



REPUBLIKA HRVATSKA
VARAŽDINSKA ŽUPANIJA

GRAD IVANEC
GRADONAČELNIK

KLASA: 406-01/20-01/82
URBROJ: 2186/12-02/02-20-2
Ivanec, 2020.

- prijedlog-

Na temelju članka 48. Zakona o lokalnoj i područnoj (regionalnoj) samoupravi („Narodne novine“ br. 33/01, 60/01, 129/05, 109/07, 125/08, 36/09, 150/11, 144/12, 123/17 i 98/19), članka 64. Statuta Grada Ivanca („Službeni vjesnik Varaždinske županije“ br. 21/09, 12/13, 23/13 – pročišćeni tekst i 13/18, 8/20) i članka 10. Odluke o izvršavanju Proračuna Grada Ivanca za 2020. godinu („Službeni vjesnik Varaždinske županije“ br. 83/19) gradonačelnik Grada Ivanca donosi sljedeći

ZAKLJUČAK

1. Odobrava se kapitalna pomoć Općoj bolnici Varaždin, Ivana Meštrovića bb, Varaždin, OIB u iznosu od 218.750,00 HRK za nabavu Ventilatora R860 I Modula Respiratorni, sve prema ponudi br. 20110020 Mediva d.o.o. Sveza Nedjelja, koja je sastavni dio ovog zaključka.
2. Opremu (respirator) iz točke 1. ovog Zaključka, Grad Ivanec, nabavlja se za potrebe Opće bolnice Varaždin, s ciljem pomoći građanima s područja Varaždinske županije oboljelih od Corona virusa.
3. Obvezuje se Opća bolnica Varaždin da po nabavi respiratora iz točke 1. ovog Zaključka dostavi Gradu Ivancu dokaze o plaćanju.
4. Zadužuje se Upravni odjel za proračun, financije i gospodarstvo, za isplatu iz točke 1. ovog Zaključka izvrši na teret pozicija 431. – 200.000,00 i 432. -18.750,00 HRK Proračuna Grada Ivanca za 2020.godinu, na žiro račun Opće bolnice Varaždin IBAN:

GRADONAČELNIK
Milorad Batinić

DOSTAVITI:

1. Upravni odjel za proračun, financije i gospodarstvo, ovdje
2. Pismohrana, ovdje

d.o.o. za trgovinu i usluge
Kerestinec, Svetonedeljska 62/a, 10 431 Sveta Nedelja
Računi: HR1523600001101323453 Zagrebačka banka
HR5623400091100237144 Privredna banka
HR4724070001100520467 OTP banka



OB VARAŽDIN

Ivana Meštrovića bb

42000 Varaždin

Sveta Nedelja, 03.11.2020.

Važnost: 03.12.2020.

Podaci o kupcu:

šifra: 000436 OIB: 59638828302

tel: 042/393-000 faks: 042/393-434

Naš znak:

Ponuda 20110020

Na temelju dogovora nudimo Vam dolje navedena dobra:

Rb	Šifra	Naziv artikla	P%	JM	Količina	Cijena	Rbt%	V Iznos
1	1506-860 0-000-VA N	Ventilator R860 GE Healthcare ventilator R860 R860 je ventilator napredne razine s alatima koji pomažu pri donošenju kliničkih odluka i zaštiti pluća pacijenta. Ventilator odlikuje inovativno korisničko sučelje koje olakšava upravljanje ventilatorom. Dostupni modaliteti ventilacije: - A/C reguliran volumenom ili tlakom - A/C PRVC - SIMV reguliran volumenom ili tlakom - SIMV PRVC - CPAP/PS - BiLevel - BiLevel s garantiranim volumenom - APRV - VS (podrška volumenom) - neinvazivna ventilacija - SBT - procjena pacijentove spremnosti na weaning	25 %	kom	1	150.000,00		150.000,00
2	2080358- 001	Modul respiratorni, E-SCOVX-00 Modul za napredna mjerenja: - mjerenje trenutne energetske potrošnje putem indirektna kalorimetrije - mjerenje funkcionalnog rezidualnog kapaciteta - optimizacija pacijentovog PEEP-a - mjerenje trahealnog tlaka putem intratrahealnog senzora	25 %	kom	1	25.000,00		25.000,00

Način plaćanja: transakcijski račun

Platiti cijeli iznos po dogovoru

U slučaju plaćanja po ponudi pozovite se na broj HR01 20110020-28

Isporuka u roku 7 radnih dana po narudžbi, franko kupac

Molimo Vas da prilikom narudžbe navedete broj ponude

Sukladno članku 9., stavak 3. Zakona o računovodstvu (NN 78/15), ova isprava je sastavljena i izdana računalno te je kao temelj za plaćanje pravovaljana jer sadržava ime i prezime osobe koja je odgovorna za njegovo izdavanje.

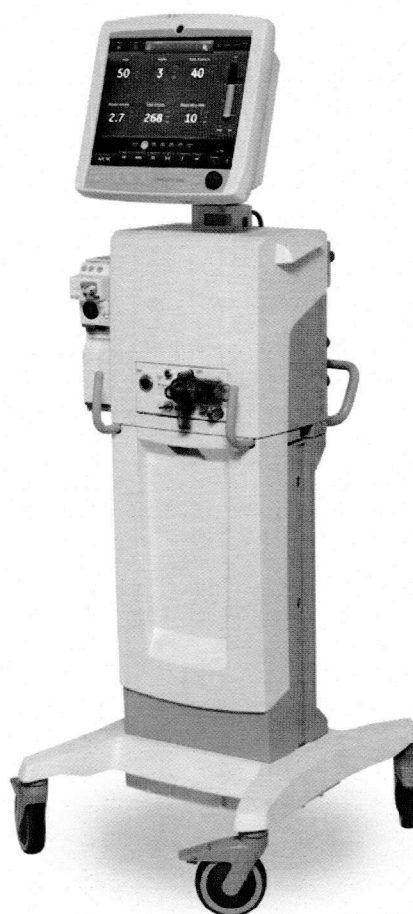
Molimo Vas, ukoliko ne poslužete putem računa Zagrebačke banke d.d. ili Privredne banke d.d. da uplatu izvršite na naš račun kod OTP banka d.d. na broj: HR4724070001100520467.

Ponudio: Maroje Ivanković

Ukupno bez poreza:	175.000,00
PDV osnovica (25%):	175.000,00
PDV (25%):	43.750,00
Iznos ponude (HRK):	218.750,00



CARESCAPE R860



Physical Specifications




Dimensions

Height:	48.85 cm/19.2 in (Display down) 73.8 cm/29.1 in (Display up)
Height including cart:	126.82 cm/49.9 in (Display down) 151.77 cm/59.8 in (Display up)
Width:	38 cm/15 in
Depth:	36 cm/14 in
Weight:	31 kg/68.0 lb (not including cart); 78 kg/171.2 lb (including cart)

Display motion




Vertical tilt:	162.1° in raised position 47.6° in lowered position
Height adjustment:	24.95 cm/9.8 in

Key:

-  Available only when Adult patient type is selected
-  Available only when Pediatric patient type is selected
-  Available only when Neonatal patient type is selected




























Note: Ranges and Settings without an icon pertain to all patient types unless otherwise stated.










Modes of Ventilation

































- A/C VC (Volume Control)
- A/C PC (Pressure Control)
- A/C PRVC (Pressure Regulated Volume Control)
- SIMV VC (Synchronized Intermittent Mandatory Ventilation, Volume Control)
- SIMV PC (Synchronized Intermittent Mandatory Ventilation, Pressure Control)
- CPAP/PS (Continuous Positive Airway Pressure/ Pressure Support)
- SBT (Spontaneous Breathing Trial)
- APRV* (Airway Pressure Release Ventilation)
- BiLevel* (BiLevel Airway Pressure Ventilation)
- BiLevel VG* (BiLevel with Volume Guarantee)
- SIMV PRVC* (Synchronized Intermittent Mandatory Ventilation, Pressure Regulated Volume Control)
- VS* (Volume Support)
- NIV* (Non-invasive Ventilation)  
- nCPAP* (Nasal Continuous Positive Airway Pressure) 

*Optional







Control and Ranges

Maximum peak flow:	30 L/min  100 L/min  208 L/min 
Flow:	0.2 to 30 L/min  2 to 72 L/min  2 to 160 L/min 
Incremental settings:	0.2 to 5 L/min (increments of 0.1 L/min) 5 to 30 L/min (increments of 0.5 L/min)  2 to 40 L/min (increments of 1 L/min) 40 to 72 L/min (increments of 2 L/min)  2 to 40 L/min (increments of 1 L/min) 40 to 160 L/min (increments of 5 L/min) 
FiO ₂ :	21 to 100% O ₂
Rate:	3 to 150 breaths per minute for A/C VC, A/C PC, A/C PRVC and BiLevel (increments of 1 breath per minute)  3 to 120 breaths per minute for A/C VC, A/C PC, A/C PRVC and BiLevel (increments of 1 breath per minute)   2 to 60 breaths per minute for SIMV VC, SIMV PC, SIMV PRVC and BiLevel VG (increments of 1 breath per minute)  1 to 60 breaths per minute for SIMV VC, SIMV PC, SIMV PRVC and BiLevel VG (increments of 1 breath per minute)   Off, 1 to 30 breaths per minute for nCPAP (increments of 1 breath per minute) 
Minimum rate:	1 to 60 breaths per minute for VS (increments of 1 breath per minute)   2 to 60 breaths per minute for VS (increments of 1 breath per minute)  Off, 1 to 60 breaths per minute for CPAP/PS (increments of 1 breath per minute) Off, 1 to 40 breaths per minute for NIV (increments of 1 breath per minute)  
Inspiratory/ expiratory ratio:	1:9 to 4:1 (ventilator setting) 1:199 to 40:1 in BiLevel and APRV  1:79 to 60:1 in BiLevel and APRV  
Tidal volume range:	2 to 50 mL  20 to 300 mL  100 to 2000 mL 

Incremental settings:	2 to 20 mL (increments of 0.1 mL) 20 to 50 mL (increments of 0.5 mL) For A/C VC, A/C PRVC, SIMV VC, SIMV PRVC, BiLevel VG, and VS  20 to 50 mL (increments of 0.5 mL) 50 to 100 mL (increments of 1 mL) 100 to 300 mL (increments of 5 mL) For A/C VC, A/C PRVC, SIMV VC, SIMV PRVC, BiLevel VG, and VS  100 to 300 mL (increments of 5 mL) 300 to 1000 mL (increments of 25 mL) 1000 to 2000 mL (increments of 50 mL) For A/C VC, A/C PRVC, SIMV VC, SIMV PRVC, BiLevel VG, and VS 
Patient weight:	0.25 to 1 kg (increments of 0.01 kg) 1 to 7 kg (increments of 0.1 kg) 7 to 10 kg (increments of 0.5 kg) 0.5 to 2 lb (increments of 0.02 lb) 2 to 15 lb (increments of 0.2 lb) 15 to 22 lb (increments of 1 lb)  4 to 7 kg (increments of 0.1 kg) 7 to 15 kg (increments of 0.5 kg) 15 to 60 kg (increments of 1 kg) 8 to 15 lb (increments of 0.2 lb) 15 to 34 lb (increments of 1 lb) 34 to 132 lb (increments of 2 lb)  20 to 100 kg (increments of 1 kg) 100 to 200 kg (increments of 2 kg) 44 to 220 lb (increments of 2 lb) 220 to 440 lb (increments of 5 lb) 
Inspiratory pressure (P _{insp}) range:	1 to 98 cm H ₂ O (increments of 1 cm H ₂ O) 1 to 30 cm H ₂ O (increments of 1 cm H ₂ O) in NIV   1 to 25 cm H ₂ O (increments of 1 cm H ₂ O) in nCPAP 
P _{high} :	1 to 98 cm H ₂ O (increments of 1 cm H ₂ O)
P _{low} :	Off, 1 to 50 cm H ₂ O (increments of 1 cm H ₂ O)
Pressure limit (P _{limit}) range:	7 to 100 cm H ₂ O for A/C VC and SIMV VC (increments of 1 cm H ₂ O)
P _{min} :	2 to 20 cm H ₂ O (increments of 1 cm H ₂ O)
Max. inspiratory pressure (P _{max}) range:	7 to 100 cm H ₂ O (increments of 1 cm H ₂ O) 9 to 100 cm H ₂ O (increments of 1 cm H ₂ O) in NIV and nCPAP

PEEP:	Off, 1 to 50 cm H ₂ O (increments of 1 cm H ₂ O) 2 to 15 cm H ₂ O (increments of 1 cm H ₂ O) in nCPAP  2 to 20 cm H ₂ O (increments of 1 cm H ₂ O) in NIV  	PS Rise Time:	0 to 500 ms of inspiratory period for pressure supported breaths only. Active in SIMV VC, SIMV PC, SIMV PRVC, CPAP/PS, BiLevel VG, BiLevel and VS (increments of 50 ms)
Inspiratory time:	0.1 to 10 sec 0.1 to 2 sec in nCPAP 0.1 to 1 sec (increments of 0.01) 1 to 4 sec (increments of 0.1) 4 to 10 sec (increments of 0.25)  0.25 to 15 sec 0.25 to 5 sec in NIV 0.25 to 1 sec (increments of 0.05) 1 to 4 sec (increments of 0.1) 4 to 15 sec (increments of 0.25)  	Trigger window:	80% of expiration time
T _{high} :	0.1 to 10 sec 0.1 to 1 sec (increments of 0.01) 1 to 4 sec (increments of 0.1) 4 to 10 sec (increments of 0.25)  0.25 to 15 sec 0.25 to 1 sec (increments of 0.05) 1 to 4 sec (increments of 0.1) 4 to 15 sec (increments of 0.25)  	Insp Trigger, flo	0.2 to 1 L/min (increments of 0.05 L/min) 1 to 3 L/min (increments of 0.1 L/min) 3 to 9 L/min (increments of 0.5 L/min)  1 to 3 L/min (increments of 0.1 L/min) 3 to 9 L/min (increments of 0.5 L/min)  
T _{low} :	0.25 to 18 sec 0.25 to 1 sec (increments of 0.01) 1 to 4 sec (increments of 0.1) 4 to 18 sec (increments of 0.25)  0.25 to 18 sec 0.25 to 1 sec (increments of 0.05) 1 to 4 sec (increments of 0.1) 4 to 18 sec (increments of 0.25)  	Insp Trigger, pressure:	-10 to -3 cm H ₂ O (increments of 0.5 cm H ₂ O) -3 to -0.25 cm H ₂ O (increments of 0.25 cm H ₂ O)
T _{supp} :	0.1 to 0.8 sec (increments of 0.01)  0.25 to 1.5 sec 0.25 to 1 sec (increments of 0.05) 1 to 1.5 sec (increments of 0.1)   0.25 to 4 sec 0.25 to 1 sec (increments of 0.05) 1 to 4 sec (increments of 0.1) 	Bias flow rate:	2 to 10 L/min (increments of 0.5 L/min) 2 to 15 L/min (increments of 0.5 L/min) for nCPAP  8 to 20 L/min for NIV (increments of 0.5 L/min)  
Expiratory time:	0.25 to 59.75 sec   0.25 to 29.9 sec Invasive vent modes  0.5 to 59.75 sec for NIV  	Insp. pause:	0 to 75% of inspiration time (increments of 5%)
Rise time:	0 to 500 ms of inspiratory period for pressure depending on the mode selected. Active in APRV, A/C PC, A/C PRVC, SIMV PC, SIMV PRVC, BiLevel VG, NIV and BiLevel (increments of 50 ms)	T _{pause} :	0 to 7.5 sec 0 to 1 sec (increments of 0.05) 1 to 4 sec (increments of 0.1) 4 to 7.5 (increments of 0.25)  0 to 11 sec 0 to 1 sec (increments of 0.05) 1 to 4 sec (increments of 0.1) 4 to 11 (increments of 0.25)  
		Pressure support from PEEP level:	0 to 60 cm H ₂ O for SIMV VC, SIMV PC, SIMV PRVC, BiLevel, BiLevel VG and CPAP/ PS (increments of 1 cm H ₂ O) 0 to 30 cm H ₂ O for NIV (increments of 1 cm H ₂ O)  
		Expiratory Trigger:	5 to 80% of peak flow for NIV, SIMV VC, SIMV PC, SIMV PRVC, BiLevel, BiLevel VG, VS and CPAP/PS (increments of 5%)

Alarm Settings

Tidal volume:	Low:	Off, 1 to 1950 mL
	High:	3 to 2000 mL, Off
Minute volume:	Low:	0.01 to 40 L/min
	High:	0.02 to 99 L/min
Respiratory rate:	Low:	Off, 1 to 99/min
	High:	2 to 150/min, Off
Inspired oxygen (FiO ₂):	Low:	18 to 99%
	High:	24 to 100%, Off
P _{max} :	High:	7 to 100 cm H ₂ O 9 to 100 cm H ₂ O in NIV and nCPAP
P _{peak} :	Low:	1 to 97 cm H ₂ O
PEEP _e :	Low:	Off, 1 to 20 cm H ₂ O
	High:	5 to 50 cm H ₂ O, Off
PEEP _i :	High:	1 to 20 cm H ₂ O, Off  
P _{limit} :		7 to 100 cm H ₂ O
Apnea alarm:		5 to 60 sec
Circuit leak:		10 to 90%, Off
EtO ₂ :	Low:	Off, 10 to 99%
	High:	11 to 100%, Off  
EtCO ₂ :	Low:	Off, 0.1 to 14.9% Off, 0.5 to 114.5 mmHg
	High:	0.2 to 15%, Off  
Ventilation soft limit indicators:	When adjusting selected ventilator parameters, color indicators show when parameters are approaching their setting limits.	
Parameters with soft limits:	P _{max} , PEEP, P _{insp} , PS, T _{insp} , RR, I:E, P _{high} , P _{min} , P _{low} , T _{high} and T _{low}	

Alarm System

Escalating alarms:	High priority alarms escalate to a higher pitch if unattended for specified time
Adjustable to:	0, 10, 20 and 30 sec, Off
Auto limits:	Alarm limits calculated on the current measured values for selected parameters

Procedures







Suction

Program routine:	Automatic
Pre-oxygenation:	≤ 2 minutes with 100% O ₂ with automatic disconnection detection*
Standby pause:	≤ 2 minutes with automatic patient (re-connection) detection
Post-oxygenation:	≤ 2 minutes with 100% O ₂ *
Note: FIO ₂ can be set to level other than 100%	
*Note: 5 to 75% above current FiO ₂ setting	

Manual breath

Auto PEEP (includes PEEP_i Volume)




Lung Mechanics:	P0.1 NIF Vital Capacity
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Inspiratory hold:	2 to 15 sec (increments of 1 sec)  
	15 to 40 sec (increments of 5 sec) 
Expiratory hold:	2 to 20 sec (increments of 1 sec)  
	20 to 60 sec (increments of 5 sec) 

Spontaneous Breathing Trial (SBT)

(Adjustable range: 15 min, 30 min, 45 min, 1 h, 1.5 h, 2 h, 4 h, 6 h, 8 h, 12 h)

Spirometry

Data source:	Ventilator or Compact Airway Module (E-COV, E-COVX, E-CAiOV, E-CAiOVX, E-sCOV, E-sCAiOV)   Ventilator or Neonatal Flow Sensor 
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Loop types:	Pressure-Volume, Pressure-Flow and Flow-Volume
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Saved loop:	Up to six loops can be saved
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Reference loop:	A saved loop can be selected as the reference loop to compare with the current loop being displayed
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Cursor:	Freezes current loops and provides numeric display of X and Y axis as cursor moves across loops
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Pulmonary mechanics:	P _{peak} , P _{plat} , P _{mean} , PEEP _e , PEEP _i , VT _{insp} , VT _{exp} , MV _{insp} , MV _{exp} , Compliance and Resistance, I:E
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Auxiliary Pressure

Auxiliary pressure (P _{aux}):	Measured range: -20 to +120 cm H ₂ O Alarm range: 12 to 100 cm H ₂ O
Purge flow:	Low flow to clear the P _{aux} line, can be turned Off

SpiroDynamics (optional)

Note: Not available when Neonatal patient type is selected

- Tracheal Pressure – Volume loop displayed
- Dynostatic Curve displays calculated alveolar pressure
- Tracheal pressure measured via GE's intratracheal pressure sensor
 - Connects directly to CARESCAPE R860's auxiliary pressure port
- 3 point compliance measurement
 - at 5-15% of the breath
 - at 45-55% of the breath
 - at 85-95% of the breath
- Store up to 6 SpiroDynamic loops
- Store up to 6 Dynostatic curves
- Overlay loops and/or curves over current loop
- Cursor available across all displayed loops and curves
 - Pressure and volume values displayed at cursor position
- P_{peak} , $PEEP_e$, Compliance and P_{mean}

FRC INview (optional)

Note: Not available when Neonatal patient type is selected

- Functional Residual Capacity measurement
 - Wash-in and Wash-out method provides 2 separate FRC measurements
- FRC displayed both numerically and graphically
- The most recent 5 FRC procedures displayed
- $PEEP_e$, C_{stat} and $PEEP_i$ displayed with each FRC
- Trend Log records:
 - FRC measurements
 - Ventilator settings and procedures that may affect the FRC procedure
- Programmable time intervals for automatic FRC measurements

PEEP INview (available with FRC INview)

Note: Not available when Neonatal patient type is selected

- Measures FRC at up to 5 different PEEP levels
- Graphic and numeric display of FRC values
- User selectable beginning and ending PEEP levels
 - Ventilator evenly spaces additional PEEP levels
 - PEEP levels can either increase or decrease
- $PEEP_e$, C_{stat} and $PEEP_i$ displayed during each FRC measurement

Lung INview (available with SpiroDynamics and FRC INview)

Note: Not available when Neonatal patient type is selected

- Integrates SpiroDynamics and FRC INview within the PEEP INview procedure
- Measures the amount of volume between the Dynostatic curves at each FRC measurement
- Estimate of recruitment volume

Vent Calculations

Note: Not available when Neonatal patient type is selected

Data from CARESCAPE R860 and external lab results are used to provide the following values:

- PAO_2 – Alveolar partial pressure of oxygen
- $AaDO_2$ – Alveolar arterial oxygen difference
- Pa/FiO_2 – Oxygenation index
- PaO_2/PAO_2 – Alveolar arterial oxygen pressure difference
- CO – Cardiac output
- OI – Oxygen Index
- SpO_2/FiO_2 – Saturation FiO_2 Ratio
- V_d/V_t – Dead space ventilation
- V_d – Dead space volume
- VA – Alveolar ventilation

Non-Invasive Ventilation (NIV) (optional)

Mask ventilation: Yes

Integrated unique leak recognition algorithm

Automatic Patient Detection (APD)

Patient re-connection: Automatic detection in standby

Detection by: Back pressure to Bias-flow

100% O_2 ($\uparrow O_2$)

Delivers 5 to 75% above current FiO_2 setting for ≤ 2 minutes

Delivers 100% O_2 for ≤ 2 minutes

Can be adjusted to other $O_2\%$

Take Snapshot

Immediate capture and storage of critical data currently on the CARESCAPE R860's display

Stored data:	All available waveform data (15 or 30 seconds) Alarm messages (Currently active Alarm messages) All measured parameters All set ventilator parameters
Maximum stored Snapshots:	10 most recent
Cursor:	Ability to cursor across waveforms for specific measured values

Ventilator Preferences

Backup Mode:	Establishes the specific ventilator mode and parameters used in the event that the ventilator switches to Backup ventilation
Tube Compensation:	Allows control and setting of the airway resistance compensation
Assist Control:	Allows the user to turn the Assist Control capability On or Off
Leak Compensation:	Allows the user to turn the Leak Compensation capability On or Off
Trigger Compensation:	Allows the user to turn On or Off compensation for flow triggering

Tube Compensation

Note: Not available when Neonatal patient type is selected

Type of compensation:	Electronic tube compensation
Compensation for:	Endotracheal and tracheostomy tubes
Tube diameter:	5 to 10 mm
Level of compensation:	25 to 100%

Mode Families

Allows user adjustment to specify certain parameters that align with the hospital's current ventilator usage.

Adjustable parameters:	Flow and Inspiratory timing
Family 1:	Flow control is On/Insp. Timing is I:E
Family 2:	Flow control is Off/Insp. Timing is I:E
Family 3:	Flow control is On/Insp. Timing is T_{insp}
Family 4:	Flow control is Off/Insp. Timing is T_{insp}
Family 5:	Flow control is On/Insp. Timing is T_{pause}

Ventilator Monitoring

Airway pressure	-20 to +120 cm H ₂ O
Patient flow	0.1 to 32 L/min
	1 to 200 L/min
Tidal volume	0.5 to 1,000 mL with the Neonatal Flow Sensor
	1 to 1,000 mL without the Neonatal Flow Sensor
	5 to 2,500 mL
Minute volume	0 to 99.9 L/min
CO ₂	0 to 15%/0 to 113 mmHg
Compliance	0.1 to 150 mL/cm H ₂ O
Resistance	1 to 500 cm H ₂ O/L/s
RQ	0.6 to 1.2
VO ₂	20 to 1000 mL/min
VCO ₂	20 to 1000 mL/min
Rate	0 to 150 breaths per minute (increments of 1 breath per minute)
	0 to 120 breaths per minute (increments of 1 breath per minute)
FiO ₂	10 to 100%
Rapid Shallow Breathing Index (RSBI)	1 to 999 bpm/L

Oxygen Monitoring

Technology:	Dynamic Paramagnetic Oxygen monitoring system
Life span:	Non-depleting technology




Screen

Display type:	38 cm/15 inch touch screen full color LCD adjustable viewing angle
Waveforms in screen:	Up to four at a time
Waveform parameters:	Pressure, flow, volume, CO ₂ , O ₂ and auxiliary pressure
Graphic scaling:	Automatic scaling for optimal size or independent scaling
Data:	Control parameters, patient data, alarm settings and messages
Status indicator:	Ventilation mode, battery level, clock
Favorites:	9 procedure Hyperlink shortcuts to choose from 4 selectable at one time

Ventilator Monitoring Accuracy**

Pressure readings: ± 2 cm H₂O

* Pressure reading accuracy may decrease with use of HME

Volume readings: $\pm 10\%$ or ± 1 mL, whichever is greater (with proximal neonatal flow sensor)
 $\pm 10\%$ or ± 5 mL, whichever is greater without proximal neonatal flow sensor 
 $\pm 10\%$ or ± 10 mL, whichever is greater  


O₂ concentration monitor: $\pm 2.95\%$

Note that these values are only true if you do not have a leak and have no pneumatic nebulizer flow.

Delivery Accuracy**

Inspired pressure control: ± 2 cm H₂O




Oxygen – Air mixing: $\pm 2.95\%$ V/V of setting

Tidal volume delivery: $\pm 10\%$ of setting or ± 1 mL, whichever is greater (with proximal neonatal flow sensor) 
 $\pm 10\%$ of setting or ± 5 mL, whichever is greater

Nebulization

Nebulizer:	Aeroneb Nebulizer System built-in
Nebulizer technology:	Electronic micro pump
Nebulizer run time:	7, 8, 11, 16, 21, 26, 32 min Continuous (Aeroneb Solo only)
Nebulizer delivery volume:	Volumes correspond to time settings; 2.5, 3, 4, 6, 8, 10, 12 respectively.
Particle size:	Average 3.1 microns MMAD (MMAD = "Mass Median Aerodynamic Diameter")
Residual volume:	Average < 0.1 mL
Performance may vary depending upon the type of drug used. For additional information contact Aerogen or drug supplier.	

Pneumatic nebulizer

Flow compensation: 1 to 4 L/min (increments of 0.5 L/min) 
1 to 12 L/min (increments of 0.5 L/min)  

Monitor Module

Compact airway module compatibility: E-CO, E-COV, E-COVX, E-CAiO, E-CAiOV, E-CAiOVX, E-miniC, E-sCO, E-sCOV, E-sCAiO, E-sCAiOV

Note: The CARESCAPE R860 does not utilize the Ai, (inhaled anesthesia) feature of the compact airway modules at this time.

Note: The CARESCAPE R860 does not utilize any of the compact airway modules when the Neonatal Option is in use.

Trends

Trend data:	Set parameters and measured data
Trend styles:	Measured and graphic
Maximum trending:	72 hours
Trend scaling:	15 min, 30 min, 45 min, 1 h, 1.5 h, 2 h, 4 h, 6 h, 8 h
Resolution:	1 minute intervals

External Communications

Communication ports: 2 Serial port (RS-232), RS-422 port (service support), nurse call

** Ventilation delivery specifications requirements:

- Operating at ISO 80601-2-12 patient conditions

Electrical Specifications

Line supply

Line voltage: 85 to 132 Vac, 47/63 Hz
190 to 264 Vac, 47/63 Hz

Power consumption: < 200 VA

Battery supply

Back-up battery: Built-in
Type: Lead acid gel
Battery back-up time: Up to 85 minutes, 30 minute minimum,
battery fully charged

Gas supply

Single gas operation: Yes
Emergency air valve: Built-in

Oxygen supply

Pressure range: 240 to 650 kPa/35 to 94 psi
Flow: 160 L/min

Air supply

Pressure range: 240 to 650 kPa/35 to 94 psi
Flow: 160 L/min

Environmental Specifications

Thermal

Operating range: 10° to 40°C
Storage range: -20° to 60°C

Humidity

Operating range: 15 to 95% RH Non-condensing
Storage range: 15 to 75% RH Non-condensing

Vibration and shock

System complies with ISO 80601-2-12:2011.

Altitude

Operating range: -400 to 3000 m/525 to 800 mmHg
Storage range: -400 to 5860 m/375 to 800 mmHg