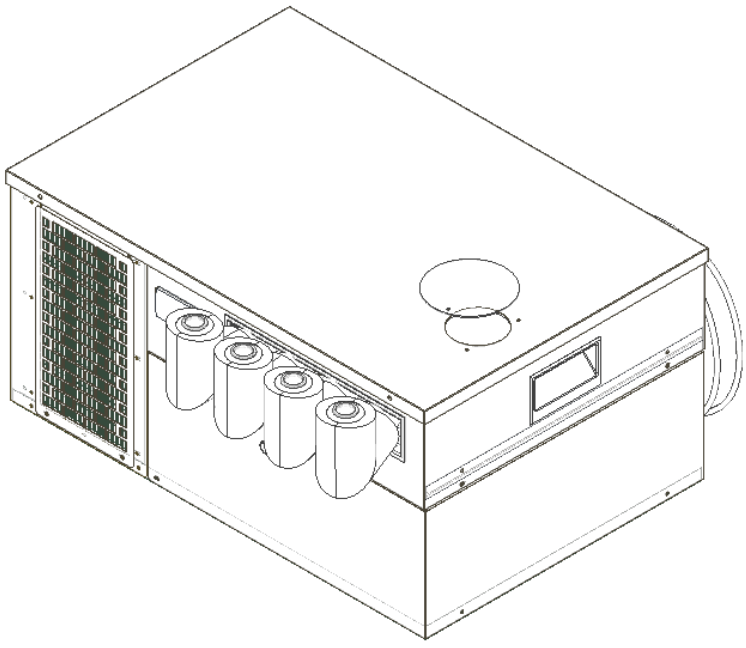
Product Manual

BAR3

Shelf Mounted Beer Coolers





Part Number 3B6694 Issue B

Introduction

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Introduction

The BAR3 is an ice bath cooler designed to provide chilled product in a dispense application. The system uses a bath water recirculation system and python to generate and maintain optimum drink temperature at the point of dispense.

The BAR3 cooler is designed for effective performance and improved energy efficiency. It is ideal for a range of applications, its compact size ideally suited to under counter installations.

Safety

The BAR3 units use different refrigerants dependant on the model selected. BAR300 models use R134a refrigerant, whereas BAR3H Hydrocarbon units use R290 (Care 40, Propane). 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 should 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 unit within (ambient) operating temperatures; 10°C to 32°C.

Specification and Installation

Specification

BAR300

Dimensions	570mm(W) 450mm(D) 280mm(H)	**Compressor**	Tecumseh THB4422Y
Dry Weight	24kg	**This product contains R134a Refrigerant gas with a GWP of 1430 in an hermetically sealed system**	
Wet Weight	39kg		
Supply	230Vac/50Hz	**Refrigerant**	R134a 145g
Rated Input	400W	**Climatic Class**	N
Rated Current	5A	**Fuse Rating**	5A
IP Rating	N/A		

BAR3H

Dimensions	570mm(W) 450mm(D) 280mm(H)	**Compressor**	Cubigel NLY60RAa
Dry Weight	28kg	**This product contains R290 Propane Refrigerant gas with a GWP of 3 in an hermetically sealed system**	
Wet Weight	39kg		
Supply	230Vac/50Hz	**Refrigerant**	R290a 70g
Rated Input	500W	**Climatic Class**	N
Rated Current	5A	**Fuse Rating**	5A
IP Rating	N/A		

Installation

The unit must be installed by a competent person, on a firm level surface capable of supporting the weight of the machine when the bath is filled, and all connections made.

- 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.**

- The water bath requires filling prior to switch on. Fill the bath using cold water through the opening on the top of the machine until water is displaced from the overflow. Discontinue filling and replace the overflow cap.

Specification and Installation

- Connect the dispense python to the ‘Recirculation’ Flow and Return.
- Connect the product to the stainless steel product coil.
- BAR3H - 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 mains power.
- Turn on the mains voltage supply. After a short delay the compressor fans will activate. The unit will now begin to reduce the bath water temperature.
- Continue to monitor the bath level as the python fills with water. Top up if necessary.
- Once the water is at the correct temperature an ice bank will begin to form. As the ice begins to form, a small amount of water will be displaced.
- Once a full ice bank is produced, the fans and compressor will switch off and the machine is ready for use.

Model Numbering Convention

Unit number BAR3(Z) (Y) (X) (W)

Key:

(Z) **Refrigerant Type**

(Y) **Pump Type**

(X) **Module Type**

(W) **Deck**

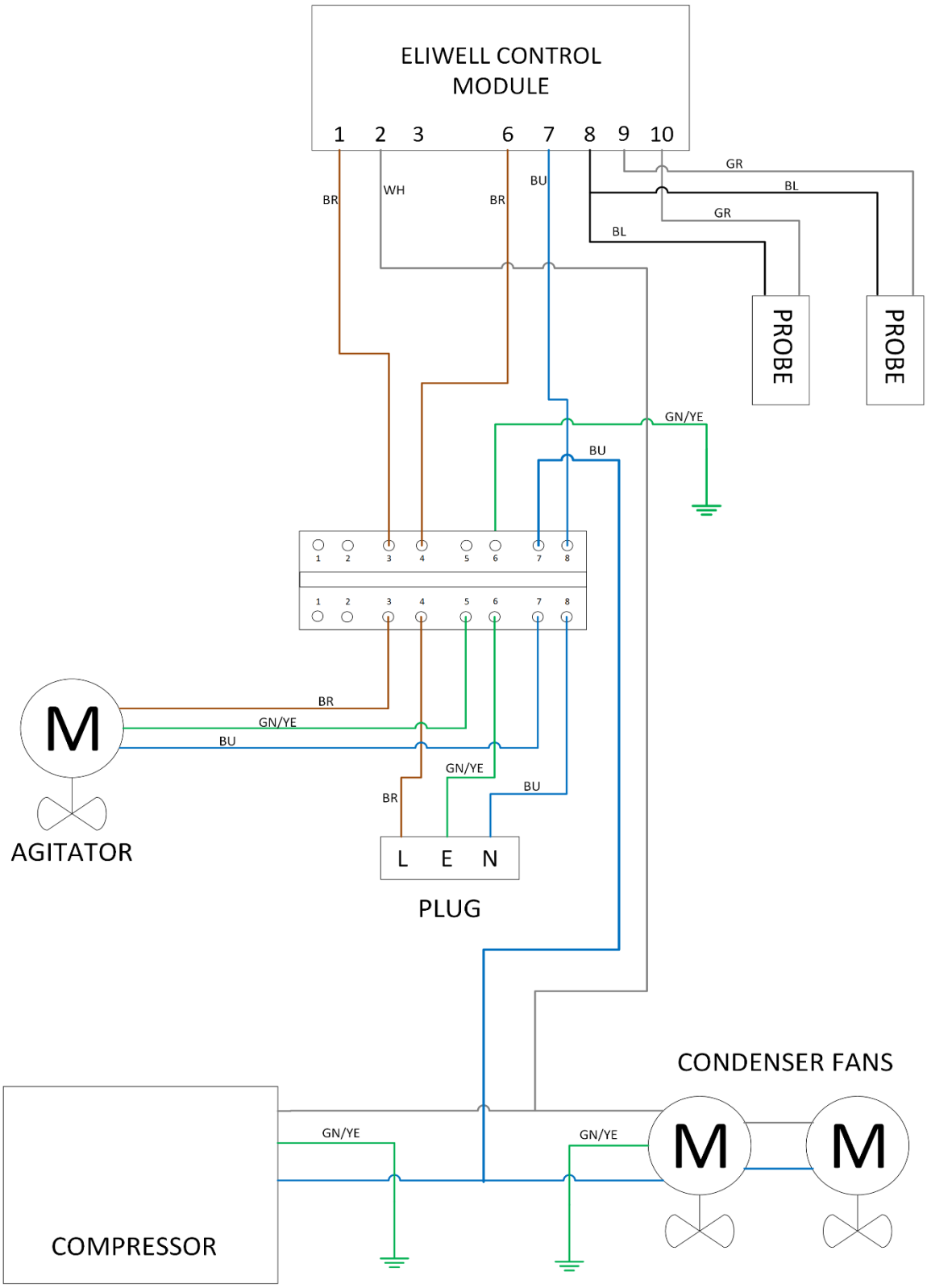
(V) **Number of coils**

- - - **Coil type and number of coils repeated as necessary**

Reference	Part #	Description
(Z)	**REFRIGERANT**	
0	1S0409	R134a Refrigerant
H	1S0615	R290 (Hydrocarbon) Refrigerant
(Y)	**PUMP**	
2	1A5176	SPC8/2 pump
4	1A5177	SPC12/4
6	1A6273	Saber Pump Assy (BAR3H)
	1A6292	Saber Pump Assy (BAR30)
(X)	**MODULE**	
M	1A5361	Mechanical Control
E	1A5362	Eliwell Control
D	1A6310	DFX Control
(W)	**DECK**	
0	1A5746	No Coils
1	1A5747	1 Coil
2	1A5748	2 Coils
3	1A5749	3 Coils
4	1A5750	4 Coils
5	1A6201	Tube in Tube / Scope

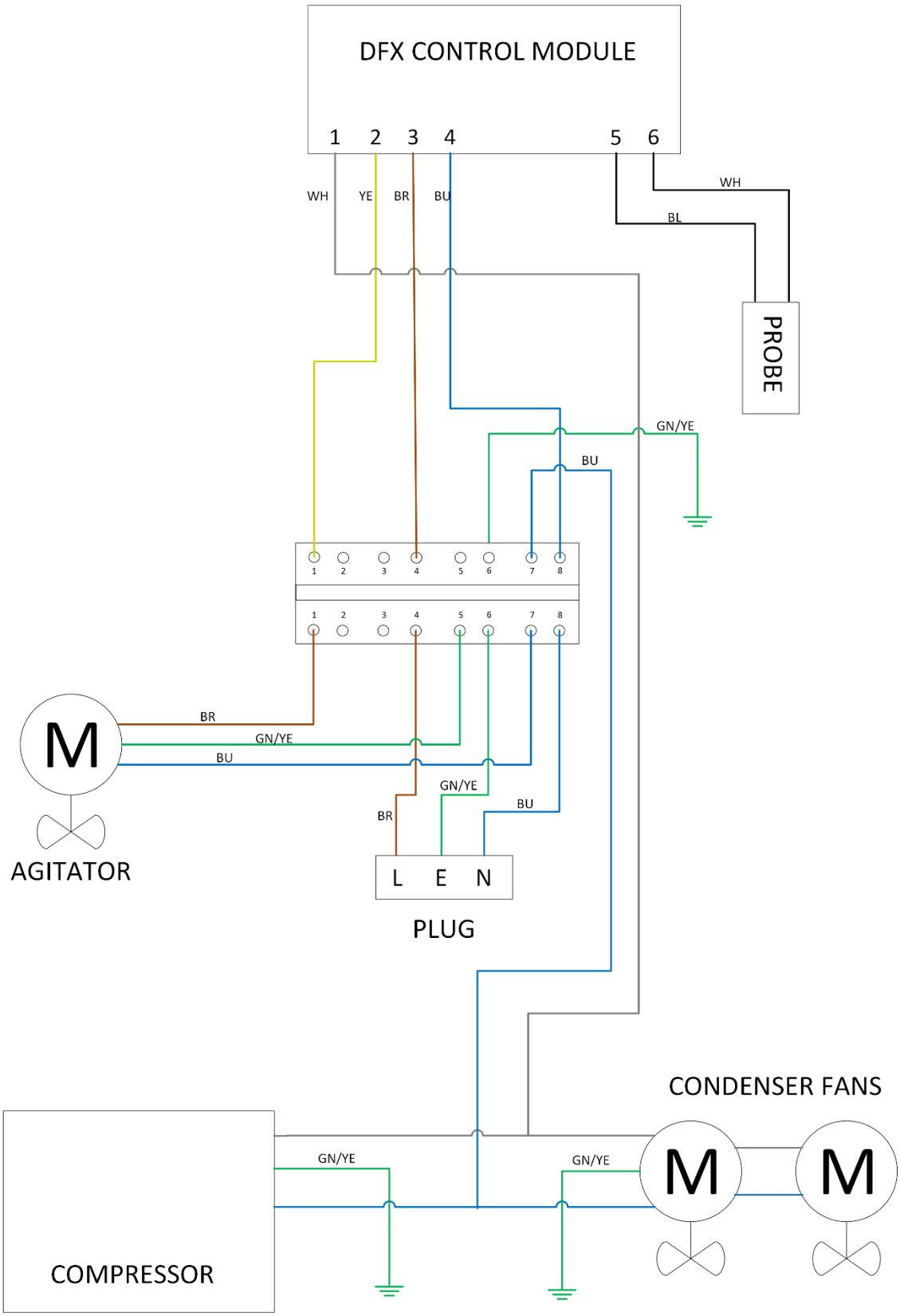
Schematic

BAR3H & BAR300 Eliwell Wiring Schematic



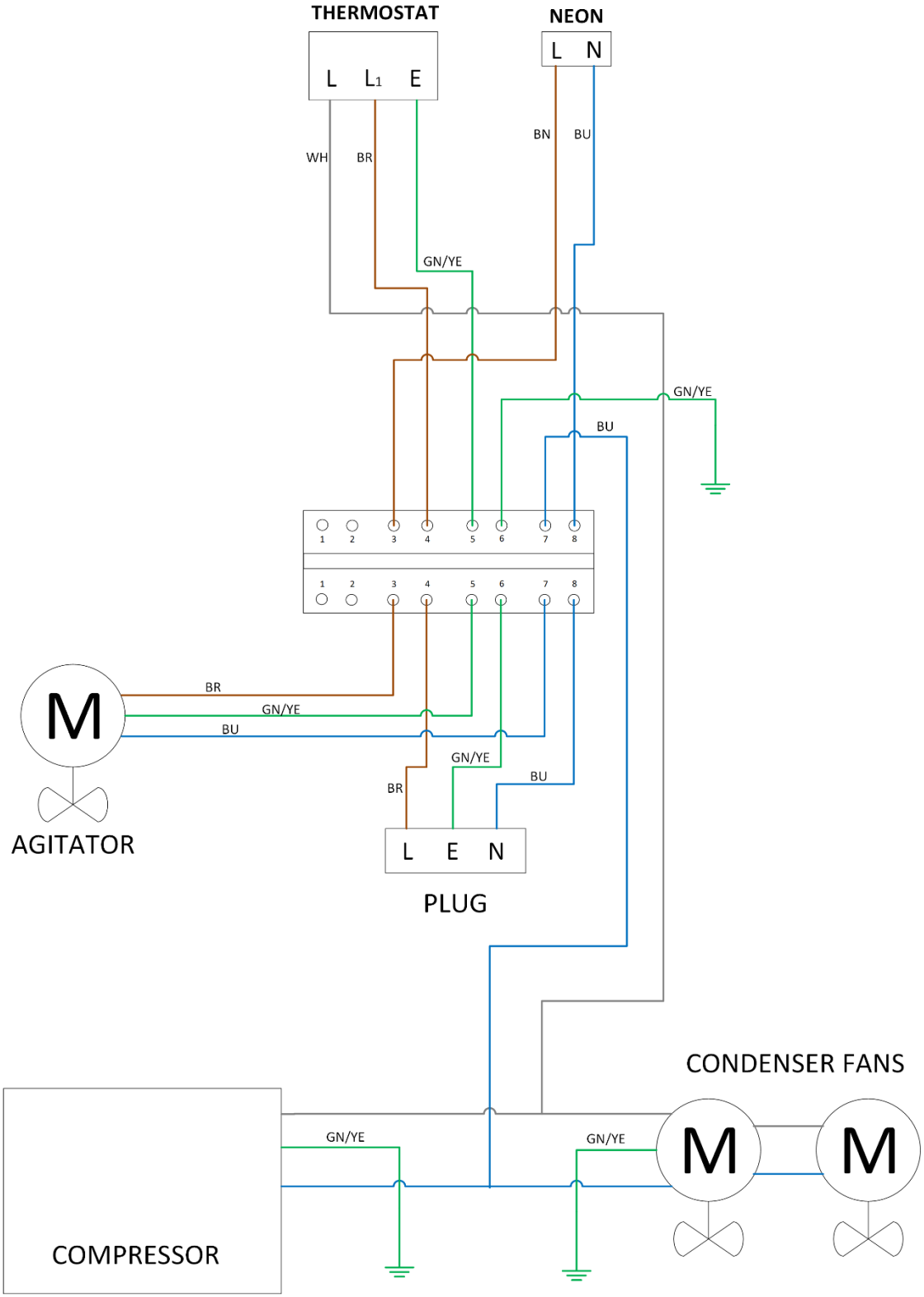
Schematic

BAR3H & BAR300 DFX Wiring Schematic



Schematic

BAR3H & BAR300 Mechanical Wiring Schematic



Fault Finding

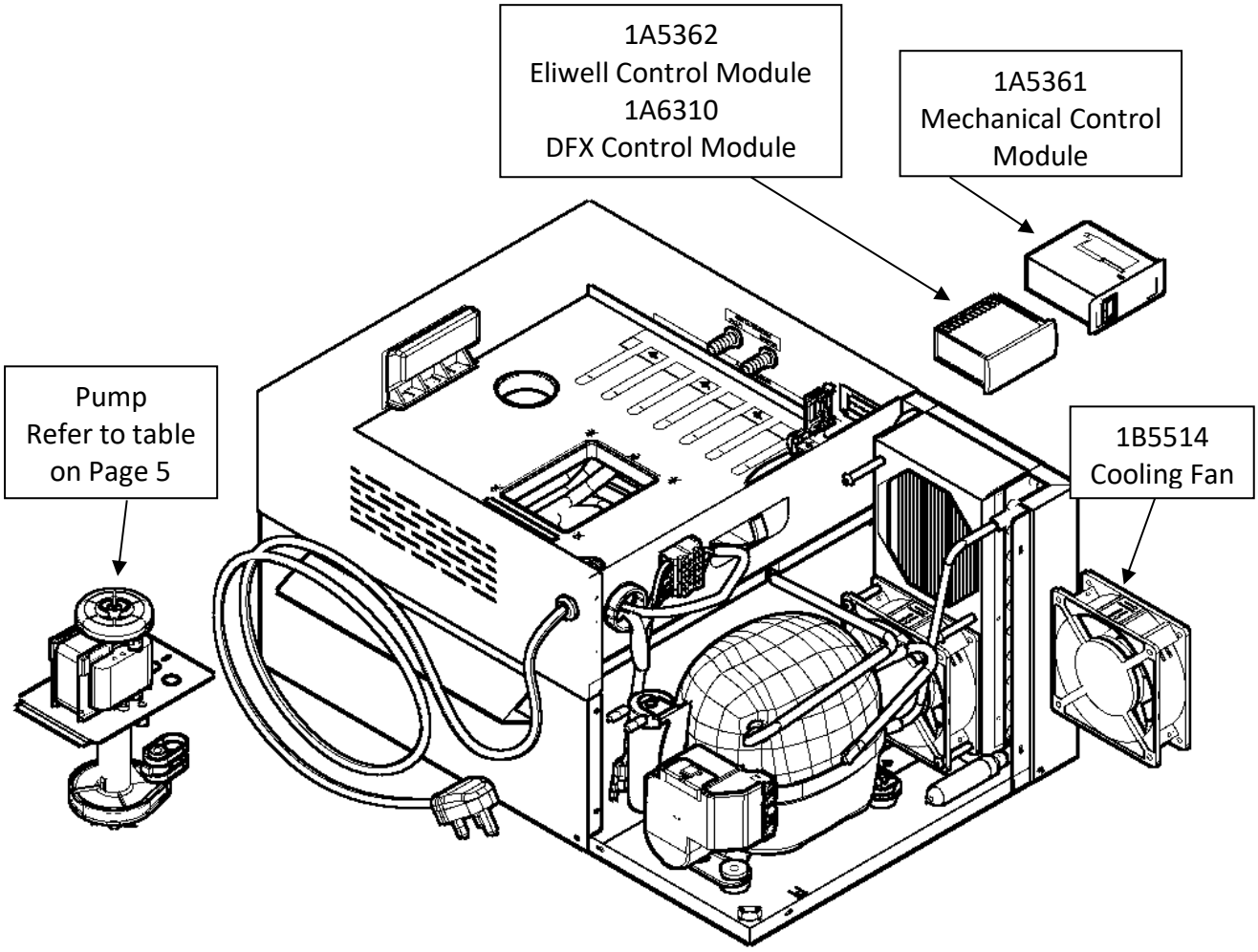
Prior to any fault finding, please ensure all connections to the chiller are sound and that the incoming supply is turned on. Also ensure that all electrical connections to the chiller and in the chiller are secure and in good condition, the power is on and that the chiller has had adequate time to reach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

NOTE: Isolate from mains before removing any panels

No Drinks	Water supply	Check connections to water supply. Check water supply is turned on. Check system for blockages.
	Frozen product coil	Check thermostat/temperature probe is correctly located into the bath probe well. Check the agitator is running. If supply voltage is present renew agitator assembly. If agitator is running with no water agitation check agitation blades.
Warm Drinks	Insufficient air flow through the fridge.	Check that the condenser is not blocked. Check for blockages and obstructions to ventilation grills.
	Cooling Fans Not running	Check supply to cooling fans. If supply present replace fans. If supply not present check connections, thermostat, high side protection (Eliwell thermostat only) and fuse.
	Compressor not running	Check supply to Compressor. If supply present return for repair. If supply not present check connections, thermostat, high side protection (Eliwell thermostat only) and fuse.
	Fridge failure	If compressor & fan are running and there is no cooling, return for repair.

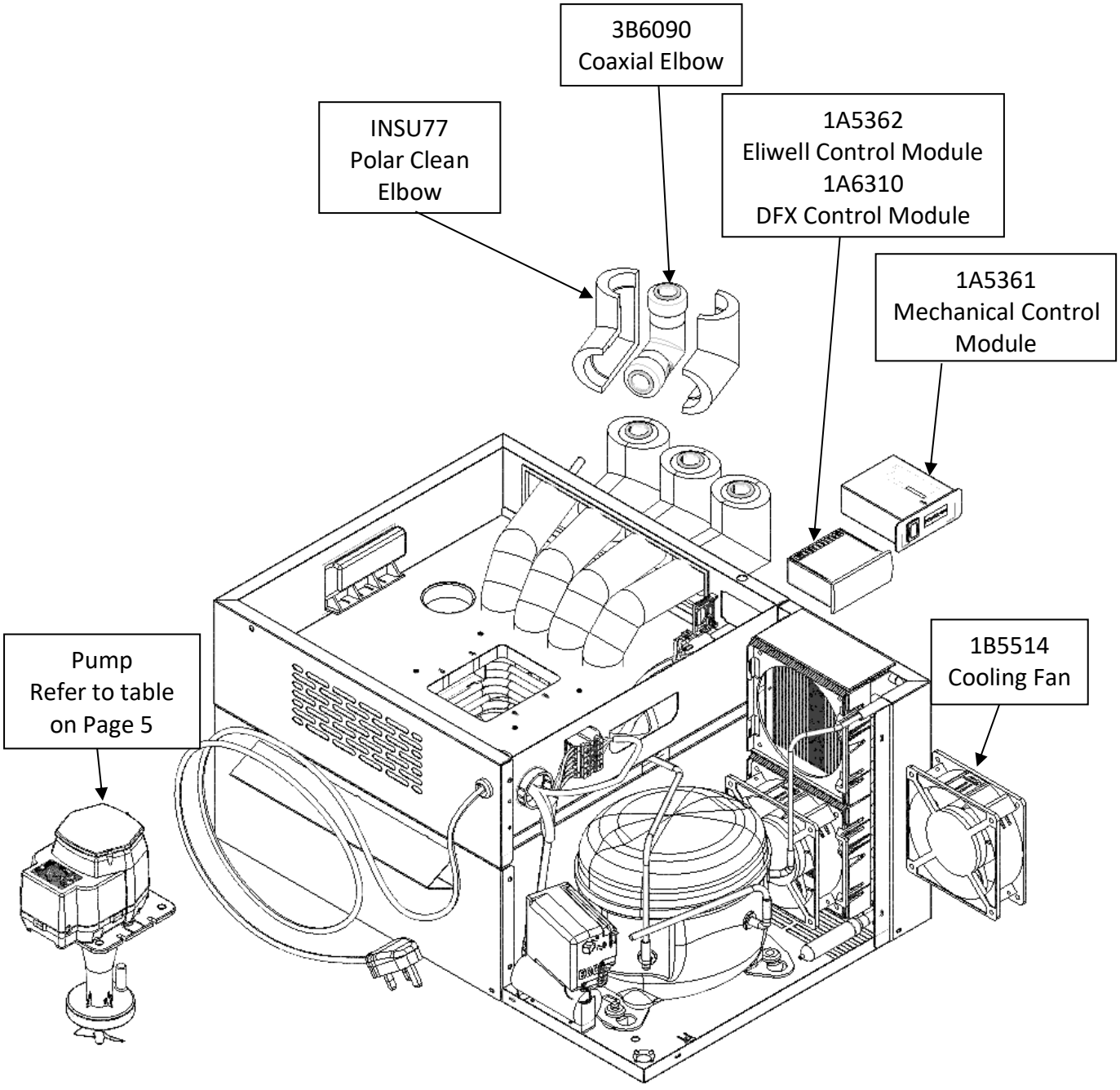
Spare Parts

BAR300 Spares



Spare Parts

BAR3H Spares



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 specialist 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.

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innovation in cooling

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