

INSTRUCTIONS FOR USING HEAT-PUMP DRYERS

Model: DX-300S; DX-600S;
DX-300M;DX-600M; DX-300D;
DX-600D; DX-1200D



This product is manufactured and distributed by DeAir Joint Stock Company

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Thank you for choosing our products! This user manual is essential for the installation, operation, and maintenance of the equipment. Please follow all the instructions in this document to maximize the drying efficiency, and overcome possible situations to improve the service life of the equipment.

PRODUCT REGISTRATION

Record the dryer's serial number in the space provided below for future maintenance.

Serie Number:-----

IMPORTANT: Please keep a copy of your bill of sale and warranty card for DeAir warranty service.

WARRANTY

The warranty period is 24 months from the date of purchase of the product.

The warranty is limited to the free replacement of accessories of any defective parts, or manufacturing defects that occur within the warranty period.

All warranty claims must specify the model/serie number. These details are printed on the unit identification plate.

Read all in the instructions before using this dryer. To reduce the risk of fire, electrical failure to humans when using the dryer, follow basic precautions.

In the event of any defect or damage to the product, contact DeAir immediately via

Hotline: 0914 242 708 - 0911 989 708

1. Safety Instructions

1.1. Overview

Daxwell **dryers** are designed with a range of products ranging from 25°C to 80°C with the goal of maximizing efficiency, and saving energy. DeAir manufactures a wide range of products for different applications. Please contact your nearest office or authorized unit if you have any questions about **Daxwell dryers**.

1.2. About this document

This document has been prepared to provide information about **Daxwell dryers**, including equipment information, capacity and machine selection information.

2. Application

With modern, energy-saving heat pump drying technology, **Daxwell dryers** have a wide range of applications for agricultural products, fruits, seafood, and candies,...

- Dryer with multi-process with easy installation.
- Can be used for a variety of products.
- Ensure food hygiene and safety.
- Appropriate investment costs, saving operating costs, and protecting the environment.

3. Model meaning

Model Designation:

Daxwell . *DX-xxxS*

. *DX-xxxM*

. *DX-xxxD*

3 common models according to drying temperature:

› Drying Temperature: 25-80°C (*S Series*)

› Drying Temperature: 50-80°C (*M Series*)

Drying Temperature: 40-60°C (*D Series*)

4. Machine selection guide

Basic steps to be able to choose a dryer.

- **Step 1:** Determine the allowable drying temperature range. There are products that go through a multi-step drying process, the temperature changes from step to step.
- **Step 2:** Determine the amount of goods to be dried.
- **Step 3:** Determine the right drying space.
- **Step 4:** Choose the right dryer for the amount of goods and drying space.

NOTE!

- In addition to heat and humidity, the drying process is two extremely important factors.
- In order to achieve high efficiency and save operating costs, in addition to choosing the right dryer, it is necessary to design a good air convection system and discharge moisture at the right time.
- Please contact a reputable design unit for appropriate design advice.

5. Specifications

Model		DX-300S	DX-600S	DX-300M	DX-600M
Thermal Capacity	Btu/h	56,980	113,961	56,980	113,961
Power Capacity	kW	5.1	9.95	5.1	9.95
Operating Temperature	°C	25-80	25-80	50-80	50-80
Drying Range	m ³	40-60	80-120	40-60	80-120
Operating Current	A	9.6	18.9	9.6	18.9
Optional additional resistance		Yes	Yes	Yes	Yes
Additional resistance capacity	kW	9.0	15.0	9.0	15.0
Total Power Capacity After Adding Resistor	kW	14.1	24.95	14.1	24.95
Operating current after resistor replenishment stock	A	23.3	41.7	23.3	41.7
Wires after the addition of resistors	mm ²	4x10.0	4x16.0	4x6.0	4x16.0

Power Supply	V/Ph/ Hz	220/1/50 - 380/3/50			
Gas Type		R410A			
Flow	CMH	3,000/6,000	6,000/9,000	3,000/6,000	6,000/9,000
Noise level	dBA	72			
Dimensions(W x D x H)	mm ²	800x1,050x1,600	1,250x1,050x1,600	800x1,050x1,600	1,250x1,050x1,600
Volume	kg	210	270	180	240
Sewage Pipes	mm	21			
Power Cord	mm ²	4x2.5	4x4.0	4x2.5	4x4.0

Model		DX-300D	DX-600D	DX-1200D
Thermal Capacity	Btu/h	56,980	113,961	227,922
Power Capacity	kW	4.75	9.75	19.2
Operating Temperature	°C	40-60	40-60	40-60
Drying Range	m ³	40-60	80-120	160-240
Operating Current	A	9.0	18.5	36.5
Optional additional resistance		Yes	Yes	Yes
Additional resistance capacity	kW	4.5	7.5	15.0
Total Power Capacity After Adding Resistor	kW	9.25	17.25	34.2
Operating current after resistor replenishment stock	A	15.8	29.9	59.3
Wires after the addition of resistors	mm ²	4x4.0	4x10.0	4x25.0
Power Supply	V/Ph/H z	220/1/50 - 380/3/50		
Gas Type		R410A		
Flow	CMH	3,000	6,000	12,000
Noise level	dBA	72		
Dimensions(W x D x H)	mm ²	780x480x1,650	1,250x600x1,800	1,750x800x1,800
Volume	kg	160	220	500
Sewage Pipes	mm	21		
Power Cord	mm ²	4x2.5	4x6.0	4x16.0

6. User Manual

Before starting to operate the machine, it is necessary to check the following issues:

- The machine is installed in strict accordance with the instructions from the supplier.
- The machine is installed on a flat surface, the machine is firmly fixed.

- The power supply to the machine is stable and has enough power.
- The installation area of the machine is not directly exposed to rain and sun.

6.1. Control Screen

The control screen displays the following information:

- Room Temperature:** 0.0 °C
- Setpoint Temperature:** 0.0 °C
- Room Humidity:** 0.0 %
- Control Modes:**
 - TỰ ĐỘNG (Auto)
 - NHIỆT ĐỘ (Temperature)
 - NHIỆT VÀ ẨM (Temperature and Humidity)
 - LIÊN TỤC (Continuous)
 - THỜI GIAN (Time)
 - TẮT (Off)
- Machine Running Modes:**
 - AUTO
 - MAN
- System Diagram:** Shows a schematic of the air conditioning system with a fan, compressor, and evaporator/condenser coils.
- Control Buttons:** FAN (OFF), COMP (OFF), FAN (OFF), HEATER (OFF).
- Navigation Buttons:** Cài Đặt (Settings), Thông Số (Info), Báo Lỗi (Error), Hướng Dẫn (Help).

Home screen: Used to monitor the operation of the machine. Used to opt in to other settings and monitoring pages.

The settings screen displays the following table:

STT	THỜI GIAN (Giờ)	NHIỆT ĐỘ CÀI ĐẶT (°C)	CHẾ ĐỘ XẢ ẨM	NHIỆT ĐỘ XẢ ẨM (°C)	ĐỘ ẨM XẢ ẨM (%)	ĐỘ XẢ ẨM TỰ ĐỘNG	TIÊU CHUẨN XẢ ẨM (PPM)	TIÊU CHUẨN XẢ ẨM (PPM)	CHẾ ĐỘ HOẠT ĐỘNG	CHẾ ĐỘ ĐIỆN TRỞ
1	1	50.0	1	30.0	30.0	20.0	0	0	1	0
2	2	50.0	2	30.0	30.0	20.0	0	0	1	0
3	3	50.0	3	30.0	30.0	20.0	0	0	1	0
4	4	50.0	6	30.0	30.0	20.0	0	0	1	0
5	5	50.0	4	30.0	30.0	20.0	0	0	1	0

CHẾ ĐỘ XẢ ẨM:

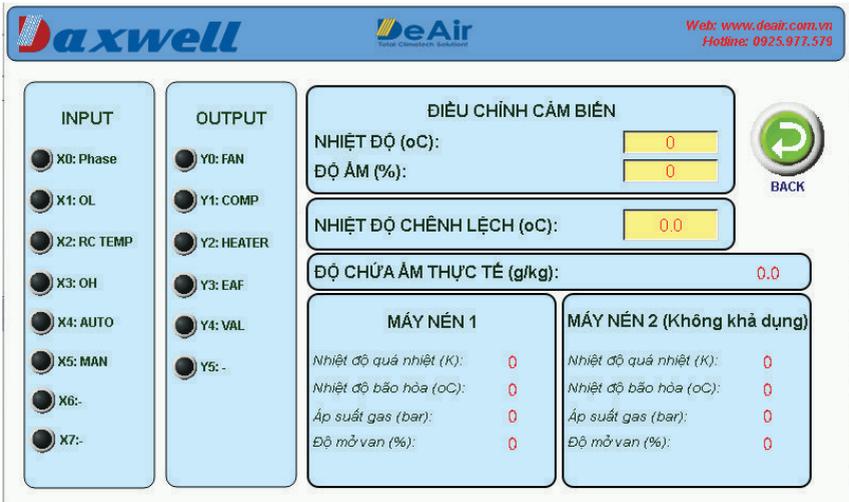
- Tự động: Xả theo điểm xả tự động.
- Nhiệt độ và độ ẩm: Xả theo nhiệt độ và độ ẩm cài đặt.
- Nhiệt độ: Xả theo nhiệt độ cài đặt.
- Liên tục: Xả ẩm liên tục.
- Tắt: Tắt quạt xả ẩm.
- Thời gian: Xả theo thời gian cài đặt.

CHẾ ĐỘ HOẠT ĐỘNG:

0: TẮT 1: BẬT 1: LẠM MÁT 2: SẤY NHIỆT THẤP (20°C-35°C) 3: SẤY NONG (40°C-80°C)

ENTER

Settings Screen: The screen sets the desired values and operating modes.



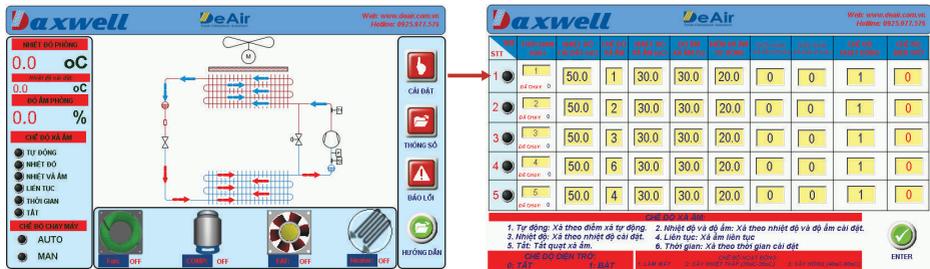
Advanced Parameter Display: PLC registers and memory cells can be monitored and some advanced parameters can be set.



Fault Warning Screen: Errors during operation will be displayed in the fault reporting panel.

6.2. Operating Steps

Step 1: Select "INSTALL" to set the operating parameters.



Installation Description Table

STT	Installation Location	Description
1	Time (hours)	Set the machine runtime for each step.
2	Setting Temperature (°C)	Set the running temperature of the machine.
3	Humidity Drain Mode	Dehumidification mode setting: <ol style="list-style-type: none"> 1. Automatic dehumidification mode. 2. Humidity discharge mode according to the set temperature 3. Humidity discharge mode according to temperature and humidity 4. Continuous moisture discharge mode 5. Turn off the dehumidification mode 6. Release moisture from time to time.
4	Humidity Discharge Temperature (°C)	Set the temperature for dehumidification purposes.
5	Moisture Discharge Humidity (%)	Humidity setting for dehumidification purposes.
6	Automatic dehumidification point	Set the automatic discharge value. Installation between 30 and 40 is recommended.
7	Resistance Mode	Set the resistor's mode of operation. Auto Resistor Run/Resistor Off.

Step 2: Press "ENTER" to return to the main page.

Step 3: Flip the switch to "AUTO" to start running the machine.

- The fan starts running. After 2 minutes compressor 1 starts running, after 2 minutes compressor 2 runs.
- When the temperature reaches, compressors 1 and 2 will shut off sequentially for 3 minutes.
- The resistor will run 10 minutes after the compressor 2 runs if the resistance mode runs automatically.
- The exhaust fan will run according to the mode and set value.

NOTE! If the displayed temperature and humidity are different from reality, go to the "PARAMETERS" page to adjust.

6.3. Error reporting and handling

Error	Disposal	Image
Phase Error	Phase Checks and Changes	
Compressor overload faults (1, 2)	Shut down the machine, reset the compressor's thermal tail and run the machine again. If the current situation occurs many times, it is necessary to report the technique for handling.	
Compressor low pressure faults (1, 2)	Turn off the machine, do not let the machine run because it can be used for a long time or due to an incident that causes gas in the machine to leak, it is necessary to report the technique to handle it.	
Overheating error	As additional combustion resistance overheat fault, prolonged fault, shut down the machine and call the technician for guidance.	

<p>SANHUA Controller Error</p>	<p>When the machine stops suddenly or does not run, it is detected that the SANHUA kit screen does not light up, the sensor on the controller needs to be checked again.</p>	
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6.4. Periodic maintenance and maintenance of the machine

STT	Contents	Date	Month	Quarter	Year
1	Cleaning equipment surfaces	x	x	x	x
2	Filter Cleaning		x	x	x
3	Cleaning the stall			x	x
4	Checking the Electrical Contacts			x	x
5	Resistance Test			x	x
6	Compressor Inspection			x	x
7	SANHUA Controller Sensor Test		x	x	x
8	Overall cleaning of the machine				x

**FOR ANY QUESTIONS, PLEASE CONTACT
OUR CUSTOMER SERVICE CENTER**



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