

Kair DUCEK0082

Kair Ducting Reducer 100mm to 80mm Instruction Manual

Model: DUCEK0082

1. INTRODUCTION

This instruction manual provides essential information for the proper installation, operation, and maintenance of your Kair Ducting Reducer (Model DUCEK0082). This reducer is designed to facilitate the connection between ducting systems of different diameters, specifically from 100mm to 80mm. Please read this manual thoroughly before installation to ensure safe and effective use.

2. PRODUCT OVERVIEW

The Kair Ducting Reducer is a component used to adapt ducting systems from a larger diameter to a smaller one. It is constructed from durable plastic, suitable for various ventilation applications.



Image 1: Kair Ducting Reducer 100mm to 80mm. This image shows the white plastic reducer with a wider opening on one side and a narrower opening on the other, designed to connect different sized ventilation ducts.

Key Features:

- Adapts 100mm (4 inch) ducting to 80mm ducting.
- One side features a 100mm male spigot, designed to fit inside 100mm straight ducting (e.g., Kair DUCVVC250).
- The other side features an 80mm male spigot, designed to fit into 80mm female fittings or flexible ducting.
- Compatible with both rigid plastic and flexible ducting systems.
- Suitable for various applications including tumble dryer vents, bathroom/kitchen extractor fans, hydroponics, in-line fans, and cooker hoods.

3. SAFETY INFORMATION

- Always ensure the power supply to any connected fans or ventilation units is disconnected before installation or maintenance.
- Wear appropriate personal protective equipment (PPE) such as gloves and eye protection during installation.
- Ensure all connections are secure and properly sealed to prevent air leakage and maintain system

efficiency.

- Do not expose the reducer to temperatures outside its specified range of -15°C to +60°C.
- If you are unsure about any aspect of the installation, consult a qualified professional.

4. SETUP AND INSTALLATION

The Kair Ducting Reducer is designed for straightforward installation. Follow these steps to ensure a secure and efficient connection:

1. **Prepare Ducting:** Ensure both the 100mm and 80mm ducting sections are clean, free of debris, and cut squarely.
2. **Connect 100mm Side:** Insert the 100mm male spigot of the reducer into the female end of your 100mm rigid ducting. If using Kair 100mm straight ducting (e.g., DUCVKC250), the reducer will fit directly inside without an additional connector.
3. **Connect 80mm Side:** Insert the 80mm male spigot of the reducer into the female end of your 80mm rigid ducting or flexible ducting.
4. **Secure Connections:**
 - For **rigid plastic ducting systems**, seal all joints with appropriate mastic or ducting tape to prevent air leaks.
 - For **flexible ducting systems**, secure the connection points with metal hose clips to ensure a tight seal.
5. **Verify Installation:** After installation, visually inspect all connections to ensure they are secure and properly sealed.



USAGE EXAMPLE

Image 2: Usage Example of Kair Ducting Reducer. This image illustrates how the reducer connects to both rigid and flexible ducting, secured with a metal hose clip on the flexible side.

5. OPERATING INSTRUCTIONS

The Kair Ducting Reducer is a passive component and does not require active operation. Once correctly installed, its function is to maintain the integrity of the airflow path between different sized ducts. Ensure that the overall ventilation system, including any connected fans, operates according to its own instructions.

6. MAINTENANCE

Regular inspection and minimal maintenance will ensure the longevity and efficiency of your ducting system:

- **Periodic Inspection:** Periodically check the reducer and surrounding ductwork for any signs of damage, cracks, or loose connections.
- **Cleanliness:** Ensure that the interior of the ducting system, including the reducer, remains free from excessive dust, lint, or other obstructions that could impede airflow. If cleaning is required, disconnect

power to any fans and use a soft brush or vacuum.

- **Seal Integrity:** Re-check seals (mastic, tape, or hose clips) to ensure they remain airtight. Reapply or tighten as necessary.

7. TROUBLESHOOTING

If you experience issues with your ventilation system after installing the reducer, consider the following:

- **Reduced Airflow:**
 - Check for blockages within the ducting system, including the reducer.
 - Ensure all connections are airtight. Air leaks can significantly reduce system efficiency.
 - Verify that the fan or extractor unit is operating correctly.
- **Loose Connections:**
 - Inspect all joints for looseness. Tighten hose clips or reapply sealing materials as needed.
- **Unusual Noise:**
 - Ensure the reducer is securely fitted and not vibrating against other components.
 - Check for any foreign objects within the ductwork.

8. SPECIFICATIONS

Attribute	Detail
Model Number	DUCEK0082
Brand	Kair
Size	100mm to 80mm
Material	Plastic
Color	White
Item Weight	40 g
Package Dimensions	11.1 x 10.6 x 6.8 cm
Temperature Range	-15°C to +60°C

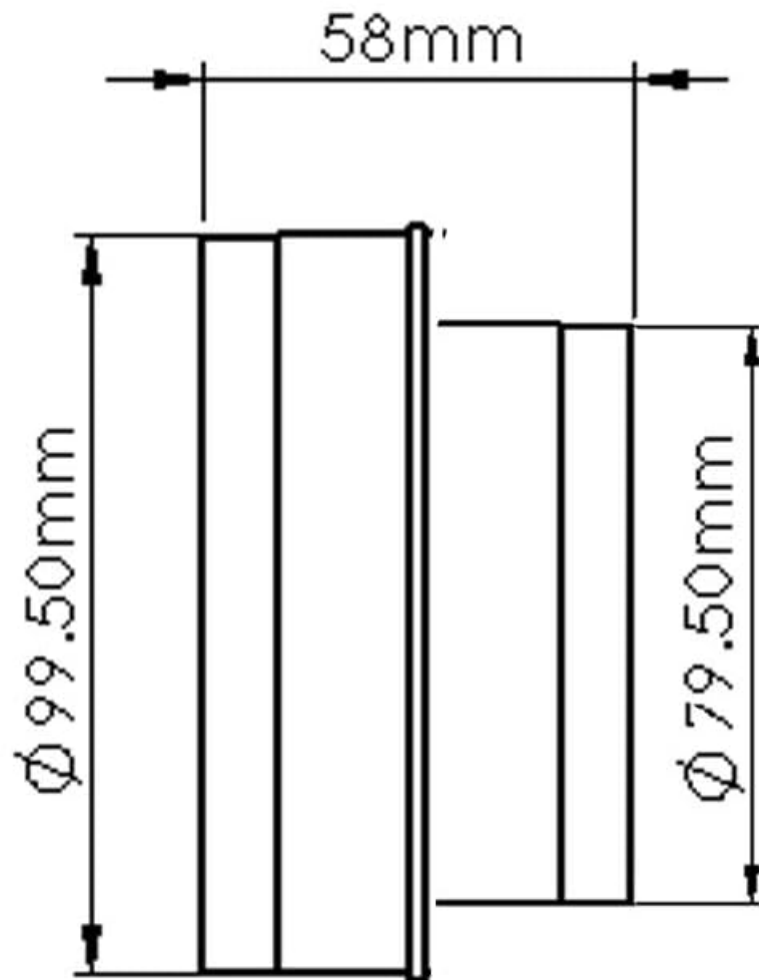


Image 3: Dimensional Drawing of Kair Ducting Reducer. This diagram provides precise measurements of the reducer, including its overall length and the diameters of both the 100mm and 80mm spigots.

9. WARRANTY AND SUPPORT

For warranty information or technical support regarding your Kair Ducting Reducer, please refer to the retailer where the product was purchased or visit the official Kair website. Keep your proof of purchase for any warranty claims.