

Fulham WH5-120-L

Fulham Lighting WH5-120-L Workhorse 5 Adaptable Electronic Fluorescent Lamp Ballast

MODEL: WH5-120-L

Introduction

This manual provides essential information for the safe and effective installation, operation, and maintenance of your Fulham Lighting WH5-120-L Workhorse 5 Adaptable Electronic Fluorescent Lamp Ballast. This versatile ballast is designed to provide reliable illumination for various fluorescent lamp types in residential, office, and commercial settings. Please read this manual thoroughly before installation or use.

Product Features

- **Versatile:** Compatible with a wide range of fluorescent lamp types.
- **Energy Saving:** Designed for efficient power consumption.
- **Instant Start:** Provides immediate illumination upon activation.
- **Lightweight:** Easy to handle and install.
- **Small Case Size:** Compact design for flexible installation.
- **High Power Factor:** Ensures efficient use of electrical power.
- **Solid-State Electronics:** Modern and reliable electronic components.
- **Voltage:** Operates at 120V.
- **Lamp Compatibility:** Supports combinations up to 128W max, including CFT-4P, CFQ-4P, CFTR-4P, CFM-4P, 2D-4P, CR22-4P, CR32-4P, CR40-4P, Linear T4, T5HO, T8, T8HO, T10, T12, and T12HO lamps.



FLUORESCENT BALLASTS

HIGH-POWER

LIGHTWEIGHT

EFFICIENT

Image: Fulham Workhorse 5 ballasts are designed to be high-power, lightweight, and efficient for various lighting applications.



- **SOLID-STATE ELECTRONICS**
- **SMALL CASE SIZE**
- **COMMERCIAL & INDUSTRIAL APPLICATIONS**

FULHAM
Harness the Horsepower

Image: Featuring solid-state electronics and a small case size, the Workhorse 5 ballast is suitable for both commercial and industrial lighting needs.

Specifications

Attribute	Value
Manufacturer	Fulham Co., Inc.
Part Number	314626

Attribute	Value
Item Weight	15.2 ounces
Product Dimensions	1 x 2.5 x 1 inches
Item Model Number	WH5-120-L
Size	1 Count
Color	Silver
Finish	Silver
Material	Copper
Power Source	Wired Electric
Voltage	120.00V
Wattage	128W
Amperage Capacity	1.15 Amps
Item Package Quantity	1
Number Of Pieces	1
Type of Bulb	CFL
Certification	UL
Date First Available	January 5, 2009



Image: The Fulham Workhorse 5 ballast, displaying its model number WH5-120-L, input voltage, current, and lamp compatibility details. The UPC for this product is [0872180103754](#).

SPECIFICATION SHEET : WH5-120-L

This Is An Original Product From Fulham Co., Inc

Description : WorkHorse Series Versatile, Solid State Electronic Ballast. Small Case Size, High Power Factor, Light Weight, Available In 120/230/277V 50/60 Hz.

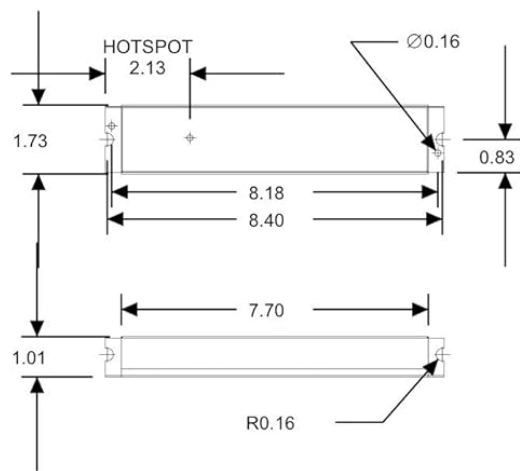
This Ballast Will Operate Following Lamps.

REFER TO LAMP WATTS/TYPE

ELECTRICAL DATA

INPUT VOLT: 120V \pm 10%, 50/60Hz					
LAMP WATTS/TYPE	LAMPS OPERATED	INPUT WATTS	LINE CURRENT	BALLAST FACTOR	EFFICACY FACTOR
*F32T8	3	106	0.93	1.26	1.19
*F32T8	4	127	1.13	1.11	0.87
F54T5HO	2	108	0.96	1.07	0.99
*F58T8	2	110	0.97	1.08	0.98
*F40T10	2	101	0.90	1.31	1.30
*F15T8	3	50	0.44	1.00	2.02
POWER FACTOR	> 0.9				
THD	< 32 %				
EMI/RFI COMPLIANCE	FCC PART 18-A				
SOUND RATING	" A "				
BALLAST TYPE	INSTANT START				
VOLTAGE TRANSIENTS	ANSI C82.11 - 1993				
INPUT/PROTECTION	FUSE				
OUTPUT/PROTECTION	-				
MIN. OPERATING TEMP	- 30 $^{\circ}$ C (- 20 $^{\circ}$ F)				
MAX. CASE TEMP	70 $^{\circ}$ C (158 $^{\circ}$ F)				
ENERGY STAR 4.0	-				
APPROVALS/CLASS	* UL /cUL LISTED, CLASS " P ", 1 OR 2 OUTDOOR				
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MECHANICAL DATA



Where : L = Length, W = Width, H = Height

WIRING DIAGRAMS

WIRE	BLACK	WHITE	RED	BLUE	YELLOW	BROWN
LENGTH - INCHES	12 \pm 1"	12 \pm 1"	36 \pm 1"	-	36 \pm 1"	-

**WIRING DIAGRAMS DEPENDS
ON THE LAMP TYPE.
PLEASE REFER TO FULHAM'S CATALOG.**

NOTE : This Ballast Must Be Grounded

Fulham extends a limited warranty only to the original purchaser or to the first user for a period of 5 years from the date of manufacture when properly installed and operated under normal conditions of use. For complete terms and conditions, please reference the Fulham product catalog (www.fulham.com) Due to a program of continuous improvement, Fulham reserves the right to make modifications or variations in design or construction to the equipment described.

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Image: Detailed specification sheet for the WH5-120-L ballast, including electrical data for various lamp types, mechanical dimensions, and a note on wiring diagrams.

Setup and Installation

Important Safety Information:

- Always disconnect power at the circuit breaker or fuse box before installing or servicing the ballast.
- Installation should be performed by a qualified electrician in accordance with the National Electrical Code (NEC) and local electrical codes.
- Ensure proper grounding of the ballast.

- Do not exceed the maximum wattage or lamp combination specified for this ballast.

Installation Steps:

1. **Power Disconnection:** Turn off the main power supply to the fixture at the circuit breaker. Verify power is off using a voltage tester.
2. **Access Fixture:** Open the lighting fixture to access the existing ballast (if replacing) or the wiring compartment.
3. **Remove Old Ballast (if applicable):** Carefully disconnect all wires from the old ballast, noting their connections. Remove the old ballast from the fixture.
4. **Mount New Ballast:** Securely mount the Fulham WH5-120-L ballast inside the fixture using appropriate fasteners.
5. **Wiring:** Connect the ballast wires to the lamp holders and power supply. **It is crucial to refer to the specific wiring diagrams provided in the Fulham catalog for your particular lamp type and configuration.** Incorrect wiring can damage the ballast, lamps, or pose a safety hazard. The ballast is designed for linear models with side leads.
6. **Secure Connections:** Ensure all wire connections are secure and properly insulated.
7. **Close Fixture:** Carefully close the lighting fixture, ensuring no wires are pinched.
8. **Restore Power:** Turn the main power supply back on at the circuit breaker.
9. **Test:** Verify that the lamps illuminate correctly.

For detailed wiring specifications and diagrams, please consult the official Fulham product catalog or their website. The ballast is approved for "Air Handling Spaces" and is Type "HL" approved.

Operation

The Fulham WH5-120-L Workhorse 5 ballast operates automatically once properly installed and connected to the power supply and compatible fluorescent lamps. It features an "Instant Start" function, meaning the lamps will illuminate immediately upon receiving power, without any flickering or delay.

Ensure the power switch controlling the fixture is in the "ON" position for continuous operation. For optimal performance and lamp life, avoid frequent on/off cycling.

Maintenance

The Fulham WH5-120-L ballast is designed for long-term, maintenance-free operation. However, periodic checks of the lighting fixture can help ensure continued performance:

- **Power Disconnection:** Always turn off power to the fixture before performing any maintenance or inspection.
- **Cleaning:** Keep the ballast and fixture free from dust and debris to prevent overheating and ensure proper ventilation. Use a dry, lint-free cloth for cleaning.
- **Lamp Replacement:** When replacing fluorescent lamps, ensure they are compatible with the ballast's specifications. Replace all lamps in a multi-lamp fixture simultaneously for balanced operation and extended ballast life.
- **Wiring Inspection:** Periodically inspect wiring connections for any signs of wear, fraying, or loose connections. Address any issues promptly.
- **Environmental Conditions:** Ensure the ballast operates within its specified temperature range (-30°C to 70°C max case temperature) to prevent premature failure.

Troubleshooting

If you experience issues with your Fulham WH5-120-L ballast, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Lamps do not light up.	No power to fixture, faulty lamps, incorrect wiring, faulty ballast.	Check circuit breaker. Ensure lamps are properly seated and not burnt out. Verify wiring against Fulham's diagrams. If all else fails, ballast may need replacement.
Lamps flicker or dim.	Old or incompatible lamps, loose connections, low voltage, ballast nearing end of life.	Replace lamps with new, compatible ones. Check all wiring connections. Ensure stable 120V power supply. If problem persists, consider ballast replacement.
Ballast hums loudly.	Loose mounting, internal component issue.	Ensure ballast is securely mounted. If humming continues and is excessive, the ballast may be faulty and require replacement.
Ballast feels hot.	Normal operation (up to 70°C max case temp), poor ventilation, overloaded.	Ensure adequate airflow around the ballast. Verify lamp wattage does not exceed 128W total. If excessively hot or emitting smoke/odor, disconnect power immediately and replace.

If troubleshooting steps do not resolve the issue, contact a qualified electrician or Fulham customer support for assistance.

Warranty Information

Fulham extends a limited warranty to the original purchaser or to the first user for a period of **5 years** from the date of manufacture. This warranty covers defects in materials and workmanship when the product is properly installed and operated under normal conditions of use.

This warranty does not cover damage resulting from improper installation, misuse, abuse, accidents, unauthorized repairs or modifications, or acts of nature. For warranty claims, please retain your proof of purchase and contact Fulham customer support.

Customer Support

For further assistance, technical inquiries, or to access the full Fulham product catalog with detailed wiring diagrams, please visit the official Fulham website or their Amazon Brand Store:

Visit the Fulham Lighting Store on
Amazon

[Official Fulham Website](#)