

# VMV High Wattage Series 200-400W For Medium and High Mounting Heights

Cl. I, Div. 2, Groups A, B, C, D  
Restricted Breathing Cl. I,  
Div. 2 & Zone 2 (Suffix S826)  
Certified for IEC Zone 2  
(Suffix S826TB)

Cl. II, Groups E, F, G; Cl. III &  
Simultaneous Presence  
(with Glass Refractor)  
Marine (with Globe or Glass  
Refractor) & Wet Locations  
3, 3R, 4, 4X; IP66

## Champ® H.I.D. Luminaires

### Applications:

VMV high wattage series *Champ* luminaires are used:

- In manufacturing plants, refineries, chemical, petrochemical, and other industrial process facilities, waste or sewage treatment facilities, and other heavy industrial applications
- In applications involving medium and high mounting heights
- In applications where energy-efficient, high lumen output is required
- In areas in which ignitable concentrations of flammable gases or vapors will be present only due to abnormal, unusual, or accidental conditions
- In marine applications where water spray and corrosive atmospheres are considerations
- In elevated ambient temperatures often found in industrial applications
- In installations where moisture, dirt, dust, vibration, corrosion and rough usage are problems
- Wherever the damaging effects of water, wind, snow, sleet, hot sun, or any combination of these elements, are problems

### Features:

- Cast copper-free aluminum construction (less than 0.4 of 1% copper) and epoxy powder finish provide excellent resistance to corrosion
- Six mounting arrangements to suit any lighting layout – pendant, ceiling, wall bracket, angle stanchion, straight stanchion and quad-mount
- Wide range of light sources and wattages to meet specifiers' needs: 200, 250, 400 watt high pressure sodium (HPS); 250 and 400 watt metal halide (MH) and pulse start metal halide
- Hinged ballast housing for ease of installation and maintenance
- Wide choice of photometric distributions. Glass globes, glass refractors, and reflector/lens are available
- All luminaires designed to perform in a 40°C ambient temperature. Selected luminaires are suitable for ambient temperatures up to 65°C
- Superior gasketing seals between the mounting module, housing, and optical assembly for optimum performance in wet and corrosive environments
- Hubs with integral conduit stop and bushing to help prevent damage to field wiring during installation
- Low ambient capability to (-40°C)
- Dome and 30° angle reflectors made of bright white *Krydon*® material and etched Alzak® high bay reflectors provide superior reflectivity
- Grounding wire for safety
- High power factor ballasts (Min. P. F. 90%) are available in a variety of voltages to meet local area requirements
- Mogul base lamp socket

### Certifications and Compliances:

- NEC/CEC:
  - Class I, Division 2, Groups A, B, C, D
  - With Glass Refractor - Class II, Class III & Simultaneous Presence (Class I, Division 2 and Class II)
  - Class I, Zone 2
- IEC:
  - Zone 2 Ex nR IIC
- UL Standards:
  - 844 Hazardous (Classified) Locations
  - 1598 Luminaires
  - 1598A Marine Locations
- CSA Standards:
  - C22.2 No. 137
- IEC Standards:
  - 60079-15

**Crouse-Hinds**  
by **E.T.N**

### Standard Materials:

- Ballast housings and mountings – copper-free aluminum (less than 0.4 of 1%)
- Exterior hardware and guards – stainless steel
- Reflectors (dome and angle) – *Krydon* fiberglass-reinforced polyester material
- Globes – heat and impact resistant internally fluted glass
- Refractors – glass
- Reflector lens – spun Alzak aluminum, tempered glass, stainless steel door frame



### Standard Finishes:

- Copper-free aluminum – epoxy powder coat
- Alzak aluminum – natural
- Stainless steel – natural
- *Krydon* material – high reflectance white

### Options:

The following special options are available from the factory by adding suffix to luminaire Cat. No.:

Description	Suffix
• Restricted Breathing Construction..... Class I, Division 2 & Zone 2 Suitability Cooler Operating Temperatures (T-Numbers)	<b>S826†</b>
• Certified for IEC Zone 2..... Furnished with terminal block crimp terminals and dedicated voltage ballasts (no MT, DT, or TT)	<b>S826TB†</b>
• Fused – to protect ballast and capacitors against abnormal line conditions (Not available with /MT ballast) (Not suitable for marine applications).....	<b>S658†*</b>
• Quick-Clip - Holds weight of housing when closed. No need to support luminaire while screwing the housing to the cover.....	<b>S890</b>
• Quartz auxiliary lighting – comes to full brightness immediately and remains lit until the HID lamp attains 60-70% of full illumination. For <i>non-hazardous</i> locations only.....	<b>QTZ</b>
• Ballast-Gard™ starter cutout switch – prevents starter pulsing when lamp is cycling or inoperative; prolongs ballast and ignitor life. Available for use with 200-400W HPS only.....	<b>BG</b>
• Factory assembled with H.I.D. lamps installed for additional labor savings.....	<b>FA</b>
• Top hat with stainless steel threaded insert to attach ballast housing.....	<b>S806</b>

**Note:** (Quartz lamp not included use 100W single ended lamp – Q100DC, Q100CL/DC, or 100Q/CL/DC). Consult factory for top-hat limitations.

### Electrical Ratings:

- 120 to 600 volts and multi-tap
- 200, 250, 400W HPS and MH

### Accessories:

- See pages 1022-1023 for complete listing.

Alzak is a registered trademark of ALCOA.







\*When ordering fuses for luminaires, option S658, you must specify the operating voltage. S658 cannot be ordered with /MT in the catalog number.  
†Not for use in Canada.  
‡Suffix S826 and S826TB cannot be used with GRD4 Reflector/Lens.

# 3L VMV High Wattage Series 200-400W High Pressure Sodium

For Medium and High Mounting Heights  
Champ® H.I.D. Luminaires

Cl. I, Div. 2, Groups A, B, C, D  
Cl. II, Groups E, F, G; Cl. III &  
Restricted Breathing Cl. I, Simultaneous Presence  
Div. 2 & Zone 2 (Suffix S826) (with Glass Refractor)  
Certified for IEC Zone 2 Marine (with Globe or Glass  
(Suffix S826TB) Refractor) & Wet Locations  
3, 3R, 4, 4X; IP56 to IP66

To complete the catalog #, include information in notes 1 and 2 below. For guards and other optics see VMV High Wattage Series - Ordering By Components page.

Mounting Style	Hub Size	Lamp Watts	BASIC CATALOG NUMBER		
			With G303 Globe and P33 Guard	With GR305 Glass Refractor *	With GRD4 Reflector/Lens
	3/4	200	VMVS2A200GP	VMVS2A200GR305	VMVS2A200GRD4
		1	VMVS3A200GP	VMVS3A200GR305	VMVS3A200GRD4
	3/4	250	VMVS2A250GP	VMVS2A250GR305	VMVS2A250GRD4
		1	VMVS3A250GP	VMVS3A250GR305	VMVS3A250GRD4
	3/4	400	VMVS2A400GP	VMVS2A400GR305	VMVS2A400GRD4
		1	VMVS3A400GP	VMVS3A400GR305	VMVS3A400GRD4
	3/4	200	VMVS2C200GP	VMVS2C200GR305	VMVS2C200GRD4
		1	VMVS3C200GP	VMVS3C200GR305	VMVS3C200GRD4
	3/4	250	VMVS2C250GP	VMVS2C250GR305	VMVS2C250GRD4
		1	VMVS3C250GP	VMVS3C250GR305	VMVS3C250GRD4
	3/4	400	VMVS2C400GP	VMVS2C400GR305	VMVS2C400GRD4
		1	VMVS3C400GP	VMVS3C400GR305	VMVS3C400GRD4
	3/4	200	VMVS2TW200GP	VMVS2TW200GR305	VMVS2TW200GRD4
		1	VMVS3TW200GP	VMVS3TW200GR305	VMVS3TW200GRD4
	3/4	250	VMVS2TW250GP	VMVS2TW250GR305	VMVS2TW250GRD4
		1	VMVS3TW250GP	VMVS3TW250GR305	VMVS3TW250GRD4
	3/4	400	VMVS2TW400GP	VMVS2TW400GR305	VMVS2TW400GRD4
		1	VMVS3TW400GP	VMVS3TW400GR305	VMVS3TW400GRD4
	3/4	200	VMVS25Q200GP	VMVS25Q200GR305	VMVS25Q200GRD4
	3/4	250	VMVS25Q250GP	VMVS25Q250GR305	VMVS25Q250GRD4
	3/4	400	VMVS25Q400GP	VMVS25Q400GR305	VMVS25Q400GRD4
	1 1/2	200	VMVSJ200GP	VMVSJ200GR305	VMVSJ200GRD4
		250	VMVSJ250GP	VMVSJ250GR305	VMVSJ250GRD4
		400	VMVSJ400GP	VMVSJ400GR305	VMVSJ400GRD4
	1 1/2	200	VMVSP200GP	VMVSP200GR305	VMVSP200GRD4
		250	VMVSP250GP	VMVSP250GR305	VMVSP250GRD4
		400	VMVSP400GP	VMVSP400GR305	VMVSP400GRD4

\* For GR302 Type II Refractor, change "GR305" at end of catalog number to "GR302". Ex. VMVS2A200GR302  
For GR303 Type III Refractor, change "GR305" at end of catalog number to "GR303". Ex. VMVS2A200GR303

1. Add voltage suffix to end of catalog number  
Standard Voltage Ballasts - 60Hz

Voltage Suffix	NEC/UL		CEC/CSA (cUL)	
	Multi Tap /MT	120V /120 480V /480	Tri Tap /TT	120V /120

Optional Voltage Ballasts - 50 or 60Hz

Voltage Suffix	CEC/CSA (cUL) - CWI Isolated Ballasts				EXPORT			
	208V CWI /208CWI	240V CWI /240CWI	480V CWI /480CWI	600V CWI /600CWI	220V 60Hz /220	220V 50Hz /220 50	230V 50Hz /230 50	240V 50Hz /240 50

2. Options - Add the required option suffixes, see page 989, in alpha-numeric order.



**3L** CORPELIMA







# VMV High Wattage Series 250-400W Pulse Start Metal Halide

**For Medium and High Mounting Heights  
Champ® H.I.D. Luminaires**

Cl. I, Div. 2, Groups A, B, C, D  
Restricted Breathing Cl. I,  
Div. 2 & Zone 2 (Suffix S826)  
Certified for IEC Zone 2  
(Suffix S826TB)

Cl. II, Groups E, F, G; Cl. III &  
Simultaneous Presence  
(with Glass Refractor)  
Marine (with Globe or Glass  
Refractor) & Wet Locations  
3, 3R, 4, 4X; IP56 to IP66

To complete the catalog #, include information in notes 1 and 2 below. For guards and other optics see VMV High Wattage Series - Ordering By Components page.

	Mounting Style	Hub Size	Lamp Watts	BASIC CATALOG NUMBER		
				With G303 Globe and P33 Guard	With GR305 Glass Refractor *	With GRD4 Reflector/Lens
	Pendant Mount (Rigid or Flexible)	3/4	250	VMVM2A250GP S828	VMVM2A250GR305 S828	VMVM2A250GRD4 S828
		1		VMVM3A250GP S828	VMVM3A250GR305 S828	VMVM3A250GRD4 S828
		3/4	320	VMVM2A320GP S828	VMVM2A320GR305 S828	VMVM2A320GRD4 S828
		1		VMVM3A320GP S828	VMVM3A320GR305 S828	VMVM3A320GRD4 S828
		3/4	400**	VMVM2A400GP S828	VMVM2A400GR305 S828	VMVM2A400GRD4 S828
		1		VMVM3A400GP S828	VMVM3A400GR305 S828	VMVM3A400GRD4 S828
	Ceiling Mount Thru-Feed	3/4	250	VMVM2C250GP S828	VMVM2C250GR305 S828	VMVM2C250GRD4 S828
		1		VMVM3C250GP S828	VMVM3C250GR305 S828	VMVM3C250GRD4 S828
		3/4	320	VMVM2C320GP S828	VMVM2C320GR305 S828	VMVM2C320GRD4 S828
		1		VMVM3C320GP S828	VMVM3C320GR305 S828	VMVM3C320GRD4 S828
		3/4	400**	VMVM2C400GP S828	VMVM2C400GR305 S828	VMVM2C400GRD4 S828
		1		VMVM3C400GP S828	VMVM3C400GR305 S828	VMVM3C400GRD4 S828
	Wall Mount Thru-Feed	3/4	250	VMVM2TW250GP S828	VMVM2TW250GR305 S828	
		1		VMVM3TW250GP S828	VMVM3TW250GR305 S828	
		3/4	320	VMVM2TW320GP S828	VMVM2TW320GR305 S828	
		1		VMVM3TW320GP S828	VMVM3TW320GR305 S828	
		3/4	400**	VMVM2TW400GP S828	VMVM2TW400GR305 S828	
		1		VMVM3TW400GP S828	VMVM3TW400GR305 S828	
	Quad-Mount Pendant, Adjustable Thru-Feed, 25° Angle, 12 1/2° Angle	3/4	250	VMVM25Q250GP S828	VMVM25Q250GR305 S828	VMVM25Q250GRD4 S828
		3/4	320	VMVM25Q320GP S828	VMVM25Q320GR305 S828	VMVM25Q320GRD4 S828
		3/4	400**	VMVM25Q400GP S828	VMVM25Q400GR305 S828	VMVM25Q400GRD4 S828
	Stanchion Mount 25° Angle	1 1/2	250	VMVMJ250GP S828	VMVMJ250GR305 S828	VMVMJ250GRD4 S828
		1 1/2	320	VMVMJ320GP S828	VMVMJ320GR305 S828	VMVMJ320GRD4 S828
		1 1/2	400**	VMVMJ400GP S828	VMVMJ400GR305 S828	VMVMJ400GRD4 S828
	Stanchion Mount Straight	1 1/2	250	VMVMP250GP S828	VMVMP250GR305 S828	
		1 1/2	320	VMVMP320GP S828	VMVMP320GR305 S828	
		1 1/2	400**	VMVMP400GP S828	VMVMP400GR305 S828	

\* For GR302 Type II Refractor, change "GR305" at end of catalog number to "GR302". Ex. VMVM2A250GR302-S828  
For GR303 Type III Refractor, change "GR305" at end of catalog number to "GR303". Ex. VMVM2A250GR303-S828  
\*\* To be used with ED28 (bulb shaped lamp).

**1. Add voltage suffix to end of catalog number**

		NEC/UL		CEC/CSA (cUL)	
Standard Voltage Ballasts - 60Hz	Voltage Suffix	Multi Tap /MT	120V /120	480V /480	Tri Tap /TT 120V /120

Optional Voltage Ballasts - 50 or 60Hz

EXPORT					
Voltage Suffix	220V 60Hz /220	220V 50Hz /220 50	230V 50Hz /230 50	240V 50Hz /240 50	

2. Options - Add the required option suffixes, see page 989, in alpha-numeric order.

**Lamp Selection Table:**

Fixture	Lamp Type	Bulb	Venture	Phillips	Sylvania
			MP 320W/BU/ED28/UVS/PS/EM/950	MS320/U/PS	MS320/PS/BU-HOR
VMVM320GP	320W PS MH	ED28, BT28	MP 320W/BU/ED28/UVS/PS/740	MS320/C/BU/PS	-
			MP 320W/C/BU/ED28/EVS/PS/737	-	-
VMVM400GP	400W PS MH	ED28, BT28	MP 400W/BU/ED28/UVS/PS/EM/950	N/A	M400/PS/U/BT28

**Crouse-Hinds**  
by **E.T.N**







# 3L VMV High Wattage Series 250-400W Metal Halide

For Medium and High Mounting Heights  
Champ® H.I.D. Luminaires

Cl. I, Div. 2, Groups A, B, C, D  
Restricted Breathing Cl. I,  
Div. 2 & Zone 2 (Suffix S826)  
Certified for IEC Zone 2  
(Suffix S826TB)

Cl. II, Groups E, F, G; Cl. III &  
Simultaneous Presence  
(with Glass Refractor)  
Marine (with Globe or Glass  
Refractor) & Wet Locations  
3, 3R, 4, 4X; IP56 to IP66

To complete the catalog #, include information in notes 1 and 2 below. For guards and other optics see VMV High Wattage Series - Ordering By Components page.

Mounting Style	Hub Size	Lamp Watts	BASIC CATALOG NUMBER		
			With G303 Globe and P33 Guard	With GR305 Glass Refractor *	With GRD4 Reflector/Lens
 Pendant Mount (Rigid or Flexible)	3/4	250	VMVM2A250GP	VMVM2A250GR305	VMVM2A250GRD4
	1	250	VMVM3A250GP	VMVM3A250GR305	VMVM3A250GRD4
	3/4	400	N/A	VMVM2A400GR305	VMVM2A400GRD4
	1	400	N/A	VMVM3A400GR305	VMVM3A400GRD4
 Ceiling Mount Thru-Feed	3/4	250	VMVM2C250GP	VMVM2C250GR305	VMVM2C250GRD4
	1	250	VMVM3C250GP	VMVM3C250GR305	VMVM3C250GRD4
	3/4	400	N/A	VMVM2C400GR305	VMVM2C400GRD4
	1	400	N/A	VMVM3C400GR305	VMVM3C400GRD4
 Wall Mount Thru-Feed	3/4	250	VMVM2TW250GP	VMVM2TW250GR305	VMVM2TW250GRD4
	1	250	VMVM3TW250GP	VMVM3TW250GR305	VMVM3TW250GRD4
	3/4	400	N/A	VMVM2TW400GR305	VMVM2TW400GRD4
	1	400	N/A	VMVM3TW400GR305	VMVM3TW400GRD4
 Quad-Mount Pendant, Adjustable Thru-Feed, 25° Angle, 12 1/2° Angle	3/4	250	VMVM25Q250GP	VMVM25Q250GR305	VMVM25Q250GRD4
	3/4	400	N/A	VMVM25Q400GR305	VMVM25Q400GRD4
 Stanchion Mount 25° Angle	1 1/2	250	VMVMJ250GP	VMVMJ250GR305	VMVMJ250GRD4
	1 1/2	400	N/A	VMVMJ400GR305	VMVMJ400GRD4
 Stanchion Mount Straight	1 1/2	250	VMVMP250GP	VMVMP250GR305	VMVMP250GRD4
	1 1/2	400	N/A	VMVMP400GR305	VMVMP400GRD4

\* For GR302 Type II Refractor, change "GR305" at end of catalog number to "GR302". Ex. VMVM2A250GR302  
For GR303 Type III Refractor, change "GR305" at end of catalog number to "GR303". Ex. VMVM2A250GR303

1. Add voltage suffix to end of catalog number  
Standard Voltage Ballasts - 60Hz

Voltage Suffix	NEC/UL		CEC/CSA (cUL)	
	Multi Tap /MT	120V /120 480V /480	Tri Tap /TT	120V /120

Optional Voltage Ballasts - 50 or 60Hz

Voltage Suffix	CEC/CSA (cUL) - CWI Isolated Ballasts			EXPORT			
	208V CWI /208CWI	240V CWI /240CWI	600V CWI /600CWI	220V 60Hz /220	220V 50Hz /220 50	230V 50Hz /230 50	240V 50Hz /240 50

2. Options - Add the required option suffixes, see page 989, in alpha-numeric order.