

Features Comparison of Junior and Tafonius Large Animal Machines

Junior Sans gas	Junior w/gas	Tafonius (full boat)	
000A5241	000A5242B	000A4630	
Ventilator only	Gas machine and ventilator	Gas machine, ventilator, monitoring and advanced features	<i>Features as of 23 April 2026</i>
√	√	√	• Stainless and Aluminum construction with white powder coated finish
15 seconds	30 seconds	2 seconds	• Quick access to internal cleaning of the "bellows"
√	√	√	• 6" wheels, front wheel locks
√	√	√	• Accommodates a wide range of patients 100 lbs - 2000 lbs (more or less!)
√	√	√	• Future, new modes of ventilation as features are software upgradeable
√	√	√	• Always powered by two 12v rechargeable batteries, AC keeps them topped off
√	√	√	• Servo driven piston, NO bellows
√	√	√	• Control Settings for Tidal Volume, Respiratory Rate, Insp-time, MWPL, CPAP/PEEP Assist, Displays the Resulting MV, I-flow, E-time and I:E ratio
√	√	√	• Displays above parameters when patient is spontaneously breathing; Respiratory monitoring
√	√	√	• Tidal volumes up to 20 liters in 100ml increments with 25 ml resolution
Future	Future	√	• Delivers compliance compensated TVs insures the patient actually receives the set TV
√	√	√	• Respiratory Rate 1 - 30 breaths per minute
√	√	√	• Maximum Working Pressure Limit adjustable from 10 - 80 cmH2O
√	√	√	• Implementation of PEEP and CPAP up to 50cmH2O
√	√	√	• Implementation of Assist Mode Ventilation
√	√	√	• Inspiratory flow rates up to 700 lpm
√	n	√	• Implementation of Flex Ventilation Mode
√	√	√	• Facilitates the implementation of Closed Circuit Anesthesia with add-a-liter feature
√	√	√	• Scavenging flowmeter
√	√	√	• Backup scavenging system
√	√	√	• Uses NO driving gas to compress the "bellows"; a major ongoing cost savings
√	√	√	• Oxygen is used only for patient uptake
Optional	√	√	• Airway pressure gauge
Additional	Additional	Additional	• IV pole (JR HEMC PN 000A5246) (TAF HEMC PN 000A5265A)
√	√	√	• 22mm Foal Breathing Circuit included
√	√	√	• Lightweight, kink free clear breathing tubes
√	√	√	• Accommodates both funnel fit and Bivona/Drager style ET tube adapters
√	√	√	• Absorber pan holds 6.5 liters, 11.7 lbs, 5.3 kg of absorbent
√	√	√	• Oxygen flowmeter for manual use
√	√	√	• Oxygen flush button for manual use
√	√	√	• Hospital line pressure gauge
√	√	√	• Low oxygen supply pressure alarm
√	Additional	Additional	• Optional N2O and/or Air flowmeters(HEMC PN 240A3620)
√	√	√	• Bronchodilator injection port
√	Additional	√	• Pullout swiveling keyboard tray (HEMC PN 000A5263)
√	Optional	Optional	• Dual mount Select-a-Tec™ vaporizer back bar (HEMC PN 000A6176)
√	Optional	Optional	• Single Select-a-Tec Vaporizer Mount (HEMC PN 000A5029)
√	n	√	• Swivel valve block permits the breathing tubes to exit to the right or the left
√	n	√	• Stainless hoop handle and bumpers
√	√	√	• GFI protected with 1 auxiliary AC power outlets
√	n	√	• Panel mount e-cylinder pressure gauge
√	n	√	• "Crash cart" drug drawer below work surface
√	n	√	• Absorbent can be changed in seconds
√	n	√	• Two work lights and a built in maintenance tool kit
√	n	√	• Accommodates two oxygen e-cylinders for backup, temporary disconnect or field use
Additional	Additional	Included	• Optional oxygen e-cylinder mount for backup, temporary disconnect or field use
√	√	√	• Footprint 30"wide x 36"deep, height is 72"
√	√	√	• Redundant computer systems
√	√	Main Control	• 15" 1028x768 touchscreen computer w/GUI interface and 160 Gigabyte HD
Main Control	Main Control	Backup Control	• Microprocessor with TV, RR, Itime, MWPL, CPAP/PEEP and Assist mode controls
√	√	√	• Settable Ip, inspiratory pause, 0-40% of the Itime
√	√	√	• Settable FiO2, 30% - 100 % (requires Air Option above)
√	√	√	• Choice of automatic or manual modes for FiO2 and anesthetic delivery
√	√	√	• Fully integrated monitoring of ECG, IBP, SpO2, Temp, Insp/Expired CO2, O2, Agent, N2O
√	√	√	• Sidestream Gas Analyzer standard
√	√	√	• Paramagnetic oxygen sensor w/ above, no galvanic cells to worry about or replace!
√	√	√	• High and low alarms for all parameters
√	√	√	• Anesthesia record printout for clinical use
√	√	√	• Data collection to Excel™ for research
√	√	Future	• User programmability for the researcher
√	√	√	• Unlimited presets for recalling all settings and alarms for different doctors or types of cases
√	√	√	• Trend display of all measured parameters
√	√	√	• User configurable display of traces and trends
√	√	√	• Freeze traces function
√	√	√	• Alarm silence/locked/disabled function
√	√	√	• Alarm silence function only
√	√	√	• Footprint 24"wide x 28"deep, height is 50"
Additional	Additional	√	• ZOO PACKAGE incl.collapsable lifting arms & mayo trays for ease (HEMC PN 000A6175)
Optional	√	√	• VML by MidMark (Matrx) gas machine head and mounting pole
Additional	√	√	• VML by MidMark (Matrx) mounting pole only
Optional	Optional	Depends on location	• Up to 2 Days in-service and training at installation

* Note: It is possible to upgrade Junior with gas to have many of the features of Tafonius. The features that would not be available are indicated by the symbol "n" in the table above. Pricing for features indicated as "Optional" has not been determined. *DOCA4958A*