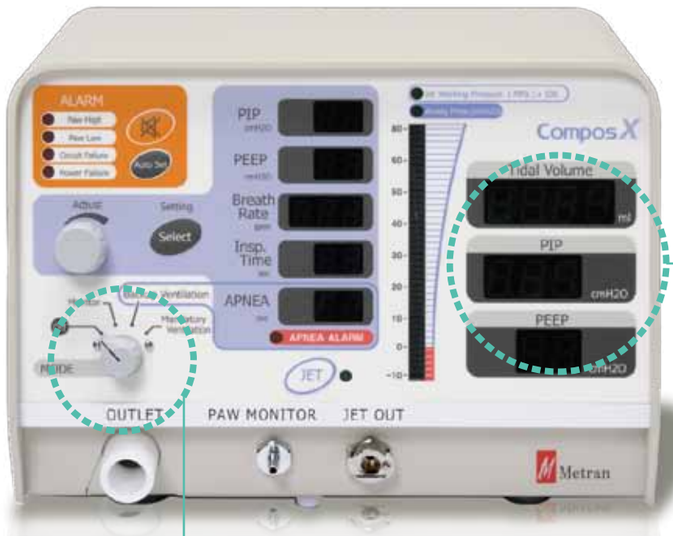
Compos X

Monitoring functions

Main ventilation parameters like tidal volume, inspiratory pressure and PEEP are always displayed, allowing the user to know the exact patient breathing conditions. Safe breathing conditions can be ensured with the accurate monitoring of these important parameters.



Backup ventilation mode

With this mode, when apnea is detected during spontaneous breathing, the ventilator will automatically start backup ventilation using the preset parameters.

Tidal Volume Monitoring Feature

- Whether during spontaneous or mandatory ventilation, tidal volume, along with inspiratory pressure, and PEEP values can be checked at any time on any breath. The Compos X compliance correction feature allows accurate measurement even during low flow conditions.
- The Compos X incorporates a long-life flow sensor that can be washed and sterilized to ensure clean application.

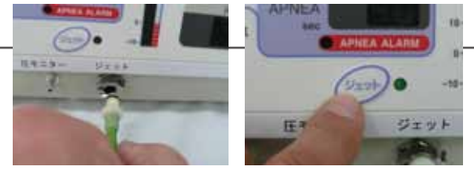
Wide range of patients from mice to large animals

- Ventilation type is pressure limited, time cycled. With the automatic flow rate correction feature, now it is possible to supply the patient with preset pressure and inspiratory time, regardless of changes in compliance or resistance.
- Breath rate ranges from 1 to 255bpm, providing flexible support from spontaneous supported breaths to high frequency ventilation.
- To avoid breath fighting, an incorporated SIMV feature will help to coordinate support to spontaneous breaths at the right time.

Enhanced alarm functions

- High Airway Pressure, Low Airway Pressure, Power Failure and Circuit Failure conditions are always monitored and the corresponding alarms provide the user with information at a glance.
- With the auto alarm setting function, forgetting to set an alarm is no longer a problem.
- Airway pressure is measured by a high-performance pressure sensor. The bar graph shows pressure values at glance, making the new Compos X more precise than the previous generation.

Independent jet ventilation circuit



- The jet can be used for delicate ventilation management of small animals difficult to intubate.

Easy Maintenance

- You can always count on a clean and sterilized flow sensor and breathing circuit by using EtO or autoclave.
- Compos X is equipped with maintenance mode, aiming to provide an easy-to-use device.

PEEP became even easier to use

- Setting range from 0 to 20cmH_2O

Compos Beta (Anesthesia Device)

Compos β

Collaboration of the Compos X and Anesthesia Device
Easy operation to provide safer breath management.

Specification (Compos Beta)

Safety feature ·····Nitrous Oxide Gas cut-off device
·····Low Oxygen pressure alarm
Flow Meter ·····Oxygen from 0.5 to 10L/min
·····Nitrous Oxide Gas from 0.5 to 10L/min
Dimension ·····400mm(W) x 470mm(H) x 242mm(D)
(450mm(W) when using the circuit holder arm)
Weight ·····10Kg

General

Name ·····Compos X
Input power ·····AC100V 50/60Hz
Power Consumption ···40VA
Gas Supply ·····0.3 to 0.5MPa

Ventilation

Ventilation Type·····Pressure Limited Time Cycled
PIP ·····0 to 80cmH2O (1cmH2O increments)
PEEP ·····0 to 20cmH2O (1cmH2O increments)
Breath Rate ·····1 to 255 bpm (1 bpm increments)
Inspiratory Time·····0.1 to 3.0 seconds (0.1sec. increments)
(no inverted IE ratio)

Alarms

High Pressure Alarm ···Audio, Visual and Auto set alarm
Low Pressure Alarm ···Audio, Visual and Auto set alarm
Disconnection Alarm···Audio, Visual and Auto set alarm
Power Failure Alarm ···Audio and Visual alarm
Apnea Alarm ·····Audio and Visual alarm
Alarm Mute·····30 seconds

Monitor

Tidal Volume·····30 to 2,000ml (±10% accuracy)
PIP·····0 to 80cmH2O (±10% accuracy)
PEEP·····0 to 80cmH2O (±10% accuracy)
Airway Pressure Monitor ···-10 to 80cmH2O (±2cmH2O accuracy)
Jet Ventilation Operating Pressure···0 to 0.8MPa (0.02MPa accuracy)
Apnea Monitor·····1 to 60 seconds
(depending on flow trigger setting)

Physical

Dimension ·····260mm(W) x 190mm(H) x 283mm(D)
Weight·····6kg

Integrated Compos X with anesthesia device
A simple operation to manage a safe breath

Comparison between Pressure Control (PCV) and Volume Control (VCV) Ventilation

	PCV	VCV
Main seting	Peak airway pressure	Tidal volume
Merits	Ventilator supplies pressure until attaining set pressure. The lungs are protected from barotrauma because maximum pressure can be set. In addition, there is compensation even with a leak in the circuit.	The set volume is provided to the lung without taking care of lung compliance or airway resistance changes.
Demerits	Amount of ventilation is influenced by changes in compliance, airway resistance, or thorax pressure, compromising appropriate volume delivery. It is recommendable using volume delivery monitor to check for low ventilation	Pressure increases until the set volume is supplied. Lung can get damaged in just few breaths. To minimize lung damage, safety valve and other safety measures should be provided to avoid barotrauma.

●Compos X ventilator is a PCV type
It compensates the system to provide required flow for a set inspiratory pressure and inspiratory time.
In addition, tidal volume on every breath is measured and displayed to make operation safe.

Distributor

Manufacturer

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Metran

Compos X

Protective ventilation for
our veterinary patients