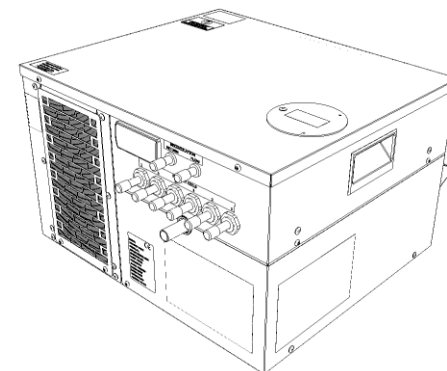




## Product Manual

### BAR2H Shelf Mounted Beer Coolers



3B6993-OR



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## Introduction

The BAR2H is an ice bath cooler designed to provide chilled product for under counter applications. The system uses a bath water recirculation system and python to generate and maintain optimum drink temperature at the point of dispense.

The BAR2H 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 BAR2H 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.

## Removal, Transportation & 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.

## Specification and Installation

### Specification

|               |                                                           |                                                                                               |                          |
|---------------|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------|--------------------------|
| Dimensions    | 453mm(W)<br>425mm(D) + 40mm for Product Coils<br>282mm(H) | Compressor                                                                                    | Huyai Cubigel<br>NLY45RA |
| Dry Weight    | 25kg                                                      | This product contains Propane Refrigerant gas with a GWP of 3 in a hermetically sealed system |                          |
| Supply        | 230Vac/50Hz                                               | Refrigerant                                                                                   | R290 80g                 |
| Rated Input   | 300W                                                      | Climatic Class                                                                                | N                        |
| Rated Current | 1.25A                                                     | Fuse Rating                                                                                   | 5A                       |

### 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. 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 and when ice is formed in the bath.
- 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.
- Connect the unit to the electrical supply and turn on.
- After a short delay the compressor and fans will start.
- The unit will now begin to reduce the bath water temperature. 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 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 Convention

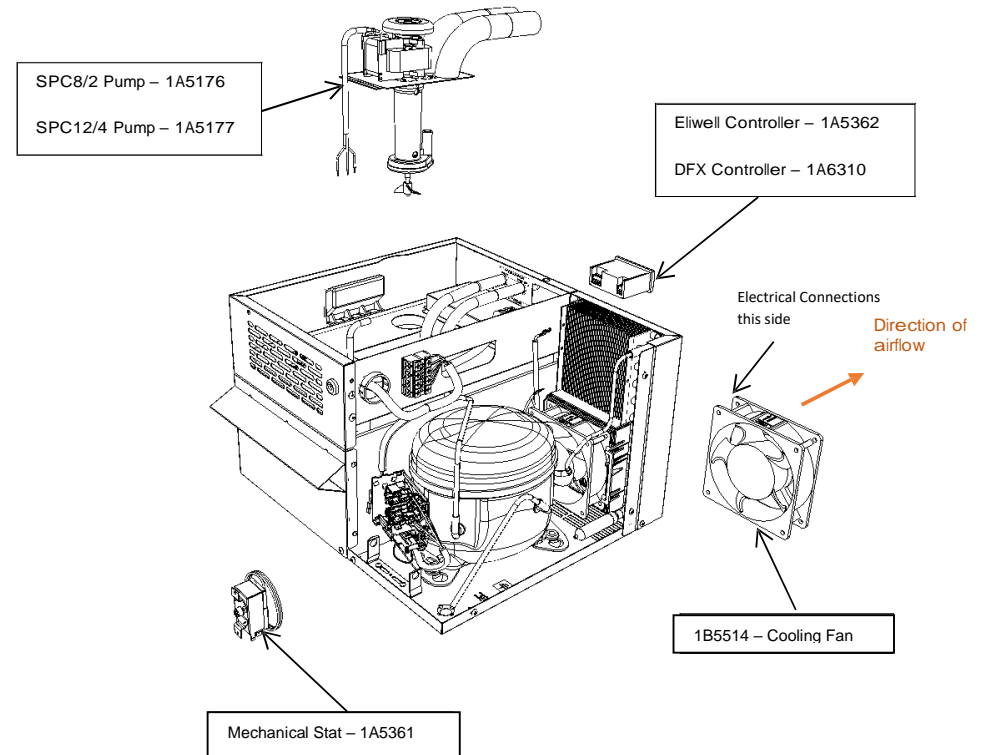
### UNIT NUMBER (BAR2H) (X) (Y) (Z)

**KEY:**

**BAR2H**      **BASE TYPE**  
**(X)**          **PUMP**  
**(Y)**          **CONTROL OPTION**  
**(Z)**          **NO OF COILS/DECK OPTION**

| REFERENCE  | PART #         | DESCRIPTION |
|------------|----------------|-------------|
| <b>(X)</b> | <b>PUMP</b>    |             |
| 2          | 1A5176         | SPC8/2 PUMP |
| 4          | 1A5177         | SPC12/4     |
| <b>(Y)</b> | <b>CONTROL</b> |             |
| M          | 1A5361         | MECHANICAL  |
| E          | 1A5362         | ELIWELL     |
| D          | 1A6310         | DFX CONTROL |
| <b>(Z)</b> | <b>DECK</b>    |             |
| 0          | 1A6305         | NO COILS    |
| 1          | 1A6306         | 1 COIL      |
| 2          | 1A6307         | 2 COILS     |
| 3          | 1A6308         | 3 COILS     |

## Spare Parts



## Fault Finding

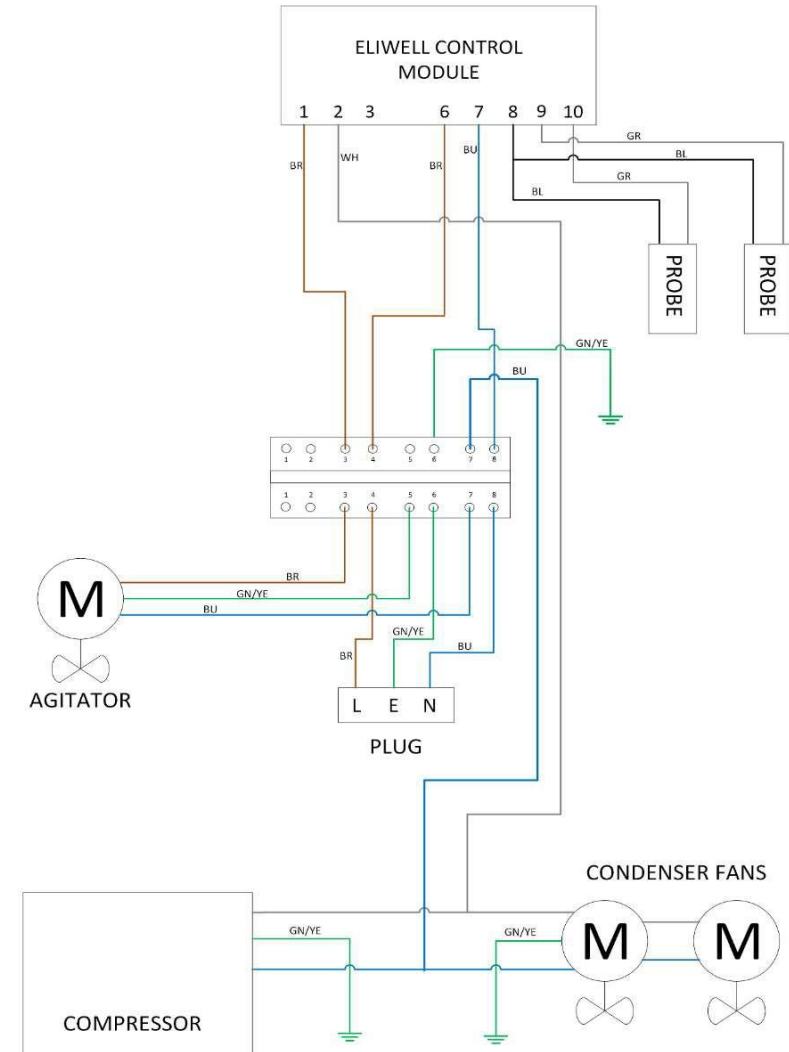
Prior to any fault finding, please ensure all connections to the chiller are sound and that the incoming supply is turned on. Also, ensure that all electrical connections to the chiller and in the chiller are secure and in good condition, the power is on and that the chiller has had adequate time to 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 water supply is turned on.                            |
|                          | Check system for blockages.                                                                                   | 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 (digital 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 (digital thermostat only) and fuse. |                                                             |
| Fridge failure           | If compressor & fan are running and there is no cooling, return for repair.                                   |                                                             |

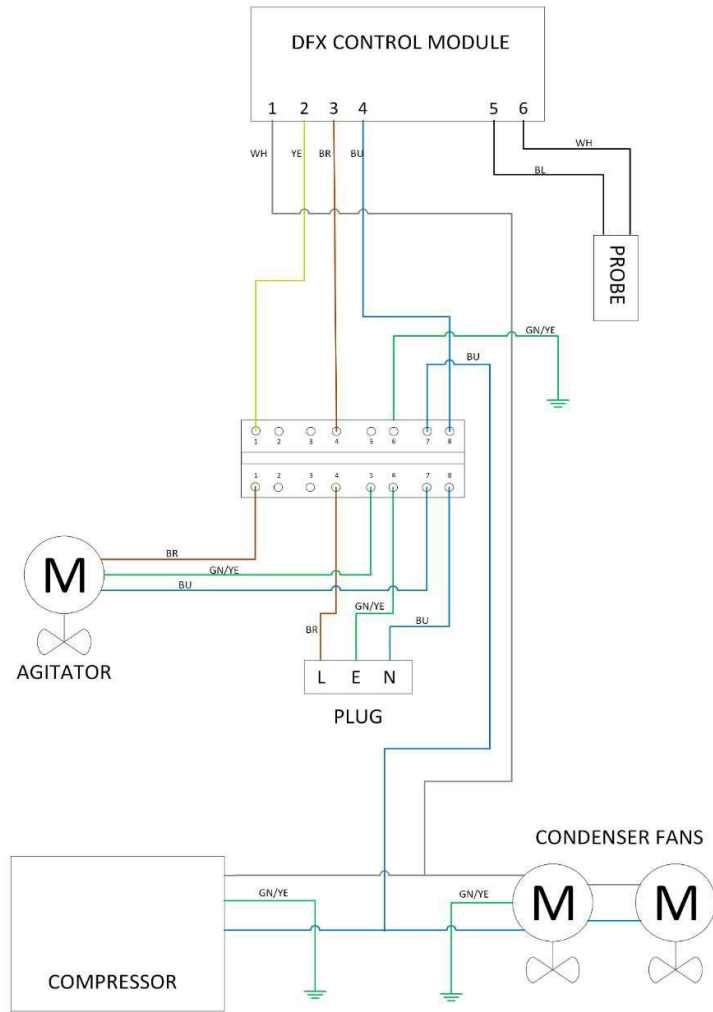
## Schematic

### Eliwell Wiring Schematic



# Schematic

## DFX Wiring Schematic



# Schematic

## Mechanical Wiring Schematic

