Technical Data

Dimensions (w x h x l)	305 mm x 165 mm x 250 mm
Mass	4.6 kg
Power Supply	100 V - 250 V AC, 50 - 60 Hz; 24 V DC / 5 A
Internal Battery	Lithium-Ion-Rechargeable Battery, 24 V; 2.3 Ah
Average Power Consump.	52 VA

Ventilation Parameters	PCV	PSV	SIMV	VCV
IPAP	4 - 50 hPa	-	4 - 50 hPa	-
PS	-	4 - 50 hPa	4 - 50 hPa	-
Volume	-	-	-	0,05 - 2 l
PEEP	0 - 20 hPa	0 - 20 hPa	0 - 20 hPa	0 - 20 hPa
Frequency	4 - 50 bpm	4 - 50 bpm	4 - 50 bpm	4 - 50 bpm
Apnoea Limit	-	Auto; 3 - 60 s; OFF	-	-
Inspiration Time	0.3 - 8.0 s	-	0.3 - 8.0 s	0.3 - 0.8 s
I : E	1 : 0.3 - 1 : 4.0	-	-	1 : 0.3 - 1 : 4.0
Ramp	5 Steps	5 Steps	5 Steps	4 Steps
Inspiration Trigger	Auto; 5 Steps; Off	Auto; 5 Steps	Auto; 5 Steps	Auto; 5 Steps; Off
Expiration Trigger	-	Auto; 10 - 90 %	Auto; 10 - 90 %	-
Minimum Volume	0.05 - 2 l; Off	0.05 - 2 l; Off	-	-
Additional Pressure	3 - 10 hPa; Off	3 - 10 hPa; Off	-	

Alarm Parameters	PCV	PSV	SIMV	VCV
Max. Insp. Volume	0.2 - 2.5 l; Off	0.2 - 2.5 l; Off	0.2 - 2.5 l; Off	-
Min. Insp. Volume	0.01 - 2 l; Aus	0.01 - 2 l; Off	0.01 - 2 l; Off	-
Max. Pressure	-	-	-	11 - 50 hPa
Min. Pressure	-	-	-	2 - 40 hPa
Max. Frequency	10 - 120 bpm; Off	10 - 120 bpm; Off	10 - 120 bpm; Off	10 - 120 bpm; Off
Max. Insp.-Time	-	1 - 10 s	1 - 10 s	-
Pressure Difference	1 - 10 hPa	1 - 10 hPa	1 - 10 hPa	1 - 10 hPa
Max. Oxygen	30 - 100 %; Off	30 - 100 %; Off	30 - 100 %; Off	30 - 100 %; Off
Min. Oxygen	18 - 90 %; Off	18 - 90 %; Off	18 - 90 %; Off	18 - 90 %; Off

Specifications and Performance		Max. Minute Volumen	
Max. Stable Pressure Limit	60 hPa	PCV-Modus (IPAP 0= 50, PEEP = 0)	
Min. Stable Pressure Limit	0 hPa	R5 / C50	45 l/min
Max. Working Pressure	50 hPa	R5 / C20	33 l/min
Min. Working Pressure	0 hPa	R20 / C50	30 l/min
Maximum Flow	250 l/min	R20 / C20	26 l/min

Technical Requirements for Accessories

Oxygen Inlet:

Type of Connection Port	Quick coupling
Pressure	< 200 hPa
Flow	< 15 l/min

Bacterial Filter:

Connections	22 / 15 mm cone (according to EN 1281-1)
Resistance	< 2.3 hPa at 60 l/min
Compressible Volume	< 66 ml
Internal Volume	< 200 ml

CE-Mark required!

Technical specifications are subject to technical modifications.

PR-CARAT-eng-1110-02

CARAT

Accessories

The functional bag was develop especially for our ventilator CARAT. Through the big window in the bag you can control the functions of the device.
The wide belts care for a good wearing comfort as backpack or sling bag. Many attachment features at the bag allow an easy assembly at whell chair.

The external power pack AKKUPACK CARAT is intended as autonomous power supply for the ventilator CARAT.
It was especially developed for homecare use, use in hospitals and effort in mobile use.
AKKUPACK CARAT enables an additonal using time of 12 hours (in standard adjustments).

The remote alarm box is a wire alarm system signalling alarms of the CARAT ventilator for domestic use. The alarm is generated by the CARAT ventilator which is not within the operator's immediate hearing range. There is no difference between alarm type and alarm priority in alarm signalling.

The O_2-Sensor measures the oxygen at the air outlet of the ventilator an shows the actual value on the display of the CARAT.

Manufacturer:

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Mettenheimer Straße 12/14
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Phone.: +49 385 39925 0
Fax: +49 385 39925-25
E-Mail: info@hoffrichter.de
www.hoffrichter.de

Sales:

HOFFRICHTER
Quality makes the Difference

Power and Precision

CARAT

- **Four Ventilation Modes**
- **Low Noise Level**
- **Network Independent Battery Operation**
- **Comfortable handling**
- **Clear Menu Stucture**

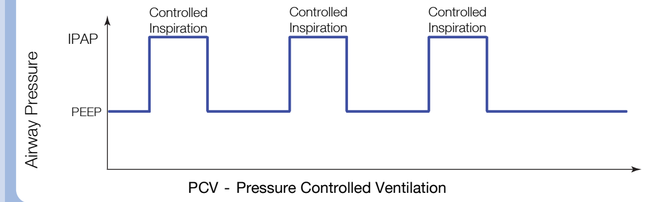
CARAT is the specialist for pressure- and volume controlled home care ventilation. Four ventilation modes are available for an individual therapy adaptation to the requirements of the patient in the field of invasive and non invasive ventilation. The application of a single line patient circuit as well as a double line patient circuit and the possibility of oxygen enrichment and measurement makes the device flexible to use.

A large screen and an easy operating guarantee high comfort and safety in clinical use and at home.

The clear and functional design convinces both physicians and patients.

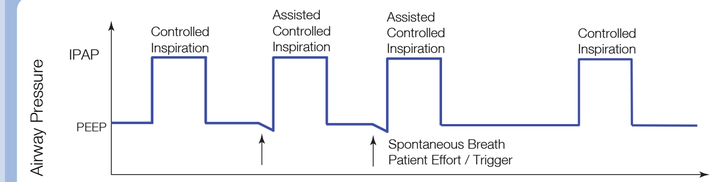
(A)PCV (Assisted) Pressure Controlled Ventilation

- The ventilation archetype is pressure- and time-controlled.



PCV - Pressure Controlled Ventilation

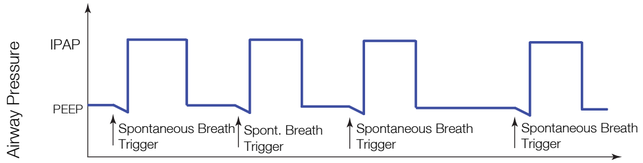
- If the trigger is active ((A)PCV), the patient can request additionnal controlled inspiration breathes.



A PCV - Assisted Pressure Controlled Ventilation

PSV Pressure Supported Ventilation

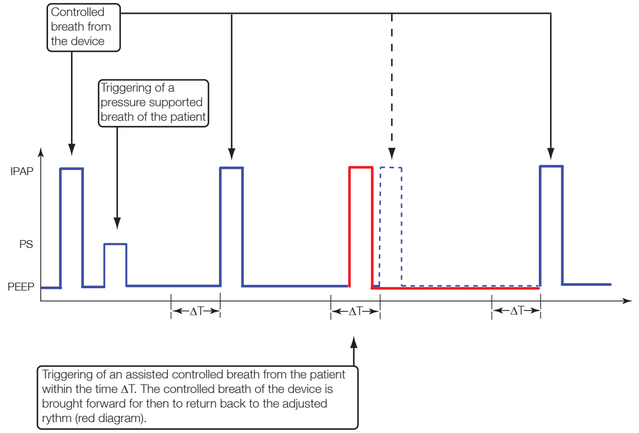
- In this mode, normaly every breath is taken by the patient. The exception is the triggring of the background frequency, caused be missing spontanuos breathing of the patient.



PSV - Pressure Supported Ventilation

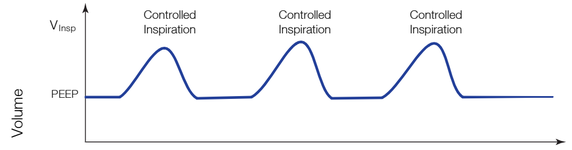
SIMV Synchonous Intermittent Mandatory Ventilation

- In the SIMV-Mode the ventilation modes PCV and PSV are combined.



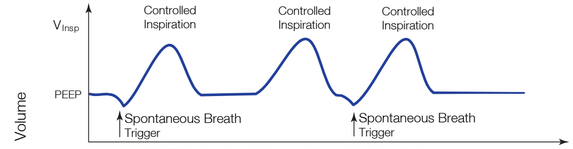
(A) VCV (Assisted) Volume Controlled Ventilation

- During the adjusted inspiration time the breathes are flow controlled in order to apply the Tidal volume.



VCV - Volume Controlled Ventilation

- If the trigger is active, the patient can request additional controlled breathes by inspiration.



(A) VCV - Assisted Volume Controlled Ventilation