Type No	
Catalog No	
Job. Name	

# PFCB Series Performer Comfort Bay, 250-450W HID

#### **APPLICATIONS**

· Applications include assembly areas, industrial facilities, and warehouses.

#### CONSTRUCTION

Low profile, heat dissipating die-cast aluminum ballast enclosure has a white UltraClad
polyester powder coat, electrostatically applied and oven cured. Totally enclosed core & coil
assembly and capacitor for safe and reliable component life. The relamp opening at the top of
the reflector is effectively sealed with a high temperature gasket and high compression latch.
Standard safety cable between optical/ballast assembly allows secure relamping. Standard unit
constructed to IP52. With Less Ballast option, unit is constructed to IP54. With Wet Location
option, unit is constructed to IP54.

#### **OPTICS**

• The Performer Comfort Bay features a hinged and gasketed optical assembly. Heavy gauge aluminum reflector with high-reflectivity white UltraClad polyester powder coat finish provides the upper portion of the optical assembly which features a permanently sealed prismatic refractor, available in either a Conical or a Drop profile. The hinged and gasketed optical assembly is held in place by a heavy-duty stainless steel high compression latch. An uplight component option is available to provide fill light on ceiling surfaces to improve the quality of the lighting environment. Performer Comfort Bay luminaires require the use of open rated mogulbased lamps

#### **ELECTRICAL**

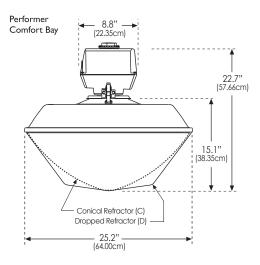
- High power factor constant-wattage autotransformer (CWA) ballast with reliable starting to 29°C (-20°F) for Metal Halide, -34°C (-30°F) for Pulse Start Metal Halide, -40°C (-40°F) for High Pressure Sodium.
- 180°C (356°F) Class H insulation system. Crest factor does not exceed 1.8. PolyBlock ballast
  option (core and coil assembly encapsulated in polyester resin compound) available for
  applications requiring quieter operation and maximum heat dissipation. Electronic Ballast
  options are available.

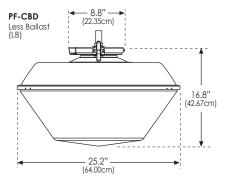
#### MOUNTING

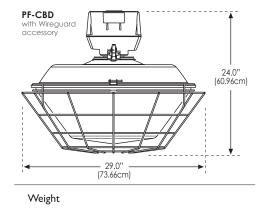
 Cast aluminum nut and hub is standard for quick, positive mounting to 3/4" NPT or NPSM conduit.

### **WARRANTY/LISTINGS**

 Standard 5 Year Limited Warranty. UL/cUL Listed luminaire, UL 1598, suitable for Damp Locations, Wet Location option available. Suitable for use in ambient not exceeding 40°C (104°F). NSF Sanitation Listing available. The quality systems of this facility have been registered by UL to the ISO 9001 Series Standards.







56 lbs. (25.40kgs)

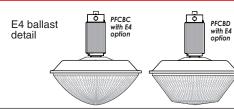
See Page 2 for Ordering Information



## Performer Comfort Bay, 250-450W HID







PFCB CBC optics		PFCB CBD optics
Series/Source-Wattage	Optics	standard magnetic ballast Voltage Options Availability varies between magnetic & electronic ballast units. See Option details for restrictions.
Pulse Start Metal Halide Requires open rated lamps.  PFP-250	Reflector / Refractive Lens Assembly  CBC Comfort	□ 120 □ QV □ 208
□ PFP-320 □ PFP-350 □ PFP-400 □ PFP-450¹ □ PFP-450¹	Bay reflector with prismatic acrylic Conical lens  CBD Comfort Bay reflector with prismatic	Optional E ballast Voltage 1/ Dimming  Available for:  PFP-320 PFP-350 PFP-450
High Pressure Sodium  PFS-250  PFS-400	acrylic Drop lens	208E4   208V Advance Dynavision electronic ballast   SL Sanitation Listed (not available with all options and accessories)   SL Sanitation Listed (not available with all options and accessories)   SL Sanitation Listed (not available with all options and accessories)   SL Sanitation Listed (not available with all options and accessories)   SL Sanitation Listed (not available with all options and accessories)   SL Sanitation Listed (not available with all options and accessories)   SL Sanitation Listed (not available with all options and accessories)   SL Sanitation Listed (not available with all options and accessories)   SL Sanitation Listed (not available with all options and accessories)   SL Sanitation Listed (not available with all options and accessories)   SL Sanitation Listed (not available with all options and accessories)   SL Sanitation Listed (not available with all options and accessories)   SL Sanitation Listed (not available with all options and accessories)   SL Sanitation Listed (not available with all options and accessories)   SL Sanitation Listed (not available with all options and accessories)   Shurre with all options and accessories   SL Sanitation Listed (not available with all options and accessories   Shurre with all options and accessories
PF-F1-KIT Single Fuse Kit (120/277V)  PF-F2-KIT	☐ H4-5W Per ☐ LCP-(X)C-L(Y ☐ LCP-(X)C-L232 ☐ H5 Pow	HM Male Hook  dant Mounted Power Hook, 3-Wire  dant Mounted Power Hook, 5-Wire  DA75 Joint Aligner  WG-PF/ILX-CB 5 Wireguard

## ExceLine



## Performer Comfort Bay, 250-450W HID

### Distribution Guide & Magnetic Ballast Data 1

Source & Wattage	Optics	Lamp <sup>2</sup> Envelope	Efficiency	SP/MH	.ies file name	Ballast Type	ANSI Code	Line Current 120/208/240/277/480	Line Watts	LER <sup>3</sup>
PSMH <b>250</b>	CBC CBD	BT/ED28 BT/ED28	87% 84%	2 2.1	cbpc25c.ies cbpc25d.ies	CWA	M138 / M153	2.8 / 1.5 / 1.3 / 1.1 / 0.6	298	72 69
PSMH <b>320</b>	CBC CBD	BT/ED28 BT/ED28	86% 83%	2 2.1	cbpc32c.ies cbpc32d.ies	CWA	M132 / M154	3.3 / 1.9 / 1.7 / 1.4 / 0.8	368	75 73
PSMH <b>350</b>	CBC CBD	BT/ED37 BT/ED37	86% 83%	2 2.1	cbpc35c.ies cbpc35d.ies	CWA	M131	3.7 / 2.1 / 1.8 / 1.6 / 0.9	400	76 73
PSMH <b>400</b>	CBC CBD	BT/ED37 BT/ED37	87% 81%	2 2.1	cbpc40c.ies cbpc40d.ies	CWA	M135 / M155	4.0 / 2.2 / 1.9 / 1.8 / 1.0	456	77 73
PSMH <b>450</b>	CBC CBD	BT/ED37 BT/ED37	87% 81%	1.7 1.8	cbpc20c.ies cbpc20d.ies	CWA	M144	4.4 / 2.6 / 2.2 / 1.9 / 1.1	514	77 73
HPS <b>250</b>	CBC CBD	E18 E18	89% 84%	1.9 1.7	cbs25c.ies cbs25d.ies	CWA	S50	2.7 / 1.6 / 1.3 / 1.2 / 0.7	310	75 69
HPS <b>400</b>	CBC CBD	E18 E18	88% 83%	1.9 1.7	cbs40c.ies cbs40d.ies	CWA	S51	4.1 / 2.5 / 2.1 / 1.9 / 1.1	467	88 81

#### Notes

- The Performer Comfort Bay series can accommodate other wattages and lamps. Consult factory.
- PSMH units require open rated lamps.
  Coated lamps recommended for PSMH units.
  Clear lamps recommended for HPS units.
- 3) Calculated in accordance with NEMA Standard LE-5B.
- Significant savings may be realized if electronic ballasts are specified. Other specifications remain the same as shown in magnetic ballst data chart.

#### optional Electronic Ballast Line Current and Line Watts Data 4

	PSMH	1.7 / 1.4 / 1.3	344 - 346	72	60
	PSMH	1.8 / 1.6 / 1.4	363 - 376	71	68
For availability of electronic ballast in 250	PSMH	2.1 / 1.9 / 1.6	413 - 430	79	76
watt pulse start metal halide systems, contact factory.	PSMH	NA / NA / 1.8	478	75	71

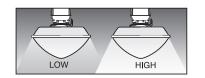
### Option details (Factory Installed)

BL Bi-Level (requires 5-wire) (for magnetic ballast only)

Electronic dimming is specified as either BL50 or AD50.

(See page 2)

Provides high/low level of lamp output with 50% power consumption.
Zero crossover network avoids strobing and lamp dropout.



#### Note: Wet Location Listing is not available with BLI options.

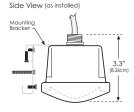
BLI(X) Bi-Level Integral Control
Offers individual fixture control.

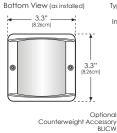
Does not provide zero crossover switching.

(X) = S (Symmetric coverage) or A (Aisle coverage)

BLI(X)CT Cold Tempterature Bi-Level Integral Control (suitable for use in ambients to -29°C (-20°F) Passive Infra-Red motion sensor step dims (up to 50%) individual fixtures based on occupancy under the sensor.

Integral 'Start-At-High' feature: Microprocessorbased design starts lamp at high for 15 minutes, to assure rated lamp life.







**BLICW** Counterweight accessory

PF-F1 Single Fuse 120 / 277V (voltage must be specified)PF-F2 Double Fuse 208 / 240 / 480V (voltage must be specified)

Standard unit consists of 1 or 2 externally accessible KTK 30 amp fuses.

For Wet Location Listed units, consult factory for fusing.







## Performer Comfort Bay, 250-450W HID

#### Auxiliary / Emergency Lighting (150 watt quartz lamp, standard)

Combined quartz wattage may not exceed HID lamp wattage. 120V double contact bayonet base. LQ1 and LQ2 require an interlock by others to ensure HID and quartz source are not operated together.

#### **CSR**

Hot Quartz Restrike using Current Sensing Relay (without time delay)



Extinguishes auxiliary quartz lamp when arc of the main HID lamp strikes

Activation: At (initial) Cold Start or Restrike (after a momentary "Brown Out" or extended "Black Out" power interruption), through Run Down.

#### **CSR Auxiliary Quartz Operation**







#### HID Lamp Reaches Full Brightness:

Auxiliary quartz lamp automatically extinguished when main HID lamp strikes. (Takes approximately 3 minutes to reach approx. 40% brightness.)

#### LiteMatic Hot / Cold Quartz Restrike LQ



Provides LiteMatic quartz auxiliary operation for fixtures with 120V or multi-tap ballasts. 120V auxiliary LiteMatic quartz lamp power supplied by ballast (AC line voltage). Quartz lamp remains on for three minutes after main HID lamp strikes and reaches approximately 40% light output.

Activation: At (initial) Cold Start or Restrike (after a momentary "Brown Out" or extended "Black Out" power interruption), through Run Down, Restrike and Ramp Up.

#### LQ Auxiliary LiteMatic Quartz Operation







Quartz Lamp Remains on during Ramp Up:

Besides providing illumination while the main HID lamp reaches full brightness, the warmth provided by the quartz lamp helps to create a favorable restrike condition for the main HID lamp (useful in extreme cold temperatures).

#### LQ1 Separately Wired (120V) Hot / Cold Quartz Restrike



Externally controlled emergency lighting from a separate power source. Quartz lamp is extinguished once power is restored. To ensure integrity of the emergency lighting system, LQ1 leads should be hardwired. Suitability of specifying emergency lighting (LQ1) with (5-wire) cord and plug is the determination of the user.

Activation: At "Black Out" conditions only. Normal HID operation will occur at all

#### **LQ1 Emergency Quartz Operation**



At AC Power Interruption: During AC line voltage power interruption, auxiliary quartz imp is automatically energized by separately wired power



tically Extinquish

Used specifically for emergency lighting during "Black Out" periods, or times of extended power interruption. (Takes approximately 3 minutes for HID lamp to reach full brightness.)

#### LQ<sub>2</sub> LiteMatic Quartz with LQ and LQ1 combined functionality



Combines the standard LQ and LQ1 systems to provide the ulitmate in safety and security.

To ensure integrity of the emergency lighting system, LQ1 leads should be hardwired. Suitability of specifying emergency lighting (LQ1) with (5-wire) cord and plug is the determination of the user.

Activation: At (initial) Cold Start or Restrike, through Run Down, Restrike and Ramp Up, At "Black Out" conditions, emergency operation occurs, Remains on while HID lamp strikes and reaches approximately 40% light output.

#### LQ2 Emergency / Auxiliary LiteMatic Quartz Operation



At Normal Start and at AC Power Interruption:

Quartz lamp energized at cold start or restrike and also at AC power interruption (by a separately wired power source).



Quartz Lamp Remains on during Ramp Up:

Besides providing illumination while the main HID lamp reaches full brightness, the warmth provided by the quartz lamp helps to create a favorable restrike condition for the main HID lamp (useful in extreme cold temperatures)

#### RM Remote mount ballast (with 3' SO cord)

Ballast housing pre-wired to remote socket through a reflector hanger (male hook) with 3 ft. 16/3 SO cord.

#### Wet Location Listed or Sanitation Listed options are not available with RM option. Note:





LB Less ballast (3/4" NPT stem required)

> Maximum Remote Ballast Distances apply. Consult factory. If combined with Wet Location Listed option, consult factory.

Optics are pendant mounted on a swing plate. Includes wiring quick disconnect.

Suggested for use in retail stores or any environment where aesthetics are a concern.



**AUL** Additional Uplight Additional uplight option increases space perception and eliminates shadows



PB Encapsulated Polyblock (for magnetic ballast only) Requires alternate ballast housing, consult factory.

SilentGuard ballast encapsulation of the core and coil assembly provides quiet operation, superior protection from moisture and corrosion and excellent heat dissipation properties.

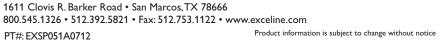
WL Wet Location Listed Requires conduit mounting. Not available with all options or accessories.

Sanitation Listed SL Note: Required for NSF Listing Units are NSF listed for Splash and Non-Food zones. Not available with all options or accessories. (NSF listing indicates compliance to a level of cleanability.)

50HZ 50 Hz ballast (for magnetic ballast only)

Specified for applications (outside the U.S.) where 50 Hz operation is standard. (consult factory for availability)

## ExceLine



## Performer Comfort Bay, 250-450W HID

**Alternate Mounting Options** 

H4-HCP-L(Y)20P

H4-HCP-L2320P

H5-LCP-L(Y)20P

Note: Units intended for use with HCP, H4, LCP or H5 options or accessories are not suitable for Wet Locations. If Wet Location Listed option is required, specify -WL versions of UPH-LCMP, TWB-EDP, or TWB-ED5P.

loop. 20A standard.

HCP-(X)C-L(Y)20P Hook, Cord and Plug, 3-Wire

> (X) = Cord length in feet: 3, 6 or 10

(Y) = 3-Wire NEMA voltage code: **5** = 120V, **6** = 208/240V, **7** = 277V, **8** = 480V

(Y) = 3-Wire NEMA voltage code: 5 = 120V, 6 = 208/240V, 7 = 277V, 8 = 480V

Pendant Power Hook, 3-Wire with HCP

Pendant Power Hook, 5-Wire with HCP

HCP-(X)C-L2320P Hook, Cord and Plug, 5-Wire

(X) = Cord length in feet:

Unit is pre-wired with 3-conductor rubber jacketed cable and heavy duty (16/3) NEMA twist-lock plug, along with die-cast hook with locking screw. 20A standard.

When specified with BL, LQ1 or LQ2, unit is pre-wired with 5-conductor rubber jacketed cable and heavy duty (16/5) NEMA twist-lock plug (L2320P), along with die-cast hook with locking

screw. 20A standard.

Pendant Mounted Power Hook with NEMA receptacle. Unit is pre-wired with Hook, Cord and Plug.

When specified with BL, LQ1 or LQ2, Pendant Mounted Power Hook has an L2320R NEMA receptacle. (5-wire)

Unit is pre-wired with 3-conductor rubber jacketed cable and

heavy duty (16/3) NEMA twist-lock plug, along with die-cast

5-conductor rubber jacketed cable and heavy duty (16/5) NEMA twist-

When specified with BL, LQ1 or LQ2, unit is pre-wired with



LCP-(X)C-L(Y)20P Loop, Cord and Plug, 3-Wire

> (X) = Cord length in feet: 3. 6 or 10

**5** = 120V, **6** = 208/240V, **7** = 277V, **8** = 480V (Y) = 3-Wire NEMA voltage code:

LCP-(X)C-L2320P Loop, Cord and Plug, 5-Wire

> (X) = Cord length in feet: 3, 6 or 10

> > Power Hook, 3-Wire with LCP

(Y) = 3-Wire NEMA voltage code: 5 = 120V, 6 = 208/240V, 7 = 277V, 8 = 480V

H5-LCP-L2320P Power Hook, 5-Wire with LCP Power Hook with thru-wire provision contains a NEMA receptacle.

lock plug (L2320P), with die-cast loop. 20A standard.

Unit is pre-wired with Loop, Cord and Plug.

When specified with BL, LQ1 or LQ2, Power Hook has an L2320R NEMA receptacle (5-wire).

3-wire universal power hook module with thru-wire

provisions. UL listed as a primary load break device.

Specify UPH-LCMP-WL with Wet Location Listed units.





**UPH-LCMP** Universal Power Hook, 3-Wire only (specify voltage)

**UPH-LCMP-WL** (specify voltage) Universal Power Hook,

Wet Location Listed, 3-Wire only

(includes special gasketing, suitable for wet locations)

Note: Not available with Bi-Level option.

**TWB-EDP** Thru-wire box, 3-wire with (specify voltage)

disconnect

TWB-EDP-WL (specify voltage) Thru-wire box, Wet Location Listed,

3-wire with disconnect

(includes special gasketing, suitable for wet locations)

TWB-ED5P (specify voltage) Thru-wire box,

5-wire with disconnect

TWB-ED5P-WL (specify voltage) Thru-wire box, Wet Location Listed

5-wire with disconnect

(includes special gasketing, suitable for wet locations)

Thru-wire box provides disconnect capability. UL listed as a primary load break device.

5-wire version required if specified in conjunction with BL, LQ1 or LQ2 option.



When intended for use with Wet Location Listed option, specify TWB-EDP-WL (3-wire version) or TWB-ED5P-WL when 5-wire

version is required.









## Performer Comfort Bay, 250-450W HID

#### Accessory details (Field Installed - Shipped Separately)

**PF-F1 KIT** Single Fuse Kit (120/277V)

**PF-F2 KIT** Double Fuse Kit (208/240/480V)

Note: Wet Location Listing is not available for units installed with the standard Performer series fuse kit accessory.

Kit consists of 1 or 2 fuses for field installation on wiring access plate. (Voltage must be specified.)

Must be factory installed with ordered for a unit with a pre-wired LCP or HCP.

HCP-(X)C-L(Y)20P Hook, Cord and Plug, 3-Wire

(X) = Cord length in feet: 3, 6 or 10

(Y) = 3-Wire NEMA voltage code: 5 = 120V, 6 = 208/240V, 7 = 277V, 8 = 480V

HCP-(X)C-L2320P Hook, Cord and Plug, 5-Wire with (16/5) NEMA plug configuration

Note: Wet Location Listing is not available for units installed with HCP options or accessories.

H4 Pendant Power Hook, 3-Wire

H4-5W Pendant Power Hook, 5-Wire

with (16/5) NEMA plug configuration

Consult factory for use with BL50 or AD50 (electronic ballast dimming).

Note: Wet Location Listing is not available for units installed with H4 options or accessories.

LCP-(X)C-L(Y)20P Loop, Cord and Plug, 3-Wire

(X) = Cord length in feet: 3, 6 or 10

(Y) = 3-Wire NEMA voltage code: 5 = 120V, 6 = 208/240V, 7 = 277V

LCP-(X)C-L2320P Loop, Cord and Plug, 5-Wire

with (16/5) NEMA plug configuration

Note: Wet Location Listing is not available for units installed with LCP options or accessories.

**H5** Power Hook with thru-wire provision, 3-Wire

**H5-5W** Power Hook with thru-wire provision, 5-Wire

with (16/5) NEMA plug configuration

Consult factory for use with BL50 or AD50 (electronic ballast dimming).

Note: Wet Location Listing is not available for units installed with H5 options or accessories.

3-conductor rubber jacketed cable and heavy duty (16/3) NEMA twist-lock plug as specified, with die-cast hook with locking screw. 20A standard.

Specify 5-wire version with (magnetic ballast) BL option or units equipped with LQ1 or LQ2.

Low voltage cord and plug required with (electronic ballast) BL50 or AD50 0-10v dimming (specified with ballast voltage).

Pendant Mounted Power Hook with a L9-20R or L20-23R NEMA configured receptacle. Used with corresponding Hook, Cord and Plug.

Specify 5-wire version with (magnetic ballast) BL option or units equipped with LQ1 or LQ2.

Low voltage cord and plug required with (electronic ballast) BL50 or AD50 0-10v dimming (specified with ballast voltage). **Consult factory**.

3-conductor rubber jacketed cable and heavy duty (16/3) NEMA twist-lock plug as specified, with die-cast loop. 20A standard. Specify 5-wire version with (magnetic ballast) BL option or units equipped with LQ1 or LQ2.

Low voltage cord and plug required with (electronic ballast) BL50 or AD50 0-10v dimming (specified with ballast voltage).



Power Hook with thru-wire provision with a L9-20R or L20-23R NEMA receptacle as specified. Used with corresponding Loop, Cord and Plug.

Specify 5-wire version with (magnetic ballast) BL option or units equipped with LQ1 or LQ2.

Low voltage cord and plug required with (electronic ballast) BL50 or AD50 0-10v dimming (specified with ballast voltage). **Consult factory**.



**HM**Male Hook

Wet Location Listing is not available.



JA75 Joint Aligner

50 lb. maximum allowed.



BRC(X)-PF Ballast Retainer Chain

(X) = Chain length in feet: 3, 5, 7, or 10

Sanitation Listing is not available on unit installed with BRC(X)-PF accessory.



LM Male Loop

Wet Location Listing is not available.



SH75 Swivel Hanger

50 lb. maximum allowed if hung from junction box.



ORC (standard Optic Retainer Cable)



WG-PF-ILX-CB Wirequard

Provides protection for the lens.

Recommended for use in gymnasiums and similar facilities.

Sanitation Listing is not available on unit installed with wireguard accessory.



**Notes** 







