F&P Airvo 3 System

F&P Airvo™ 3

PT301US SPECIFICATION SHEET

The Airvo 3 provides high flow gases with simultaneous oxygen delivery through nasal cannula interfaces to augment the breathing of spontaneously breathing patients suffering from respiratory distress and/or hypoxemia in the hospital setting.

[1] Inrush current may reach 50 A.

[2] In accordance with ISO 80601-2-74. Tested to an accuracy of ± 1 °C or ± 1 mg/L, as appropriate.

[3] Values are expressed in body temperature, pressure, saturated (BTPS), in accordance with ISO 80601-2-74, unless otherwise stated.

[4] Achievable flow range depends on the patient interface selected.

[5] For humidity performance under battery use, see Airvo 3 User Manual - Appendix 4.

[6] Flow rate is expressed in STPD (standard temperature and pressure, dry) as per ISO 80601-2-74.

Product specifications

Product code	PT301US
Box components	Airvo 3 device (PT301US) x 1
	Outlet elbow (900PT930) x 1
	Battery (900PT957L) x 1
	Air filter (900PT933) x 2
	Power cord (900PT412US) x 1
	Power cord retainer (900PT956) x 1
	Airvo 3 user manual x 1
Dimensions	205 mm x 295 mm x 190 mm (8.1” x 11.6” x 7.5”)
Weight (including battery)	4.45 kg (9.8 lb)
Supply voltage/current	100 – 115 VAC, 2.4 A (2.6 A max[1]) 220 – 240 VAC, 1.1 A (1.3 A max[1])
Supply frequency	50 - 60 Hz

Operating specifications

Intended use	The Airvo 3 is intended to provide high flow warmed and humidified respiratory gases for administration to spontaneously breathing infant, child, adolescent and adult patients in hospitals and sub-acute facilities.
Location of use	Hospitals and sub-acute facilities
Ambient temperature	18 – 28 °C (64 – 82 °F)
Humidity	10 – 95 % relative humidity (non-condensing)
Ambient pressure	700 – 1060 hPa
Altitude range	0 – 3000 m (0 – 9840 ft)
Mode of operation	Continuous operation
Maximum surface temperature of applied parts[2]	44 °C (111 °F)
Maximum delivered dew-point temperature of respiratory gas[2]	43 °C (109 °F)

Optiflow™ high flow therapy[3]

Target humidity range	31 – 37 °C (87.8 - 98.6 °F)
Target flow range[4]	2 – 70 L/min
Humidity[2,5] (Wall power)	> 33 mg/L at 37 °C (98.6 °F) target humidity, 10 - 60 L/min target flow
	> 16 mg/L for all other settings

Supplementary oxygen

High-pressure oxygen (HPO) inlet port	
Line pressure:	280 – 600 kPa (40 – 87 psi)
Maximum flow rate:	100 L/min (STPD[6])
% Concentration:	> 99%
Compatible accessories:	Allows connection to one or two oxygen supply sources via a HPO dual-input manifold (900PT460D)
Low-pressure oxygen (LPO) inlet port	
Line pressure:	0 - 70 kPa (0 - 10 psi)
Maximum flow rate:	60 L/min (STPD[6])
% Concentration	> 99%

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Battery

Chemistry	Lithium Ion (Li-Ion)
Voltage	14.4 VDC
Capacity, Power output	≤ 99.4 Wh, 80 W
Shelf life	3 years
Battery life	300 charge/discharge cycles or 2 years from first use (whichever comes first)
Recharge time	6 hours (maximum)
Operating time[5]	
With Active Humidification	50 minutes
Without Active Humidification[7]:	additional 40 minutes

Storage and transport conditions

Ambient temperature[8,9]	-10 – 50 °C (14 – 122 °F)
Humidity (non-condensing)	10 - 95 % relative humidity

Composition

Materials not present	Not made with natural rubber latex or phthalates (DEHP, DBP, BBP)
Manufacturing mode	Manufactured in a controlled working environment
Disposal	
Device disposal:	This device contains electronics and a lithium battery. Return to Fisher & Paykel Healthcare or dispose according to local guidelines for disposing of electronics
Accessories, spare parts and packaging:	Dispose of accessories, spare parts and packaging according to local guidelines. Hospitals to discard according to their standard method for disposing of contaminated products

Spare parts

Available separately	Outlet elbow (900PT930)
	O-ring 10-pack (900PT408)
	Power cord retainer (900PT956)
	Air filter (900PT933)
	Battery module (900PT957L)

[7] During 'Critically Low Battery' alarm condition

[8] Storage at temperatures above 40 °C (104 °F) for prolonged periods will accelerate battery degradation.

[9] The device may require up to 24 hours to equilibrate to operating temperature before it is ready for use.

Please note that the information in this specifications sheet (including product information and images) is summarized and provided for illustrative purposes only. Please refer to the relevant user instructions for more information and confirm details with your local Fisher & Paykel Healthcare representative prior to placing an order. Information subject to change without notice.

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