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> Goodman Downflow Kit User Manual for ARUF, ARPT, ASPT, ASUF & AVPTC Air Handlers (17.5" Chassis)

Goodman DFK Downflow Kit

Goodman Downflow Kit User Manual

Model: DFK Downflow Kit

Brand: Goodman

PRODUCT OVERVIEW

The Goodman DFK Downflow Kit is an essential accessory designed for use with specific Goodman air handlers in a downflow application. Its primary function is to prevent the formation of condensation on the bottom of the drain pan, which can occur in downflow configurations. This kit ensures the efficient and proper operation of your HVAC system by managing moisture effectively.

It is compatible with Goodman ARUF, ARPT, ASPT, ASUF, and AVPTC series air handlers with a 17.5-inch chassis.

COMPONENTS



An image showing the components of the Goodman Downflow Kit. This includes two large black foam pieces (one square-shaped with a

central cutout, one solid rectangular), a smaller rectangular metal plate, and a few small screws. These components are designed to be applied to the bottom of the air handler's drain pan.

The Goodman DFK Downflow Kit typically includes the following components:

- **Foam Insulation Pieces:** These are self-adhesive foam pads designed to insulate the drain pan. There are typically two main pieces: one large, square-shaped piece with a central opening, and another solid rectangular piece.
- **Metal Plate:** A small, rectangular metal plate, often with pre-drilled holes or tangs for attachment.
- **Fasteners:** A set of screws or other fasteners for securing the metal plate.

SETUP AND INSTALLATION

Installation of the DFK Downflow Kit should be performed by a qualified HVAC technician. Always refer to the specific installation instructions provided with your air handler and the downflow kit for detailed steps and safety precautions.

1. **Safety First:** Ensure the air handler unit is completely powered off and disconnected from all electrical sources before beginning installation.
2. **Access the Drain Pan:** Depending on the air handler model, you may need to remove access panels to reach the bottom of the drain pan.
3. **Clean Surface:** Thoroughly clean and dry the surface of the drain pan where the foam insulation will be applied. Ensure it is free of dust, grease, and moisture for optimal adhesion.
4. **Apply Foam Insulation:** Carefully peel the backing from the self-adhesive foam pieces. Apply the larger, square-shaped foam piece to the bottom of the drain pan, aligning it according to the air handler's design. Then, apply the smaller rectangular foam piece as indicated in the specific kit instructions. Ensure a tight seal and full coverage to prevent condensation.
5. **Install Metal Plate:** Position the metal plate as specified in the instructions, typically near the coil or a specific area of the drain pan. Secure it using the provided fasteners. This plate often helps to direct airflow or provide additional support.
6. **Verify Installation:** Double-check that all components are securely in place and that the foam insulation adheres properly without gaps.
7. **Restore Access:** Reinstall any removed access panels.
8. **Power On:** Once installation is complete and verified, restore power to the air handler.

Note: Improper installation can lead to system inefficiencies or water damage. If you are unsure about any step, consult a professional.

OPERATING PRINCIPLE

The Goodman DFK Downflow Kit is a passive component designed to enhance the performance of your air handler in a downflow configuration. It does not have active operational controls. Its function is to provide an insulating barrier and, in some cases, airflow redirection at the bottom of the drain pan. By insulating the pan, it prevents the cold surface of the pan from coming into contact with warmer ambient air, thereby inhibiting the formation of condensation on the exterior of the pan. This helps maintain the integrity of the HVAC system and prevents potential water damage to surrounding structures.

MAINTENANCE

The DFK Downflow Kit requires minimal maintenance. However, periodic inspection is recommended as part of your regular HVAC system checks:

- **Visual Inspection:** During routine air handler maintenance, visually inspect the foam insulation and metal plate for any signs of wear, damage, or detachment.
- **Adhesion Check:** Ensure the foam pieces are still securely adhered to the drain pan. If any part is peeling, it may compromise the kit's effectiveness.
- **Cleanliness:** Keep the area around the drain pan clean and free of debris that could interfere with the kit's function.

If any components are damaged or detached, contact a qualified technician for repair or replacement.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Condensation forming on the exterior of the drain pan	Improper installation of foam insulation (gaps, poor adhesion) Damaged or deteriorated foam insulation Incorrect kit for the air handler model High humidity levels in the installation area	Inspect foam for proper adhesion and coverage. Re-apply or replace if necessary. Check for damage to the foam. Replace the kit if components are compromised. Verify that the DFK kit is the correct model for your specific Goodman air handler (ARUF, ARPT, ASPT, ASUF, AVPTC 17.5" Chassis). Ensure proper ventilation in the installation area. Consult a qualified HVAC technician.
Kit components are loose or detached	Poor surface preparation during installation Adhesive failure due to age or environmental factors Vibrations from the air handler	Re-clean and re-apply foam insulation if possible, ensuring a dry, clean surface. If adhesive has failed, the kit may need to be replaced. Ensure the air handler is properly balanced and mounted to minimize vibrations. Contact a professional for assistance.

For persistent issues or problems not listed here, it is recommended to contact a certified HVAC technician.

SPECIFICATIONS

- **Product Name:** Goodman DFK Downflow Kit
- **Manufacturer:** Goodman
- **Item Weight:** Approximately 1.5 pounds
- **Compatibility:** Designed for Goodman ARUF, ARPT, ASPT, ASUF, and AVPTC series air handlers with a 17.5-inch chassis.
- **Purpose:** Prevents condensation on the bottom of the drain pan in downflow air handler applications.
- **Application:** Multi-position air handlers in a downflow configuration.

WARRANTY AND SUPPORT

Warranty Information: Specific warranty terms for the Goodman DFK Downflow Kit are typically provided by the manufacturer or the authorized distributor at the time of purchase. Please refer to your purchase documentation or contact Goodman directly for detailed warranty coverage and registration information.

Customer Support: For technical assistance, installation queries, or troubleshooting beyond the scope of this manual, please contact Goodman customer support or an authorized Goodman HVAC dealer. You can usually find contact

information on the official Goodman website or through your product documentation.

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Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question