

paraPAC



The paramedic's choice for controlled ventilation

paraPAC ventilators are specifically designed for use by paramedics and other qualified personnel, for adult, child and infant ventilation during CPR and emergency transport. Features include a unique CPR setting, CMV*/ Demand (SMMV**), air mix, integrated pressure monitoring/alarm system and a separate tidal volume control, ensuring easy selection of optimum ventilation. paraPAC ventilators are available in MRI compatible format .

Putting you, the professional, in control

*CMV Demand = Continuous Mandatory Ventilation

**SMMV = Synchronized Minimum Mandatory Ventilation

Technical Data

Principle of Operation: Flow generator, time cycled, volume preset, pressure limited

Power Source for Ventilation: Dry, oil free, filtered gas: 305 - 600 kPa at 65L/min

Models: Suitable for adults, children and infants down to 5kg

Tidal Volume: 1300 to 70 ml

Frequency: 8 - 40 b/min (12b/min at click stop)

Flow Range: 6 - 60 L/min

I:E Ratio: 1:3 at 8 b/min; 1:1.3 at 40 b/min

Inspiratory Time: 0.6 - 1.6 seconds

Gas Consumption:

'No Air Mix': V_{DEL} plus 20ml/cycle

'Air Mix': 30% V_{DEL} plus 20ml/cycle

Air Mix: 100% or 45% O_2

Pressure Relief with Audible Alarm: 20 - 80 x100Pa (20 - 80cmH₂O)

Alarm System (models P200 & P200D only): Visual and audible alarms for high pressure, continuous pressure, low pressure/disconnect, low gas supply pressure and low battery

Battery for Powering Alarm System: Single cell 3V Lithium, size 123A (camera battery) or size AA, 3.6V Lithium supplied by Pnuepac and suitable for MRI use

MRI Compatibility (standard on models P200 & P200D): Testing has confirmed compatibility in a 3Tesla actively shielded magnet with a max gradient of 430G/cm and RF of 0.82 W/kg at 125.5MHz.

Patient Outlet Connection: EN1281-1 (ISO5356)

Patient Circuit: 1.2m long, 22mm single bore polyester hose with autoclavable patient valve as standard. Alternative specification: silicone, heavy duty, autoclavable hose.

Input Hose: As standard 1.5m long, 6mm bore with probe to BS5682 (oxygen). Alternative specifications available

Dimensions: 92H x 220W x 162D mm

Weight:

Model P20: 2.5kg

Model P20D: 3.0kg

Model P200 2.7kg

Model P200D 3.1kg

Demand Flow (model P20D & P200D only):

Commences at -2 x100Pa (-2cmH₂O), 100L/min at -8 x100Pa (-8cmH₂O), max > 120L/min. Delivers 100% supply gas with either Air Mix or No Air Mix selected.

Expiratory Pressure Indication: If monitoring of expiratory pressure (eg PEEP) is also required, a monitoring point at the patient connection port can be provided, at time of manufacture, connected to the ventilator by means of an external monitoring line.

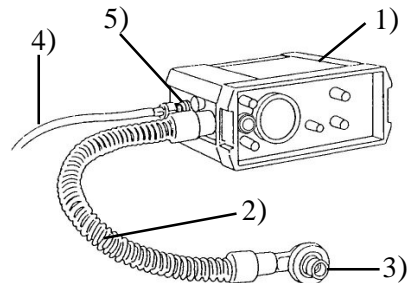
Add-on PEEP Facility (optional): 0 - 20 x100Pa (0 - 20cmH₂O)

Standards: Satisfies all the stringent demands of the latest standard for emergency and transport ventilators, EN 794-3, 1999 (Drop and water resistant tested). CE marked.

paraPAC

Standard Configuration

1. Ventilator Control Module
 2. Patient Hose (1.2m long, Polyester)
 3. Patient Valve (Autoclavable)
 4. Input Hose with O₂ Probe
 5. Machine Connection
 6. Battery (with P200 & P200D models)
- + User Manual and Label Set



For input hose, probe and machine connection see country standards below.

Country	O ₂ Probes, 6mm Bore		Connectors		Colour		Length (Max 15 metres)
	Description	Suffix	Description	Suffix	Description	Suffix	
UK	BS5682	1	G1/4	A	White	A	1.5
USA	DISS	2	DISS	B	Green	B	1.5
France	CFPO	3	CFPO	C	White	A	1.5
Sweden	AGA	4	G1/4	A	White Anti-static	D	1.5
Germany	DIN	5	DIN	E	Blue	E	1.5
USA/Ohio	OHIO	7			Blue Anti-static	F	1.5

Ordering Information*

paraPAC Models

Order No

Model P20 - paraPAC with Air Mix	P20/CE
Model P20D - paraPAC with Air Mix and CMV/Demand (SMM)	P20D/CE
Model P200 - paraPAC with Air Mix and built-in Alarms (MRI Compatible)	P200/CE
Model P200D - paraPAC with Air Mix, CMV/Demand (SMMV), and built-in Alarms (MRI Compatible)	P200D/CE

Ordering Example: P200D/CE/4AD5

- = 1) paraPAC ventilator with Air Mix, CMV/Demand and built-in alarms, MRI compatible (P200D/CE)
- + 2) Swedish standard input hose with AGA Probe (suffix 4), G1/4 Connector (A), colour white anti-static (D), 5m long (5)

rescuPAC, paraPAC, transPAC, ventiPAC

Alternatives to Standard Configuration

Add-on PEEP Facility

Suffix

Exhaust Pressure Indicator - Modified for gauge to show PEEP during exhalation with extra monitoring line and special patient valve

EP

Note not available on rescuPAC ventilators

Note with this option PEEP Valve (W1433) and Exhaust Collector (W1434) will also be required - see accessories & spares for ordering information

Input Hose O2 Probes, 6mm bore

Suffix

BS5682

1

DISS

2

CFPO

3

AGA

4

DIN

5

Open End

6

OHIO

7

Input Hose Connectors

Suffix

G1/4

A

DISS

B

CFPO

C

DIN

E

Input Hose Colour

Suffix

White

A

Green

B

White Anti-Static

D

Blue

E

Blue Anti-Static

F

Input Hose Length

Suffix

1.5 metres, up to 15 metres maximum

/Length

Patient Hose

Suffix

Silicone (Heavy Duty) Patient Hose (1.2m)

OH

rescuPAC, paraPAC, transPAC, ventiPAC

Alternatives to Standard Configuration Continue

Ordering Example: P20D/CE/1BE2

- = 1) paraPAC ventilator with Air Mix and CMV/
Demand (P20D/CE)
- + 2) Input hose with BS5682 Probe (Suffix 1), DISS
Connector (B), colour blue (E), 2m long (2)