

System Specifications

	sonata	elisa	
Dimensions			
Footprint	25,0 x 15,0 cm	25,0 x 24,0 cm	
Depth	25,0 cm	31,5 cm	
Width	28,0 cm	32,0 cm	
Height	25,5 cm	31,5 cm	
Weight	10,0 kg	14,7 kg	
Mains Connections, Power Supply			
Mains Supply AC	115 / 230 VAC	115 / 230 VAC	
Mains Supply DC	Backup battery, 30 minutes	Battery pack, 1h, exchangeable	
Emergency Supply	-	Internal battery, 30 minutes	
Ambient Conditions (During Operation)			
Temperature	10 to 40°C	10 to 35°C (40°C extended)	
Humidity Range	0 to 90% (non condensing)	0 to 90% (non condensing)	
Pressure Range	600 to 1060 hPa	600 to 1060 hPa	
User Interface			
Display Unit	Fixed	Swiveling, detachable	
Input Unit	9 Buttons, Selector	Touchscreen, Selector	
Display	6,5 inch, 640 x 480 pixel	12,1 inch, 800 x 600 pixel	
Patient Category			
Adult	✓	✓	
Child, more than 5 kg body weight	✓	✓	
Newborn, 2 to 6 kg body weight	-	Option	
Noise Emission			
Noise Level	≤ 46 dB	≤ 43 dB	
Modes of Ventilation			
VCV, a- VCV	✓	✓	
SIMV-VC	✓	✓	
BiLevel	✓	✓	
BiLevel/PSV	✓	✓	
Dyn-BiLevel	✓	✓	
CPAP/PSV/Apnea	✓	✓	
NIV	-	✓	
Graphics			
Pressure / Time	✓	✓	
Flow / Time	✓	✓	
Monitored Parameters			
MV-E	0,0 to 60,0 l/min	Adult / Child 0,0 to 50,0 l/min	Newborn 0,00 to 9,99 l/min
Vt-E	0 to 6000 ml	0 to 4000 ml	0 to 99,9 / 100 to 400 ml
Ppeak	0 to 90 cmH2O	0 to 90 cmH2O	0 to 90 cmH2O
Pmin	-10 to 90 cmH2O	-10 to 120 cmH2O	-10 to 120 cmH2O
O2-I	0 to 120%	0 to 120%	0 to 120%
Rate	0 to 250/min	0 to 250/min	0 to 250/min
Spirometry / Loops			
V/P	-	Adult / Child ✓	Newborn ✓
F/V	-	✓	✓
Values / Datatable			
Ppeak	0 to 90 cmH2O	Adult / Child 0 to 90 cmH2O	Newborn 0 to 90 cmH2O
Pplat	0 to 70 cmH2O	0 to 70 cmH2O	0 to 70 cmH2O
Pmean	0 to 70 cmH2O	0 to 70 cmH2O	0 to 70 cmH2O
Pmin	-10 to 70 cmH2O	-10 to 70 cmH2O	-10 to 70 cmH2O
PpEEP	-10 to 70 cmH2O	-10 to 70 cmH2O	-10 to 70 cmH2O
PEEPi	0 to 19,9 cmH2O	0 to 19,9 cmH2O	0 to 19,9 cmH2O
Vt-I	0 to 6000 ml	0 to 4000 ml	0,0 to 99,9 / 100 to 400 ml
MV sp	0,0 to 60,0 l/min	0,0 to 50,0 l/min	0,00 to 9,99 l/min
Rate sp	0 to 250/min	0 to 250/min	0 to 250/min
Resistance	0 to 400 cmH2O/l/sec	0 to 400 cmH2O/l/sec	0 to 400 cmH2O/l/sec
Compliance	0 to 200 ml/cmH2O	0 to 200 ml/cmH2O	0 to 200 ml/cmH2O
Leakage	-	0 to 100%	0 to 100%
RSBI	-	0 to 999	0 to 999
Controls and Ranges			
FiO2	21 to 100%	Adult / Child 21 to 100%	Newborn 21 to 100%
Rate	4 to 80 bpm	4 to 100 bpm	4 to 100 bpm
I:E Ratio	1:9,9 to 4,0:1	1:9,9 to 4,0:1 / 1:9,9 to 9,9:1	TInsp: 0,10 to 3,00 sec
Vt	20 to 2000 ml	20 to 2000 ml	-
PEEP / CPAP	Off to 35 cmH2O	Off to 35 cmH2O	Off to 8 cmH2O / 9 to 35 cmH2O
PS	0 to 59 cmH2O	0 to 59 cmH2O	0 to 30 cmH2O / 31 to 59 cmH2O
Pinsp	1 to 59 cmH2O	1 to 59 cmH2O	1 to 30 cmH2O / 31 to 59 cmH2O
Plimit	10 to 60 cmH2O	10 to 60 cmH2O	-
Trigger (Flow)	1 to 20 l/min (Flow)	0,5 to 20 l/min	1 to 20 l/min
Trigger Time Window	95% T-Exp, fixed	20 to 95% T-Exp	20 to 95% T-Exp
Ramp	0,05 sec to 3,00 sec (max. 80% T-Insp)	0,05 sec to 3,00 sec (max. 80% T-Insp)	0,05 sec to 3,00 sec (max. 80% T-Insp)
PS endflow	10 to 90%	10 to 60%	10 to 60%
Bias Flow	3 to 20 l/min	3 to 30 l/min	3 to 30 l/min
Alarm Volume	20 to 100%	20 to 100%	20 to 100%
Brightness	-	20 to 100%	20 to 100%
Manoeuvre			
Automatic Patient Detection	-	Adult / Child ✓	Newborn ✓
Automatic O2-Sensor Calibration	-	✓	✓
Tube Compensation	✓	✓	✓
Tube Diameter	4,0 to 10,0 mm	4,0 to 10,0 mm	3,0 to 6,0 mm
Level of Compensation	25 to 100%	25 to 100%	25 to 100%
Automatic Suction Routine (ASR)	-	✓	✓
Pre-Oxygenation	21 to 100% O2, 120 sec	21 to 100% O2, 120 sec	-
Inspiratory Hold / Expiratory Hold	✓	✓	✓
Manual Breath	✓	✓	✓
Freeze	✓	✓	✓
Alarms Autotest	✓	✓	✓
Leakage Compensation	✓	✓	✓
Nebuliser	21 to 60% O2 / 4 to 12 l/min	21 to 100% O2 / 4 to 12 l/min	21 to 100% O2 / 4 to 12 l/min
Leakage	-	✓	✓
RSBI	-	✓	✓
Alarm Settings			
MV max	0,6 to 60,0 l/min	Adult / Child 0,6 to 50,0 l/min	Newborn 0,20 to 9,90 l/min
MV min	0,5 to 59,9 l/min	0,5 to 49,9 l/min	0,10 to 9,80 l/min
Pmax	10 to 70 cmH2O	10 to 70 cmH2O	10 to 70 cmH2O
Rate max	3 to 200/min	3 to 200/min	3 to 200/min
Rate min	2 to 199/min	2 to 199/min	2 to 199/min
Apnea time	10 to 60 sec	10 to 60 sec	10 to 30 sec
Leakage	5 to 95%	5 to 95%	5 to 95%



salvia lets patients breathe again

elisa

Intensive Care Ventilators

sonata



From newborn to adult

The all-purpose intensive care ventilator elisa is prepared for all kind of patients: Newborn (optional), child and adult. Modern microprocessor technology, precise measurement techniques and efficient technologies assure an accurate ventilation therapy and individual ventilation strategies.

Invasive and non-invasive ventilation

elisa provides the clinical practice orientated combination of both invasive and non-invasive ventilation in a single device. You can choose between spontaneous or controlled non-invasive ventilation strategies.

The modern intensive care ventilator measures the expiration volume precisely and includes a reliable leakage compensation.

Flexibility and mobility

The swivel-mounted and removable colour display offers extra comfort. It can be bed- or wall-mounted, independent of the position of the ventilator. The practical trolley for the device and an external battery pack assure a maximum of flexibility and mobility.

- Lung-protective ventilation
- Individual ventilation strategies
- Intuitive operation
- Advanced safety-concept
- Unique expiration valve
- No disposable parts required

Dyn-BiLevel – High level dynamic ventilation

- Pressure controlled ventilation with volume guarantee
- To avoid volutraumas
- Safe handling for patient and user
- Automated weaning
- Simultaneous spontaneous ventilation on both pressure levels
- Automated adaptation of inspiration pressure according to the type of ventilation
- Reduced patient stress by intelligent alarm management

Compact size

The compact size of the intensive care ventilator ensures the highest performance combined with a minimum need of floor space.

Economical solution

A clear hygiene concept and a visionary detailed solutions support help to save costs. The heated expiration valve is for daily use in intensive care and ensures precise measured values also when using humidifiers. The use of disposable flowsensors and other consumables has been consciously rejected.

Intuitive menu navigation

The intuitive menu navigation is easy to use and especially developed for the needs of intensive care. The parameter settings, measured values and the representative curves are all clearly shown on the display.