

ABI REFRIGERATED COT MK2

OPERATION & MAINTENANCE MANUAL



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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 morgue 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, in which case the lid will be placed back onto the top of the cot maintaining a constant 4 degree temperature. The baby should always be returned to the morgue 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.
- With the lid on, allow to run for 10-15 minutes the cot will then go down to temperature of +2/8°C.
- The cot is now ready for use, check daily when in use and perform maintenance at regular intervals.
- The lid should only be removed when the cot is occupied, in order for the unit to maintain its optimal operating temperature.
- If the cot is to be used overnight it is recommended the use of an 'overnight grill and cotton sheet' which would be placed in the well. If you wish to add a small foam mattress (on top of the grill) this will not affect the cots performance.
- 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.

General Information

Shut Down Guide

- 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.
- Replace the lid for storage.

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 use or replace lid for storage if no longer in use.

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 for longer than 12 hours at a time, within this period the lid should not be removed for more than 4 hours at a time. The cot lid should be left in place as long as possible to avoid the build-up of condensation in the cot area.

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 a bi-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 sales person or the Bond service desk.

Case Information

Model	Bond Abi
Description	Refrigerated Cot
Cot Size	863mm High x 458mm Deep
Cot Length	737 mm
Maximum Design Ambient Conditions	25°C 60% R H
Temperature Range with Lid on	-1°C to +4°C

Cot Features

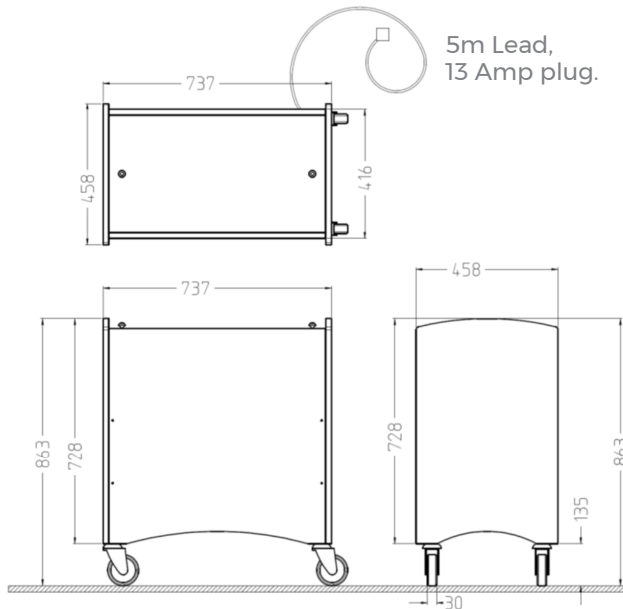
- Wooden Panels
- Brass Fittings
- Stainless Internal
- Stainless Steel Trivit

Colour

- Light Winchester Oak

Technical Details

Controller	LAE AT1-5
Fan	10 / 0.04
LAE Controller	AT1-5



Refrigeration Data	Abi 743mm
Refrigerant Charge (KG)	270g
Refrigerant Type	R134A
Compressor Embraco	EMT6144Z
Electrical Data (230V / 50Hz)	Watts / Amps
Compressor	322/1.4
Fan	10/0.04
Maximum Running Load for Cabinet	332/1.44
LAE AT1-5 Controller	S/P -0.4°

Spare Parts List

Part Number	Description	Colour	Quantity Per Cabinet
250029	Cot End	Egger Light Winchester Oak H3382	2
250030	Fixed Side Panel	Egger Light Winchester Oak H3382	1
250031	Removable Side Panel	Egger Light Winchester Oak H3382	1
250032	Cot Lid	Egger Light Winchester Oak H3382	1
UEMT6144Z	Embraco Condensing Unit	N/A	1
130165	LAE Controller	N/A	1
EX5ACA104	Panel Light	Green	1
EX5ACA079	Moulded 13A Plug + Lead	N/A	1
EX5ACA105	Electrical Box 150x110x140	N/A	1
EX5AR012	2P RCD 25A 30ma AC/DC	N/A	1
EX5ATE010	Earth Terminal	N/A	1
EX5AS110	Caster with Brakes	N/A	2
EX5AS109	Caster without Brakes	N/A	2
EX2DS001	1/4 Dryer	N/A	1
EX2AP074	2000mm x 0.8mm ID Capillary	N/A	1
EXCAS131	Trivit (Base Grid)	Stainless Steel	1
130027	NTC probe	N/A	1

Cabinet Length: 737mm

Cabinet Controller			LAE ATI-5			Information Sheet
Refrigerant			R134A			
Set Up Data						Chicago - 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	-0.4	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 /			elc	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	99.0			yes	Default	Button enabling
DS	99.0			no	Default	Door switch enabling
OAU	-	-	-	non	Default	Aux output operation (NON = output disa-
No Defrost Heater						(0-1 = the relay contacts follow the on/
						(DEF = output programmed for defrost con-
						(LGT = output enabled for light control)
						(ALO = contacts open when an alarm condi-
						(AL1 = contacts make when an alarm condi-
Inp	SN4/ST1			SN4	Default	NTC
Os1	-125	+125	°	0	Default	Probe T1 offset
T2	yes/no			yes	yes	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



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EC Declaration of Conformity

In accordance with BS EN ISO/IEC 17050-1:2004

Bond Display Cabinets

Telford House, Halesfield 9
Telford
Shropshire
TF7 4QW

Declare that:

Equipment: **Refrigerated Cot**
Model: **Abi**

In accordance with the following Directives:

- | | |
|------------|---------------------------------------------------------------------------------------------------------------------------------|
| 2006/95/EC | Conforms with the safety objectives of the Low Voltage Directive and It's amending directives. |
| 89/336/EEC | Conforms with the essential protection requirements of the Electromagnetic Compatibility Directive and its amending directives. |
| 97/23/EEC | Conforms with the essential requirements of the Pressure Equipment Directive (Category 1) and its amending directives. |

Designed and manufactured to the following specifications:

BS EN 60335-1, BS EN 60335-2-89, BS EN 55014-1, BS EN 55014-2, EN 61000-3-2, EN 61000-3-3, BS EN 378, BS EN 378-2.

I hereby declare that the equipment named above has been found to comply with the relevant sections of the above referenced specifications. The unit complies with all essential requirements of the Directive.

Signed by:

the responsible person

Name: Harish Chander

Position: Managing Director

Place of Issue: Telford, Shropshire UK

Date of Issue: 20th October 2014