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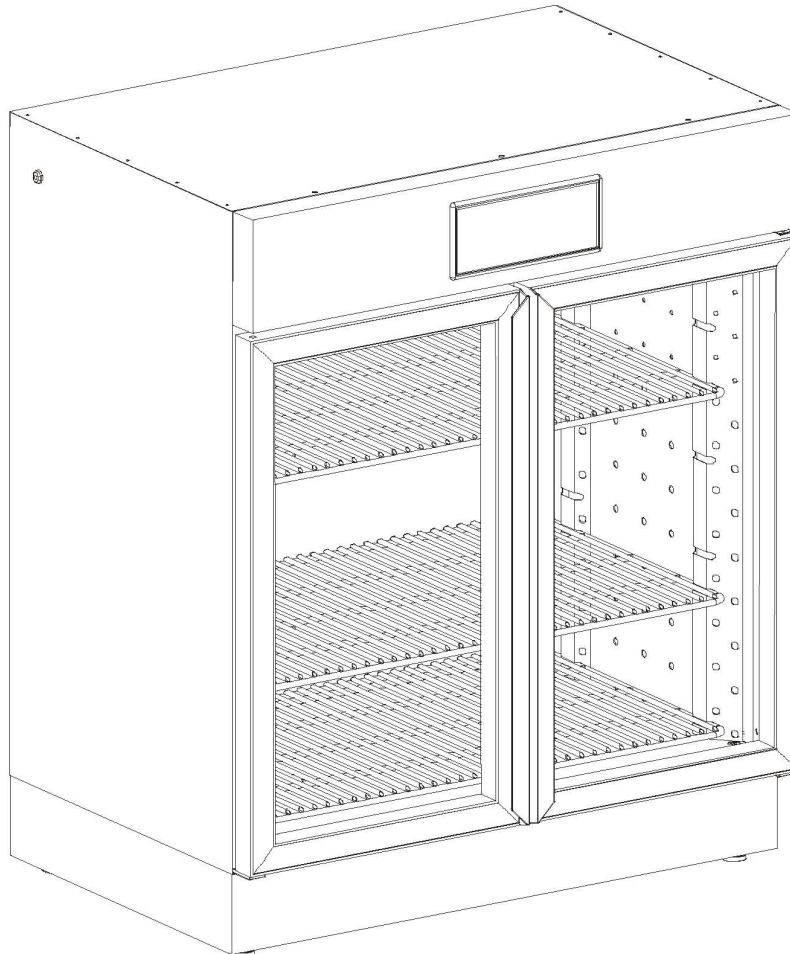
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Quality
ISO 9001

Fluid Warming Cabinet

CE Model



Operation, Maintenance and Installation Manual

Serial Number:.....	Supplied to:.....
Date Installed:.....	Installed by:.....

*Note: Due to Malmet's Policy of continuous product improvement;
design and technical specifications are subject to change without notice*

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Operation, Maintenance and Installation Manual

Features

The recommended maximum capacity for the Fluid Warming Cabinet is 60 litres of fluid. The Fluid Warming Cabinet is designed to hold 1 and 2 bottles and bags.

Do not overload shelves. Heated air must be allowed to circulate around the fluid containers.

The temperature can be adjusted up to a maximum of 37°C and **has a lock out feature, which allows only authorised staff to change the temperature.**

A fluid temperature sensor plate is located in the cabinet, which enables actual fluid temperature to be monitored.

The unit can be left on permanently as power consumption is minimal.

Electrical Rating 240V 50Hz 2.8 Amps supplied with IEC power cord standard 10 Amp plug.

Wall Recessed Connect to standard 240V outlet and position in cavity assuring doors can open and shut in a corner manner.

Plug shall be accessible after installation. Dimensions of space (e.g. at least 30mm around the appliance) are to be provided for the appliance.

Wall Mounted Place into position and bolt to the wall using bracket supplied and plug unit into standard 240V outlet.

NOTE: This appliance is not intended for use by young children or infirm persons unless they have been adequately supervised by a responsible person to ensure that they can use the appliance safely. Young children should be supervised to ensure that they do not play with the appliance.



Quality Policy

Malmet (Australia) is Quality Certified to ISO 9001 and guarantees the quality of this product. Should you have any problems with your machine, contact the company from whom you purchased it, or Malmet (Australia).



Malmet (Australia) Pty Ltd
Head Office and Factory
PO Box 373
LEETON NSW 2705



Section A – Unit Operation

NOTE

The Fluid Warming Cabinet is factory set to 37°C.
We recommend you check with the fluid supplier for the correct temperature.

Before starting the Unit

The unit should be run initially on a power supply not protected by an earth leakage circuit breaker for approximately three hours. This will allow any moisture in the heater to dry out. The unit can then be connected to an earth leakage circuit breaker protected circuit if required.

Plug into standard 240V outlet.

Starting the Unit

Press the standby button, the preset temperature of the cabinet appears for approximately five seconds. After five seconds the unit switches to display the actual cabinet temperature.

Changing the set temperature (lock out feature) AUTHORISED PERSONNEL ONLY

Authorised operators can change the temperature by holding the up and down temperature buttons at the same time for a total of 5 seconds. The temperature can then be adjusted. The setting will revert back to tamper proof 5 seconds after the temperature is adjusted or if the up and down temperature buttons are not pressed within 5 seconds.

Temperature Sensor Plate

When new product is introduced into the cabinet the temperature of the fluid can be monitored using the temperature sensor plate.

1. Place fluid container on the Fluid Sensor Plate located on the bottom shelf ensuring the sensor disc is completely covered.
2. Wait two minutes for an accurate temperature reading to be obtained.
3. To view actual fluid temperature, via the main display board, press and hold down either of the up or down temperature buttons.

Note 1: It can take an average of eight hours for a full load of fluid containers to reach required temperature. This time may vary depending on the configuration of the load. We recommend that the cabinet is re-stocked at the end of each day.

Note 2: Rotation of Stock is important, as once warmed, solution should be used within 14 days.



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Temperature Cut Out

The unit has a built in electronic over temperature cut out which will switch off the elements if the selected temperature is exceeded by 5°C, and 'Ot' will flash on the display panel. (See Fig 1)

If the electronic cut out fails, a secondary safety bi-metallic cut out temperature switch will switch off the power to the elements.

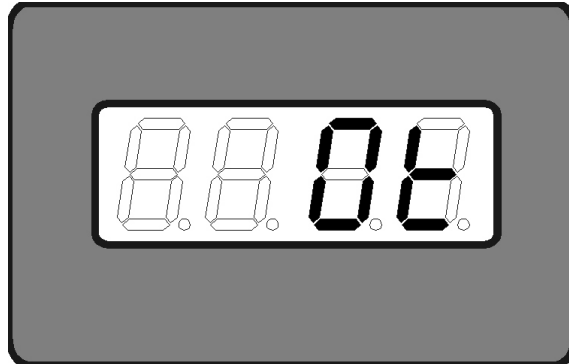


Fig 1



Section B – Unit Maintenance

Preventative Maintenance

Daily Wipe out inside doors and chamber with warm water and detergent.

Weekly Wipe over outside panels with stainless steel cleaner.

Yearly Check electrical connections.



Note: Disconnect power before performing Yearly maintenance.

Units fitted with castors should have regular Test and Tag procedures undertaken.



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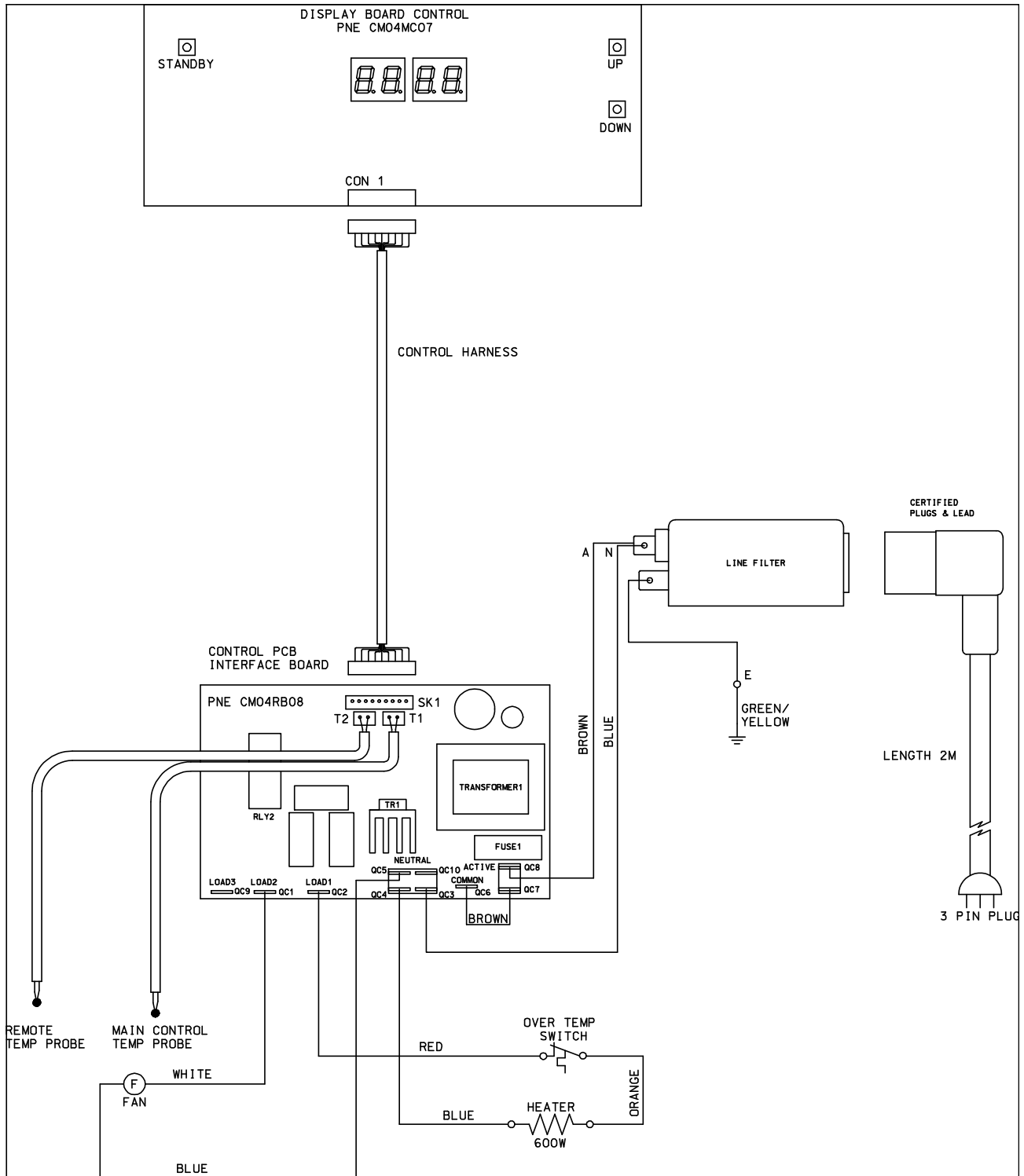
Trouble Shooting Guide

Problem	Probable Cause	Suggested Remedy
Display not on or wont turn on.	No Mains power supply. Power point not turned on. Display will not turn on. Faulty display board. Interconnecting harness failure. Relay board fault.	Check power supply and lead plugged in. Check power switched on. Press Standby button. Switch off power supply at main and Call for Service. Switch off power supply at main and Call for Service. Switch off power supply at main and Call for Service.
Display turns on. (Runs for approximately ½ - 1 hour then turns off).	Fan failure.	Switch off power supply at main and Call for Service.
Display is on but unit not heating.	Element failure. Relay board failure.	Switch off power supply at main and Call for Service. Switch off power supply at main and Call for Service.
Display indicates Ot	Fan Failure. Element on. Continuously unable to switch off. (Relay Board Failure)	Switch off power supply at main and Call for Service. Switch off power supply at main and Call for Service.
Display indicates O/C	Control Temperature Thermistor is broken or unplugged.	Switch off power supply at main and Call for Service.
Display on but unit cooling down.	Element failure. Relay board failure.	Switch off power supply at main and Call for Service. Switch off power supply at main and Call for Service.



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Wiring Diagram



Drg: BFWF_3_E_2



Section C – Unit Installation

Floor Bench Skirt

The Factory will fasten the Floor-Bench Skirt when ordered with a cabinet. To level, remove the four plastic plugs from the inside floor and adjust the feet by turning the slotted screw head. When level replace the plugs.

If the Floor-Bench Skirt is ordered separately to convert a cabinet the conversion will take approximately fifteen minutes and only require a screwdriver. Place the cabinet on its back, the base is pre-drilled with ten nutsert holes. Using the screws supplied fasten the Floor-Bench Skirt. Stand the unit upright and level as above.

The front panel of the Floor-Bench Skirt is removable to clean under the unit.

Combination Cabinets

The Factory will combine cabinets when ordered as a combination unit. To level, remove the four plastic plugs from the inside floor and adjust the feet by turning the slotted screw head. When level replace the plugs.

The front panel of the floor skirt is removable to clean under the unit.

Cabinet Stand

The Factory will fasten when ordered with a cabinet. To level, remove the front panel of the stand and adjust the feet by turning the slotted screw head. This panel can also be removed to clean under the unit.

If the stand is ordered separately to convert a cabinet the conversion will take approximately fifteen minutes and only require a screwdriver. Place the cabinet on its back, the base is pre-drilled with ten nutsert holes. Using the screws supplied fasten the stand. Place the unit upright and level as above.

Combination Conversion Kit

This comprises a Floor-Bench Skirt and a Rear Joining Bracket. Conversion will take approximately fifteen minutes and only require a screwdriver. Place the bottom cabinet on its back. The base is pre-drilled with ten nutsert holes. Using the screws supplied fasten the Floor-Bench Skirt. Stand the unit upright.

Remove the 7 plugs (3 small and 4 large) on the top of the bottom cabinet, place the top cabinet in position locating the bottom hinge bolts in the four large holes. Remove the two screws, in the cabinet that secure the slide out service tray and slide out as far as it will go. There are three securing holes located inside the top of the service compartment. Using the screws supplied fasten the cabinets together and replace the service tray.



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The back of both cabinets are pre-drilled with four nutsert holes, using the screws supplied, fix the Rear Joining Bracket into position. Place the cabinet in position and level.

NB: Plugs must be replaced after levelling of the temperature control of the cabinet may be compromised.

Wall Mounted Cabinet

All cabinets are supplied with a Wall-Mounting Bracket as standard. Secure the bracket to the wall ensuring it is level. We recommend 4 (8mm x 50mm) long coach screws for stud position walls and dyno bolts for solid walls.

Two people are required to lift the cabinet to the height of the Mounting Bracket, move the top of the cabinet to the wall at approximately 45° and locate on the Wall Mounting Bracket. When secure swing the bottom of the cabinet to the wall ensuring it is firmly pushed onto the wall bracket. To remove, reverse this procedure.

Cabinets with Castors

All cabinets should be located on a level floor surface and should never be operated on a sloping surface.

Check that all swivel wheels are in lock position.

If cabinet needs to be moved, disconnect power plug from GPO.

CAUTION: FLUID CABINETS WHEN FULLY LOADED WEIGH APPROXIMATELY 160KGS



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Unit Specifications

Capacity	Fluid	60 Litres
Electrical Rating	Volts	240V
	Phase / Hz	1 ph / 50 Hz
	Amps	2.8 Amps
	Watts	0.6 kW
Electrical Connection	IEC right angle Power Cord with 3 Pin Plug	10 Amp (into standard GPO 240 Volt)
Elements	Circular Unfinned	Stainless steel sheathed 10mm diameter tubular
	Rated	600 watt
Control PCB	Microprocessor Control Relay	PCB (SKCM325) Access via compatible RS232
	Overtemp Protection	Electronic cutout @ 5°C above set point
Temperature Control	Incremental 1°C – 50°C	Factory set at 37°C
Secondary Overtemp Protection	High Limit	Auto reset Bi-Metallic Disc 60°C
Materials	Doors	Bi-parting, double glazed with powder coated frames
	Cabinet	304/4 and 430D stainless steel

Note 1: If the supply cord is damaged it must be replaced by a special cord or assembly from the manufacturer.



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Warranty Statement – Australia Only

Subject to the following conditions we provide, from the date of purchase, the following warranty:

- Functional components found within the unit to be defective in workmanship or material will be repaired or replaced free of charge subject to the periods of warranty specified.
- A decision regarding whether the defective components will be repaired or replaced will be determined at the sole discretion of Malmet (Australia) Pty Ltd (“**Malmet**”) or its authorized agents or representatives.
- The structural warranty covers any structural components within the unit, which fail to perform their intended function due to faulty manufacture or deterioration within the warranty period.

This warranty only covers products manufactured by Malmet.

This warranty is provided, and operates in addition to, the statutory warranties Malmet provides you as a consumer under the Australian Consumer Law or by virtue of any other applicable legislation.

CONDITIONS AND EXCLUSIONS

- Equipment must be installed according to our instructions (outlined in our Operation, Maintenance and Installation Manual) and operated to the purpose it was designed.
- To the extent permitted by law, this warranty shall not cover damage, malfunction or failure resulting from accident, misuse or misapplication, improper or unauthorised repair, neglect or modification or use of unauthorised replacement parts or accessories, or improper voltage. The warranty shall be void if the serial number is removed or altered.
- Parts damaged in transit back to Malmet Leeton due to poor packaging could result in warranty claim being rejected.
- Any part tampered with or which has been altered by unauthorised repairs and or modifications, will be rejected under a warranty claim.
- Reasonable access must be allowed for maintenance. If any additional equipment is needed to provide access to the unit, this must be provided (and paid for) by the owner.
- It is the owner’s responsibility to provide safe access to the unit. Malmet, or any of its authorised service outlets, may refuse to perform maintenance or warranty work if access is unsafe, as determined by Malmet or any of its authorized service outlets at their sole discretion (acting reasonably).
- Should a warranty claim be rejected you will be advised in writing with a full explanation of our reasons.
- It is our policy to have a Warranty Claim Procedure that is fair to our customers and provides an efficient system of replacement and/or repair of faulty parts. If at any time you believe we are not meeting our commitment to you please contact Malmet Head Office – Leeton by telephone on (02) 6953 7677 or in writing to PO Box 373, Leeton NSW 2705.
- To the extent permitted by law, no responsibility will be accepted for outside elements including, but not limited to storms, pest and vermin that may cause damage to the unit.



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- To the extent permitted by law, no responsibility will be accepted for damage incurred as a result of, or incidental to, electrical surges or brown outs or for any other consequential damages.
- If there is no certificate of compliance for plumbing or electrical, Malmet reserves the right to refuse service on non-compliant installations.
- To the extent permitted by law, claims for damage to contents, carpet, ceilings, foundations or any other consequential loss either direct or indirect resulting from, power spikes, incorrect operation, incorrect installation, faulty product or any other cause, are excluded.
- This warranty, and to the extent permitted by law, any warranties owed by Malmet under the Australian Consumer Law or other applicable legislation, are not transferrable and cannot be sold, assigned or transferred in any other way from the purchaser to any other person.
- To the extent permitted by law, unauthorised use of any parts that were not supplied or approved for use in the applicable unit by Malmet will result in this warranty and any warranty claims applicable to that unit being void.
- Warranty labour (service work) shall not include units located outside of city metropolitan areas. Costs outside these areas shall be borne by the Customer. The Customer shall be notified of this prior to the warranty call out.

To the extent permitted by law, a charge will be made for work done or a service call made where:

- There is no defect apparent with the unit, as determined by Malmet or its authorized representative or agent at their sole discretion (acting reasonably).
- The defective operation of the unit is due to failure of electricity or water supply.
- Defects are caused by neglect, incorrect application, abuse or by accidental damage of the unit.
- An unauthorised person has attempted to repair the unit.
- Harsh environmental situations including, but not limited to, water quality that may cause the water tank damage can not be considered warranty.

How to make a claim under this warranty:

If you believe there is a defect in a unit you have purchased from Malmet, you must notify Malmet in writing of such defect, by sending a letter ("**Notice of Defect**") to Malmet at PO Box 373, Leeton NSW 2705 prior to the expiration of the applicable warranty period set out in this warranty.

For the avoidance of doubt, Malmet must receive your Notice of Defect prior to the expiration of the warranty period, and will be deemed to receive such Notice of Defect one business day (in the state of New South Wales) after you post the Notice of Defect.

To the extent permitted by law, Malmet will not reimburse you for any expense you incur in claiming or attempting to make a claim for repair or replacement of a component under this warranty.

Australian Consumer Law Disclaimer:

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.



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Warranty on Replacement Parts

Parts replaced under warranty are warranted for the balance of the original warranty period for that product.

Unit Components	Parts & Labour
Structural Guarantee	1 Year
All other components	1 Year

Date Sold:Warranty Expiry Date:

Sold To:

For Service Contact:

Proof of Purchase

It is important that the name of the distributor from whom you purchased your product and the name of the installer are recorded at the front page of this manual. The installer is responsible for the correct installation, start up and demonstrating the operation of this product. They are also responsible for issuing the relevant certificates of compliance (these may differ from state to state).

Please attach your proof of purchase. Your receipt/invoice is your warranty and will be required to validate any warranty.

E.&O.E.

In the interest of continued product improvement, Malmet (Australia) Pty Ltd reserves the right to alter specifications without notice.



Manufactured by
Malmet (Australia)
ABN 95 001 717 791
www.malmet.com.au