

**EHYA DARMAN
PISHRAFTEH CO.**

The First Manufacturer of Ventilator, Anesthesia machine, and Imaging CT Scan in Iran

Ehya Darman Pishrafteh Co. is the first manufacturer of intensive care ventilators (infants-adults), specialized neonatal ventilators, anesthesia machines, and the only manufacturer of CT scan in Iran.





EHYA DARMAN PISHRAFTEH CO.

Ehya Darman Pishrafteh Co. began as a reseller and importer of European-made Respiratory equipment. After gaining experience and technical knowledge, the company began producing ventilators for the first time in Iran. After gradually transferring manufacturing technology, it was granted an independent production license for intensive care ventilators and anesthesia machines, establishing itself as a leading Iranian knowledge enterprise. The company received the international CE certificate for its products after receiving certifications from local authorities and producing high-quality products. Ehya Darman Co. took the next step by manufacturing CT scanners after 20 years of experience in manufacturing medical equipments and knowledge of manufacturing, sales, and after-sales service challenges in Asian, European, and African countries. It was introduced as an independent manufacturer of CT scan in Iran, relying on its technical knowledge, experienced specialists, and reputation in after-sales services.



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Intensive Care Ventilator

Brand: **EDP**

Model: **EDP-ADVANCE**

CAPNOGRAPHY:

⊕ **ETCO₂**: Partial Pressure at the end of expiration

⊕ **Peco₂**: Mean expired Partial pressure

⊕ **Vd/Vt**: Ratio between the Serial dead space

⊕ **Va**: Alveolar volume of each breath

⊕ **Vd**: serial or anatomical Dead space volume of each breath

⊕ **Vtco₂**: CO₂ expired volume per breath

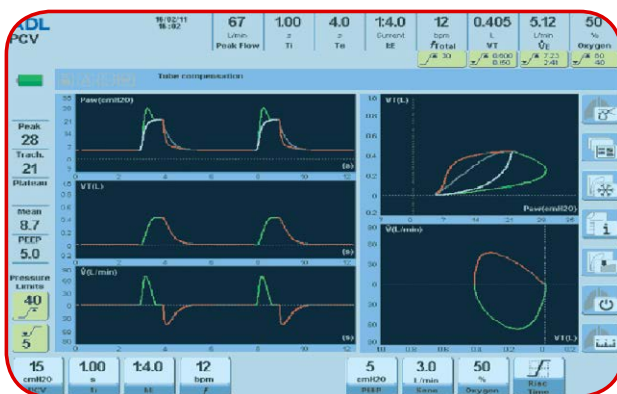
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Patient Category: Neonate - Pediatric - Adult

Intensive Care Ventilator

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12.1" touchscreen LCD display	Capnograph and waveform capnograph display
Tidal volume from 2 ml	Invasive and non-invasive ventilation
Respiration curve and loop display and storage	Compensation: compensation of 10%-100% for 4-12mm
Auto emergency mode	Volume correction according to patient circuit compliance
Can operate over 3 hours with internal battery	Leak compensation available in all operative modes
Information transfer to the central computer for reporting	Endotracheal or tracheotomy tube
Leak compensation	Body temperature volume correction (BTPS)
Advanced NCPAP model	Altitude compensation for volume correction
Drug nebulizer	Tidal volume setting based on ideal body weight (IBW)

F/VT, Cdyn, WOBI, Cst, Ri, Re, Auto PEEP, Leak, %Leak, Ti-Ttotal, Ve Mandatory, VE Spont, F Spont, Tcexp display

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OPERATIVE MODES :

Adult and Pediatric

- ⊕ VCV - Volume control(assisted/controlled)
- ⊕ PCV- Pressure Control(assisted/controlled)
- ⊕ PSV- Pressure Support
- ⊕ CPAP - Continuous Positive Airway Pressure
- ⊕ SIMV(VCV)+PSV [with backup rate - non]
- ⊕ SIMV(PCV)+PSV [with backup rate non]
- ⊕ PSV+VT Assured(VAPS)
- ⊕ APRV - Airway Pressure Release Ventilation
- ⊕ PRVC - Pressure Regulated Volume Control
- ⊕ MMV+PSV-Mandatory Minute Ventilation
- ⊕ NIV - Noninvasive Ventilation
- ⊕ Apnea Backup
- ⊕ Auto Emergency Ventilation

Neonates - INFANTS

- ⊕ VCV - Volume control(assisted/controlled)
- ⊕ PCV- Pressure Control(assisted/controlled)
- ⊕ PSV- Pressure Support
- ⊕ CPAP - Continuous Positive Airway Pressure
- ⊕ SIMV(VCV)+PSV [with backup rate non]
- ⊕ SIMV(PCV)+PSV [with backup rate non]
- ⊕ APRV - Airway Pressure Release Ventilation [with backup rate - non]
- ⊕ PRVC - Pressure Regulated Volume Control
- ⊕ TCPL -Time Cycled Pressure Limited(with Continuous flow)
- ⊕ SIMV(TCPL)+PSV (With continuous flow) [with backup rate non]
- ⊕ NCPAP: CPAP with Continuous flow(with leak compensation for NIV)
- ⊕ Apnea Backup
- ⊕ Auto Emergency Ventilation



Intensive Care Ventilator

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TECHNICAL DATA VENTILATOR:

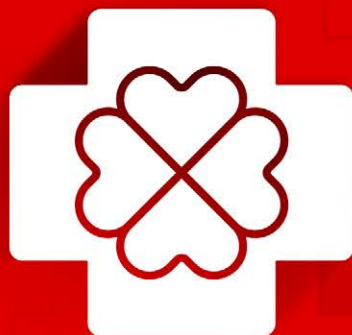
Range of definable parameters

- ⊖ Tidal Volume: 2-2500 ml
- ⊖ Pressure Control (PCV): 2-100 cm H₂O
- ⊖ Pressure Support (PSV): 0-100 cm H₂O
- ⊖ Programmable Minute Volume (MMV+PSV): 1.0 - 50 L/min
- ⊖ Resulting Minute Volume :0.01-130 L/min
- ⊖ Respiratory Rate: 1-150 bpm
- ⊖ Continuous Flow (NEO-INF): 2 - 40 (L/min)
- ⊖ Limited Pressure in TCPL (NEO-INF): 3-70 cmH₂O
- ⊖ Maximum pressure Limited (safety limits): up to 120 cmH₂O
- ⊖ Inspiratory Time : 0.1 - 3 s (30s in APRV)
- ⊖ PEEP/CPAP: 0 to 50 cm H₂O
- ⊖ Inspiratory Flow: 0.2 - 180 (L/min)
- ⊖ I:E Ratio: Volume mode: 1:1 - 1:20; Pressure Control: 5:1 - 1:20
- ⊖ Expiratory Sensitivity: 5% to 80% of peak flow
- ⊖ Sigh (VCV only): Number, Events per hour, Volume, and Max. Pressure.
- ⊖ Inspiratory Sensitivity:(below PEEP)
 - Flow Triggered : 0.2-15L/min
 - Pressure Triggered:0.5-20cmH₂O
- ⊖ Nebulizer

- ⊖ Pause insp/Exp (vcv only) 0 to 2 seconds with 0.25 s increments.

Advanced Respiratory Analysis

- ⊖ AUTO PEEP
 - ⊖ Static and Dynamic Compliance
 - ⊖ Inspiratory and Expiratory Resistance
 - ⊖ Slow Vital Capacity: Actual /Best (non - forced)
 - ⊖ Maximum inspiratory pressure (Pi max)
 - ⊖ Imposed work of Bearthing(WOBi)
 - ⊖ Rapid Shallow breathing index (F/VT index)
 - ⊖ Trapped volume: Tidal volume/Total volume/Trapped
 - ⊖ Occluded inspiratory effort during 100ms(P 0.1)
 - ⊖ Inflexion Points Of The P/V Curve (P/Vflex)
 - ⊖ Physiological Vd/Vt Calculation
 - ⊖ Physiological Dead Space
 - ⊖ Expiratory time constant (TCexp)
- ### Exhalation parameters
- ⊖ Airway Pressure : Peak, Plateau, Mean, PEEP
 - ⊖ Inspiratory time (Ti) and Expiratory time (Te)
 - ⊖ I: E Ratio Current
 - ⊖ Rate : Total rate expressed in breaths per minute
 - ⊖ Expired Tidal volume
 - ⊖ Expired Minute Volume
 - ⊖ O₂ Percentage



EHYA DARMAN PISHRAFTEH CO.

View Website



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