



ABI COOLING COT mk4

OPERATION & MAINTENANCE MANUAL



MARCH 2025

THIS IS NOT A MEDICAL DEVICE

Contents

General Information 3

- User Guide
- Handling and Transport
- Installation
- Service Instructions
- Case Cleaning

Case Information 6

- Model
- Cot Features
- Colour
- Technical Data
- Profile
- Footprint Drawing

Spare Parts List 7

Troubleshooting Guide 8

Parameters that are not default 9

EC Declaration of Conformity 10



General Information

Abi Cots are designed to allow bereaved parents to spend a larger amount of time with their baby in order to grieve and say goodbye as a family and is not designed to store human tissue. Please note the Abi Cot is for periods of short term usage and is not to be used for storage/mortuary purposes.

Whenever our cot is used it is under the supervision of a competent bereavement midwife who has read and understood the instruction manual. The Abi Cot will be used for a number of hours before the baby is returned to the mortuary for proper storage, being brought back out to the parents when they are ready to see the baby again. Occasionally the baby may be kept for longer in the cot in a preparation room area away from the parents. The baby should always be returned to the mortuary for longer periods of storage time.

Start Up Guide

- Connect the plug to a 240V standard UK socket
- Switch the unit on at the mains and confirm that the LED light in the bottom corner of the unit is on to indicate that the unit is receiving power.
- Allow to run for 10-15 minutes the cot will then go down to temperature of $+2/8^{\circ}\text{C}$.
- The cot is now ready for use, check daily when in use and perform maintenance at regular intervals.
- The temperature will fluctuate as the cot runs on a continuous refrigeration cycle. The unit has an automatic defrost facility which operates every 6 hours, during these times the temperature will exceed the normal running temperature, however if the temperature exceeds 16°C and does not decrease then please contact the hospitals certified Refrigeration or Electrical department.
- We recommend that routine temperature checks, using a suitable temperature probe, should be included at initial installation of the Abi Cot and at regular intervals as part of the standard operating procedure to confirm that the unit is operating correctly.

The Abi Cot Mark 4 operates effectively without a lid, as the temperature is better regulated and more effective in this configuration.

General Information

- Switch off at socket and remove plug.
- Allow 2 hours for cot to defrost.
- Follow maintenance procedure as below
- Clean stainless steel well as below.

Cleaning and Maintenance Guide

Well Cleaning and removing excess water (Daily)

- Remove items from the stainless steel well to expose the bottom.
- Wipe the base and sides of the well with a cloth or towel to remove excess moisture or water, if necessary rinse out with clean water and dry to prevent condensation
- Re-install items and continue.

Regular Maintenance and Shut down Cleaning

- Switch off at socket and remove plug.
- Internal and Exterior panel work should be regularly cleaned with and damp cloth using a mild soapy solution. The use of abrasive materials should be avoided on any surface.
- Take care when cleaning near the condenser coil, it is recommended to wear protective gloves
- Clean the condenser with a brush or Hoover gently clearing the dust and debris, you should be able to see through the condenser for the unit to function at maximum capacity.

Handling and Transport

The refrigerated cot is transported on a pallet and can be moved by fork truck with amply boarded and widely spaced forks for stability or a pallet truck. The refrigerated cot is fixed with castors for normal daily movement.

Installation

To avoid the formation of condensation inside the cot area, the refrigerated cot should not be run continuously without the temperature being tested to ensure it is in the range of +2/8 C.

Service Instructions

A recognised Refrigeration or Electrical contractor should undertake all Servicing of the refrigerated cot refrigeration and electrical systems. Servicing and PAT4 testing is recommended on an annual basis. Before carrying out any routine maintenance or cleaning of this appliance the mains supply must be disconnected/isolated. A regular maintenance and cleaning programme should be implemented by the user to keep the appliance in good working order.

General Information

Case Cleaning

Switch off the refrigerated cot at the plug socket before commencing any cleaning operation. All the case interior and exterior panel work should be regularly cleaned with a damp cloth using mild soap solution. The use of abrasive materials on any surface should be avoided. It is recommended that the internal cot area of the appliance should be cleaned out after each use. The internal cot area is rinsed out with clean water. The cot area should be dried after cleaning to prevent condensation.

Care should be taken when cleaning near the condenser coil - it is recommended that protective gloves are worn. Cleaning the condenser is recommended with a brush or Hoover gently clearing and dust and debris from the condenser. You need to be able to see through the condenser for the unit to function at maximum capacity. If you are unsure of any of these maintenance/cleaning issues contact your hospital EME (Electro Medical Engineering) department or Abigail's Footsteps on alyssa@abigailsfootsteps.co.uk

Case Information

Model	Bond Abi
Description	Refrigerated Cot
Cot Size	866mm High x 458mm Deep
Cot Length	729mm
Maximum Design Ambient Conditions	25°C 60% R H
Temperature Range	+2 / 8 deg

Cot Features

- Wooden Panels
- Brass Fittings
- 9010 Internal
- Insulated trivet

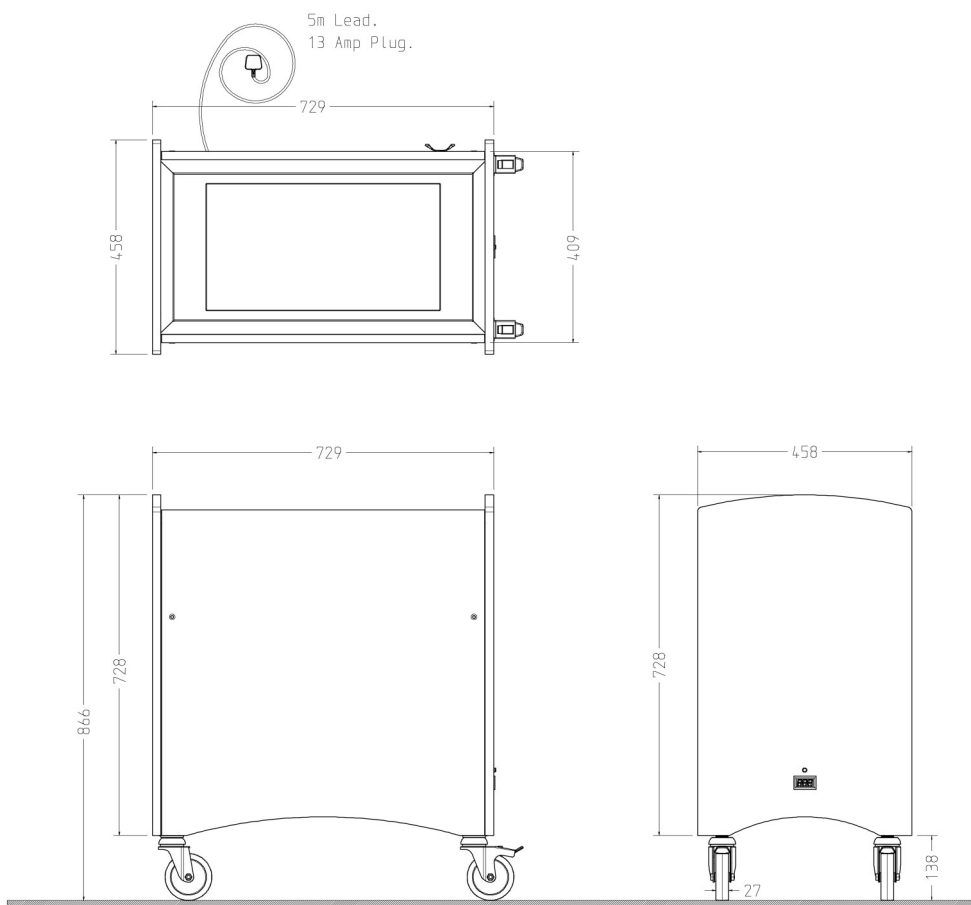
Colour

- 9010

Technical Details

Controller

LAE AT1-5



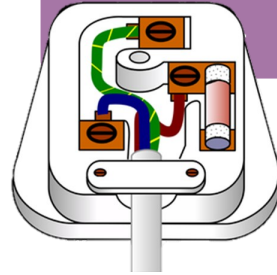
Refrigeration Data	Abi Cot
Refrigeration Charge (KG)	70g
Refrigerant Type	R290
Compressor (Embraco)	UEMT6144U
Electrical Data (230v / 50Hz)	Watts/Amps
Compressor	354/1.54
Fan	10/0.04
Maximum Running Load	364/1.58
LAE AT1-5 Controller	S/P -15°C

Part Number	Description	Colour	Quantity Per Cot
MA30Y42	Cot End Panel with display cutout	9010	1
MA30Y44	Cot End Panel no cutout	9010	1
MA30Y41	Cot Side Panel with hook	9010	1
MA30Y43	Cot Side Panel no hook	9010	1
EX2AC028	Embraco Condensing Unit UEMT6144U	N/A	1
130165	LAE Controller	N/A	1
EX5ACA104	Panel Light	Green	1
EX5ACA079	Moulded 13A Plug + Lead	N/A	1
MA40G75-32	Electrical Box	9010	1
MA40H32-32	Electrical Box Lid	9010	1
EX5AR018	2P RCD 25A 30mA AC/DC	N/A	1
EX5AS110	Castor with Brake	N/A	2
EX5AS109	Castor without Brake	N/A	2
EX2DS001	1/4 Drier	N/A	1
EX2AP074	1000mm x 0.8mm ID Cpillary	N/A	1
MA20P105A-32	Insulated Trivet	9010	1
130027	NTC Probe	N/A	1

Abigail's

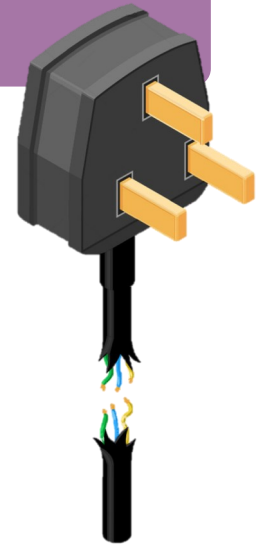


Abi Cot Troubleshooting Guide



No Operation

- Check power supply connected and fuse hasn't blown
- Check power cable isn't damaged
- Check RCD hasn't tripped, this is inside the cot



Cot not getting cold (call an engineer)

- Refrigerant leak
- Damaged compressor
 - Dirty condenser
- Controller settings
- Electrical Fault

Controller			LAE AT1-5			Parameter Sheet
Refrigerant			R290			
Set Up Data						LAE
Param	Min	Max	Unit	Default	Actual	Description
SPL	-50	SPH	°C/°F (1)	-5	-15	Minimum Limit for Set Point
SPH	SPL	120	°C/°F (1)	5	22	Maximum Limit for Set Point
SP	SPL	SPH	°C/°F (1)	2	-10	Set Point
C-H				REF	REF	REF / HEA
HYS	1	10	°C/°F (1)	3	5	OFF / ON Thermostat Differential
CRT	0	30	min	3	0	Compressor Rest time
CT1	0	30	min	3	Default	Compressor run with sensor T1 failure
CT2	0	30	min	6	Default	Compressor stop with sensor T1 failure
CSD	0	30	min	1	Default	Compressor stop delay from door opening
DFR	0	24	hours	3	6	Defrost Frequency
DU	-50	120	°C/°F (1)	6	6	Defrost End Temperature
DTO	1	120	min	20	20	Maximum Defrost Duration
DTY	OFF / ELE / GAS			ELE	Default	Defrost type
DDY				10	Default	Defrosting Display Control
ALA	-50	120	°C/°F (1)	-50	-12	Low Temperature Alarm Threshold
AHA	-50	120	°C/°F (1)	120	10	High Temperature Alarm Threshold
ATD	0	120	min	30	Default	Alarm Temperature Delay
ADO	0	30	min	5	Default	Door Alarm Delay
ACC	0	52	weeks	0	Default	Periodic Condenser Cleaning
SB	yes/no			yes	Default	Button Enabling
DS	yes/no			no	Default	Door Switch Enabling
OAU	-	-	-	non	Default	Aux output operation (NON = output disabled)
INP	SN4/ST1			SN4	Default	NTC
OS1	-125	+125		0	Default	Probe T1 offset
T2	yes/no			yes	no	Probe T2 Enabling
OS2	-125	+125		0	Default	Probe T2 offset
TLD	1	30	min	5	Default	Delay for min/max temperature storage
SIM	0	100		0	Default	Display slowdown
ADR	1	255		1	Default	Peripheral address



www.bond-group.com

Abigail's

www.abigailsfootsteps.co.uk

EC Declaration of Conformity

In accordance with BS EN ISO/IEC 17050-1:2010



1. Bond Retail Services Limited, New Road, Sheerness, Kent. ME12 1BB
2. This declaration of conformity is issued under the sole responsibility of the manufacture
3. Equipment: Refrigerated Equipment
Model Name: Abigail's Cot
Type: Integral
Date of Issue: 24th November 2020
Site Name: Various

Research & Development Job Number: RD449

4. The object of the declaration described above is in conformity with the relevant Union harmonized legislation
5. In accordance with the following Directives:

2006/95/EC	Low voltage directive
ISO23953-2-2016	Refrigeration display cabinets
842/2006	F-gas regulation
BSEN378-2016	Refrigerating systems & heat pumps – safety & environmental requirements
97/23/EEC	Pressure equipment directive (PED) Sound Engineering Practice
2002/96/EC	WEEE directive
A1,A2,A3	IOR Safety code for refrigerating systems (2015)
93-68-EEC	CE marking directive
BSEN 2754:1976	Construction of electrical equipment for protection against electric shocks

Name: Adam Harrison

Position: Design Centre Manager

Signed:

Name: Harish Chander

Position: New Cabinet Division Director

Signed:

Place of Issue: Sheerness

Date of Issue: 24th Nov 2020