



STORAGE and HANDLING

Jacoby-Tarbox Phaeton Series Tank Lights meet or exceed all applicable specifications when they are shipped from the factory. Even though this unit is called a tank light, it may be installed on sight flow indicators also.

All units should be inspected upon receipt to ensure that no damage has been incurred during transit. If there has been, a claim should be filed with the carrier immediately. Units should be stored in an area protected from the elements and corrosive fumes, in a secure manner where they can neither fall, nor be struck by other objects. Care should be taken to protect the window and the end connections from damage. Avoid placing any objects directly on the light at any time.

COMPONENTS

There are three main components that make up the Phaeton Series light, the light ring, the power supply, and the cable connecting these two main pieces. The cable may have more than one piece depending on the required distance between the light ring and the power supply.

INSTALLATION

CAUTION: All lights are tagged with the service conditions for that particular unit. These specifications are located on the Jacoby-Tarbox tag on the power supply housing, and are contained in the "Specifications" section of this manual. Do not use or refer to specifications listed on red label on the power supply housing. They are specification for generic use. Review the ratings prior to installation and again prior to start-up, to ensure proper operation in the installed environment. Should there be any doubt as to the applicability of a unit for the

installed environment, consult the factory before placing the unit into service.

Note: All installation steps should be performed by a qualified technician and should be executed in accordance with all applicable national and local codes.

The light and power supply should be checked to ensure that they contain no foreign matter, and that the end connections are clean, undamaged, and in line with existing conduit.

Step by step instructions:

- 1) Place the light ring directly on to the desired window.
- 2) Hold the ring in place and pull the mounting bracket beyond the perimeter of the window's retaining flange. The opening in the bracket should allow it to slip over the retaining flange. The thumbscrew should be pointing, away from the window. Repeat this step for the other two mounting brackets.
- 3) Once all three brackets are in place, tighten the thumbscrews to secure the light ring.
- 4) Remove the cap in the 1/2" NPT conduit connection. Open the housing. The power supply has a pluggable, 2-position terminal block ready to connect to the customer's power. All electrical specifications must comply with NEC guidelines. After connecting the power, close the housing.
- 5) **IMPORTANT: The customer must have a sealing fitting in the conduit supplying power to the light's power supply within 18" of the power supply.**

CAUTION: Prior to starting step 6, verify that the area is free of flammables.

- 6) Remove the cover on the power supply once the power has been turned on. An LED will be lit if it is wired correctly.
- 7) If the LED in the power supply is not lit, check the power source and the connection before continuing.
- 8) If the LED in the power supply is lit, replace the cover on the power supply, and connect the light ring to the power supply using only the cable supplied.
- 9) If the cable will not reach the power supply, contact your local representative for the required extension cable.

OPERATION

Phaeton tank lights run continuously. The operating life of the LED's is 100,000 hours under normal conditions.

Customers may install a switch or timer if desired. Any additional components must be installed prior to the customer's sealing fitting.

ROUTINE MAINTENANCE

Keep window on the front of the light clean using commercial glass cleaners, such as Windex® or similar. Never use harsh abrasives, wire brushes, metal scrapers, or any material that could scratch the window. The window may be cleaned while the unit is in operation.

The light may be removed while the unit is in operation during inspection or maintenance of the customer's sight window or sight flow indicator. The light ring may also be disconnected from the power supply, if desired. Disconnect the cord at the supplied screw connector adjacent to the power supply. The plant power going to the power supply does not need to be disconnected.

SPECIFICATIONS

Power Supply:	120 or 240 VAC @ 50-60 Hz 24V DC (600 mA)
Power Consumption:	<1.0 Amp @ 120 VAC <0.5 Amp @ 240 VAC
Est. Life:	100,000 Hours (continuous)
Agency Approvals:	FM and CSA
Ratings:	Class I, Div 1, Grps. B, C, & D Class II, Div 1, Grps. E, F, & G Cenelec Rated to: Eexd _____ Eexia, and IP 66 per IEC 529
Wire Size:	Min 18 AWG / Max 12 AWG
Max dist. from power supply to light:	90' (27.5 M) Standard Cable = 8' (2.5M)

Figure 1: Typical Phaeton Installation in Hazardous Environment

