MERCURY

(60 Hz., MINIMUM STARTING TEMPERATURE -20°F OR -30°C)





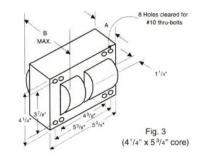
					Nom			n;	mensio					Capaci 58-159				U.L. Bench
Input Volts	Catalog [†] Number	Circuit Type	Watts Input	Max* Input Current	Open Circuit	Fuse Rating (Amps)	Wiring Dia	, u	IIIEIISIU	IIIS		Min	Dry	Film	Oil F	illed	Total Weight (lbs)	Top Rise Code
	电压式表				Voltage	(Allips)		Fig	A	В	Mfd	Volt	Dia (in)	Ht (in)	Oval (in)	Ht (in)	(130)	1029 (Pg 115)
400 Wa	tt Lamp, ANSI	Code H3	3															
480	71A4041 71A4041-001D	CWA	454	1.0	245	5	Α	2	1.7	3.2	35	240	1.75	5.15	-	_	10.0	D
480/120T	71A4041-T	CWA	454	1.0	245	5	Α	2	1.7	3.2	35	240	1.75	5.15	-	_	10.0	D
120/208/ 240/277	71A4091	CWA	454	3.9/2.2/ 2.0/1.7	245	10/8/ 5/5	Α	2	1.8	3.3	35	240	1.75	5.15	_	_	10.5	D/C/ C/B
120/208/ 240/277	71A4071-001D	CWA	454	3.9/2.2/ 2.0/1.7	245	10/8/ 5/5	Α	2	1.8	3.3	35	240	1.75	5.15	_	_	10.5	D/C/ C/B
120/ 240/347	71A40D1	CWA	454	3.9/ 2.0/1.3	245	10/ 5/4	Α	2	1.8	3.3	35	240	1.75	5.15	_	-	10.5	A/ A/A
120/ 240/347	71A40D1-001D	CWA	454	3.9/ 2.0/1.3	245	10/ 5/4	A	2	1.8	3.3	35	240	1.75	5.15	_	-	10.5	A/ A/A
Two 400	0 Watt Lamps,	ANSI Co	de H33	(2 Lamp	s in Ser	ies)												
120	71A4300-001	CWI	880	7.5	495	20	D	3	2.9	4.4	16	525	_	_	1.75	3.90	20.3	E
277	71A4330-001	CWI	880	3.3	495	10	D	3	2.9	4.4	16	525	_	_	1.75	3.90	20.3	D
480	71A4340-001	CWI	880	1.9	495	5	D	3	2.9	4.4	16	525	_	_	1.75	3.90	20.3	E
1000 W	att Lamp, ANS	I Code H	136						-									
480	71A5040-001	CWA	1080	2.3	425	10	Α	8	2.9	4.8	24	450	_	_	1.75	3.90	25.0	Α
120/208/ 240/277	71A5090	CWA	1080	9.8/5.6/ 4.9/4.3	425	20/15/ 10/10	Α	8	2.9	4.8	24	450	-	-	1.75	3.90	25.0	C/C/ B/C
120/208/ 240/277	71A5070-001	CWA	1075	9.8/5.6/ 4.9/4.3	425	20/15/ 10/10	Α	8	2.9	4.8	24	450	_	_	1.75	3.90	25.0	C/C/ B/C

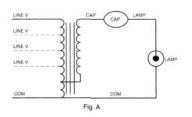
+ Ordering information:

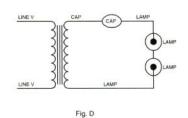
Replacement/retrofit ballast kits indicated by **bold type** with suffix **-001** or **-001D**. Refer to pages 117-120.

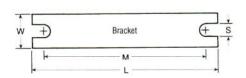
Original equipment ballasts - add proper suffix to catalog number:

- -500D includes core & coil with dry-film capacitor
- -510D includes core & coil with welded bracket and dry-film capacitor
- -500 includes core & coil with oil-filled 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)
- · For CWA and CWI circuits, figure is operating current.
- Canadian replacement/retrofit ballast kit indicated by **bold type**. Refer to pages 121-122.









WELDED BRACKET DIMENSIONS

Ballast Dimensions Fig	ι	W	M	s		
2	6.5	1.25	5.75	0.28		
3, 8	7.8	2.75	6.13	0.25		



HIGH INTENSITY DISCHARGE BALLASTS

Encapsulated Core & Coil

Where quiet performance is required, the standard open core & coil ballasts are encapsulated (potted) in a cube-shaped steel can utilizing Class H (180°C) polyester compound. These ballasts carry a Class A noise rating up through 175 watts and Class B for 250 and 400 watts. As with the open core & coil, the capacitor (and ignitor where included) are mounted separately within the fixture.

Fluorescent Can (F-Can)

For indoor commercial applications of HID lighting such as offices, schools and retail stores, ballast noise must be minimized. Ballasts for these fixtures are most often encased and potted in fluorescent ballast type cans and utilize Class A (90°C) asphalt insulating materials (the same as used in fluorescent lamp ballasts).

The Advance line of F-can ballasts comes in two dual-voltage configurations: 120/277 volt for the US market, and 120/347 volt for the Canadian market. Each unit has built-in, automatically resetting, thermal protectors which disconnect the ballast from the power line in the event of overheating. All units are high power factor and include the capacitor within the can. All models for high pressure sodium and lowwattage metal halide lamps also include the ignitor in the can.

Indoor Enclosed

These units are designed for use indoors where the ballast must be mounted remotely from the luminaire. They are most typically used in factories where the luminaire may be mounted in a high-bay where very high ambient temperatures may be experienced. In these instances, the remotely-mounted ballast operates cooler, subsequently providing longer life because it is away from both the heat of the ceiling ambient and lamp heat within the fixture.

The case contains the core & coil potted in a Class H (180°C) heat-dissipating resin. The capacitor(s) and ignitor are contained within a separate compartment. Knockouts in both ends of the case facilitate hook-up in the most convenient manner. Wall mounting is accomplished through flanges on the top and bottom of the case. The ballast is a UL Listed product.

Outdoor Weatherproof

Weatherproof ballasts are designed for remote, pole-mounting outdoor applications under all weather conditions. They may also be placed inside of a transformer pole base, but care must be taken to avoid areas prone to flooding because weatherproof ballasts are not water-submersible.

The core & coil with its capacitor and ignitor (where required) are firmly mounted to the heat-sink base. An aluminum cover is placed over the core-&-coil assembly and is bolted with a weather-tight gasket to the base. An integral 1" threaded nipple with locknut facilities hook-up to electrical conduit or to the mounting bracket when used on a pole. The weatherproof ballast may also be placed nipple-up, with a drip loop in the leads, inside a pole base.

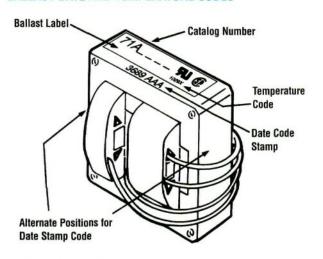
Postline

Lantern-type fixtures mounted on slender poles often require ballasts which will fit into these poles. Special, elongated core & coil ballasts are potted in resin in cylindrical cans having a 2.55" outside diameter. All include leads necessary for direct connection to a photocell.

The capacitor and ignitor (where required) are included within this can. A ½" threaded nipple is used for vertical mounting, and leads extend from both ends of the can for ease of installation. The input leads to the ballast also provide for proper connection to the photocell if such is included within the fixture.

To help prevent overheating, one to three feet of air space should be allowed in the pole above the ballast, and the ballast should be positioned against the post interior wall to provide a heat-sink. All units rated 100W and above now include a mounting kit consisting of an 18" chain to hang the ballast within the pole and a spring clip to force the ballast's cylindrical can to make line contact with the pole's interior surface to maximize heat transfer, thus prolonging the ballast life.

BALLAST DATE AND TEMPERATURE CODES



ADVANCE ® HID Core & Coil ballasts are date stamped on either the top surface or the side surface of the ballast core. The four-digit number represents the *week* and *year* of manufacture. The first two numbers indicate the week and the last two indicate the year the ballast was manufactured. The example shows a ballast manufactured during the 36th week of 1989. The three letters are an Advance factory code.

The ballast's UL Bench Top Rise Temperature Code is shown on the label (see below).

UL BENCH TOP RISE TEMPERATURE CODE

To facilitate UL inspection, each ballast's UL Bench Top Rise Temperature Code is shown on the Advance Core & Coil ballast label as 1029X, where 1029 is the UL Standard for HID Ballasts, and the X is the temperature code: A, B, C, etc. If a fixture is UL listed for 1029C, then automatically, all ballasts with an A, B, or C temperature classification are acceptable for use within that same fixture.

UL Bench Top Rise Letter Code	Temperature Range for Class H (180°C) Ballasts					
Α	less than 75°C					
В	75°C < 80°C					
С	80°C < 85°C					
D	85°C < 90°C					
E	90°C < 95°C					
F	95°C < 100°C					
etc.	etc.					

CERTIFICATIONS



Indicates ballast is listed by Underwriters Laboratories, Inc. in accordance with UL 1029 Standard for HID Ballasts. Each ballast is marked appropriately.



Indicates ballast is component recognized by Underwriters Laboratories, Inc. in accordance with UL 1029 Standard for HID Ballasts. Each ballast is marked appropriately.



Indicates ballast is certified by Canadian Standards Association in accordance with CAN/CSA-22.2 No. 74-92.Each ballast is marked appropriately.



All HID Ballasts are designed and manufactured in accordance with the American National Standards Institute Standard for HID Ballasts, ANSI C82.4.

ORDERING INFORMATION

How to Order

Advance Transformer has 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.

Advance HID Ballast Part Number Explanation

71A	60	9	1	-500D					
				-001 ballast re -500D core & co -500 core & co -510D core & co -510 core & co -540D core & co -600 core & co -610 core & co * Add additional fea i.eB = Integral Ig	placement kit with dry film capacitor placement kit with oil filled capacitor ill ballast with dry film capacitor ill ballast with oil filled capacitor ill ballast with welded bracket and dry film ballast with welded bracket and oil filled bill ballast with welded angle bracket and dill ballast (no capacitor) ill ballast with welded bracket (no capacit	I capacitor ry film capacitor or) licable.			
				Design Co					
		INPUT VOLTAGI CODE	E 1: 2: 3: 4: 5: 6: 7: 8:	60 Hz Volta = 120V = 208V = 240V = 277V = 480V = 120/240V = 240/480V = 120/208/240/277V = 120/277V = 120/208/240/277V	A = 102/277/347V B = 347V C = 120/347V D = 120/240/347V E = 120/208/240V or 208/240V F = 277/480V, 277/347V, 277/347/480 H = 127/220V J = 220V or 220/240V Y = 100/200V	50 Hz Voltages M = 100/200 N = 120/220-24 R = 220/240 80V or 347/480V			
			L	amp Type/Wattag	ge/Ballast Circuit Code				
E	Ballast Type	72C = 73B = 74P = 77K = 78E =	F-Can Encap Postli Val-U- Indoo	and Coil Ballast Ballast sulated Core and Coil B ne Ballast Pak Replacement Ballast r Enclosed Ballast oor Weatherproof Ballas	st Kit				

MERCURY

(60 Hz., MINIMUM STARTING TEMPERATURE -20°F OR -30°C)



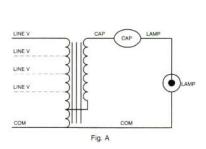
					Nom	Nom Fuse Dimensions Non-PCB Ca (Page 158		4000				U.L. Bench						
Input Volts	Catalog† Number	Circuit Type	Watts Input	Max* Input Current	Open Circuit	Fuse Rating (Amps)	Wiring Dia		illiciisii	No.		Min	Dry Film		Oil Filled		Total Weight (lbs)	Top Rise Code
				Ourient	Voltage	(Allips)		Fig	A	В	Mfd	Volt	Dia (in)	Ht (in)	Oval (in)	Ht (in)	(130)	1029 (Pg 115)
250 Wa	att Lamp, ANSI	Code H3	7															
120 220	71A3502 71A35J2	CWA	285	2.5 1.4	250	8 5	Α	1	2.0	3.2	22.5	280	1.75	3.75	_	-	6.0	D D
480	71A3542 71A3542-001D	CWA	285	.7	250	2	Α	1	2.3	3.4	22.5	280	1.75	3.75	_	_	7.0	D
480/120T	71A3542-T	CWA	285	.7	250	2	Α	1	2.3	3.4	22.5	280	1.75	3.75	-	- 1	7.0	D
120/208/ 240/277	71A3592	CWA	285	2.5/1.4/ 1.3/1.1	250	8/5/ 5/3	A	1	2.5	3.7	22.5	280	1.75	3.75	_	-	7.5	D/D/ D/D
120/208/ 240/277	71A3572-001D	CWA	285	2.5/1.4/ 1.3/1.1	250	8/5/ 5/3	Α	1	2.5	3.7	22.5	280	1.75	3.75	_	_	7.5	D/D/ D/D
120/ 240/347	71A35D2	CWA	285	2.5/ 1.3/.9	250	8/ 5/3	Α	1	2.5	3.7	22.5	280	1.75	3.75	-	-	7.5	D/ D/D
120/ 240/347	71A35D2-001D	CWA	285	2.5/ 1.3/.9	250	8/ 5/3	A	1	2.5	3.7	22.5	280	1.75	3.75	_	-	7.5	D/ D/D
120	71A3802	HX-NPF	285	6.9	235	20	B1	5	1.2	2.4		N	IOT AV	AILABLI			6.0	В

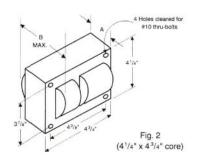
+ Ordering information:

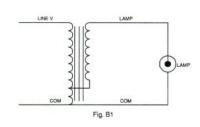
Replacement/retrofit ballast kits indicated by bold type with suffix -001D. Refer to pages 117-120.

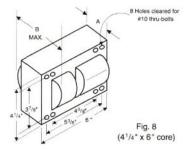
Original equipment ballasts - add proper suffix to catalog number:

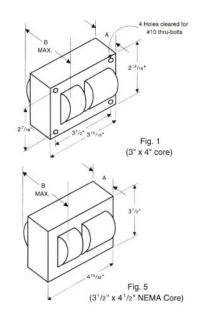
- -500D includes core & coil with dry-film capacitor
- -510D includes core & coil with welded bracket and dry-film capacitor
- -600 core & coil only (no capacitor)
- -610 core & coil with welded bracket (no capacitor)
- · For CWA circuits, figure is operating current. For HX and R circuits, figure is highest of starting, operating or open circuit current.
- Canadian replacement/retrofit ballast kit indicated by bold type. Refer to pages 121-122.

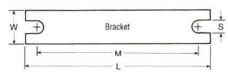












WELDED BRACKET DIMENSIONS

Ballast Dimensions Fig	L	w	M	S
1	5.1	1.00	4.50	0.25

