



**Revision History**

<b>Rev.</b>	<b>ECO No.</b>	<b>Description of Change</b>	<b>Date</b>	<b>Approved By</b>
1	Task 5436	Origination	06-06-12	A. Tran

**PROPRIETARY INFORMATION of  
Marlow Industries, Inc. Subsidiary of II-VI Incorporated**



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## **1.0 FCC AND IC STATEMENTS**

### **1.1 Federal Communications Commission Radio Frequency Interference Statement Part 15B compliance statements for digital devices:**

1.1.1 **WARNING:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference and (2) this device must accept any interference received, including interference that may cause undesired operation. You are cautioned that changes or modifications are not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

### **1.2 FCC RF Radiation Exposure Statement**

1.2.1 This transmitter must not be co-location or operating in conjunction with any other antenna or transmitter. This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the device and the user or bystanders.

### **1.3 Industry Canada Radio Interference Statement:**

1.3.1 This Class B digital apparatus complies with Canada ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

1.3.2 Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device. Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

1.3.3 This equipment complies with radio frequency exposure limits set forth by Industry Canada for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the device and the user or bystanders. Cet équipement est conforme aux limites



d'exposition aux radiofréquences définies par Industrie Canada pour un environnement non contrôlé.  
Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre le dispositif et l'utilisateur ou des tiers.

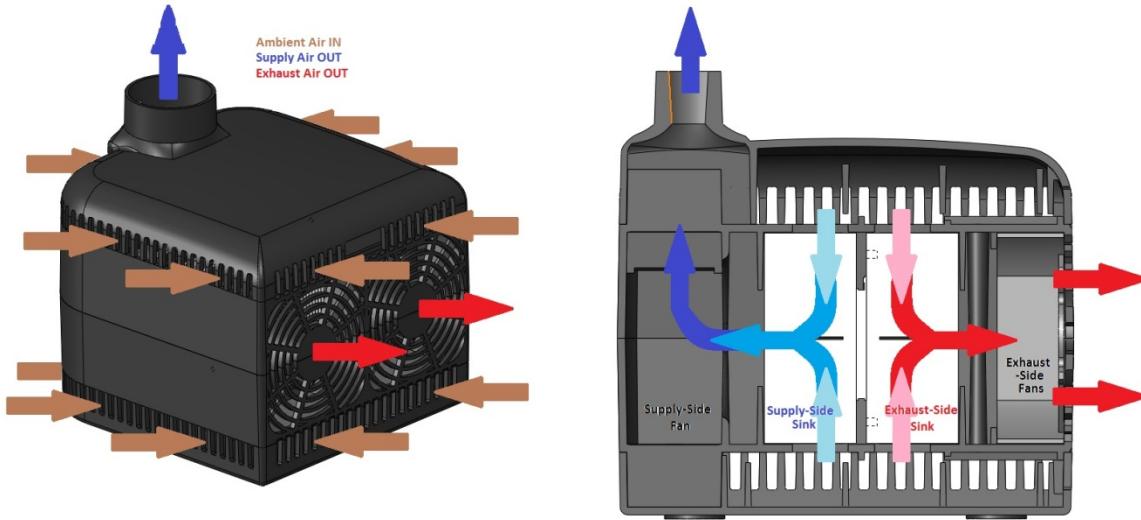
## 2.0 IMPORTANT INSTRUCTIONS

- 2.1 When using electrical appliances, basic precautions should always be followed to reduce the risk of fire, electric shock, and injury to persons, including the following:
  - 2.1.1 Read all instructions before using this heated/cooler bed system.
  - 2.1.2 "WARNING - Do not use this heated/cooled bed system with an infant, a disabled person, a person with diminished capacity or anyone insensitive to heat, such as a person with poor blood circulation."
  - 2.1.3 "WARNING - "Do not use this heated/cooled bed system with any other heated - blanket, comforter, quilt, sheet, mattress pad, mattress, foot warmer, throw blanket or similar heated or cooled bedding."
  - 2.1.4 Let cord hang free- Do not place between mattress and foundation. Do not allow the cords to be pinched".
  - 2.1.5 Turn off or unplug when not in use.
  - 2.1.6 Do not operate any heater/cooler with a damaged cord or plug or after the heater/cooler malfunctions, has been dropped or damaged in any manner. Discard heater/cooler, or return to authorized service facility for examination and/or repair.
  - 2.1.7 Do not use outdoors.
  - 2.1.8 Do not run cord under carpeting. Do not cover cord with throw rugs, runners, or similar coverings. Do not route cord under furniture or appliances. Arrange cord away from traffic area and where it will not be tripped over.
  - 2.1.9 To disconnect heater/cooler, turn controls to off, then remove plug from outlet.
  - 2.1.10 Connect to properly grounded outlets only. (This item may be omitted if the heater/cooler is not provided with a grounding type attachment plug.)
  - 2.1.11 Do not insert or allow foreign objects to enter any ventilation or exhaust opening as this may cause an electric shock or fire, or damage the heater/cooler.
  - 2.1.12 To prevent a possible fire, do not block air intakes or exhaust in any manner.
  - 2.1.13 Do not use on soft surfaces, like a bed, where openings may become blocked.
  - 2.1.14 A heater/cooler has hot and arcing or sparking parts inside. Do not use it in areas where gasoline, paint, or flammable liquids are used or stored.
  - 2.1.15 Use this heater/cooler only as described in this manual. Any other use not recommended by the manufacturer may cause fire, electric shock, or injury to persons.
  - 2.1.16 Always plug heaters/coolers directly into a wall outlet/receptacle. Never use with an extension cord or relocatable power tap (outlet/power strip).
  - 2.1.17 Use caution when handling the unit to ensure
  - 2.1.18 "SAVE THESE INSTRUCTIONS"



### 3.0 INTRODUCTION

3.1 Thank you for purchasing your bed heating and cooling system.



3.2 Air conditioning blower unit, size is 6.75 x 6.75 x 7.0 inches.



3.3 Unit power supplies can be plugged into the wall outlet (85V-235V; 50hz-60hz).

3.4 Optional mattress pad shown. In-bed solution also available and will have instructions per bedding manufacturer.

3.5 Mattress pad is visually similar to standard pad currently available. Differences are left and right side are physically divided in a dual zone configuration to allow for individual temperature control. Last picture shows material that is inserted inside each side of the pad. Picture showing control for 1/2 of pad.





- 3.6 Mattress pad overlay.
  - 3.6.1 Top quilted surface (3 layers)
  - 3.6.2 100% polyester fabric (top)
  - 3.6.3 100% polyester batting fill (middle)
  - 3.6.4 100% cotton (bottom)Top quilted surface (3 layers)
  - 3.6.5 Air distribution layer spacer fabric (100% polyester)
  - 3.6.6 Bottom layer against mattress (100% cotton)
  - 3.6.7 Side curtain/skirt (100% polyester)
- 3.7 Hose
  - 3.7.1 PVC/urethane blend reinforced with wire helix
  - 3.7.2 Thermoplastic elastomer reinforced with wire helix

#### **4.0 INSTALLATION INSTRUCTIONS**

- 4.1 Unpack the heating/cooling units.
  - 4.1.1 Unit BOM should Include
    - 4.1.1.1 (1-2) Base Units
    - 4.1.1.2 (1-2) Remote AC-DC Desktop Power Supplies with wall cords
  - 4.1.2 Topper BOM
    - 4.1.2.1 Mattress Topper with (2) Hoses
- 4.2 Place the mattress topper on the bed similar to any ordinary mattress topper.
- 4.3 Hoses can be placed at the head or foot of the bed depending on preferred location of the Heating/Cooling Units.
- 4.4 Units should be placed under the bed.
- 4.5 Connect hoses to the units.
- 4.6 Connect power supplies to wall plug.
- 4.7 Connect DC lines to Heating/Cooling Units.
- 4.8 Turn "on" the Bluetooth setting on your device.
- 4.9 Connect to the bedding units.
- 4.10 Install firmware on Bluetooth compatible mobile device.
- 4.11 Sync your device with the bedding system using Mac Addresses displayed on rear of the unit.
- 4.12 You can control three primary functions.
  - 4.12.1 Blower Speed – Low to High Infinitely Variable
  - 4.12.2 Temperature at unit – Low to High Infinitely Variable
  - 4.12.3 Timer – Length of time in the conditioning mode up to 10 hours
- 4.13 Set to moderate conditions and work your way to the more extreme temperature/blower conditions.
- 4.14 When unit is not in conditioning mode it is running the fans at a reduced level to dry and condensation that has occurred.
- 4.15 Enjoy!



## **5.0 MAINTENANCE INSTRUCTIONS**

- 5.1 The only maintenance required is periodic cleaning the filter system. Please follow the steps below to clean the air filters.
  - 5.1.1 Layout a towel beside the bed on the side where the unit will be maintained.
  - 5.1.2 Unplug the DC power supply from the unit.
  - 5.1.3 Unplug the power supply from the AC outlet.
  - 5.1.4 Carefully remove the hose from the unit with a firm pull on the nozzle.
  - 5.1.5 Pull the unit from under the bed.
  - 5.1.6 Carefully remove the lid from the unit with a firm pull on the top nozzle mate cylinder.
  - 5.1.7 Remove the base from the unit.
  - 5.1.8 Place the core appliance on the towel.
  - 5.1.9 Wash the lid and base in the sink with mild soapy water until clean.
  - 5.1.10 Dry the lid and base assemblies taking care with the filter.
  - 5.1.11 Do not submerge the core unit in water.
  - 5.1.12 Use a damp rag to clean the core unit.
  - 5.1.13 Reassemble the clean lid and base to the core unit.
  - 5.1.14 Place the unit under the bed and reattach the hose to the bed.
  - 5.1.15 Plug the power supply into the unit.
  - 5.1.16 Plug the unit back into the AC wall outlet.
- 5.2 Any other servicing should be done by a factory authorized representative.

## **6.0 TROUBLESHOOTING**

- 6.1 Contact Marlow Industries for assistance.