



Technical Data Sheet Vyntus™ CPX

Metabolic Cart

 J A E G E R™

Vyntus™ CPX technical specifications

Ergospirometry (physiological measurement)

Parameter	Measurement range	Accuracy
Ventilation (V'E)	0 to 300 L/min	2% or 0.5 L/min
O ₂ uptake (V'O ₂)	0 to 7 L/min	3% or 0.05 L/min
CO ₂ Production (V'CO ₂)	0 to 7 L/min	3% or 0.05 L/min
RER	0.6 to 2.0	4% or 0.04

Volume sensor (physiological measurement)

Resolution	3 mL	
Resistance	< 0.1 kPa/L/s at 15 L/s	
ATS	Compliant	
Parameter	Measurement range	Accuracy
Volume	0 to 10 L	2% or 50 ml
Flow	0 to 15 L/s	3% or 70 ml

O₂ analyzer

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

CO₂ analyzer

Type	High speed analyzer, based on the principle of infrared absorption
Measurement range	0 to 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	- 10 to +50 °C (14 to 122 °F) ±	±0.5 °C at 20 °C (68°F) ±1 °C at 10 to 34°C (50 to 93.2°F)
Humidity sensor	0 to 100% relative humidity	±4% relative humidity at 20 - 80% relative humidity
Air pressure sensor	500 to 1100 hPa (375 to 825 mmHg)	± 2.5 hPa (1.88 mmHg) at 700 to 1060 hPa (525 to 795 mmHg)



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

SpO₂ sensors

Displayed oxygen saturation range (SpO ₂)	0 to 100 %
Displayed pulse rate range	18 to 321 beats per minute (BPM)

Power supply

Vyntus™ CPX with Vyntus™ CART 3.0

Mains voltage	100 - 120 V AC, 50 / 60 Hz, 220 - 240 V AC, 50 / 60 Hz
Power input (max.)	630 VA
Electrical safety	Protection class I

Vyntus™ CPX without cart

Mains voltage	100 to 240 V AC, 50 to 60 Hz
Power input (max.)	80 VA
Electrical safety	Protection class I
Mains plug	Used for isolating all poles simultaneously from supply mains
Primary fuse 100 to 240 V AC	2 x TT 1.0 A L / 250 V AC

Moisture protection

Vyntus™ CPX	IP 20
Vyntus™ CART 3.0	no IP protection
SpO ₂ -Splash Cover for Vyntus™ CPX	IP X2

Use conditions

Temperature	+10°C to +34°C (+50°F to 93.2°F)
Relative humidity	20 to 80% RH, non-condensing
Ambient pressure	700 to 1060 hPa (525 to 795 mmHg)
Altitude	≤ 3000 m

Classification of applied parts

Vyntus™ CPX	Applied part type B
Nonin SpO ₂ Sensors acc.	Applied part type BF

Classification according to MDD 93/42/EEC (2007)

Complete system	Active class IIa medical device
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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

Dimensions / Weight

Vyntus™ CPX module

Dimensions	33 cm W x 28.5 cm D x 13.5 cm H (13" x 11.2" x 5.3")
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Weight	4.08 kg (8.9 lbs)
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Vyntus™ CPX with Vyntus™ CART 3.0

Dimensions total	61 - 82.5 cm W x 62 cm D x 172 - 197 cm H (depending on monitor assembly) (24 - 32.5" x 24.4" x 67.7 - 77.6")
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Weight total	82 kg (180.8 lbs) inclusive CardioSoft™ ECG, and 34" curved monitor
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Castors	4 twin swivel castors Ø 10 cm (3.9"), lockable
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Number	3
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Shelves

Platform area	45 cm W x 36 cm D (17.7" x 14.2")
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Load capacity	20 kg (44 lbs) distributed load
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Keyboard drawer with mousepad (left / right)

Keyboard platform area	40 cm W x 20 cm D (15.7" x 7.9")
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Load capacity	3 kg (6.6 lbs) distributed load
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Drawer

Interior area	34 cm W x 24 cm D x 8 cm H (13.4" x 9.4" x 3.1")
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Platform area	45 cm W x 36 cm D (17.7" x 14.2")
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Load capacity shelf	15 kg (33 lbs) distributed load
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Load capacity drawer	3 kg (6.6 lbs) distributed load
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Monitor mount height adjustable

Range height adjustment	18 cm (7.1")
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Load capacity	8.5 kg (18.7 lbs)
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34" curved monitor as dual monitor application

Dimensions	81.14 cm W x 36.19 cm D x 12.33 H cm (31.14" x 14.25" x 17.84")
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Weight	8 kg (17.6 lbs)
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Standards, directives & market clearances


Standards	EN 60601-1, DIN EN 60601-1-2, EN 62304, EN 62366-1, EN ISO 14971, EN ISO 10993-1
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Directives	RoHS 2011/65/EU compliant
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Market clearance	510(k) clearance to market K183567
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Jaeger Medical America, Inc.
14050 Rebecca St, Bldg 4
Moreno Valley, CA 92553
USA

 Jaeger Medical GmbH
Leibnizstrasse 7
97204 Hoechberg
Germany

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