



*Installation, Operation, and
Maintenance Manual*

*Welker[®] Heat Blanket
Models
HBAWEL9 & HBAWEL15*

Manual No.: IOM-080

The information in this manual has been carefully checked for accuracy and is intended to be used as a guide for the installation, operation, and maintenance of the Welker[®] equipment described above. Correct operating and / or installation techniques, however, are the responsibility of the end user. Welker[®] reserves the right to make changes to this and all products in order to improve performance and reliability.

This manual is intended to be used as a basic installation and operation guide for the Welker[®] Heat Blanket, *HBAWEL9 & HBAWEL15*. For comprehensive instructions, please refer to the IOM Manuals for each individual component. A list of relevant component IOM Manuals is given in the Appendix section of this manual.

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Section 1: SPECIFICATIONS

1.1 INTRODUCTION

We appreciate your business and your choice of Welker[®] products. The installation, operation, and maintenance liability for this product becomes that of the purchaser at the time of receipt. Reading the applicable *Installation, Operation, and Maintenance (IOM) Manual* prior to installation and operation of this equipment is required for a full understanding of its application and performance prior to use.*

If you have any questions, please call 1-800-776-7267 (USA) or 1-281-491-2331.

Notes, Cautions, and Warnings



Notes emphasize information and / or provide additional information to assist the user.



Caution messages appear before procedures that, if not observed, could result in damage to equipment.



Warning messages appear before procedures that, if not observed, could result in personal injury.

*The following procedures have been written for use with standard Welker[®] parts and equipment. Assemblies that have been modified may have additional requirements and specifications that are not listed in this manual.

1.2 PRODUCT DESCRIPTION

The Welker[®] *Heat Blanket* is designed to maintain the set temperature and prevent temperature changes that would affect the integrity of the sample. The blanket prevents unwanted condensation from accumulating inside sampling equipment. Two thermal layers provide superior temperature protection and create a rugged, flexible construction. Loop and hook closures fasten the blanket to equipment, and Velcro[®] straps close the seams to minimize heat loss.

An optional adjustable thermostat can be included with the blanket to further regulate temperature. If a thermostat is not included, the blanket cable is self-regulating.

Welker[®] may custom design the Heat Blanket to suit the particular application and specifications of each customer.

1.3 SPECIFICATIONS



The specifications listed in this section are generalized for this equipment. Welker[®] can modify the equipment according to your company's needs. However, **please note that the specifications may vary depending on the customization of your product.**

Table 1: Heat Blanket Specifications	
Temperature Maintained	140°F @ 0°F (60°C @ -17°C)
Voltage	120VAC (Australia: 240VAC)
Area Classification	NEC Class I, Div. 2, Groups B, C, and D IEC Zone 2 UL-Listed Components
T-Rating	T3

Section 2:

INSTALLATION & OPERATION

2.1 BEFORE YOU BEGIN



After unpacking the unit, check the equipment for compliance and for any damage that may have occurred during shipment. **Claims for damage caused during shipment must be initiated by the receiver and directed to the shipping carrier.** Welker[®] is not responsible for any damage caused by mishandling by the shipping carrier.



When sealing fittings with PTFE tape, refer to the proper sealing instructions for the tape used.

2.2 INSTALLATION



Electrical terminations should only be installed by a qualified electrician.

1. Wrap the heat blanket around the equipment.
2. Secure the heat blanket to the equipment using the loop and hook closures.
3. Close the Velcro[®] seams.
4. If a thermostat is not included, connect the blanket cable directly to the power source.
5. If a thermostat is included, open a small section of the heat blanket seam, and then insert the thermostat sensor so that the thermostat sensor is between the heat blanket and the equipment. Secure the Velcro[®] seam around the thermostat sensor to minimize heat loss.
6. If a thermostat is included, make the terminations from the heat blanket cable to the terminal strip of the thermostat, and then make the terminations from the terminal strip of the thermostat to the power source.



Conduit seals are provided for the cable and power source connections when a thermostat is included.

7. Turn ON the power source. As necessary, adjust the thermostat to the desired temperature.
8. The blanket is now in operation.

Section 3:

MAINTENANCE

3.1 MAINTENANCE



The heat blanket does not require maintenance.

1. Prior to performing maintenance on the equipment wrapped in the heat blanket, turn OFF all electrical power.
2. Prior to performing maintenance on the equipment wrapped in the heat blanket, remove the heat blanket from the equipment.
3. The heat blanket should be wiped down with a clean, moist cloth when maintenance is performed on the equipment.
4. As necessary, contact Welker[®] for service options if the thermostat fails.

APPENDIX

ATTACHED DOCUMENTS:

Welker® *Installation, Operation, and Maintenance (IOM) Manuals* suggested for use with this unit:

- None

Other *Installation, Operation, and Maintenance (IOM) Manuals* suggested for use with this unit:

- None

Welker® drawings and schematics suggested for use with this unit:

- None



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