





## Sanyo Cool/Dry Installation Instructions Manual

Sanyo inverter split system air conditioner installation instructions



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05-424 KS0971-1271  
12/13/05

## - Inverter Split System Air Conditioner -

### **IMPORTANT!**

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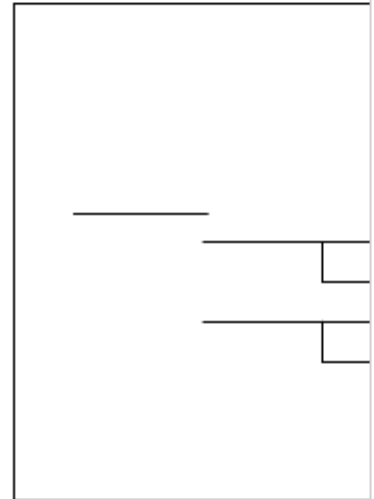
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This air conditioner uses the new refrigerant R410A.

**Contents**

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**SANYO FISHER COMPANY**  
 A DIVISION OF SANYO NORTH AMERICA CORPORATION  
 21605 Plummer Street  
 Chatsworth, CA 91311 U.S.A.

**Model Combinations**

Combine indoor and outdoor units only as listed below.

**Indoor Unit**

- KS0971
- KS1271
- Power Source:  
60 Hz, single-phase, 115 V

**Be sure to read the yellow instruction sheet attached to the outdoor unit for models using the new refrigerant R410A.**

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The illustrations are based on the typical appearance of a standard model. Consequently, the shape may differ from that of the air conditioner that you are installing.

In Canada

**SANYO Canada Inc.**  
300 Applewood Crescent, Concord  
Ontario, L4K 5C7, Canada

**COOL / DRY Model**

**Outdoor Unit**

C0971

CL0971

C1271

CL1271

W



**SANYO**

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## Related Manuals for Sanyo Cool/Dry

### [Air Conditioner Sanyo XS1872 Technical & Service Manual](#)

Dc inverter split system air conditioner (131 pages)

### [Air Conditioner Sanyo C1271 Technical & Service Manual](#)

Dc inverter split system air conditioner (108 pages)

### [Air Conditioner Sanyo KS0971 Technical & Service Manual](#)

Dc inverter split system air conditioner (81 pages)

### [Air Conditioner Sanyo KS1271 Instruction Manual](#)

Inverter-controlled split system air conditioner (50 pages)

### [Air Conditioner Sanyo 000 BTU/H 16-20 SEER Brochure & Specs](#)

Wall mounted air conditioners & heat pumps (2 pages)

### [Air Conditioner Sanyo 09KLS71 Submittal Data](#)

Split system indoor/outdoor wall mounted low ambient air conditioner (2 pages)

### [Air Conditioner Sanyo 09KS71 Submittal Data](#)

Split system indoor/outdoor wall mounted air conditioner (2 pages)

### [Air Conditioner Sanyo 12KLS71 Submittal Data](#)

Split system indoor/outdoor wall mounted low ambient air conditioner (2 pages)

### [Air Conditioner Sanyo 12XLS71 Submittal Data](#)

Split system indoor/outdoor ceiling recessed low ambient air conditioner (2 pages)

### [Air Conditioner Sanyo 12XS71 Submittal Data](#)

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### [Air Conditioner Sanyo 18KHS72 Specifications](#)

Wall mounted air conditioners & heat pumps 9,000-24,000 btu/h 16-20 seer (2 pages)

### [Air Conditioner Sanyo 12KS71 Dimensional Data](#)

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### [Air Conditioner Sanyo COOL/HEAT Installation Instructions Manual](#)

Split system air conditioner (20 pages)

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Inverter multi split system air conditioner (27 pages)

### [Air Conditioner Sanyo COOL Installation Instructions Manual](#)

Split system air conditioner (32 pages)

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## Summary of Contents for Sanyo Cool/Dry

### [Page 1: Table Of Contents](#)

The illustrations are based on the typical appearance of a standard model. Consequently, the shape may differ from that of the air conditioner that you are installing. SANYO FISHER COMPANY A DIVISION OF SANYO NORTH AMERICA CORPORATION 21605 Plummer Street Chatsworth, CA 91311 U.S.A. COOL / DRY Model...

### [Page 2: Important](#)

Be careful when picking up and moving the indoor and out- door units. Get a partner to help,

and bend your knees when lifting to reduce strain on your back. Sharp edges or thin aluminum fins on the air conditioner can cut your fingers. Page 2 When Installing.....

### [Page 3: General](#)

05-424 KS0971-1271 12/13/05 1:27 PM 1. General This booklet briefly outlines where and how to install the air conditioning system. Please read over the entire set of instructions for the indoor and outdoor units and make sure all accessory parts listed are with the system before beginning.

### [Page 4: Additional Materials Required For Installation](#)

WARNING tion and the possibility of fire, do not place obstacles, enclosures and grilles in front of or surrounding the air conditioner in a way that may block air flow. AVOID: direct sunlight. nearby heat sources that may affect performance of the unit.

### [Page 5: Outdoor Unit](#)

(Fig. 5d) This unit is designed so that the fan of the outdoor unit runs at low speed when the air conditioner is operated at low outdoor air temperatures. When the outdoor unit is exposed to strong wind, the system pressure drops because of the freeze protector.

### [Page 6: How To Install The Indoor Unit](#)

05-424 KS0971-1271 12/13/05 1:27 PM 3. How to Install the Indoor Unit 3-1. Remove the Rear Panel from the Unit (1) Remove and discard the set screw on the rear panel. (Fig. 6) (2) Press the 2 marks on the frame cover and disengage the stationary tabs from the frame.

### [Page 7: Install The Rear Panel On The Wall](#)

05-424 KS0971-1271 12/13/05 1:27 PM (4) Using a sabre saw, key hole saw or hole-cutting drill attachment, cut a hole in the wall. See Table 4 and Fig. 10. Table 4 Hole Dia. 2-9/16" (65 mm) (5) Measure the thickness of the wall from the inside edge to the outside edge and cut PVC pipe at a slight angle 1/4"...

### [Page 8: Remove The Grille To Install The Indoor Unit](#)

05-424 KS0971-1271 12/13/05 1:27 PM 3-4. Remove the Grille to Install the Indoor Unit Basically, these models can be installed and wired without removing the grille. If access to any internal part is needed, follow the steps as given below. Be sure to wear work gloves CAUTION during installation to avoid being...

### [Page 9: Shape The Indoor Side Tubing](#)

05-424 KS0971-1271 12/13/05 1:27 PM 3-5. Shape the Indoor Side Tubing (1) Arrangement of tubing by direction a) Right or left tubing Cut out the corner of the right/left frame with a hacksaw or the like. (Figs. 20 and 21) b) Right-rear or left-rear tubing In this case, the corner of the frame need not be cut.

### [Page 10: Recommended Wire Length And Diameter](#)

No wire should be allowed to touch refrigerant tubing, the compressor, or any moving part. WARNING To avoid the risk of electric shock, each air conditioner unit must be grounded. For the installation of a grounding device, please observe local electrical codes.

### [Page 11: Wiring Instructions For Inter-Unit Connections](#)

05-424 KS0971-1271 12/13/05 1:28 PM 3-8. Wiring Instructions for Inter-unit Connections (1) Insert the inter-unit wiring (according to local codes) into the through-the-wall PVC pipe. Run the wiring toward the indoor side allowing approx. 10" (25 cm) to extend from the wall face. (Fig. 24) (2) Grasp both ends of the air intake grille, and remove it by opening towards the front and pulling towards you.

[Page 12](#) 05-424 KS0971-1271 12/13/05 1:28 PM Loose wiring may cause the WARNING terminal to overheat or result in unit malfunction. A fire hazard may also exist. Therefore, be sure all wiring is tightly connected. When connecting each power wire to the corresponding terminal, follow the instructions "How to connect wiring to the terminal"...

## [Page 13: Mounting](#)

05-424 KS0971-1271 12/13/05 1:28 PM 3-9. Mounting (1) To install the indoor unit, mount the indoor unit onto the 2 tabs on the upper part of the rear plate. (2) Hold down the air discharge outlet and press the lower part of the indoor unit until it clicks to securely fasten to the 2 tabs on the lower part of the rear plate.

## [Page 14: Drain Hose](#)

05-424 KS0971-1271 12/13/05 1:28 PM Left-side tubing (1) Lead the tubing and drain hose through the wall, allowing sufficient length for connection. Then bend the tubing using a tube bender to make the attachment. (Fig. 38) (2) Switch the drain hose and drain cap. Switching drain hose and drain cap (a) Locate the drain hose and the drain cap.

[Page 15](#) 05-424 KS0971-1271 12/13/05 1:28 PM To unmount indoor unit Press the 2 marks on the lower part of the indoor unit and unlatch the tabs. Then lift the indoor unit and unmount. (Fig. 42) 3-10. Drain Hose a) The drain hose should be slanted downward to the outdoors.

## [Page 16: How To Install The Outdoor Unit](#)

05-424 KS0971-1271 12/13/05 1:28 PM 4. How to Install the Outdoor Unit First refer to Section 2. Installation Site Selection. 4-1. Wiring Instructions for the Outdoor Unit Regulations on wire size differ from locality to locality. For field wiring requirements, please refer to your local electrical codes.

## [Page 17: Refrigerant Tubing](#)

05-424 KS0971-1271 12/13/05 1:28 PM 5. Refrigerant Tubing 5-1. Use of the Flaring Method Many of the conventional split system air conditioners employ the flaring method to connect refrigerant tubes which run between indoor and outdoor units. In this method, the copper tubes are flared at each end and connected with flare nuts.

## [Page 18: Connecting Tubing Between Indoor And Outdoor Units](#)

05-424 KS0971-1271 12/13/05 1:28 PM 5-4. Connecting Tubing between Indoor and Outdoor Units a) Tightly connect the indoor side refrigerant tubing extended from the wall with the outdoor side tubing. (Fig. 52) b) To fasten the flare nuts, apply specified torque as: Table 6 Tube Dia.

## [Page 19: Air Purging](#)

05-424 KS0971-1271 12/13/05 1:28 PM 6. Air Purging Air and moisture remaining in the refrigerant system have undesirable effects as indicated below. Therefore, they must be purged completely. pressure in the system rises operating current rises cooling (or heating) efficiency drops moisture in the air may freeze and block capillary tubing water may lead to corrosion of parts in the refrigerant system...

[Page 20](#) (14) If there is no leakage, stop the air conditioner. (15) Wipe off the soap on the tubing. This completes air purging with a vacuum pump and the air conditioner is ready for actual operation.

[Page 21](#) 1:28 PM How to Test Run the Air Conditioner After turning on power to the air conditioner, use the remote controller and follow the steps below to conduct the test run. (1) Set the remote controller in Test Run mode.

## [Page 22: Basic Functions Of The Service Valves](#)

The basic functions of the service valves are given in Table 8 below. Table 8 Narrow Tube Service Action CLOSED Shipping Fully OPEN Operating and test running the air conditioner Fully OPEN Measuring pressure and gas charging CLOSED Air purging with a vacuum pump CAUTION When opening or closing...

## [Page 23: Remote Control Unit Installation Position](#)

In direct sunlight Behind a curtain or other place where it is covered More than 26' (8 m) away from the air conditioner In the path of the air conditioner's airstream Where it may become extremely hot or cold...



## [Page 24: Address Switch](#)

8-1. Address Setting of the Remote Control Unit The address can be set in order to prevent interference between remote controllers when two Sanyo indoor units are installed near each other. The address is normally set to "A." To set a different address, it is necessary to change the address on the second remote controller.

This manual is also suitable for:

[09kls7112kls7112ks71C0971CI0971,c1271](#) ... [Show all](#)