BAKER RUSKINN

SCI-tive

Stem Cell Investigations Total In Vitro Environment

AD-01

SCI-tive Heat Exchange and Chiller Unit

Summary

This Addendum contains instruction for the use of a Heat Exchange and chiller unit with a SCI-tive Workstation. The Unit is only used when a Seahorse Biosciences XF 24 or 96 instruments are used inside the SCI-tive Workstation.

This addendum is used for the following products	Manual	Photos of products
SCI-tive Dual Symmetric	UM-026 (230V) UM-028 (120V)	
SCI-tive Dual Asymmetric	UM-025	
SCI-tive Single	UM-027 (230V) UM-028 (120V)	

1. Overview

Please read this addendum carefully to familiarise yourself with the additional conditions not covered in the SCI-tive User Manual. These steps will need to be followed before powering on the workstation.

1.1 Safety Instructions

Please consult your SCI-tive User Manual. The following points should be noted for the Heat Exchanger Unit.

- In the event of an issue or fault, the heat exchanger unit should be disconnected from the electrical supply by removing the heat exchanger plug from the rear wall sockets of the SCI-tive workstation.
- The heat exchanger unit is Portable Appliance Tested (PAT Tested) during Installation into the workstation. Baker Ruskinn recommends the PAT Test is undertaken on an annual basis. Please contact your local service or sales representative should any issues arise.
- Please note that the Internal Sockets of the Sci-tive unit can only supply 2 Amps. When the Heat Exchanger Unit is running, this is limited to 1 amp. Failure to adhere to this may result in the SCI-tive internal socket fuses blowing.
- In the event of needing to replace the Heat Exchange Unit Plug Fuse, (the new fuse must match the original fuse), use a 3 Amp standard UK fuse (Approved to BS1363).
- Ensure that the heat exchanger unit is operating prior to applying power to the Seahorse Biosciences XF-24 or XF-96 unit.

Please consult the Chiller User Manual for chiller safety and operating instructions.

1.2 Regulatory compliance

Please refer to the SCI-tive user Manual, and Chiller User Manual for all regulatory compliance.

1.3 Symbols

All workstation symbols can be found in the SCI-tive User Manual.

The heat exchanger has the following symbols:

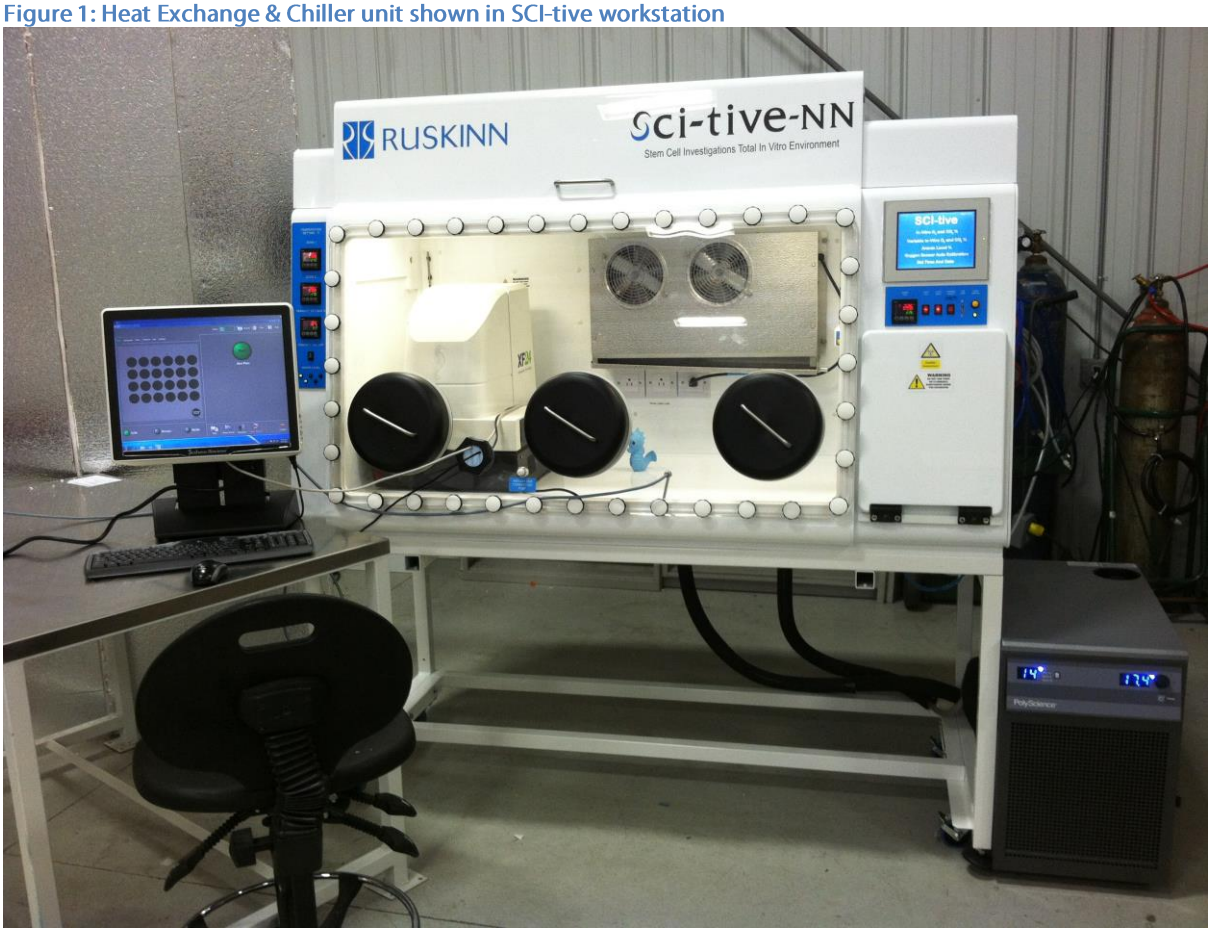
	Caution, do not remove covers. No end user serviceable parts behind covers. Please refer to this manual in all cases where this symbol appears, in order to find out the nature of the Potential Hazard and actions to be taken in order to avoid the Hazard.
	Contains hazardous components and must not be disposed of at a household waste site. Instead it should be taken to the appropriate collection point for the recycling of electrical and electronic equipment.

2. Heat Exchanger and Chiller operation and cleaning guidelines

2.1 The Heat Exchanger and Chiller unit

There are two parts to the unit. A heat exchanger which is located on the back wall of the SCI-tive workstation, and a chiller unit which is located externally below the workstation. The units are connected with flexible hoses.

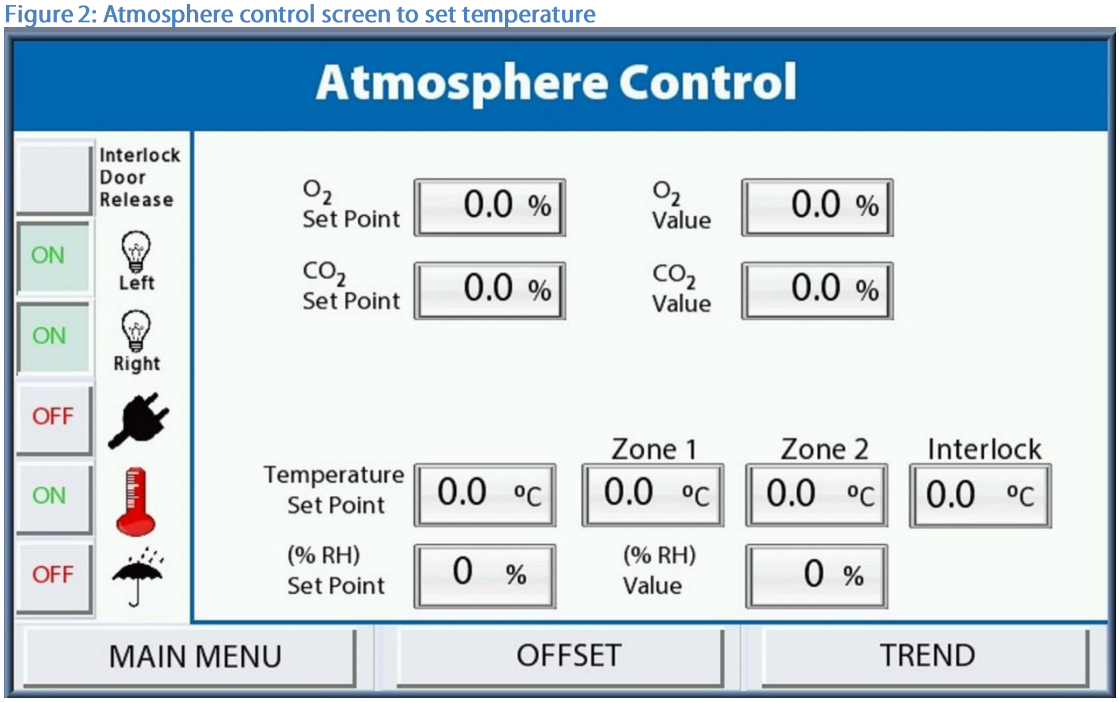
Figure 1: Heat Exchange & Chiller unit shown in SCI-tive workstation



2.2 Operating the Heat Exchanger

- Set the SCI-tive workstation temperature system to 27°C.
  The Temperature Control can be set from the left hand side menu of the "Gas Control Settings", "Hypoxic Cycle Settings" or "Anoxic Settings" screens, which are accessed from the Main Control Screen.

Figure 2: Atmosphere control screen to set temperature

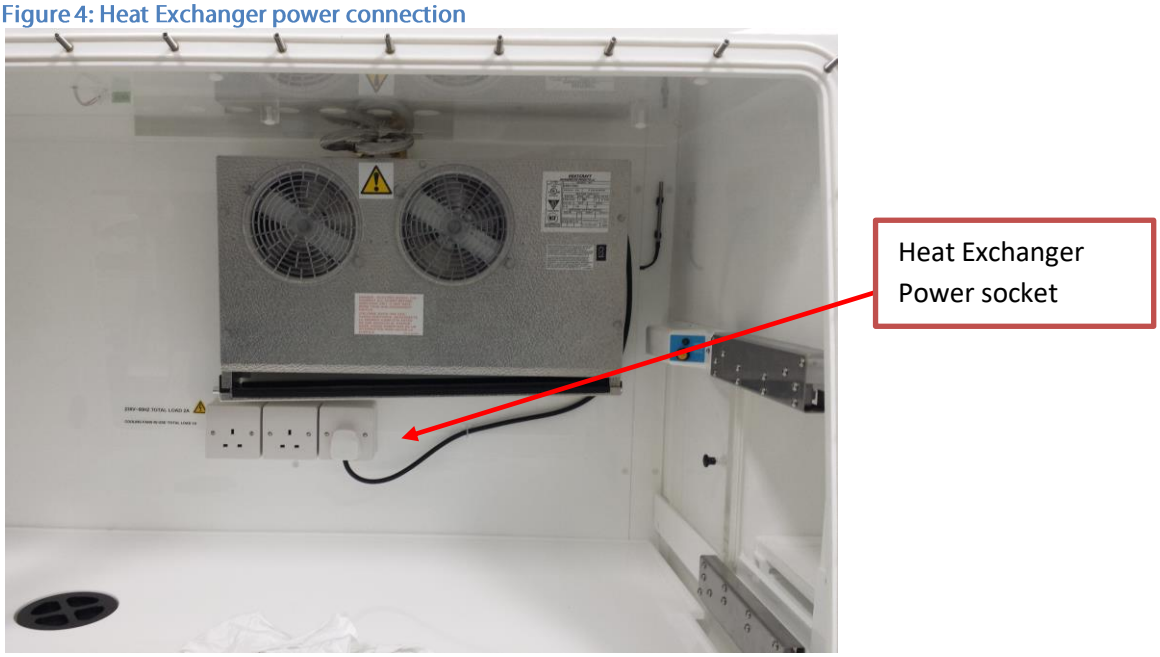


- Switch the SCI-tive humidity system to OFF, using the button on the left hand side of the control screen as shown below.

Figure 3: Humidity control set to off

- Ensure the Heat Exchanger is plugged into one of the sockets on the Sci-tive rear wall, as shown in Figure 4.
- Power on the External Chiller Unit and set temperature to 13°C. Please refer to the User Manual for the Polyscience 6306P recirculating chiller unit for full details.
- Power on the seahorse unit and ensure the heating system is activated.

Figure 4: Heat Exchanger power connection



2.3 Precautions / notes

- In the event of an issue or fault, the heat exchanger unit should be disconnected from the electrical supply by removing the heat exchanger plug from the rear wall sockets of the SCI-tive workstation.

2.4 Cleaning

- To clean the Heat Exchanger Unit, do not use Tristel Fuse solution or any fluid containing Ammonia. A mild detergent such as Ruskinn Anti-Static Cleaner is recommended.

3. Contact details

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