



Data Sheet
Aegis Series

EL-RG-4M

Pharmacy Refrigerator

EL-RG-4M

Medical & Pharmacy Refrigerator

GENERAL SPECIFICATIONS

Cabinet Type	Under-counter
Capacity	105L / 3.70 cu ft
Internal Size(W*D*H)	410*650*420mm 16.14*25.59*16.53in
External Size(W*D*H)	510*885*560mm 20.07*34.84*22.04in
Package Size(W*D*H)	570*940*760mm 22.44*37.00*29.92in
Container load (20"/40"/40"H)	48/96/144
Net/Gross Weight(Kgs)	42/52

PERFORMANCE

Temperature Range	2 ~ 8 °C
Cooling Performance	4°C
Climate Class	ST
Controller	Microprocessor
Display	LED

REFRIGERATION

Cooling Method	Forced air cooling
Defrost Mode	Auto
Refrigerant	HC, R600a
Insulation Thickness(mm)	100

CONSTRUCTION

External Material	Galvanized steel powder coating(white)
Inner Material	Galvanized steel powder coating (white)
Door Lock with Key	Yes
Door	1

FUNCTIONS

High/Low Temperature	Y
Remote Alarm	Y
Power Failure	Y
Low Battery	Y
Door Ajar	Y
Lockage	Y
Inner LED light	Y

ACCESSORIES

Foot	Y
Test Hole	Y
Shelves/Inner Doors	2/-
Foaming Door	optional

ELECTRICAL

Power Supply(V/HZ)	115/60
Power(W)	80



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A copy of the user manual is available on our website www.aegisfridge.com
and send us an email at support@aegisfridge.com

Dear Customer:

Congratulations on your purchase of this product. Like all of our products, this product has also been developed on the basis of the latest technology and produced using reliable and modern electrical components. Please take a few minutes before starting operation of the appliance and read the following operating instructions. Save this manual for further reference.

Many thanks.



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1. Installation

1.1 Safety Information

- All electrical work must be executed by suitably qualified persons. When using any electrical appliance, safety precautions must always be observed.
- Do not use this appliance for other than its intended use. This product is intended for use as a beverage Medical Refrigerator. Consult your supplier for alternatives.
- Do not cover the front grille or block the rear air entry by placing object up against the cabinet.
- Please close attention, when used by or near children, infirm persons.
- Ensure adequate ventilation.
- Do not probe any openings.
- Do not touch any moving parts or hot surfaces.
- Regulations require that all electrical work be carried out by authorized persons. For your own safety and that of others please ensure this is done.
- Do not overload the power supply. Always ensure on the rating label. The rating label is located.
- If have any problem, please consult a qualified electrician. Caution: Never use extension leads or multiple adaptors.
- If the mains supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified and skilled persons in order to avoid hazard.
- Disconnect the mains power supply before attempting any cleaning, removal of any covers, or maintenance work.
- Do not store explosive substances, such as aerosol cans with flammable propellant.
- Warning: Do not use mechanical devices or other means to accelerate the defrosting process. Defrosting is performed automatically.
- Warning: Do not damage the refrigeration circuit.
- Warning: Do not use electrical appliances inside the storage compartment of this appliance.



CAUTION!

All internal adjustments and maintenance must be performed by qualified service personnel. This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.

Children shall not play with the appliance.

Cleaning and user maintenance shall not be made by children without supervision.



Environmental Protection

Discarded electric appliances are recyclable and should not be discarded in the domestic waste! Please actively support us in conserving resources and protecting the environment by returning this appliance to the collection centers(if available).



Important operating and/or maintenance instructions. Read the accompanying text carefully.



Potential electrical hazards. Only qualified persons should perform procedures associated with this symbol.



Hot surface(s) present which may cause burns to unprotected skin or to materials which may be damaged by elevate temperatures.

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Extreme temperature hazards, hot or cold.
Use special handling equipment or wear special, protective clothing.

Always use the proper protective equipment (clothing, gloves, etc.)

Always use dissipate extreme cold or heat and wear protective clothing.

Always follow good hygiene practices.

Each individual is responsible for his or her own safety.

1.2 Assembly

- Remove the appliance from the packaging and peel off any protective film from all surfaces.
- Fit the shelf support clips onto the shelf support strips, making sure that the clips for each shelf are of the same height and that they are securely engaged on the support strip.
- Unwrapping each shelf carefully, to prevent damaging their protective coating or surface finish.
- Position the shelves onto the clips.



Please dispose of all waste packaging appropriately and in accordance with all local recycling laws.



WARNING! Do not overload the power supply. Always ensure that the power supply is adequate for the electrical requirements specified on the rating label and never use extension leads or multiple adaptors.

1.3 Positioning the Medical Refrigerator

- Please position the cabinet carefully being careful not to bump it.
- The power supply flex exits the Medical Refrigerator at the bottom right hand side (as viewed from the front). For ease of access; the flex should be retrieved prior to positioning the Medical Refrigerator in its final location.
- The maximum recommended ambient temperature for this Medical Refrigerator is 38°C
- Avoid positioning the appliance in direct sunlight or damp areas.
- Allow adequate space for the door(s) to fully open.
- Ensure that this Medical Refrigerator is positioned on a level surface, so as to allow the door(s) to shut and seal correctly, as well as to allow proper drainage from the evaporator tray, to prevent any overflow. If necessary, adjust the screw feet of the appliance to make it level



Note: If the unit has not been stored or moved in an upright position, let it stand upright for approximately 12 hours before operation.

1.4 Ventilation

- All models must have clear and unobstructed ventilation from the entire surface area of the front grille.
- The 2 and 3 door models may be built into an enclosure without the need for ventilation other than at the front.
- The single door of Medical Refrigerators must have a minimum ventilation space of 20mm at sides and rear.
- **WARNING:** Failure to provide the minimum ventilation space will harm the performance of your Medical Refrigerator could cause fire and will invalidate the warranty.
- **WARNING:** Keep clear of obstruction all ventilation openings in the appliance enclosure or in the structure for building in

EL-RG-4M

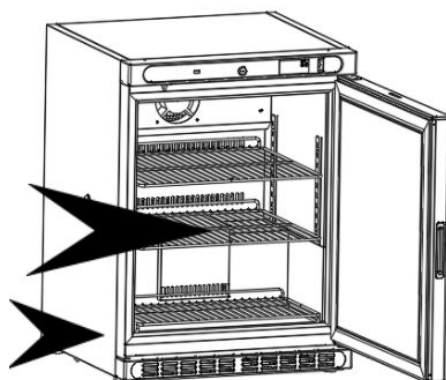
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1.5 Power Supply

- The Medical Refrigerator uses a three-pin plug which must be well grounded. Never ground the Medical Refrigerator through a gas pipe, tap water pipe OR the grounded wire of single-phase power supply etc. Never share same circuit with other appliances. Before plugging in your Medical Refrigerator for the first time make sure the power cable is free from damage and check that your voltage corresponds to that on the serial plate.
- Once plugged in the display will show the temperature inside the Medical Refrigerator and the compressor will run late on (the indicator light of cooling will be on at the same time). This temperature is the actual temperature recorded by the probes inside the Medical Refrigerator and as the fridge cools to the set point (factory set at 4°C/39°F) so the number on the display will descend accordingly. If power is cut off, wait for at least 5 minutes before plugging the unit in again to avoid damaging the compressor.

2. Product description

- Front panel display
- Remote alarm connector
- Light switch
- Door switch
- Door
- LED light
- Shelves
- Fan
- Adjustable leg
- Cable port



3.Operation

This product is designed to operate at a recommended ambient temperature not more than 38°C.

3.1 Access to power

- Close the door of the appliance.

3.2 Setting Temperature

- Press down to decrease the set temperature.
- Press up to increase the set temperature.

3.3 Turn on/off the light

The light will turn on while the door is opened and will turn off while the closed.

If you want to turn on the light while you do not open the door, you can turn on the switch.

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4. Cleaning

- **WARNING:** You must disconnect the plug before cleaning or maintenance.
- Do not use abrasive cleaning agents which may scratch and harm the delicate interior finishes of your appliance.
- Always wipe dry after cleaning.
- An agent or qualified technician must carry out repair if required.
- When cleaning the storage box, please use a soft cloth or sponge dipped in warm water (neutral detergent can be added) to clean the storage box.
- It is strictly forbidden to spray and wash with water to avoid affecting the electrical insulation performance.
- It is strictly prohibited to use hard brush, wire brush, detergent, gasoline, banana water, acetone and other organic solvents, hot water or acid, alkali, etc. to clean the storage box.

4.1 Out of service

- If the storage box is out of service for a long time, the power supply should be cut off and cleaned according to the above method, and the door should be opened to dry.
- In general, it is not necessary to stop using the storage box for a long time in order to avoid affecting the service life.

5. Maintenance

If your appliance develops a fault, please check the following table before making a call to the helpline.

Fault	Possible Cause	Action
The appliance is not working	The unit is plugged in correctly	Check the unit is plugged in correctly
	Plug or lead is damaged	Call Our agent or qualified technician
	Power supply	Check power supply
	Internal wiring fault	Call Our agent or qualified technician
The appliance turns on, but the temperature is too high or too low	Filter or condenser blocked with dust	Clean filter or condenser
	Doors are not shut properly	Check doors are shut and seal are not damaged
	Appliance is located near a heat source or air flow to the condenser is being interrupted	Move the appliance to a more suitable location
	Ambient temperature is too high	Increase ventilation or move appliance to a Medical Refrigerator position
	Insufficient airflow to the fans	Remove any blockages to the fans
	Appliance is overloaded	Reduce the amount stored in the appliance
	Factory default parameters adjusted	Call Our agent or qualified technician
The LED lights not working	Led light short Leaded damage	Call Our agent or qualified technician
The appliance appear BT alarm	See description below	See description below
The appliance is unusually loud	The appliance is touching a neighboring object	Check installation position and change if necessary
	The appliance has not been installed in a level or stable position	Check installation position and change if necessary

Disposal

If in any doubt, please consult your Local Authority, contact us or contact the reseller from whom you purchased the appliance.

Temperature Controller

ECS-180neo

1.PRODUCT APPLICATION DESCRIPTION





ECS-180 neo temperature controller could be used in the middle and low temperature medicine cabinet, kitchen cabinet, supermarket split cabinet, air curtain cabinet, island counter, wine cabinet, etc.

The controller adopts building block design concept and users could select defrost, fan, light/external alarm according to their demand.

The function of evaporator sensor, condenser sensor, door switch and buzzer is optional.

Refrigeration relay output could reach to 30A/240VAC, which could directly drive single-phase 1.5Hp compressor.

2. INDICATOR LIGHT STATUS DESCRIPTION

Indicator light	Symbol	Status	Meaning
Setting	Set	ON	Parameter setting
		OFF	Status of temperature measuring and controlling
Refrigeration		ON	Refrigeration work
		Flash	Refrigeration stop
Defrost		ON	Refrigeration time delay
		OFF	Defrost work
Fan		ON	Defrost stop
		OFF	Fan work
Defrost dripping	drip	ON	Fan stop
		OFF	Start defrost dripping
Door switch		ON	Cabinet door open
		OFF	Cabinet door close

3. PARAMETER LIST

Menu	Functions	Setting range	Default	Unit
Common user menu				
St	Temperature set value	Upper limit ~ Lower Limit	4 °C	°C/°F
Po	Administrator menu Password	00 ~ 99 (password is 55 unmodified)	4 °C	°C/°F
Administrator's menu				
C1	Hysteresis value	0.5 °C ~ 9 °C / 1 °F ~ 20 °F	4 °C	°C/°F
C2	Compressor start Min. interval	0 ~ 60	5	min
C3	Compressor initial start Min. interval	0 ~ 90	5	min
C4	Cabinet sensor calibration	-10 °C ~ 10 °C / -20 °F ~ 20 °F	0.0 °C	°C/°F
C5	Temperature set lower limit	-50 °C ~ temperature set value -58 °F ~ temperature set value	-2 °C	°C/°F
C6	Temperature set upper limit	temperature set value ~ 85 °C -temperature set value ~ 185 °F	22 °C	°C/°F
C7	Max standby time after finishing compressor start Min. interval	00 ~ 99 0: Max.standby time calculation is forbidden	9	min
C8	Refrigeration Min. running time	00 ~ 99 0: Refrigeration Min. running time calculation is forbidden	0	min
d1	Evaporator sensor selection	0: Disabled / 1: Enabled	1	-
d1	Evaporator sensor calibration	-10 °C ~ 10 °C / -20 °F ~ 20 °F	0.0 °C	°C/°F




► Operation and display panel





Temperature Controller

ECS-180neo



4. KEYS DESCRIPTION



Keys	Function	Button action
Set	Enter the status of parameter setting	Pressing the keys for 3s
	Switch between menu and parameter	Press the response
	Adjust menu and parameters	Pressing the keys for 3s
	Open/close light (only valid for the model with light control)	Press the response
	Upload the data to copy card	Pressing the keys for 3s
	Adjust menu and parameters	Press the response
	Download the copy card	Pressing the keys for 3s
	View evaporator sensor temperature	Press the response
	Exit from parameter setting	Press the response

5. KEYS OPERATION

In the status of temperature measuring and controlling, press Set key for three seconds to enter user menu, it displays the code St, then press Set key again, display the value of St. It could be modified by pressing the key  or .

When it displays the code St, press the key  display the code Po, then press Set key, display 00, at this time, press  or  to input the password of administrator menu.

Press Set key again to confirm the password input, and the controller will automatically verify the correctness of password. When it passes, it could select parameter items St, Po, C1, C2.....U1 (that is, any parameter items both in the administrator menu and user manuals) by pressing the key  or . Or else, only the parameters items St and Po available, others could not be displayed.

When the parameter item is selected, press Set key to enter to the setting of the current item, press  or  to modify the value, and then press Set key to return to the menu.

Under the status of parameter setting, press  key or no key operation within 30s, it will exit from parameter setting and automatically save the current parameter value.

6. INTERNAL ALARM

Alarm code	Alarm reason
E1	Cabinet temperature sensor failure
E2	Evaporator sensor failure
E3	Condenser sensor failure
cH	Condenser high temperature alarm
rH	Cabinet high temperature alarm
rL	Cabinet low temperature alarm
Er	Copy card programming failure
EP	Inconsistent data between copy card and controller, programming failure

7. SAFETY RULES

Danger	Strictly distinguish the power wire, relay output, sensor down-lead and data line, and the relay could not be overloaded.
	Prohibit connecting the wire terminals without electricity cut-off.
Warning	Prohibit using this unit under the environment of over damp, high temp., strong electromagnetism interference or strong corrosion.
Notice	The power supply should conform to the voltage value indicated in the instruction, and make sure a steady power supply.
	To avoid the possible interference, the sensor down-lead/data line and power wire should be kept in a proper distance.
	When evaporator sensor is installed, the sensor should be well connected with the copper tube which is 5cm away from evaporator inlet.

Operation and display panel



Wiring diagram Refer to the actual product.

