Vanguard® VF-20X0-27x110-66-X
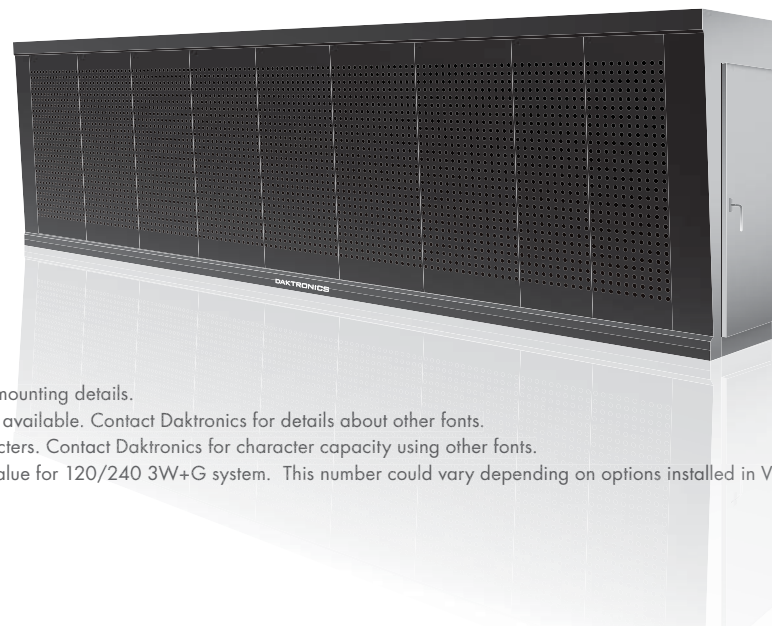
Amber (A) and Full Color (RGB)

Display Technology	High-intensity LED
Cabinet Access	Walk-In
Cabinet Enclosure	NEMA 3R
Face Panel	Aluminum Mask over Polycarbonate Face Panel
Weight	3,530 LBS. (1,601 kg)
Dimensions	7' 11" H x 25'10" W x 4' 0" D (2.39 m x 7.87 m x 1.21 m)
Operating Temp. Range	-40° F to +140° F (-40° C to +60° C)
Humidity Range	0 to 99%, Non-condensing
Ventilation	Positive Pressure, Forced Air Ventilation
Controller Location	Sign Cabinet or Equipment Cabinet
Display Type	Full Matrix (Variable Text & Graphics)
Active Area	5' 11" H x 23'10" W (1.78 m x 6.93 m)
Top/Bottom Border Width	12" (304 mm)
Left/Right Border Width	12" (304 mm)
Pixel Matrix	27 rows x 110 columns
Pixel Pitch	2.6" (66 mm)
Minimum Character Size	18" (460 mm) minimum
Viewing Distance	1,100' (335 m) using 18" characters (see note 3 below)
Sign Intensity	Amber 9,200 candelas/m² minimum
	Full Color 12,400 candelas/m² minimum (white)
LED Color	Amber (591nm ± 4nm)
	Full Color (32,000 distinct colors using red, green, and blue LEDs)
Power Requirements	120/240 VAC, single-phase power (3 wire plus ground)
Communications Protocol	NTCIP
Communications Options	Dial-up, Cellular, Fiber, Ethernet, Direct and Radio
Structural Design Standard	AASHTO, Latest Edition
Welding Standard	AWS D1.2
NEMA Standards	NEMA TS 4 Section 2 Environmental Requirements

Model Specifications:

Models	Viewing Angle (H x V)	Amber Amps Per Leg[4]	Amber Typical Power[5]	Full Color Maximum Power[4]	Full Color Typical Power[5]
VF-2000-27x110-66-X	15° x 15°	25	483 W	N/A	N/A
VF-2020-27x110-66-X	30° x 30°	25	669 W	6,743 W	2,656 W

Character Capacity:

Number of Lines	Characters per Line	Character Height	Example Font Size	Interline Spacing
3	18	18"	7x5	3
2	13	29"	11x7	5

Notes:

1. Display cabinet depth dimensions include zee-extrusion mounting brackets on the rear of the cabinet. Contact Daktronics for specific mounting details.
2. Nominal character heights and number of lines that fit on each VMS are calculated using 7-pixel-high fonts. Many other font sizes are available. Contact Daktronics for details about other fonts.
3. The number of characters per line is calculated using a fixed 7-pixel-high by 5-pixel-wide font and one pixel separator between characters. Contact Daktronics for character capacity using other fonts.
4. Amps Per Leg numbers are based on maximum load of typical VMS, including a fully loaded 15A convenience outlet. Amps per leg value for 120/240 3W+G system. This number could vary depending on options installed in VMS, such as cabinet heaters, auxiliary control panels. Contact Daktronics for more information.
5. Typical Power includes a partially illuminated LED sign (with 15% pixels at 100% intensity), the sign controller and ventilation system.
6. Sign front face paint color is semi-gloss black. Other sides are mill finish aluminum.
7. Consistent with Daktronics continuous improvement program, all product features are subject to change without notice.

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