

PHILIPS ICN2S54T35I

PHILIPS Advance Centium ICN-2S54T35I Fluorescent Ballast User Manual

Model: ICN-2S54T35I

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your PHILIPS Advance Centium ICN-2S54T35I Fluorescent Ballast. Please read this manual thoroughly before installation and retain it for future reference.

The Centium T5 electronic ballast is designed to operate either 2 or 4 F54T5 or F54T5HP/ES lamps. It delivers optimum performance across a voltage range of 120-277V. This ballast is engineered for use in environments with temperatures up to 90-degrees Celsius (194-degrees Fahrenheit).

2. SAFETY INFORMATION

WARNING: Risk of electric shock. Installation and servicing should be performed by qualified personnel only. Disconnect power before installing or servicing.

- Ensure the main power supply is disconnected before any installation, wiring, or maintenance procedures.
- Verify that the input voltage matches the ballast's specified voltage range (120-277V).
- Do not operate the ballast with damaged wiring or if the casing is compromised.
- Ensure proper grounding according to local electrical codes.
- Do not expose the ballast to moisture or extreme humidity.
- Maintain adequate ventilation around the ballast to prevent overheating.

3. PRODUCT OVERVIEW

The PHILIPS Advance Centium ICN-2S54T35I is a high-performance electronic ballast featuring a programmed start for extended lamp life. It is suitable for a variety of commercial and industrial lighting applications.



Image 1: Front view of the PHILIPS Advance Centium ICN-2S54T35I Fluorescent Ballast. This image shows the compact design and wire leads of the ballast, which is essential for connecting to the power supply and fluorescent lamps.

Key Features:

- **Lamp Compatibility:** Operates 2 or 4 F54T5/HO or F54T5HP/ES lamps.
- **Voltage:** 120-277V AC, 50/60 Hz.
- **Start Type:** Programmed Start for optimal lamp life.
- **Ballast Factor:** 1.02.
- **Operating Temperature:** Designed for environments up to 90°C (194°F).
- **Minimum Start Temperature:** -20°F.
- **Total Harmonic Distortion (THD):** Maximum 10%.
- **Power Factor:** 0.98.
- **Sound Rating:** Class A.
- **Lamp Operation:** Semi-independent or independent.

4. SETUP AND INSTALLATION

Installation of this fluorescent ballast requires knowledge of electrical systems. It is strongly recommended that installation be performed by a licensed electrician or qualified personnel.

Installation Steps:

1. **Disconnect Power:** Ensure all power to the fixture is turned off at the circuit breaker before beginning installation.
2. **Remove Old Ballast:** Carefully remove the existing ballast, noting the wiring connections.
3. **Mount New Ballast:** Securely mount the PHILIPS Advance Centium ICN-2S54T35I ballast within the fixture. The ballast dimensions are approximately 1.5 x 1.5 x 15 inches.
4. **Wire Connections:** Connect the ballast's wire leads to the fixture's power supply and lamp holders according to the wiring diagram provided with the ballast (not included in this manual, refer to product

packaging or manufacturer's website). Ensure all connections are secure and insulated.

5. **Install Lamps:** Insert the compatible F54T5/HO or F54T5HP/ES lamps into the lamp holders.
6. **Restore Power:** Once all connections are verified and lamps are installed, restore power to the fixture.

The ballast weighs approximately 0.01 ounces and is constructed primarily from copper components, ensuring durability and efficient operation.

5. OPERATING INSTRUCTIONS

The PHILIPS Advance Centium ICN-2S54T35I ballast operates automatically once properly installed and powered. It utilizes a programmed start method, which preheats the lamp cathodes before ignition. This gentle starting process minimizes stress on the lamp electrodes, significantly extending lamp life compared to instant start ballasts.

- Upon applying power, the ballast will initiate the programmed start sequence.
- Lamps will typically ignite within 1-2 seconds after power is supplied.
- The ballast maintains stable lamp operation, providing consistent light output.

6. MAINTENANCE

The PHILIPS Advance Centium ICN-2S54T35I ballast is designed for long-term, maintenance-free operation. However, periodic checks of the lighting fixture are recommended.

- **Power Disconnection:** Always disconnect power before performing any maintenance.
- **Cleaning:** Keep the ballast and fixture free from dust and debris to ensure proper heat dissipation. Use a dry, lint-free cloth for cleaning.
- **Wiring Inspection:** Periodically inspect wiring for any signs of wear, fraying, or loose connections.
- **Lamp Replacement:** Replace fluorescent lamps with compatible F54T5/HO or F54T5HP/ES types when they reach their end of life or show signs of flickering.

7. TROUBLESHOOTING

If your lighting fixture is not operating correctly, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
Lamps do not light	No power to fixture Incorrect wiring Faulty lamps Faulty ballast	Check circuit breaker and wall switch Verify wiring connections (refer to diagram) Replace lamps with known good ones Replace ballast if other solutions fail
Lamps flicker or dim	Loose lamp connections Lamps nearing end of life Incorrect lamp type Ballast overheating	Reseat lamps firmly Replace lamps Ensure F54T5/HO or F54T5HP/ES lamps are used Ensure adequate ventilation around ballast
Ballast hums loudly	Loose mounting Normal operation (slight hum is common)	Tighten mounting screws If hum is excessive, consult a qualified electrician

If problems persist after attempting these solutions, contact a qualified electrician or PHILIPS customer support.

8. SPECIFICATIONS

Specification	Value
Part Number	ICN2S54T35I
Item Weight	0.01 ounces
Product Dimensions	1.5 x 1.5 x 15 inches
Material	Copper
Wattage	2000 watts (Max fixture wattage)
Item Package Quantity	1
Type of Bulb	Fluorescent (F54T5/HO, F54T5HP/ES)
Input Voltage	120-277V
Frequency	50/60 Hz
Ballast Factor	1.02
Start Type	Programmed Start
Max Operating Temp	90°C (194°F)
Min Start Temp	-20°F
THD	Less than 10%
Power Factor	0.98
Sound Rating	Class A

9. WARRANTY INFORMATION

This PHILIPS Advance Centium ballast is covered by a manufacturer's limited warranty. For specific warranty terms, conditions, and duration, please refer to the documentation included with your product or visit the official PHILIPS lighting website. Keep your proof of purchase for warranty claims.

10. CUSTOMER SUPPORT

For technical assistance, product inquiries, or support, please contact PHILIPS customer service. Refer to the official PHILIPS website or product packaging for the most current contact information.

Online Resources: www.lighting.philips.com

