Daitsu DS-12 UDIN

Daitsu DS-12 UDIN Wall-Split Inverter Air Conditioner User Manual

1. INTRODUCTION

This manual provides comprehensive instructions for the safe and efficient operation, installation, and maintenance of your **Daitsu DS-12 UDIN Wall-Split Inverter Air Conditioner**. Please read this manual thoroughly before using the appliance and keep it for future reference. This unit is designed to provide both cooling and heating functions for optimal indoor climate control.

2. SAFETY INFORMATION

Always adhere to the following safety precautions to prevent injury or damage to the unit:

- Installation must be performed by a qualified professional in accordance with local electrical and safety regulations.
- Do not attempt to repair or modify the unit yourself. Contact authorized service personnel for all repairs.
- Ensure the power supply matches the specifications listed on the unit's nameplate.
- Do not insert fingers or objects into the air inlet/outlet.
- Keep flammable materials away from the unit.
- Regularly clean the air filter to maintain efficiency and air quality.
- If abnormal operation, strange sounds, or smoke occurs, immediately turn off the unit and disconnect the power supply.

3. PRODUCT OVERVIEW

The Daitsu DS-12 UDIN is a wall-mounted split-system air conditioner consisting of an indoor unit and an outdoor unit. It features inverter technology for energy-efficient climate control.

Image: The Daitsu DS-12 UDIN indoor unit, showcasing its sleek white design and 'inverter' and 'daitsu' branding.

Image: Front view of the Daitsu DS-12 UDIN indoor unit with its digital display showing '25' degrees Celsius, indicating current temperature or setting.

Image: Angled view of the Daitsu DS-12 UDIN indoor unit, highlighting its modern design and the digital temperature display.

Unit Dimensions:

- **Indoor Unit:** Height 275 mm x Width 790 mm x Depth 200 mm
- **Outdoor Unit:** Height 596 mm x Width 842 mm x Depth 320 mm

4. SETUP AND INSTALLATION

Installation of the Daitsu DS-12 UDIN split-system air conditioner requires specialized knowledge and tools. It is strongly recommended that installation be carried out by a certified HVAC professional to ensure proper functioning, safety, and compliance with warranty conditions.

Key Installation Considerations:

- **Location:** Choose a location for both indoor and outdoor units that allows for optimal airflow, minimal obstruction, and easy access for maintenance.
- **Mounting:** Securely mount the indoor unit on a wall and the outdoor unit on a stable surface or wall bracket.
- **Refrigerant Piping:** Connect the indoor and outdoor units with appropriate refrigerant piping, ensuring proper insulation and leak-free connections.
- **Drainage:** Install a drainage pipe for condensate water from the indoor unit.
- **Electrical Connection:** Connect the unit to a dedicated power supply circuit as per electrical codes. Ensure proper grounding.
- **Vacuuming and Refrigerant Charge:** The system must be thoroughly vacuumed to remove air and moisture before charging with the correct amount of refrigerant (R32).

5. OPERATING INSTRUCTIONS

Your Daitsu DS-12 UDIN air conditioner offers various modes and functions for customized comfort. Control is typically managed via a remote control (not detailed in this manual).

Image: Visual representation of the operating temperature range and various function icons including Turbo, Swing, Dry, Timer, Light, Sleep, 4 Speeds, X-FAN, Test, Start, Intelligent Defrosting, and Lock.

Main Operating Modes:

- **Cooling Mode:** Reduces room temperature to the desired setting.
- **Heating Mode:** Increases room temperature to the desired setting.
- **Dry Mode:** Dehumidifies the air, reducing humidity levels.
- **Fan Mode:** Circulates air without cooling or heating.

Special Functions:

Image: Detailed descriptions of various operating functions: Turbo, Active Carbon Filter, Swing, Dry, Timer, Light, Sleep, Four Air Speeds, X-FAN, Test, Start, Intelligent Defrosting, Reset, and Lock.

- **Turbo Function:** Rapidly increases cooling or heating capacity to reach the desired temperature quickly.
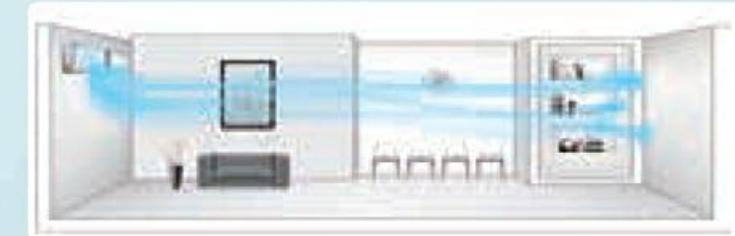
Image: Diagram illustrating the 'TURBO' function, which rapidly increases cooling capacity to reach the desired temperature quickly.

- **Swing Function:** Automatically moves the air outlet louvers vertically to distribute air evenly.
- **Dry Function:** Reduces humidity in the room.
- **Timer:** Allows programming of operation for up to 24 hours.
- **Light Function:** Turns off all indicator lights on the indoor unit display.
- **Sleep Function:** Adjusts room temperature for optimal comfort and energy saving during sleep.
- **Four Air Speeds:** High for rapid dehumidification, Medium for normal operation, Low for silent operation, and Auto option to select appropriate speed.
- **X-FAN Function:** Ensures the internal unit's heat exchanger is dried to prevent mold formation.

Image: Diagram showing the 'X-FAN' function, which eliminates residual humidity to prevent mold formation on the heat exchanger, keeping the unit clean and healthy.

- **Test Function:** Checks the appliance's operation and displays error codes on the indoor unit panel.
- **Start Function:** The indoor unit fan only activates when the heat exchanger reaches the ideal temperature.
- **Intelligent Defrosting:** An intelligent defrosting system that activates only when necessary, significantly increasing energy savings and comfort.
- **Lock Function:** Locks the remote control settings to prevent accidental changes.

6. MAINTENANCE

Regular maintenance ensures the longevity and efficient operation of your air conditioner. Always disconnect power before performing any maintenance.

Air Filter Cleaning:

- Open the front panel of the indoor unit.
- Remove the air filters.
- Clean the filters with a vacuum cleaner or wash them with lukewarm water (below 40°C).

- Allow filters to dry completely in a shaded area before reinstalling.
- Clean filters every two weeks or more frequently depending on usage and air quality.

Unit Surface Cleaning:

- Wipe the indoor and outdoor unit surfaces with a soft, damp cloth.
- Do not use harsh detergents, abrasive cleaners, or solvents, as these can damage the plastic parts.

Seasonal Maintenance:

- At the beginning of each season (cooling/heating), check for any obstructions around the outdoor unit.
- Ensure the drainage hose is clear and not blocked.
- Consider professional inspection and cleaning annually.

7. TROUBLESHOOTING

Before contacting service, please check the following common issues:

- **Unit does not start:** Check if the power plug is securely inserted, the circuit breaker is tripped, or the remote control batteries are dead.
- **Insufficient cooling/heating:** Ensure air filters are clean, windows and doors are closed, and there are no obstructions to airflow. Check if the temperature setting is appropriate.
- **Unusual noises:** A slight gurgling sound is normal due to refrigerant flow. Loud or persistent noises may indicate an issue.
- **Water leakage from indoor unit:** Check if the drainage hose is blocked or kinked.

If the problem persists after checking these points, or if an error code is displayed (use the Test function), please contact a qualified service technician. Do not attempt to repair the unit yourself.

8. SPECIFICATIONS

Technical data for the Daitsu DS-12 UDIN Wall-Split Inverter Air Conditioner.

SCHEDA TECNICA

MODELLO			ASD12UI DN
CODICE			3NDA8325
POTENZA	raffrescamento	kW	3,2 (0,6-3,6)
	riscaldamento	KW	3,4 (0,6-3,8)
SEER/SCOP			6,1/4,0
ETICHETTA ENERGETICA			A++/A+
PDESIGN	raffrescamento/riscaldamento	kW	3,2/3,2
PRESSIONE SONORA UNITÀ INTERNA	A/M/B	dBA	42/37/35
PRESSIONE SONORA UNITÀ ESTERNA		dBA	52
PORTATA VENTILATORE UNITÀ INTERNA	max./min.	m³/h	560/410
PORTATA VENTILATORE UNITÀ ESTERNA		m³/h	2200
ALIMENTAZIONE		V/n°/Hz	230/1/50
POTENZA ASSORBITA	raffrescamento/riscaldamento	kW	0,99/0,94
CONSUMO ENERGETICO ANNUO	raffrescamento/riscaldamento	kWh/a	184/1120
DIAMETRO TUBAZIONI	liquido/gas	mm	6,35/9,52
REFRIGERANTE		tipo/GWP	R410A/2087,5
PRECARICA/MAX. LUNGHEZZA TUBAZIONI		m	5/15
CAMPO DI FUNZIONAMENTO	raffrescamento	°C	-15~43
	riscaldamento	°C	-15~24

Image: Technical data sheet for the Daitsu DS-12 UDIN, detailing power, efficiency, sound levels, and refrigerant type.

Feature	Specification
Brand	Daitsu
Model Name	DS-12 UDIN (ASD12UI DN)
Part Number	3NDA8325
Type	Wall-Split Inverter Air Conditioner
Cooling Capacity	3.2 kW (Min 0.6 - Max 3.6 kW) / 12000 BTU / 1 Ton
Heating Capacity	3.4 kW (Min 0.6 - Max 3.8 kW)
SEER (Seasonal Energy Efficiency Ratio)	6.1
SCOP (Seasonal Coefficient of Performance)	4.0
Energy Label (Cooling/Heating)	A+++ / A+
PDesign (Cooling/Heating)	3.2 kW / 3.2 kW
Indoor Unit Sound Pressure (A/M/B)	42 / 37 / 35 dBA
Outdoor Unit Sound Pressure	52 dBA
Indoor Unit Airflow (Max/Min)	560 / 410 m³/h
Outdoor Unit Airflow	2200 m³/h
Power Supply	230V / 1 Phase / 50 Hz
Absorbed Power (Cooling/Heating)	0.99 kW / 0.94 kW
Annual Energy Consumption (Cooling/Heating)	184 kWh/a / 1120 kWh/a

| Feature	Specification
Pipe Diameter (Liquid/Gas)	6.35 mm / 9.52 mm
Refrigerant Type	R32 (GWP approx. 675) *(Note: Technical sheet image indicates R410A, please verify with product label)*
Pre-charge / Max. Pipe Length	5 m / 15 m
Operating Range (Cooling)	-15°C to 43°C
Operating Range (Heating)	-15°C to 24°C
Indoor Unit Dimensions (H x W x D)	275 x 790 x 200 mm
Outdoor Unit Dimensions (H x W x D)	596 x 842 x 320 mm
Color	White
Installation Method	Split-system

9. WARRANTY AND SUPPORT
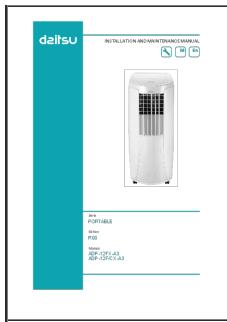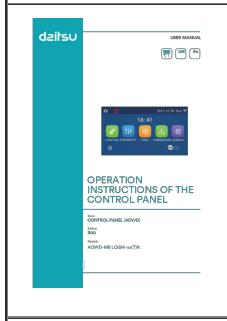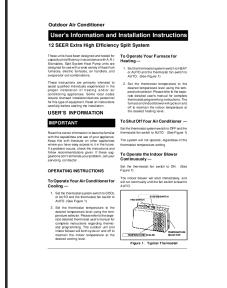
For warranty information, please refer to the warranty card included with your product or contact your local Daitsu dealer. Keep your purchase receipt as proof of purchase.

For technical support, service requests, or spare parts, please contact the authorized Daitsu service center in your region. Do not attempt to service the unit yourself.

Related Documents - DS-12 UDIN

[Daitsu Service Manual for DS-18KIDB, DS-21KIDB, DOS-18KIDB, DOS-21KIDB Air Conditioners](#)
Comprehensive service manual for Daitsu air conditioning units, including models DS-18KIDB, DS-21KIDB, DOS-18KIDB, and DOS-21KIDB. Covers technical specifications, installation, maintenance, troubleshooting, and parts lists.

[Daitsu ACCD_WC Series Wired Controller User Manual](#)
Comprehensive user manual for Daitsu ACCD_WC series wired controllers (models ACCD_WC5, ACCD_WC6), covering installation, operation, features, and error codes for Daitsu air conditioning systems.

[Daitsu ADP-12FX-A3 / ADP-12F/CX-A3 Installation and Maintenance Manual](#)

Comprehensive installation and maintenance manual for the Daitsu Portable Air Conditioner, models ADP-12FX-A3 and ADP-12F/CX-A3. Covers operation, safety warnings, parts identification, and troubleshooting.

[Daitsu ACCD_WC1 Wired Controller Installation and User Manual](#)

Comprehensive installation and user manual for the Daitsu ACCD_WC1 wired controller, detailing features, operation, and installation procedures for HVAC systems. Includes guidance on display, buttons, modes, and installation.

[Daitsu Control Panel Operation Instructions](#)

This manual provides detailed operation instructions for the Daitsu Control Panel, including general information, operation settings, intelligent control features, and troubleshooting.

[12 SEER Extra High Efficiency Split System Air Conditioner: User's Information and Installation Instructions](#)

Comprehensive user information and installation instructions for the 12 SEER Extra High Efficiency Split System Air Conditioner. Covers operation, maintenance, site preparation, unit installation, electrical connections, and startup procedures.