

Vmax[®] Vyntus CPX

Technical specifications



Gas exchange (physiological measurement)

Parameter	Measurement range	Accuracy
Ventilation (V'E)	0–300 L/min	2% or 0.50 L/min
O ₂ uptake (V'O ₂)	0–7 L/min	3% or 0.05 L/min
CO ₂ production (V'CO ₂)	0–7 L/min	3% or 0.05 L/min
RER	0.6–2.0	4% or 0.04

Volume sensor (physiological measurement)

Parameter	Measurement range	Accuracy
Volume	0–10 L	2% or 0.05 L
Flow	0–15 L/s	3% or 0.07 L/s
Resolution	3 mL	
Resistance	< 0.1 kPa/L/s at 15 L/s	
ATS	Compliant	

O₂ analyzer

Type	Fully digital, high speed analyzer, based on electrochemical principle
Measurement range	0–100 vol%
Accuracy	0.05 vol% or 0.2%
Resolution	0.01 vol%
Typical rise time (T10–90)*	75 ms
Service life	Typically 2 years

CO₂ analyzer

Type	Fully digital, high speed analyzer, based on infrared absorption
Measurement	0–15 vol%
Accuracy	0.05 vol% or 1%
Resolution	0.01 vol%
Typical rise time (T10–90)*	75 ms

Ambient measurement

Ambient unit	Measurement range	Accuracy
Temperature sensor	-40 to 85°C (-40 to 185°F)	0.5% relative at 20°C
Humidity sensor	10–95% relative humidity	4% relative humidity
Vmax [®] Vyntus CPX	Measurement range	Accuracy
Air pressure sensor	30–110 kPa (225–825 mmHg)	0.25 kPa (1.88 mmHg) at 0–65°C (32–149°F)

* Rise time after digital filtering. During every gas calibration the filter coefficients are specifically optimized for the sensors.

Power supply	
Vmax Vyntus CPX with Vmax CART 3.0	
Mains voltage	115 V, 230 V, AC 50/60 Hz
Power input	690 VA
Electrical safety	Protection class I
Vmax Vyntus CPX without cart	
Type	MPM-X125 Medical AC/DC Power Adapter
Mains input voltage	100–240 V, AC 47–63 Hz
Power consumption	1.5–1 A
Output voltage	24 V DC
Output	120 VA/5 A
Electrical safety	Protection class I
Moisture protection	
Vmax Vyntus CPX with Vmax CART 3.0	no IP protection
Vmax Vyntus CPX without cart	IP 20
Ambient conditions	
Temperature	10–34°C (50–93.2°F)
Relative humidity	20–80% RH, noncondensing
Ambient pressure	700–1060 hPa (525–795 mmHg)
Classification of applied parts	
Type applied part	B
Category according to MDD 93/42/EEC (2007)	
Complete system	Active class IIa medical product
Pressure reducer	
Type	Test gas pressure reducer
Inlet pressure	200 bar (2901 psi)
Outlet pressure	2 bar fixed (29 psi)
1 outlet	G 1/4 internal screw thread

⚠ WARNING: U.S. Federal Law restricts this device to sale by or on the order of a physician.

CareFusion
22745 Savi Ranch Parkway
Yorba Linda, CA 92887
800.231.2466 toll-free
714.283.2228 tel
714.283.8493 fax



CareFusion Germany 234 GmbH
Leibnizstrasse 7
97204 Hoechberg
Germany
+49 931 4972-0 tel
+49 931 4972-423 fax

CareFusion U.K. Sales
U.K. 236 Ltd
The Crescent, Jays Close
Basingstoke, RG22 4BS, U.K.
+44 (0) 1256 388599 tel
+44 (0) 1256 330860 fax



carefusion.com/VmaxVyntusCPX

© 2016 CareFusion Corporation or one of its affiliates. All rights reserved. Vmax, CareFusion and the CareFusion logo are trademarks or registered trademarks of CareFusion Corporation or one of its affiliates. RD5823 (0316/1000)

Dimensions/Weight		
Vmax Vyntus CPX module		
Dimensions	31.9 cm W x 29.6 cm D x 13.6 cm H (12.5" W x 11.6" D x 5.3" H)	
Weight	4.08 kg (8.9 lb)	
Vmax Vyntus CPX with Vmax CART 3.0		
Dimensions total	61 cm W x 62 cm D x 172–197 cm H (depending on monitor assembly) (24" x 24.4" x 67.7–77.6")	
Weight total	82 kg (180.8 lb) inclusive CardioSoft ECG and 2 x 19" thin film transfer (TFT) monitors	
Castors	4 twin swivel castors, 10 cm (3.9"), lockable, conductive	
Shelves	Number	2
	Platform area	45 cm W x 36 cm D (17.7" x 14.2")
	Load capacity	20 kg (44 lb) distributed load
Keyboard drawer with mouse pad (left/right)	Keyboard platform area	40 cm W x 20 cm D (15.7" x 7.9")
	Load capacity	3 kg (6.6 lb) distributed load
Drawer	Interior area	34 cm W x 24 cm D x 8 cm H (13.4" x 9.4" x 3.1")
	Platform area	45 cm W x 36 cm D (17.7" x 14.2")
	Load capacity shelf	15 kg (33 lb) distributed load
	Load capacity drawer	3 kg (6.6 lb) distributed load
Computer holder with two tension belts	Platform area	24 cm W x 3.7 cm D (9.4" x 1.5")
	Load capacity	5 kg (30.9 lb)
Dual monitor mount	Max. monitor width	49.4 cm (19.45")
	Load capacity for each monitor	14 kg (30.9 lb)
O ₂ analyzer		
Standards	EN 60601-1, EN 60601-1-2, EN 62304, EN 62366, EN ISO 14971, EN ISO 10993-1	
Directives	93/42/EEC amended by 2007/47/EC, RoHS 2011/65/EU compliant	
Market clearances	CE, FDA 510(k) clearance	



CareFusion