

F&P Airvo™ 3

PT301XX¹ SPECIFICATION SHEET

The Airvo 3 is a respiratory support device that delivers warmed and humidified respiratory gases to spontaneously breathing patients through a variety of patient interfaces.



Product specifications

Product code	PT301XX ¹
Box components	Airvo 3 device (PT301XX ¹) x 1
	Outlet elbow (900PT930) x 1
	Battery (900PT957L) x 1
	Air filter (900PT933) x 2
	Power cord (900PT412XX ¹) x 1
Dimensions	205 mm x 295 mm x 190 mm
	Weight (including battery)
Supply voltage/current	100 – 115 VAC, 2.4 A (2.6 A max ²)
	220 – 240 VAC, 1.1 A (1.3 A max ²)
Supply frequency	50 - 60 Hz

Operating specifications

Intended use	Treatment of spontaneously breathing patients who would benefit from receiving high flow warmed and humidified respiratory gases
Location of use	Hospitals and sub-acute facilities
Usage	Multi-patient use. Device must be cleaned and outlet elbow reprocessed between patients
Ambient temperature	18 – 28 °C
Humidity	10 – 95 % relative humidity (non-condensing)
Ambient pressure	700 – 1060 hPa
Altitude range	0 – 3000 m
Mode of operation	Continuous operation
Maximum surface temperature of applied parts ³	44 °C
Maximum delivered dew-point temperature of respiratory gas ³	43 °C

Optiflow™ high flow therapy⁴

Target humidity range	31 – 37 °C
Target flow range ⁵	2 – 70 L/min
Humidity (Wall power)	> 33 mg/L at 37 °C target humidity, 10 - 60 L/min target flow
	> 12 mg/L for all other settings

Supplementary oxygen

High-pressure oxygen (HPO) inlet port	
Line pressure:	280 – 600 kPa
Maximum flow rate:	100 L/min (STPD ⁶)
% Concentration:	93% or >99%
Compatible accessories:	Allows connection to one or two oxygen supply sources via a HPO dual-input manifold (900PT460 ⁷)
Low-pressure oxygen (LPO) inlet port	
Line pressure:	0 – 70 kPa
Maximum flow rate:	60 L/min (STPD ⁶)
% Concentration:	93% or >99%

¹ XX indicates a country code, if applicable.

² Inrush current may reach 50 A.

³ In accordance with ISO 80601-2-74. Tested to an accuracy of ± 1 °C or ± 1 mg/L, as appropriate.

⁴ Values are expressed in body temperature, pressure, saturated (BTPS) unless otherwise stated.

⁵ Achievable flow rate depends on the patient interface selected.

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

⁷ Available for three different connector types: DISS, NIST and SIS. HPO port connector type on the Airvo 3 will vary depending on region.

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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	
Typical:	40 minutes
Worst case ⁸ :	20 minutes

Storage and transport conditions

Ambient temperature ^{9,10}	-10 – 50 °C
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 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)

Regulatory

Country of origin	New Zealand
Notified body	Conforms with medical device directive 93/42/EEC (CE0123)

⁷ Worst-case operating time applies to a fully charged battery at 25 °C that has experienced 300 charge/discharge cycles followed by 3 years of storage.

⁸ Storage at temperatures above 40 °C 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.