



OPERATION & MAINTENANCE MANUAL

CuddleBlanket System for the Cooling of a Single Deceased

Model designation: HC170
Product Type: Mortuary Cooling System
THIS IS NOT A MEDICAL DEVICE

Please read this manual before use



www.flexmort.com

+44 (0)8455 333561

info@flexmort.com

This instruction manual is compiled to assist the installation, commissioning, servicing and operation of the CuddleBlanket cooling system. This unit has been designed for continuous operation providing that it has been installed and maintained in strict accordance with this manual. The user should read the contents before installing the unit.

If the machine is not installed correctly then safety and protective measures or functions may not operate correctly or as intended.

Any liability for injury or damage caused by the incorrect installation and use of this machine lies exclusively with the user.

The manufacturer will not accept responsibility for damage caused by incorrect installation commissioning or operation.

Note: The machine contains powered electrical devices and moving parts.



System components

- 1 sturdy plastic storage/carry case with metal closures
- 1 mains powered cooling unit
- 1 mains power cord
- 1 flexible plastic cooling pad (reusable)

- 1 flexible insulated connection hose
- 1 insulated over blanket
- 1 bottle of *Coldflow2* coolant top-up, 2 litres
- 1 loop back test hose
- 1 user guide

Connections

Use only hoses, cooling pads and Flexmort ColdFlow2 approved by Flexmort.

Electrical installation

The CuddleBlanket system should be installed by a competent person. The electrical connections should be made using the 13A plug and lead supplied. An IEC socket is fitted on the side of the unit. Ensure the supply is according to the electrical requirements stated on the serial number label on the rear of the unit. This label identifies the voltage/frequency and the maximum current.

Quick Start Guide

We would strongly advise that at least 3 hours has elapsed between the deceased's passing and use of the cooling system. The reason is that the body will still be very warm and you will be fully insulating the deceased so it is strongly advised to let the deceased undertake some natural cooling for a few hours.

1. Setting up the CuddleBlanket

Ensure unit is switched OFF at the rocker switch adjacent to the power cord socket. Plug in the electrical cable ensuring the unit is kept flat and in a well-ventilated area. If the room is small then it is best to leave adjoining doors open where possible.

2. Connecting the hose

Plug the 2 male connectors of the long blue insulated hose firmly into the ports on the side of the unit. You will hear a click. It does not matter which way round you connect the hoses to the unit.

3. Connecting the cooling pad

Place the cooling pad over the deceased, just below the neck. We recommend placing a sheet over the deceased first. Then use another sheet over the cooling pad before using the supplied insulated duvet. This will help with cleaning and any condensation that may build up. You can place any blanket or cover over the supplied duvet, it will not affect the system. Ensure the duvet is tucked around the deceased to minimise warm ambient air reaching the cool pad.

4. Switch on the CuddleBlanket

Switch the CuddleBlanket ON using the black rocker on/off switch adjacent to the power cord socket.

5. You may need to top up the CuddleBlanket with cooling fluid (Coldflow2)

Fluid will begin to circulate from the CuddleBlanket through the hoses and to the cooling pad. The fluid level within the reservoir window may begin to drop and the alarm may sound briefly. For additional ColdFlow2 fluid, please contact info@flexmort.com.

No alarm - the CuddleBlanket is fully operational; please move to stage 6.

Alarm sounds - Do not turn off the unit, unscrew the filler cap and continuously fill the unit with Coldflow2 cooling fluid using a jug or funnel, avoiding spillage onto the unit. Fill approximately to the red line shown on the reservoir window.



6. Setting the temperature

The machine will remember the temperature it was set to during its last operation.

Don't need to change the temperature? Please move to stage 7.

Need to change the temperature? Follow the 3 steps below. The display will run through a self-test programme for the first few seconds after switching on the system, this is normal.

1. Press the 'P' button on the display once. 'SP-1' (set point) will be displayed in red at the top of the display.
2. Using the up and down arrow, select the required temperature in green. 8-10 °C is usual.
3. Press the 'P' button again to set the system. The machine will cool the circulating fluid to this temperature. The temperature of the fluid is shown by the red display and the green shows the set point.



7. Turning off the system

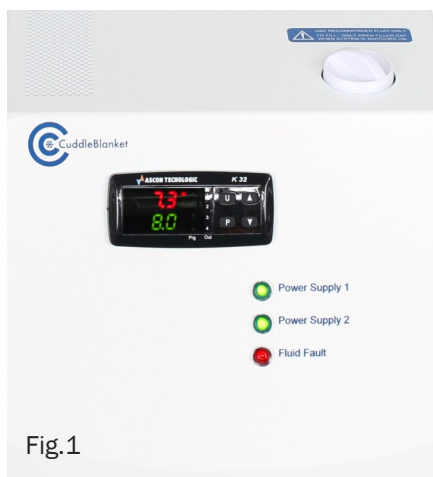
Switch off the unit at the black rocker switch, remove the hose (the alarm will sound which is normal) and unplug the machine. A few drops of the fluid will be lost from the connectors, this is normal.

IMPORTANT: Always allow the cooling pads to warm back up to room temperature before folding to pack away as this will increase the life of the pads.

8. Warning lights, alarm and topping up the CuddleBlanket unit with Coldflow2 fluid

The alarm will sound and the red LED light will illuminate if there is an obstruction to flow or if the reservoir is low on fluid. (Fig.1)

The reservoir should always be kept topped up during operation. Leave the unit switched on, remove the filler cap and top up slowly. (Fig.2)



Troubleshooting

Condensation on the cooling pad or the deceased

The cooling pad gets very cold in use. When there is a large temperature difference to the pad and the surrounding ambient air a small amount of condensation on the pad is normal.

There are 2 ways to reduce this:

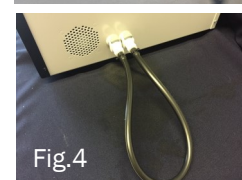
1. Ensure there are no gaps in the insulated duvet allowing the ambient air to reach the pad.
2. Increase the temperature of the machine (e.g. change from 8 °C to 10 °C).

The alarm is sounding and the red LED is illuminated

- Check the connection of the hose to the CuddleBlanket. Refer to section 2
- Check that the hose or cooling pad are not kinked or deformed.
- Check that there is fluid in the unit. Refer to section 5.

If the alarm is still sounding:

- Locate the supplied 'loop back' short test hose as shown. (see fig.3)
- Remove the blue hose from the unit and replace with the 'loop back'. (see fig.4)
- Loosen the filler cap to allow any trapped air to escape.
- Turn on the unit.
- If the alarm stops with the loop back fitted, check the cooling pad and blue hose, reconnect them and retry.
- If the alarm continues, contact Flexmort:



www.flexmort.com

+44 (0)8455 333561

service@flexmort.com

Basic Specification

Product Description

This Flexmort CuddleBlanket is a closed circuit recirculation unit designed for continuous operation and is used to cool bodies using a 'closed loop' cooling system through a cooling pad and hose.

Specification

Fluid: Use only Flexmort Ltd Coldflow2 cooling fluid. A data sheet is available upon request.

Note: Internal damage will occur if any other fluid is used (including water).

Electrical Supply

Mains Supply: 230Va/50Hz or 115Vac/60Hz

Total system AC current load: 230Vac - 3.7A (typical) maximum current 5A
115Vac - 7.0A (typical) maximum current 8A

Physical *(all measurements are approximate)*

Overall chiller unit dimensions: 365mm x 249mm x 349mm

Cooling pad dimensions: 100cm x 70cm

Weight: 11kg (drained)

Unpacking and Positioning

Unpacking the CuddleBlanket

Before unpacking the CuddleBlanket unit, inspect the blue packing case for any signs of damage. Carefully remove unit from packing case. Check unit for signs of transit damage.

If transit damage is discovered, immediately inform both the delivering haulage company and Flexmort in writing. Take photographic evidence and retain all packaging materials.

Please observe all local and governing recycling requirements when disposing of packaging materials.



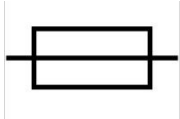

Positioning the Equipment

- The equipment must only be positioned indoors.
- The CuddleBlanket chiller unit must be kept upright at all times.
- The equipment must be positioned on a level surface.

- Avoid positioning in an area where other plant operations create a high ambient temperature. The chiller will operate most efficiently in ambient temperatures up to 23 °C
- The equipment must be installed in a well-ventilated area. Avoid obstructing the air grilles as these allow fresh air to enter the unit and warm exhaust air to escape.

Note: Recirculating hot exhaust air will adversely affect the performance of the coolant

Symbols, Identifying Marks and Warning Lamps

Symbol	Description
230 Vac 50 Hz 	Hazard—Electricity
PE 	Protective Earth
	Mains Fuse
	Power on/ off
‘Power supply 1’	24Vdc power supply operating when lit—Unit ON
‘Power supply 2’	12Vdc power supply operating when lit—Unit ON
‘Fluid Fault’	Fluid flow fault when lit. Normally unlit

Compliance

- CE compliant, EMC/LV compliant.
- This cooler complies with current European Council Directives.
- UL certification pending.

Any changes to the construction or its intended use by the customer may void the compliance.



Moving and handling

When moving the unit please ensure the two side handles are used.



Before moving the unit to another location ensure the unit is turned off and the electrical supply is disconnected from the supply and the unit.

Maintenance

	CAUTION ELECTRICITY HAZARD OF ELECTRIC SHOCK	
<p>Unless otherwise stated always ensure the power supply is off and disconnected before carrying out any maintenance and ensure that power cannot be reapplied accidentally.</p> <p>Only qualified personnel should only carry out maintenance work</p>		

During fault finding diagnostics and maintenance, it may be necessary to remove panels, which expose the dangers of electrical equipment. Only qualified personnel who are fully trained, aware and equipped to repair this equipment should complete such work.

Isolate the unit from the mains electrical supply before opening control panels or removing any exterior panel.

Never alter settings (apart from temperature set point) without first consulting Flexmort.

General Maintenance

- Clean CuddleBlanket chiller metal surfaces with a clean damp cloth.
- Clean plastic surfaces with any plastic safe cleaner or disinfectant.

- Ensure all external grilles are clear of dust and debris
- Insulation blanket can be gently washed at 30°C. Reshape while damp. Do not tumble dry
- Check all screwed fittings and panels are in place
- Perform Portable Appliance Test (PAT) including power cord
- It is recommended that a yearly preventative maintenance check is carried out by Flexmort

Disposal of equipment (End of service life)

UK WEEE Regulations 2006

This equipment has been designed using recyclable and RoHS compliance standard parts (where design conditions permit). Please read the information below for how to dispose of this equipment.

For business users in the European Union:

At the end of its service life the unit can be returned for decommissioning and recycling to Flexmort. Please contact Flexmort for further information.

Flexmort
Unit 1C Cotswold Buildings
Barnwood Point, Corinium Avenue
Gloucester, GL4 3HX
United Kingdom

www.flexmort.com

+44 (0)8455 333561

service@flexmort.com