

## Installation Manual for Duct Adaptor (for 1-Way Cassette Type and Ceiling Suspended Type)

This duct adaptor can be installed when connecting the flexible duct ( $\phi 3\text{-}15/16\text{inch}$  ( $\phi 100\text{mm}$ )) to the indoor unit.

Model	PD-100
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**NOTE:**

The applicable indoor units may be different depending on the product series.  
Refer to the product catalog for applicable indoor unit models.

**IMPORTANT NOTICE:**

- Johnson Controls pursues a policy of continuous improvement in design and performance of products. We reserve the right to vary specifications without notice.
- No part of this manual may be reproduced without Johnson Controls' written permission.
- Keep this manual for future reference.
- Johnson Controls cannot anticipate every possible circumstance that might involve a potential hazard.
- This kit is designed for a combination of Johnson Control air conditioners. Do not use this kit by itself or in combination with other companies' air conditioners.
- Perform a test run after installation to check for abnormalities.
- Signal words are used to identify levels of hazard seriousness. Definitions for identifying hazard levels are provided below with their respective signal words.

**▲ DANGER**

: Indicates a hazardous situation that, if not avoided, will result in death or serious injury.

**▲ WARNING**

: Indicates a hazardous situation that, if not avoided, could result in death or serious injury.

**▲ CAUTION**

: Indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.

**NOTICE**

: Indicates information considered important, but not hazard-related (e.g. messages relating to property damage).





**NOTE**

: Indicates an useful information for operation and/or maintenance.

- It is assumed that this duct adaptor will be installed and serviced by English speaking people. If this is not the case, the customer should add safety, caution and operating signs in the native language.
- If you have any questions, contact your distributor or contractor.
- This manual gives a common description and information for this duct adaptor, as well as for other models, which you may operate.
- This manual should be considered as a permanent part of the air conditioning equipment and should remain with the air conditioning equipment. Forward this information to the building owner and request that they maintain all the equipment manuals.
- As for this duct adaptor, a maximum quantity of fresh air intake by itself is approximately 18cfm (0.5m<sup>3</sup>/min) (for  $\phi 3.3\text{ft}$  ( $\phi 1\text{m}$ ) duct). When the requirement is to take in fresh air, be sure to install Energy Recovery Ventilation (ERV) which is field-supplied. In this instance, do not utilize the duct fan.
- When utilizing ERV (field-supplied), an abnormal noise level may be increased.
- When installing ERV, be sure to confirm a maximum quantity of fresh air intake by referring to the dimensional drawing of the duct adaptor and adjust airflow volume with a damper.
- As for installation work for the duct adaptor, refer to the "Installation Manual" for the indoor unit.
- When taking outside air into the indoor unit, install the field-supplied air filter on the duct side as the indoor unit has no air filter to pass through.

## 1. Factory-Supplied Accessories

Unit: inch (mm)

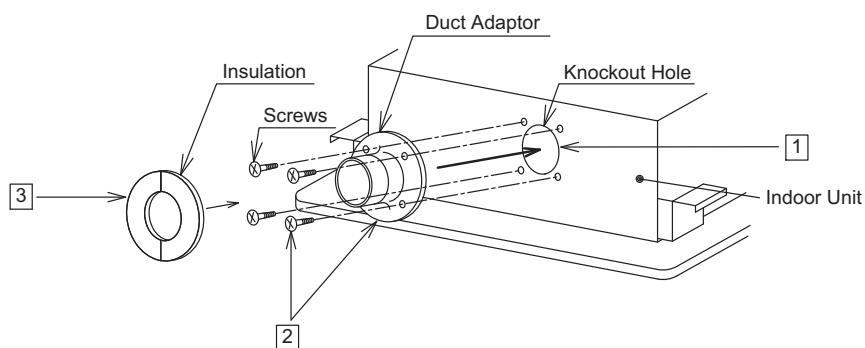
Accessory		Qty.	Purpose	
Duct Adaptor		1	-	
Insulation		1	For Prevention of Condensation	
Screws	 (M4 x 13/32L (10L))	4	For 1-Way Cassette and Ceiling Suspended.	For Fixing
	 (M4 x 15/32L (12L))	4	-	

## 2. Installing Duct Adaptor ( Example for 1-Way Cassette Type )

(1) Attach the duct adaptor to the indoor unit according to the following procedures.

< Procedures >

- 1 Remove the knockout hole of the unit. After doing so, be sure to scour off any rough parts using sandpaper.
- 2 Fix the adaptor using four screws.
- 3 Attach the insulation.
- 4 Install the field-supplied flexible duct  $\phi 3-15/16$  ( $\phi 100$ )



### NOTE:

Tightening torque of the band for the flexible duct (field-supplied) is 1.1 ft·lbs (1.5 N·m).  
If fixed excessively, plastic parts may be broken.