

# Core & Coil Replacement Kits

## Pulse Start Metal Halide

| Input<br>Volts                                          | Catalog<br>Number | Circuit<br>Type | Total<br>Weight<br>(Lbs) | Certifications                                                                    |                                                                                   |                                                                                   |
|---------------------------------------------------------|-------------------|-----------------|--------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|                                                         |                   |                 |                          |  |  |  |
| 35W/39W Lamp, ANSI Code M130 (Pulse Start)              |                   |                 |                          |                                                                                   |                                                                                   |                                                                                   |
| 120/277                                                 | 71A5081-001D      | HX-HPF          | 4.0                      | ✓                                                                                 | ✓                                                                                 | ✓                                                                                 |
| 50W Lamp, ANSI Code M110 or M148 (Pulse Start)          |                   |                 |                          |                                                                                   |                                                                                   |                                                                                   |
| 120/277                                                 | 71A5181-001D      | HX-HPF          | 4.9                      | ✓                                                                                 | ✓                                                                                 | ✓                                                                                 |
| 120/208/<br>240/277                                     | 71A5191-001D      | HX-HPF          | 4.9                      | ✓                                                                                 | ✓                                                                                 | ✓                                                                                 |
| 70W Lamp, ANSI Code M98 or M143 (Pulse Start)           |                   |                 |                          |                                                                                   |                                                                                   |                                                                                   |
| 120/208/<br>240/277                                     | 71A5292-001D      | HX-HPF          | 5.5                      | ✓                                                                                 | ✓                                                                                 | ✓                                                                                 |
| 100W Lamp, ANSI Code M90 or M140 (Pulse Start)          |                   |                 |                          |                                                                                   |                                                                                   |                                                                                   |
| 120/208/<br>240/277                                     | 71A5390-001D      | HX-HPF          | 5.6                      | ✓                                                                                 | ✓                                                                                 | ✓                                                                                 |
| 150W Lamp, ANSI Code M102 or M142 (Pulse Start)         |                   |                 |                          |                                                                                   |                                                                                   |                                                                                   |
| 120/208/<br>240/277                                     | 71A5492-001D      | HX-HPF          | 7.8                      | ✓                                                                                 | ✓                                                                                 | ✓                                                                                 |
| 175W Lamp, ANSI Code M137 or M152 (Pulse Start)         |                   |                 |                          |                                                                                   |                                                                                   |                                                                                   |
| 120/208/<br>240/277                                     | 71A5593-001D      | Super<br>CWA    | 8.0                      | ✓                                                                                 | ✓                                                                                 | ✓                                                                                 |
| 200W Lamp, ANSI Code M136 (Pulse Start)                 |                   |                 |                          |                                                                                   |                                                                                   |                                                                                   |
| 120/208/<br>240/277                                     | 71A5692-001D      | Super<br>CWA    | 8.6                      | ✓                                                                                 | ✓                                                                                 | ✓                                                                                 |
| 250W Lamp, ANSI Code M138 or M153 (Pulse Start)         |                   |                 |                          |                                                                                   |                                                                                   |                                                                                   |
| 120/208/<br>240/277                                     | 71A5792-001D      | Super<br>CWA    | 10.3                     | ✓                                                                                 | ✓                                                                                 | ✓                                                                                 |
| 120/208/<br>240/277/<br>400                             | 71A5752-001D      | Super<br>CWA    | 11.5                     | ✓                                                                                 | ✓                                                                                 | ✓                                                                                 |
| 320W Lamp, ANSI Code M132, M154 or M170 (Pulse Start)   |                   |                 |                          |                                                                                   |                                                                                   |                                                                                   |
| 120/208/<br>240/277                                     | 71A5892-001D      | Super<br>CWA    | 11.4                     | ✓                                                                                 | ✓                                                                                 | ✓                                                                                 |
| 480/120T                                                | 71A5842-001DT     | Super<br>CWA    | 11.3                     | ✓                                                                                 | ✓                                                                                 | ✓                                                                                 |
| 350W Lamp, ANSI Code M131 or M171 (Pulse Start)         |                   |                 |                          |                                                                                   |                                                                                   |                                                                                   |
| 120/208/<br>240/277                                     | 71A5993-001D      | Super<br>CWA    | 11.5                     | ✓                                                                                 | ✓                                                                                 | ✓                                                                                 |
| 400W Lamp, ANSI Code M135 or M155 or M172 (Pulse Start) |                   |                 |                          |                                                                                   |                                                                                   |                                                                                   |
| 120/208/<br>240/277                                     | 71A6092-001D      | Super<br>CWA    | 13.2                     | ✓                                                                                 | ✓                                                                                 | ✓                                                                                 |
| 480/120T                                                | 71A6042-001D      | Super<br>CWA    | 13.0                     | ✓                                                                                 | ✓                                                                                 | ✓                                                                                 |
| 120/208/<br>240/277/<br>480                             | 71A6052001D       | Super<br>CWA    | 16.0                     | ✓                                                                                 | ✓                                                                                 | ✓                                                                                 |

## Pulse Start Metal Halide

| Input Volts                              | Catalog Number | Circuit Type | Total Weight (Lbs) | Certifications                                                                      |                                                                                     |                                                                                     |
|------------------------------------------|----------------|--------------|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                          |                |              |                    |  |  |  |
| 750W Lamp, ANSI Code M149 (Pulse Start)  |                |              |                    |                                                                                     |                                                                                     |                                                                                     |
| 277/347/480/120T                         | 71A64F2-001D   | Super CWA    | 19.0               | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   |
| 120/208/240/277/480                      | 71A6452-001D   | Super CWA    | 20.2               | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   |
| 1000W Lamp, ANSI Code M141 (Pulse Start) |                |              |                    |                                                                                     |                                                                                     |                                                                                     |
| 120/208/240/277                          | 71A6593-001    | Super CWA    | 23.1               | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   |
| 120/208/240/277/480                      | 71A6553-001    | Super CWA    | 24.0               | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   |
| 347/480/120T                             | 71A65F3-001    | Super CWA    | 22.0               | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   |

## Metal Halide

| Input<br>Volts                    | Catalog<br>Number | Circuit<br>Type | Total<br>Weight<br>(Lbs) | Certifications                                                                       |                                                                                      |                                                                                      |
|-----------------------------------|-------------------|-----------------|--------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|                                   |                   |                 |                          |  |  |  |
| 175/150W Lamp, ANSI Code M57/M107 |                   |                 |                          |                                                                                      |                                                                                      |                                                                                      |
| 120/208/<br>240/277               | 71A5570-001D      | CWA             | 7.5                      | ✓                                                                                    | ✓                                                                                    | ✓                                                                                    |
| 480                               | 71A5540-001D      | CWA             | 7.5                      | ✓                                                                                    | ✓                                                                                    | ✓                                                                                    |
| 250W Lamp, ANSI Code M58          |                   |                 |                          |                                                                                      |                                                                                      |                                                                                      |
| 120/208/<br>240/277               | 71A5770-001D      | CWA 4x4<br>Core | 10.0                     | ✓                                                                                    | ✓                                                                                    | ✓                                                                                    |
| 120/208/<br>240/277/<br>480       | 71A5750-001D      |                 | 10.3                     | ✓                                                                                    | ✓                                                                                    | ✓                                                                                    |
| 120/208/<br>240/277               | 71A5771-001D      | CWA 3x3<br>Core | 10.0                     | ✓                                                                                    | ✓                                                                                    | ✓                                                                                    |
| 480                               | 71A5741-001D      |                 | 10.0                     | ✓                                                                                    | ✓                                                                                    | ✓                                                                                    |
| 400W Lamp, ANSI Code M59          |                   |                 |                          |                                                                                      |                                                                                      |                                                                                      |
| 120/208/<br>240/277               | 71A6071-001D      | CWA             | 12.0                     | ✓                                                                                    | ✓                                                                                    | ✓                                                                                    |
| 120/208/<br>240/277/<br>480       | 71A6051-001D      | CWA             | 13.1                     | ✓                                                                                    | ✓                                                                                    | ✓                                                                                    |
| 480/120T                          | 71A6041-001D      | CWA             | 12.7                     | ✓                                                                                    | ✓                                                                                    | ✓                                                                                    |
| 1000W Lamp, ANSI Code M47         |                   |                 |                          |                                                                                      |                                                                                      |                                                                                      |
| 120/208/<br>240/277               | 71A6572-001       | CWA             | 21.4                     | ✓                                                                                    | ✓                                                                                    | ✓                                                                                    |
| 120/208/<br>240/277/<br>480       | 71A6552-001       | CWA             | 26.0                     | ✓                                                                                    | ✓                                                                                    | ✓                                                                                    |
| 480/120T                          | 71A6542-001       | CWA             | 21.3                     | ✓                                                                                    | ✓                                                                                    | ✓                                                                                    |
| 1500W Lamp, ANSI Code M48         |                   |                 |                          |                                                                                      |                                                                                      |                                                                                      |
| 120/208/<br>240/277               | 71A6772-001       | CWA             | 31.6                     | ✓                                                                                    | ✓                                                                                    | ✓                                                                                    |
| 480/120T                          | 71A6742-001       | CWA             | 31.8                     | ✓                                                                                    | ✓                                                                                    | ✓                                                                                    |

## Ordering Information

We have developed the industry's broadest selection of HID ballasts. More than 3000 stocking distributors nationwide. For information on the distributor best able to serve your needs, please call 800-372-3331.

## Philips Advance HID Ballast Part Number Explanation

|     |    |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
|-----|----|---|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 71A | 60 | 9 | 2 | -500DAEE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |
|     |    |   |   | <div>Suffix Code*<br/>(as applicable)<br/><br/>-001DB ballast replacement kit with dry capacitor and integral ignitor<br/>-001D ballast replacement kit with dry film capacitor<br/>-001 ballast replacement kit with oil filled capacitor<br/>-500D core &amp; coil ballast with dry film capacitor<br/>-500 core &amp; coil ballast with oil filled capacitor<br/>-510D core &amp; coil ballast with welded bracket and dry film capacitor<br/>-510 core &amp; coil ballast with welded bracket and oil filled capacitor<br/>-540D core &amp; coil ballast with welded angle bracket and dry film capacitor<br/>-600 core &amp; coil ballast (no capacitor)<br/>-610 core &amp; coil ballast with welded bracket (no capacitor)<br/><br/>* Add additional feature codes to the end of suffix where applicable.<br/>i.e. -B = Integral Ignitor, -P = Thermally Protected, -J = J-Box Mounting,<br/>-A = Aluminum Coil, -ML = "NOM" (with capacitor), -T = 120V Tap<br/>-EE = EISA Compliant Ballast</div> |  |
|     |    |   |   | Design Code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
|     |    |   |   | <div><div>60 Hz Voltages</div><div>50 Hz Voltages</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
|     |    |   |   | <div><div>Input Voltage Code</div><div><div>0 = 120V</div><div>1 = 208V</div><div>2 = 240V</div><div>3 = 277V</div><div>4 = 480V</div><div>5 = 120/240V or 120/208/240/277/480V</div><div>6 = 240/480V</div><div>7 = 120/208/240/277V</div><div>8 = 120/277V</div><div>9 = 120/208/240/277V</div></div><div><div>A = 120/277/347V</div><div>B = 347V</div><div>C = 120/347V</div><div>D = 120/240/347V</div><div>E = 120/208/240V or 208/240V</div><div>F = 277/480V, 277/347V, 277/347/480V or 347/480V</div><div>H = 127/220V</div><div>J = 220V or 220/240V</div><div>Y = 100V, 100/200V or 230/400/480</div></div><div><div>M = 100/200V</div><div>N = 120/220-240V</div><div>R = 220/240V</div></div></div>                                                                                                                                                                                                                                                                                           |  |
|     |    |   |   | Lamp Type/Wattage/Ballast Circuit Code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |
|     |    |   |   | <div><div>Ballast Type</div><div><div>71A = Core and Coil Ballast</div><div>72C = F-Can Ballast</div><div>73B = Encapsulated Core and Coil Ballast</div><div>74P = Postline Ballast</div><div>77L = Val-U-Pak Plus Replacement Ballast kit (includes lamp)</div><div>78E = Indoor Enclosed Ballast</div><div>79W = Outdoor Weatherproof Ballast</div></div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |

# 60 Hz Core & Coil Ballasts

## Metal Halide



| Input Volts                                                                                                | Catalog <sup>†</sup> Number     | Circuit Type | Input Watts | Max* Input Current  | Nom Open Circuit Voltage | Fuse Rating (Amps) | Wiring Dia | Dimensions |     |     | Non-PCB Capacitor (Page 7-37 & 7-38) |          |                    |            | Total Weight (lbs) | Ignitor †† (Page 7-39 to 7-43) |                       | U.L. Bench Top Rise Code 1029 (pg 7-3) |     |
|------------------------------------------------------------------------------------------------------------|---------------------------------|--------------|-------------|---------------------|--------------------------|--------------------|------------|------------|-----|-----|--------------------------------------|----------|--------------------|------------|--------------------|--------------------------------|-----------------------|----------------------------------------|-----|
|                                                                                                            |                                 |              |             |                     |                          |                    |            |            |     |     | Mfd                                  | Min Volt | Cap Catalog Number | Dry or Oil |                    | Part Number                    | Max Dist To Lamp (ft) |                                        |     |
|                                                                                                            |                                 |              |             |                     |                          |                    |            | Fig        | A   | B   |                                      |          |                    |            |                    |                                |                       |                                        |     |
| 400W Lamp, ANSI Code M135 or M155 or M172 (Pulse Start), or 330W Lamp, ANSI Code C185 (Philips AllStart)** |                                 |              |             |                     |                          |                    |            |            |     |     |                                      |          |                    |            |                    |                                |                       |                                        |     |
| 480/120T                                                                                                   | 71A6042-500DTAEE                | Super CWA    | 445         | 0.9                 | 260                      | 3                  | M          | 2          | 2.1 | 4.1 | 26                                   | 330      | 7C260P33R          | D          | 12.0               | LI533-H4                       | 2                     | D                                      | Ⓔ   |
| 120/208/240/277/480                                                                                        | 71A6052-500DAEE<br>71A6052-001D | Super CWA    | 454         | 3.8/2.2/1.9/1.7/1.0 | 275                      | 10/7/5/5/3         | M          | 2          | 2.2 | 4.3 | 26                                   | 330      | 7C260P33R          | D          | 12.5               | LI533-H4                       | 2                     | B/D/D/B/D                              | Ⓔ   |
| 120/208/240/277                                                                                            | 71A6092-500DAEE                 | Super CWA    | 452         | 3.8/2.2/1.9/1.7     | 275                      | 10/7/5/5           | M          | 2          | 2.2 | 4.1 | 26                                   | 330      | 7C260P33R          | D          | 12.2               | LI533-H4                       | 2                     | D/D/D/D/D                              | Ⓔ   |
| 480/120T                                                                                                   | 71A6042-001D                    | Super CWA    | 452         | 1.0                 | 270                      | 3                  | M          | 2          | 2.1 | 3.9 | 26                                   | 330      | 7C260P33R          | D          | 14.5               | LI533-H4                       | 2                     | D                                      |     |
| 120/208/240/277                                                                                            | 71A6092-500DMLA<br>71A6092-001D | Super CWA    | 452         | 3.8/2.2/1.9/1.7     | 270                      | 10/7/5/5           | M          | 2          | 2.1 | 4.1 | 26                                   | 330      | 7C260P33R          | D          | 11.0               | LI533-H4                       | 2                     | C/D/D/D/D                              | NOM |
| 120/277/347                                                                                                | 71A60A2-500DA                   | Super CWA    | 452         | 3.8/1.7/1.4         | 270                      | 10/5/4             | M          | 2          | 2.0 | 3.8 | 26                                   | 330      | 7C260P33R          | D          | 11.0               | LI533-H4                       | 2                     | C D/D                                  | 🍁   |
| 450W Lamp, ANSI Code M144 (Pulse Start)                                                                    |                                 |              |             |                     |                          |                    |            |            |     |     |                                      |          |                    |            |                    |                                |                       |                                        |     |
| 480/120T                                                                                                   | 71A6343-500DTEE                 | Super CWA    | 514         | 1.1                 | 267                      | 3                  | M          | 2          | 2.4 | 4.2 | 26.5                                 | 360      | 7C265P40R          | D          | 14.0               | LI533-H4                       | 5                     | D                                      | Ⓔ   |
| 120/208/240/277                                                                                            | 71A6393-500DEE                  | Super CWA    | 508         | 4.3/2.5/2.2/1.9     | 257                      | 10/8/5/5           | M          | 2          | 2.3 | 3.9 | 26.5                                 | 360      | 7C265P40R          | D          | 13.5               | LI533-H4                       | 5                     | C/C/C/C                                | Ⓔ   |

† Ordering information:

Replacement/retrofit ballast kits – indicated by bold type and -001D or -001 suffix.

Refer to pages 7-4 to 7-9 for more information on replacement kits.

Original equipment ballasts – typically ordered with capacitor (as shown).

-500D includes core & coil with dry-film capacitor.

-500 includes core & coil with oil-filled capacitor (required for higher wattage ballasts).

May also be available with welded bracket, and/or without capacitor:

-510D includes core & coil with welded bracket and dry-film capacitor.

-510 includes core & coil with welded bracket and oil-filled capacitor.

-600 core & coil only (no capacitor).

-610 core & coil with welded bracket (no capacitor).

†† Each ballast requiring an ignitor is furnished standard with a short-range ignitor model shown for use within fixtures. Long-range ignitors are available separately if required. See pages 7-39 to 7-43 for additional information.

• **Maximum Input Current** – For HX and R circuits, value is the highest of starting, operating or open circuit current. For CWA, SCWA and CWI circuits, value is the operating current.

\*\* The 330 Watt Lamp, ANSI Code C185 is an energy saving, screw in replacement lamp for the M59 or M135 and M155 PS lamps that may reduce input watts up to 18% on existing ballasts.

**NOM** Certified ballast available for Mexican market. Add "ML" to suffix (example: -500DML). Ballasts are branded Philips.

🍁 Canadian replacement/retrofit ballast kit indicated by bold type. Refer to page 7-8.

❖ Includes auto-reset thermal protection.

◆ Compact 3 x 4 core design.

Ⓔ Meets EISA 88% efficiency requirements.

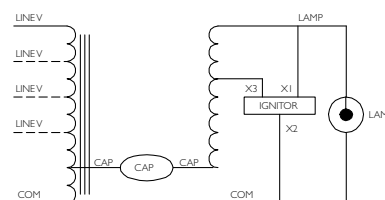


Fig. M

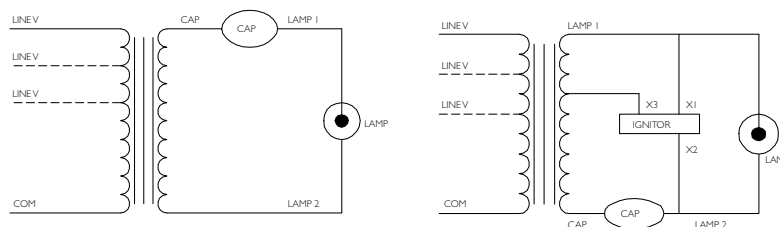


Fig. P

Fig. V