

# HIGH INTENSITY DISCHARGE

## HIGH PRESSURE SODIUM

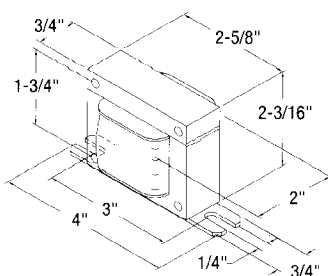
[MINI CUBE CORE & COIL]

| Lamp Watts | INPUT              |              |               |    |                      |                   | ELECTRICAL    |                   |                  |                          |                       |
|------------|--------------------|--------------|---------------|----|----------------------|-------------------|---------------|-------------------|------------------|--------------------------|-----------------------|
|            | A.N.S.I. Lamp Type | Circuit Type | Input Voltage | Hz | Max.* Current (Amps) | Total Input Watts | Model Number  | Min. Start Temp.* | Insulation Class | Nominal Open Circ. Volt. | UL Benchtop Rise Code |
| 35         | S76                | R-NPF        | 120V          | 60 | 1.1                  | 43                | BLU0035A05100 | -40°C             | H                | 120V                     | E                     |
|            | S76                | R-HPF        | 120V          | 60 | 0.6                  | 43                | BLU0035A05101 | -40°C             | H                | 120V                     | E                     |
|            | S76                | R-NPF        | 120V          | 60 | 1.1                  | 43                | BLU0035A05110 | -40°C             | H                | 120V                     | E                     |
|            | S76                | R-NPF        | 120V          | 60 | 1.1                  | 43                | BLU0035A05130 | -40°C             | H                | 120V                     | E                     |
|            | S76                | R-NPF        | 120V          | 60 | 1.1                  | 43                | BLU0035A05200 | -40°C             | H                | 120V                     | E                     |
|            | S76                | R-HPF        | 120V          | 60 | 0.6                  | 43                | BLU0035A05201 | -40°C             | H                | 120V                     | E                     |
|            | S76                | R-HPF        | 120V          | 60 | 0.6                  | 43                | BLU0035A05202 | -40°C             | H                | 120V                     | E                     |
|            | S76                | R-NPF        | 120V          | 60 | 1.1                  | 43                | BLU0035A05210 | -40°C             | H                | 120V                     | E                     |
| 50         | S68                | R-NPF        | 120V          | 60 | 1.5                  | 60                | BLU0050A05100 | -40°C             | H                | 120V                     | C                     |
|            | S68                | R-HPF        | 120V          | 60 | 0.9                  | 60                | BLU0050A05101 | -40°C             | H                | 120V                     | C                     |
|            | S68                | R-NPF        | 120V          | 60 | 1.5                  | 60                | BLU0050A05110 | -40°C             | H                | 120V                     | C                     |
|            | S68                | R-NPF        | 120V          | 60 | 1.5                  | 60                | BLU0050A05130 | -40°C             | H                | 120V                     | C                     |
|            | S68                | R-NPF        | 120V          | 60 | 1.5                  | 60                | BLU0050A05140 | -40°C             | H                | 120V                     | C                     |
|            | S68                | R-NPF        | 120V          | 60 | 1.5                  | 60                | BLU0050A05200 | -40°C             | H                | 120V                     | C                     |
|            | S68                | R-HPF        | 120V          | 60 | 0.9                  | 60                | BLU0050A05201 | -40°C             | H                | 120V                     | C                     |
|            | S68                | R-HPF        | 120V          | 60 | 0.9                  | 60                | BLU0050A05202 | -40°C             | H                | 120V                     | C                     |
|            | S68                | R-NPF        | 120V          | 60 | 1.5                  | 60                | BLU0050A05210 | -40°C             | H                | 120V                     | C                     |
|            | S68                | R-HPF        | 120V          | 60 | 0.9                  | 60                | BLU0050A05211 | -40°C             | H                | 120V                     | C                     |
|            | S68                | R-HPF        | 120V          | 60 | 0.9                  | 60                | BLU0050A05212 | -40°C             | H                | 120V                     | C                     |
|            | S68                | R-HPF        | 120V          | 60 | 0.9                  | 60                | BLU0050A05212 | -40°C             | H                | 120V                     | C                     |

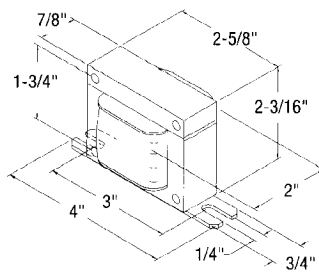
[CORE & COIL]

| Lamp Watts | INPUT              |                 |               |    |                      |                   | ELECTRICAL    |                   |                  |                          |                       |
|------------|--------------------|-----------------|---------------|----|----------------------|-------------------|---------------|-------------------|------------------|--------------------------|-----------------------|
|            | A.N.S.I. Lamp Type | Circuit Type*** | Input Voltage | Hz | Max.* Current (Amps) | Total Input Watts | Model Number  | Min. Start Temp.* | Insulation Class | Nominal Open Circ. Volt. | UL Benchtop Rise Code |
| 35         | S76                | R-NPF           | 120V          | 60 | 1.1                  | 43                | BLU0035A04100 | -40°C             | H                | 120V                     | A                     |
|            | S76                | R-HPF           | 120V          | 60 | 0.6                  | 43                | BLU0035A04101 | -40°C             | H                | 120V                     | A                     |
|            | S76                | R-NPF           | 120V          | 60 | 1.1                  | 43                | BLU0035A04110 | -40°C             | H                | 120V                     | A                     |
|            | S76                | R-NPF           | 120V          | 60 | 1.1                  | 43                | BLU0035A04200 | -40°C             | H                | 120V                     | A                     |
|            | S76                | R-HPF           | 120V          | 60 | 0.6                  | 43                | BLU0035A04201 | -40°C             | H                | 120V                     | A                     |
|            | S76                | R-NPF           | 120V          | 60 | 1.1                  | 43                | BLU0035A04210 | -40°C             | H                | 120V                     | A                     |
|            | S76                | R-HPF           | 120V          | 60 | 0.6                  | 43                | BLU0035A04211 | -40°C             | H                | 120V                     | A                     |
| 50         | S68                | R-NPF           | 120V          | 60 | 1.5                  | 60                | BLU0050A04100 | -40°C             | H                | 120V                     | A                     |
|            | S68                | R-HPF           | 120V          | 60 | 0.9                  | 60                | BLU0050A04101 | -40°C             | H                | 120V                     | A                     |
|            | S68                | R-NPF           | 120V          | 60 | 1.5                  | 60                | BLU0050A04110 | -40°C             | H                | 120V                     | A                     |
|            | S68                | R-NPF           | 120V          | 60 | 1.5                  | 60                | BLU0050A04130 | -40°C             | H                | 120V                     | A                     |
|            | S68                | R-NPF           | 120V          | 60 | 1.5                  | 60                | BLU0050A04140 | -40°C             | H                | 120V                     | A                     |
|            | S68                | R-NPF           | 120V          | 60 | 1.5                  | 60                | BLU0050A04200 | -40°C             | H                | 120V                     | A                     |
|            | S68                | R-HPF           | 120V          | 60 | 0.9                  | 60                | BLU0050A04201 | -40°C             | H                | 120V                     | A                     |
|            | S68                | R-NPF           | 120V          | 60 | 1.5                  | 60                | BLU0050A04210 | -40°C             | H                | 120V                     | A                     |

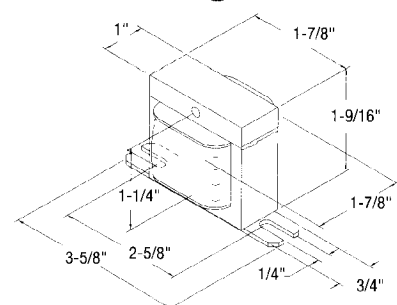
Case Style 40A<sup>††</sup>



Case Style 40B<sup>††</sup>



Case Style 41A



| M E C H A N I C A L |            |          |                |                |                                                                                        | C A P A C I T O R      |              |            |        | I G N I T O R                     |                    |        |
|---------------------|------------|----------|----------------|----------------|----------------------------------------------------------------------------------------|------------------------|--------------|------------|--------|-----------------------------------|--------------------|--------|
| Model Number        | Case Style | Brackets | Wiring Diagram | Ballast Weight | Approvals                                                                              | Capacitor Model Number | Micro Farads | Min. Volts | Figure | Ignitor Model Number <sup>1</sup> | Max. Dist. to Lamp | Figure |
| BLU0035A05100       | 41A        | None     | 300            | 0.9 lbs.       | FU    | \                      | \            | \          | \      | 3140002                           | 5 ft.              | 11     |
| BLU0035A05101       | 41A        | None     | 300            | 0.9 lbs.       | FU    | 3020226                | 15           | 120        | 14     | 3140002                           | 5 ft.              | 11     |
| BLU0035A05110       | 41A        | None     | 300            | 0.9 lbs.       | FU    | \                      | \            | \          | \      | 3140003                           | 5 ft.              | 13     |
| BLU0035A05130       | 41A        | None     | 300            | 0.9 lbs.       | FU    | \                      | \            | \          | \      | \                                 | \                  | \      |
| BLU0035A05200       | 41A        | Strap    | 300            | 0.9 lbs.       | FU    | \                      | \            | \          | \      | 3140002                           | 5 ft.              | 11     |
| BLU0035A05201       | 41A        | Strap    | 300            | 0.9 lbs.       | FU    | 3020226                | 15           | 120        | 14     | 3140002                           | 5 ft.              | 11     |
| BLU0035A05202       | 41A        | Strap    | 300            | 0.9 lbs.       | FU    | 3020120                | 15           | 120        | 15E    | 3140002                           | 5 ft.              | 11     |
| BLU0035A05210       | 41A        | Strap    | 300            | 0.9 lbs.       | FU    | \                      | \            | \          | \      | 3140003                           | 5 ft.              | 13     |
| BLU0035A05212       | 41A        | Strap    | 300            | 0.9 lbs.       | FU    | 3020120                | 15           | 120        | 15E    | 3140003                           | 5 ft.              | 13     |
| BLU0050A05100       | 41B        | None     | 300            | 1 lb.          | FU    | \                      | \            | \          | \      | 3140002                           | 5 ft.              | 11     |
| BLU0050A05101       | 41B        | None     | 300            | 1 lb.          | FU    | 3020227                | 20           | 120        | 14     | 3140002                           | 5 ft.              | 11     |
| BLU0050A05110       | 41B        | None     | 300            | 1 lb.          | FU    | \                      | \            | \          | \      | 3140003                           | 5 ft.              | 13     |
| BLU0050A05130       | 41B        | None     | 300            | 1 lb.          | FU    | \                      | \            | \          | \      | \                                 | \                  | \      |
| BLU0050A05140       | 41B        | None     | 300            | 1 lb.          | FU    | \                      | \            | \          | \      | 3140001                           | 5 ft.              | 12     |
| BLU0050A05200       | 41B        | Strap    | 300            | 1 lb.          | FU    | \                      | \            | \          | \      | 3140002                           | 5 ft.              | 11     |
| BLU0050A05201       | 41B        | Strap    | 300            | 1 lb.          | FU    | 3020227                | 20           | 120        | 14     | 3140002                           | 5 ft.              | 11     |
| BLU0050A05202       | 41B        | Strap    | 300            | 1 lb.          | FU   | 3020046                | 20           | 120        | 15F    | 3140002                           | 5 ft.              | 11     |
| BLU0050A05210       | 41B        | Strap    | 300            | 1 lb.          | FU  | \                      | \            | \          | \      | 3140003                           | 5 ft.              | 13     |
| BLU0050A05211       | 41B        | Strap    | 300            | 1 lb.          | FU  | 3020227                | 20           | 120        | 14     | 3140003                           | 5 ft.              | 13     |
| BLU0050A05212       | 41B        | Strap    | 300            | 1 lb.          | FU  | 3020046                | 20           | 120        | 15F    | 3140003                           | 5 ft.              | 13     |

| M E C H A N I C A L |            |          |                |                |                                                                                        | C A P A C I T O R      |              |            |        | I G N I T O R                     |                    |        |
|---------------------|------------|----------|----------------|----------------|----------------------------------------------------------------------------------------|------------------------|--------------|------------|--------|-----------------------------------|--------------------|--------|
| Model Number        | Case Style | Brackets | Wiring Diagram | Ballast Weight | Approvals                                                                              | Capacitor Model Number | Micro Farads | Min. Volts | Figure | Ignitor Model Number <sup>1</sup> | Max. Dist. to Lamp | Figure |
| BLU0035A04100       | 40A        | None     | 300            | 1.4 lbs.       | FU  | \                      | \            | \          | \      | 3140002                           | 5 ft.              | 11     |
| BLU0035A04101       | 40A        | None     | 300            | 1.4 lbs.       | FU  | 3020226                | 15           | 120        | 14     | 3140002                           | 5 ft.              | 11     |
| BLU0035A04110       | 40A        | None     | 300            | 1.4 lbs.       | FU  | \                      | \            | \          | \      | 3140003                           | 5 ft.              | 13     |
| BLU0035A04200       | 40A        | Strap    | 300            | 1.4 lbs.       | FU  | \                      | \            | \          | \      | 3140002                           | 5 ft.              | 11     |
| BLU0035A04201       | 40A        | Strap    | 300            | 1.4 lbs.       | FU  | 3020226                | 15           | 120        | 14     | 3140002                           | 5 ft.              | 11     |
| BLU0035A04210       | 40A        | Strap    | 300            | 1.4 lbs.       | FU  | \                      | \            | \          | \      | 3140003                           | 5 ft.              | 13     |
| BLU0035A04211       | 40A        | Strap    | 300            | 1.4 lbs.       | FU  | 3020226                | 15           | 120        | 14     | 3140003                           | 5 ft.              | 13     |
| BLU0050A04100       | 40B        | None     | 300            | 1.5 lbs.       | FU  | \                      | \            | \          | \      | 3140002                           | 5 ft.              | 11     |
| BLU0050A04101       | 40B        | None     | 300            | 1.5 lbs.       | FU  | 3020227                | 20           | 120        | 14     | 3140002                           | 5 ft.              | 11     |
| BLU0050A04110       | 40B        | None     | 300            | 1.5 lbs.       | FU  | \                      | \            | \          | \      | 3140003                           | 5 ft.              | 13     |
| BLU0050A04130       | 40B        | None     | 300            | 1.5 lbs.       | FU  | \                      | \            | \          | \      | \                                 | \                  | \      |
| BLU0050A04140       | 40B        | None     | 300            | 1.5 lbs.       | FU  | \                      | \            | \          | \      | 3140001                           | 5 ft.              | 12     |
| BLU0050A04200       | 40B        | Strap    | 300            | 1.5 lbs.       | FU  | \                      | \            | \          | \      | 3140002                           | 5 ft.              | 11     |
| BLU0050A04201       | 40B        | Strap    | 300            | 1.5 lbs.       | FU  | 3020227                | 20           | 120        | 14     | 3140002                           | 5 ft.              | 11     |
| BLU0050A04210       | 40B        | Strap    | 300            | 1.5 lbs.       | FU  | \                      | \            | \          | \      | 3140003                           | 5 ft.              | 13     |

[Notes]: \* For HPF R and HX circuits, max current is the highest of starting, operating or open circuit current.  
For CWA circuits, max current is operating current.

\*\* Capacitors and ignitors are included where shown. Capacitors and ignitors may be purchased separately. See pages 173 and 174.

<sup>1</sup> 3140003, 3140004, 3140005, 3140006: Ignitor comes with mounting clip.

<sup>†</sup> 4 holes cleared for #10 thru bolts.

• -40°C = -40°F

Case style drawings 40A, 40B, 40E, 41A, and 41B show optional brackets.

