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› Speedaire 5VC89 Desiccant Air Dryer Instruction Manual

## Speedaire 5VC89

# Speedaire 5VC89 Desiccant Air Dryer Instruction Manual

Model: 5VC89

## 1. INTRODUCTION

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This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Speedaire 5VC89 Desiccant Air Dryer. Please read this manual thoroughly before using the product and retain it for future reference. Proper understanding and adherence to these instructions will ensure optimal performance and longevity of the unit.

## 2. IMPORTANT SAFETY INFORMATION

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Always observe basic safety precautions to reduce the risk of injury or damage. This device operates with compressed air, which can be hazardous if not handled correctly.

- Ensure the air supply is disconnected before performing any maintenance or service.
- Do not exceed the maximum incoming pressure of 175 psi.
- Operate the dryer within the specified temperature range (Max. Operating Temp. 125°F).
- Wear appropriate personal protective equipment (PPE) when working with compressed air systems.
- Install the unit in a well-ventilated area.

## 3. PRODUCT OVERVIEW

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The Speedaire 5VC89 is a desiccant air dryer designed to remove moisture from compressed air, achieving an ISO Class 3 dew point of -4°F. This unit is suitable for branch line applications requiring dry air to protect pneumatic tools and equipment from corrosion and damage caused by moisture.



Image 1: The Speedaire 5VC89 Desiccant Air Dryer. This image shows the compact, cylindrical design of the air dryer, featuring a dark gray body, a blue top cap with brass fittings, and a clear sight glass near the bottom for desiccant monitoring.

## 4. SETUP

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Follow these steps for proper installation of your desiccant air dryer:

1. **Unpacking:** Carefully remove the dryer from its packaging. Inspect for any shipping damage.
2. **Mounting:** Mount the dryer vertically in a secure location, ensuring it is easily accessible for maintenance.
3. **Connection:** Connect the compressed air inlet to the designated port and the outlet to your pneumatic system. The unit features a 1/4 inch NPT connection size. Ensure all connections are tight and leak-free.
4. **Air Flow Direction:** Verify that the air flow direction matches the arrows indicated on the dryer body.
5. **Initial Check:** Before applying full pressure, slowly introduce air to check for any leaks.

## 5. OPERATION

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Once installed, the Speedaire 5VC89 Desiccant Air Dryer operates automatically to remove moisture from your compressed air supply.

- **Air Flow:** The dryer is designed for a maximum flow rate of 5 cfm. Exceeding this rate may reduce drying efficiency.
- **Dew Point:** The unit maintains a dew point of -4°F, providing ISO Class 3 air quality.
- **Pressure:** Ensure the incoming air pressure does not exceed 175 psi.
- **Temperature:** The maximum operating temperature is 125°F. Operating above this temperature can affect performance and desiccant life.

## 6. MAINTENANCE

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Regular maintenance is crucial for the continued performance of your desiccant air dryer.

- **Desiccant Replacement:** The dryer uses Silica Gel desiccant material. The desiccant will change color (typically from blue to pink) as it absorbs moisture, indicating saturation. Replace the desiccant when a significant portion has changed color. The bowl size is 1 Lb.
- **Bowl Inspection:** Periodically inspect the rugged metal bowl for any signs of damage or corrosion.
- **Drainage:** Ensure any condensate drain (if applicable to your setup) is functioning correctly.
- **Filter Element:** If your system includes a pre-filter, ensure its element is replaced according to its manufacturer's recommendations.

## 7. TROUBLESHOOTING

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Refer to the table below for common issues and their potential solutions.

Problem	Possible Cause	Solution
Moisture in air line after dryer	Saturated desiccant	Replace desiccant material.
Moisture in air line after dryer	Air flow exceeds dryer capacity	Reduce air flow or install a larger capacity dryer.
Moisture in air line after dryer	Improper installation (e.g., reverse flow)	Verify correct air flow direction as indicated on the unit.
Air leaks	Loose connections	Tighten all NPT connections. Use thread sealant if necessary.

## 8. SPECIFICATIONS

Detailed technical specifications for the Speedaire 5VC89 Desiccant Air Dryer:

Specification	Value
Model Number	5VC89
Total Capacity - Air Treatment	2,300 cu ft
Max. Flow - Air Treatment	5 cfm
Connection Size - Air Treatment	1/4 in NPT
Dew Point - Air Treatment	-4 Degrees F
Max. Incoming Pressure - Air Treatment	175 psi
ISO Class - Air Treatment	3
Max. SCFM @ 100 PSI	5
Max. Operating Temp.	125 Degrees F
Desiccant Material	Silica Gel
Bowl Material	Rugged Metal
Bowl Size	1 Lb.
Height	12 in
Width	4 1/8 in
Product Dimensions	23 x 8 x 5 inches; 8 Pounds
Application	Branch Lines
Manufacturer	SPEEDAIRE

## 9. WARRANTY INFORMATION

Specific warranty details for the Speedaire 5VC89 Desiccant Air Dryer are not provided in this manual.

Please refer to the product packaging, the official Speedaire website, or contact your authorized dealer for comprehensive warranty terms and conditions.

## **10. CUSTOMER SUPPORT**

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For technical assistance, replacement parts, or further inquiries regarding your Speedaire 5VC89 Desiccant Air Dryer, please contact Speedaire customer support or your local authorized distributor. Contact information can typically be found on the manufacturer's official website or product documentation.