

IFS – Induction Freezer Fixture

Seeking an Ultra-long Life Energy Efficient Lighting Solution?

- Induction is a mid-priced option, typically more costly than linear fluorescent, but lower cost than LED, and P2 can tailor it to your needs.
- Philips QL and Sylvania Icetron systems are rated for 100,000 hour system life dramatically reducing long term maintenance costs.

Why P2? It's Simple, Our Relighting Experience.

- Properly deployed, Induction is a valuable niche light source. Improperly deployed on your project, it can be a nightmare.
- We understand what it takes to successfully deploy the latest energy efficient, long life lighting technologies and tailor them to your application.
- Our engineers have the tools and expertise to thermally and photometrically model your system to ensure that the long life and performance promised by induction light sources is delivered.

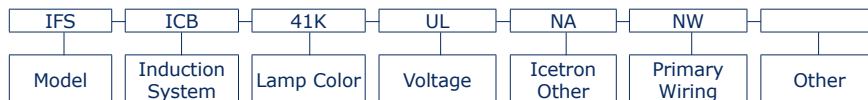
IFS – Induction Freezer Fixture



Application

- Suitable for freezers as low as minus 40°F ambient temperatures.
- Applications where maintenance costs are compounded by inaccessible fixtures or prescribed lengthy service intervals.
- Applications where routine outages can not be tolerated.

IFS – ICB – 41K – UL – NA – NW



Fixture Series

IFS = Induction Freezer Fixture

Induction System (1)

QLA = Philips, 55 Watt, 3500 Lumen System

QLB = Philips, 85 Watt, 6000 Lumen System

ICA = Osram, 77 Watt, 6500 Lumen System

ICB = Osram, 103 Watt, 8000 Lumen System

Lamp Color

35K = 3500 Kelvin (Osram Only)

41K = 4100 Kelvin (Osram Only)

50K = 5000 Kelvin (Osram Only)

30K = 3000 Kelvin (Philips Only)

40K = 4000 Kelvin (Philips Only)

Voltage

120 = Dedicated Voltage 120v (Philips Only)

277 = Dedicated Voltage 277v (Philips Only)

UL = Universal Low 120 through 277volt (Osram Only)

Icetron Other Options

NA = None Selected

TC = Amalgam Tip Covers for Extreme Cold

Primary Wiring

NW = No Whip, Daylight Primary Power for Field Connection

C8 = 8' Cord, No Plug, Pre-Stripped

C8/L715 = 8' Cord & 277v Twistlock Plug (NEMA L7-15P)

PQC15 = 15' Cord with In-Line Quick Connect

Numeric Footnotes

(1) For Higher Wattage Bulk Storage Freezer Systems Contact Engineering for our HWL High-Bay Equipped with Induction.

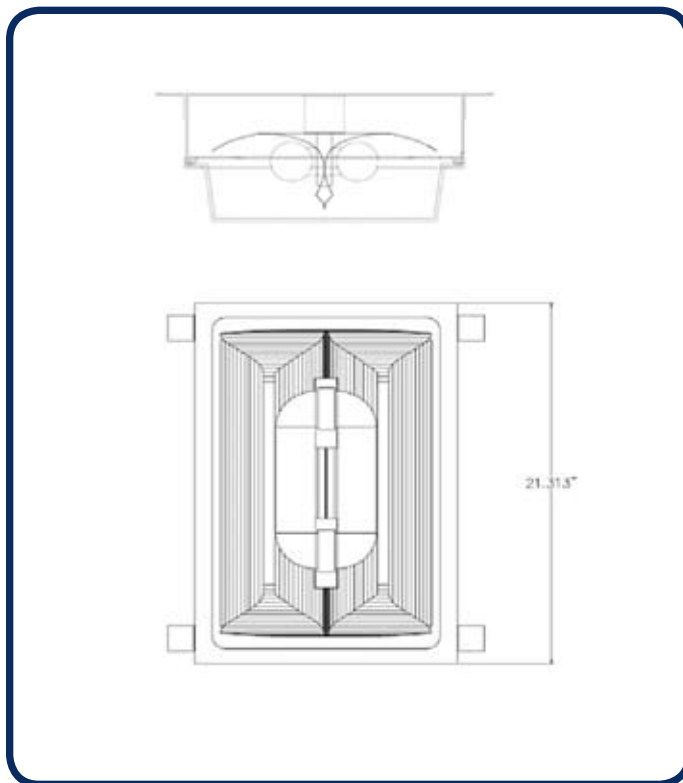
IFS – Induction Freezer Fixture

Fixture Construction

- Heavy duty seamless aluminum construction.
- Post production powder coat.
- Integral dog ear tabs for surface mounting.
- Optional hanging brackets for suspended mounting.
- Sealed polycarbonate prismatic drop lens.
- Osram Sylvania Icetron or Philips QL induction technology.
- Amalgam controlled Hg vapor provides stable light output.
- Made in the USA: Hudson WI, Gainesville FL, Orange County CA.

Dimensions

Body Width = 13.75"
Body Length = 21.31"
Body Height = 3.625"
Overall Height = 7.0"



Existing System

| HID System | Lamp Qty & Type | Initial Lumens Per Lamp | Mean Lumens Per Lamp | S/P (1) Ratio | S/P (2) Adjusted Lumens | System Input Watts | Lumens (3) Per Watt | Rated Life (Hours) |
|------------------|-----------------|-------------------------|----------------------|---------------|-------------------------|--------------------|---------------------|--------------------|
| HPS-150 Standard | 1 HPS150 | 15,000 | 13,500 | 0.62 | 9,298 | 190 | 49 | 24,000 |
| MH-175 Standard | 1 MH175 | 13,500 | 8,775 | 1.49 | 11,977 | 210 | 57 | 10,000 |

Re-Lighting Options

| Induction System | Lamp Qty & Type | Initial Lumens Per Lamp | Mean Lumens Per Lamp | S/P (1) Ratio | S/P (2) Adjusted Lumens | System Input Watts | Lumens (3) Per Watt | Rated Life (Hours) |
|------------------------------|-----------------|-------------------------|----------------------|---------------|-------------------------|--------------------|---------------------|--------------------|
| QLA - QL55 System | 1 QL55/840 | 3,500 | 2,800 | 1.62 | 4,079 | 55 | 74 | 100,000 |
| QLB - QL85 System | 1 QL85/840 | 6,000 | 4,800 | 1.62 | 6,993 | 85 | 82 | 100,000 |
| ICA - ICE70 & QT100 Ballast | 1 ICE70/841 | 6,500 | 4,830 | 1.62 | 7,037 | 77 | 91 | 100,000 |
| ICB - ICE100 & QT100 Ballast | 1 ICE100/841 | 8,000 | 5,945 | 1.62 | 8,661 | 103 | 84 | 100,000 |

For Higher Wattage Bulk Storage Freezer Systems Contact Engineering for our HWL High-Bay Equipped with Induction.

Numeric Footnotes

- (1) S/P Ratio = Scotopic to Photopic Lumens
(2) SP Adjusted Lumens = Mean Lumens x (S/P).78 [.78 exponent]
(3) Lumens Per Watt = S/P Adjusted Lumens / Fixture Input Watts

General Notes:

- There are many operating and thermal variables that affect Induction system output. Consult factory for assistance in modeling your Induction system.
- Values shown are based on design operating temperatures and at 277 volts.
- Fixture efficiencies and system layout are not comprehended in the table, but will also affect the usefulness of the system.