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Mindray Medical Korea KNI Tower 9F 823-19 Yeoksam dong, Seoul-ganum, Korea A7 Anaesthesia Workstation

Technical Specifications (Ver. 2016-07-08		
Physical Specification		
Dimensions and Weight		
Height:	1400 mm ± 25 mm	
Width:	1050 mm \pm 25 mm (including breathing sys	
Depth:	805 mm ± 25 mm	
Weight:	185 kg \pm 5 kg (with AG module, Auxiliary wo	
Top Shelf		
Width:	616 mm ± 25 mm	
Depth:	362 mm ± 25 mm	
Weight limit:	40 kg	
Work Surface (Stainless s	iteel)	
Height:	850 mm ± 25 mm	
Width:	616 mm ± 25 mm	
Depth:	380 mm ± 25 mm	
Auxiliary Work Surface		
Height:	750 mm ± 25 mm	
Width:	450 mm ± 25 mm	
Depth:	330 mm ± 25 mm	
Weight limit:	10 kg	
Side mounting Rails		
Supporting weight:	27 kg at a maximum distance of 0.41 m	
Drawer (Internal Dimens	ions)	
Numbers:	3	
Height:	135 mm ± 10 mm	
Width:	440 mm ± 10 mm	
Depth:	385 mm ± 10 mm	
Weight limit:	5 kg	
Bag Arm		
Height:	1150 mm ± 10 mm	
Length:	312 mm ± 10 mm	
Swiveling angle:	150 ± 10 degrees	
Casters		
Diameter:	15 cm	
Brakes:	central brake with lock/unlock indicator	
Cable pusher:	cable pusher with each caster	
Handle		
Length:	650 mm ± 25 mm	
Work Light		
Settings:	Off, Low, High	



em)
rk surface and 3 yokes, without vaporisers and gas cylinders)

Screen			
Display:	Colour LCD, 15 inch, 4:3 ratio diagonal TFT with touch screen		
Display parameters:	rameters: All setting and alarm parameters		
(including Breath rate, I:E ratio, Tidal volume, Minute volume, PEEP, Pmean, Ppeak, Pplat, and O $_2$ concentr			
Graphic waveforms:	Pressure, flow, volume, CO ₂ , BIS		
Spirometry Loops:	Pressure-Volume, Flow-Volume		
Timer:	Display on the screen		
Screen Control:	Touch pad/Touch screen/Mouse control		
Ventilator Specifications			
Modes of ventilation			
Manual/Spontaneous Ventilat	ion/Bypass		
Volume Control Ventilation (V	CV) with PLV function		
Pressure Control Ventilation (F	PCV) with/without volume guarantee (VG)		
Pressure Support Ventilation (PS) with apnea backup		
Synchronised Intermittent Ma	ndatory Ventilation (SIMV-Volume Controlled and SIMV-Pressure Controlled)		
Synchronised Intermittent Ma	ndatory Ventilation Volume Guarantee (SIMV-VG)		
Continuous Positive Airway Pr	essure (CPAP)		
Patient Size			
Patient size:	Adult, Paediatric, Infant		
Compensation			
Circuit gas leakage compensa	tion and automatic compliance compensation		
Ventilation Parameters Ran	ges		
Tidal Volume Range:	20 - 1500 mL (increments of 1 mL) (VCV, SIMV-VC, SIMV-VG)		
Pressure (Pinsp) Range:	5 - 70 cmH ₂ O (increments of 1 cmH ₂ O) (PCV, SIMV-PC)		
Pressure (Plimit) Range:	10 - 100 cmH ₂ O (increments of 1 cmH ₂ O) (VCV, SIMV-VC)		
Pressure support (ΔP) Range:	3 - 50 cmH ₂ O (increments of 1 cmH ₂ O) (SIMV-VC, SIMV-PC, PS,CPAP)		
Respiration Rate Range:	4 - 100 bpm (increments of 1 bpm) (VCV, PCV,SIMV-VC, SIMV-PC,SIMV-VG, CPAP)		
Minimum Rate Range:	2 - 60 bpm (increments of 1 bpm) (PS,CPAP)		
I:E Range:	4:1 - 1:8 (increments of 0.5) (VCV, PCV)		
Tpause Range:	OFF, 5 - 60% (increments of 1%) (VCV, SIMV-VC)		
Tinsp Range:	0.2 - 5 sec (increments of 0.1 s) (SIMV-VC, SIMV-PC,SIMV-VG)		
Trigger Range:	F-trig: 0.2 to 15 L/min (SIMV-VC, SIMV-PC, CPAP/PS, PS, SIMV-VG), Step: 0.1 L/min		
	P-trig: -20 cmH ₂ O to -1 cmH ₂ O (SIMV-VC, SIMV-PC, CPAP/PS, PS,SIMV-VG), Step:1 cmH ₂ O		
Tslope Range:	0.0 - 2.0 sec (increments of 0.1 s) (SIMV-VC, SIMV-PC, PCV, PS,SIMV-VG, CPAP)		
VtG Range:	OFF, 20 - 1500 mL (increments of 1 mL) (PCV)		
PlimVG Range:	5 - 100 cmH ₂ O (increments of 1 cmH ₂ O) (PCV)		
Apnea Ti Range:	0.2 - 5 sec (increments of 0.1 s) (PS,CPAP)		
Positive End Expiratory Pres	sure (PEEP)		
Туре:	Integrated, Electronically controlled		
Range:	OFF, 3 to 30 cmH ₂ O (increments of 1 cm H ₂ O) (VCV, PCV, SIMV-VC, SIMV-PC, PS,SIMV-VG, CPAP)		
Ventilator Performance	Ventilator Performance		
Drive Pressure Range:	280 to 600 kPa		
Inspiratory flow range:	2.4 to 110 L/min		
Peak Gas Flow:	110L/min + Fresh Gas Flow		
Ventilator Monitoring			
Minute Volume Range:	0 - 100 L/min		
Tidal Volume Range:	0 - 3000 mL		
Inspired Oxygen (FiO ₂):	18 - 100%		
Peak Pressure (Peak):	-20 - 120 cmH ₂ O		

Mean Pressure (Pmean):	-20 - 120 cmH ₂ O
Plateau Pressure (Pplateau):	-20 - 120 cmH ₂ O
PEEP Range:	0 - 70 cmH ₂ O
Rate Range:	0 - 120 bpm
Control/Monitoring Accurac	cy
Volume Control:	< 60 mL, ± 10 mL
	\geq 60 mL and \leq 210 mL, \pm 15 mL
	\geq 210 mL, \pm 7% of the set value
Pressure Control:	Pinsp: \pm 2.5 cmH_2O or \pm 7% of the set va
	Plimit: $\pm10\%$ of the set value
PEEP Control:	3 to 30 cmH_20: \pm 2 cmH_20 or \pm 10% of the theorem of the the
	OFF: not defined
Respiration Control:	±1 bpm or 10% of the set value, which
Volume Monitoring:	< 60 mL, ± 10 mL
	\geq 60 mL and \leq 210mL, \pm 18 mL
	\geq 210 mL \pm 9% of the set value
Airway Pressure Monitoring:	$\pm2\text{cmH}_2\text{O}\text{or}\pm5\%$ of the set value, which
PEEP Monitoring:	0 to 30 cmH ₂ O: \pm 2 cmH ₂ O or \pm 10% of the function of the second
	\geq 30 cmH ₂ O: not defined
Respiration Monitoring:	\pm 1 bpm or 10% of the set value, which
Minute Volume Monitoring:	0 to 30 L/min: \pm 15% of the displayed va
Alarm limits	
Paw High:	The greater of 10 and (Paw Low + 1) to 1
Paw Low:	0 to the lesser of 70 and (Paw High – 1) o
MV High:	The greater of 0.2 and (MV Low + 0.1) to
MV Low:	0 to the lesser of 20 and (MV High – 1) L
FiO ₂ High:	The greater of 21 and (FiO ₂ Low + 1) to 1
FiO ₂ Low:	18 to the lesser of 98 and (FiO ₂ High – 1)
Lung Recruitment Tool	
Lung Recruitment Maneuver	: Increasing PEEP progressively (with a max
Monitoring Parameters Source	ed From Patient Monitor : Arrhythmias Hen
Monitoring Parameters Source	ed From Anaesthesia System: Ventilation par
Adjustable Ventilation Parame	eters for Lung Recruitment:ΔP, PEEP, Breaths,
Data Storage (Non-Volatile)	and Recording
Configuration Storage:	One group of factory configuration, one
Patient types:	Adult, Paediatric and Infant for each Cor
Log Storage:	500 entries of alarm log/500 entries of a
History trend:	48 hours of continuous trend data (BIS,
Pneumatic Specifications	
Pipeline Supply	
Gas Configuration:	O ₂ , N ₂ O and Air
Pipeline input range:	280 to 600 kPa (40 to 87 psi)
Pipeline connections:	DISS or NIST
Cylinder Supply	
Cylinder Supply:	E Cylinder (American and UK style)
O ₂ Cylinder Input Range:	6.9 to 15.5 MPa (1000 to 2250 psi)
N2O Cylinder Input Range:	4.2 to 6 MPa (600 to 870 psi)
Air Cylinder Input Range:	6.9 to 15.5 MPa (1000 to 2250 psi)
Cylinder Connections:	Pin-Index Safety System (PISS)

alue, whichever is greater
he displayed value, whichever is greater
ever is smaller
ichever is greater
the displayed value, whichever is greater
· "
ever is smaller
alue, repeatable to \pm 5% over a 1 hour period
100 cmH ₂ O
cmH ₂ O
o 25 L/min
/min
100%, Off
)%
ximum of 7 stages)
modynamic parameters: SpQ2, HR, CQ, IRP
ramaters: DEAK DEED Vt Compl Real-time pressure waveforms
, ו.ב, המופ
e group of user configuration
nfiguration
activity log/500 entries of error log/500 entries of service log
Fresh Gas, Ventilation, etc.)

Yoke Configuration:	O ₂ , N ₂ O, Air		
N ₂ O Automatic Cutoff	N,O Automatic Cutoff		
An N ₂ O automatic cutoff stops t	An N ₂ O automatic cutoff stops the flow of N ₂ O when O ₂ flow is less than 200 mL/min.		
O, Controls	0, Controls		
O ₂ supply failure alarm: 185.5 to 254.5 kPa (27 to 36 psi)			
Auxiliary Common Gas Outlet			
Control type: Electronical or Mechanical			
Safety Pressure:	A relief value limits fresh gas pressure at ACGO outlet port to not more than 125 cmH O		
Fresh gas flow:	0.2 to 18 L/min		
Auxiliary O, and Air Flow met	er		
Flow range: For each meter 0 to 15 L/min			
Indicator:	Flow tube		
Auxiliary O ₂ Gas Power Outlet			
Pressure range:	280 to 600 kPa		
Maximum flow:	≥ 90 L/min		
O ₂ Flush			
Flow rate:	35 to 50 L/min		
Built-in Suction device			
Continuous Suction Regulato	r		
vlaguZ	External vacuum		
Maximum vacuum	517.5 mmHg to 540 mmHg (69 kPa to 72 kPa) with external vacuum applied of 540 mmHg and 40 L/min free flow		
Maximum Flow	39 L/min to 40 L/min with external vacuum applied of 540 mmHg and 40 L/min free flow		
Venturi Suction Regulator			
Supply	Air from system gas supply		
Maximum vacuum	•72 kPa (540 mmHg) with pipeline drive gas at 280 kPa \geq 73 kPa (547.5 mmHg) with pipeline drive gas at 600 kPa		
Maximum Flow	•25 l/min with pipeline drive gas at 280 kPa		
•32 I/min with pipeline drive gas at 600 kPa (without suction bottle and filter)			
Electronic Flow control system	n (Electronic Mixer)		
Direct Flow Control Mode			
O, flow range:	0 to 15 L/min		
Air flow range:	0 to 15 L/min		
N.O flow range: 0 to 12 l /min			
Electronic Encoders Rotations:	< 4 (from minimum flow to maximum flow)		
O, flow accuracy:	± 50 ml/min or ± 5% of setting value, whichever is greater		
Balance gas (Air/N ₂ O) flow accu	racy: ± 50 ml/min or ±5% of setting value, whichever is greater		
Total Flow Control Mode			
Total flow range:	0.2 to 18 L/min		
Total flow accuracy:	\pm 100 ml/min or \pm 5% of setting value, whichever is greater		
,	Leakage from one gas inlet to another gas inlet is less than 10 ml per hour.		
O, concentration			
O, concentration range:	21% to 100% (The balance gas is Air) or/26% to 100% (The balance gas is N ₂ O)		
O ₂ concentration accuracy:	± 5% V/V for flows < 1 L/min or/5% setting for flows ≥ 1 L/min		
Compensation	-		
Temperature and atmospheric r	pressure compensated to standard conditions of 20°C and 101.3 kPa (14.7 psi)		
Backup Flow Control System	• • • • • • • • • • • • • • • • • • •		
Control Type			
Mechanical (Control Needle Val	Mechanical (Control Needle Valve and Knob)		
Flow Range	Flow Range		
Control Range (O ₃):	1 +/- 0.25 to 15 L/min		
• · 2			

Control Range (Air):	0 to15 L/min	
Flow meter order		
O ₂ , Air (left to right, viewing front of unit)		
O ₂ concentration		
Oxygen concentration:	Not lower than 21%	
Total flow meter		
Range:	0 to10 L/min	
Indicator:	Flow tube	
Indicator accuracy:	\pm 10% of the indicated value for flows (I	
Breathing system Specification	n	
Breathing system volume		
Total volume:	2850 ml \pm 100 ml (without bellows)	
CO ₂ Absorber Assembly		
Absorber capacity:	1 Pre-Pak or 1500 ml \pm 100 ml	
Absorber Canister Contents:	1 Pre-Pak canister or Loose Fill absorber	
Water Collection Cup		
Detachable with 6 mL of capacit	:y	
Inspiratory Airway Pressure G	auge	
Range:	-20 to 100 cmH ₂ O	
Accuracy:	\pm (2% of full scale reading + 4% of actu	
Flow sensor		
Туре:	Variable orifice flow sensor	
Dimensions:	22 mm OD and 15 mm ID	
Location:	Inspiratory and expiratory port	
Oxygen sensor		
Туре:	Galvanic fuel cell	
Breathing system connections	;	
Exhalation connection:	22 mm OD ISO/15 mm ID ISO conical	
Inhalation connection:	22 mm OD ISO/15 mm ID ISO conical	
Manual bag port:	22 mm OD ISO/15 mm ID ISO conical	
Connections to a Gas Scavenger	30 mm OD ISO	
Adjustable Pressure Limiting	APL) valve	
APL Type:	Manually control with quick relief funct	
Control Range:	SP, Approximately 0 to 75 cmH ₂ O	
Adjustable Range of Motion:	330 ± 10 degrees	
Tactile Knob Indication:	\geq 30 cmH ₂ O	
Bag-to-Ventilator Switch		
Туре:	Bi-stable	
Control:	The switch between manual ventilation	
Breathing System Temperatur	e Controller	
Breathing System Temperature Maintained to: 35°C typical at 20°C amb		
Materials		
All materials in contact with exhaled patient's gas are autoclavable up t		
and mechanical pressure gauge		
All materials in contact with patient's gas are latex-free.		
Breathing circuit parameters		
System Compliance:	$\leq 2 \text{ mL/cmH}_2 \text{O}$ Volume of gas lost of	
Internal Compliance:	$\leq 4 \text{ mL/cmH}_2\text{O}$	
Impedance in Manual Mode:	\leq 6 cmH ₂ O (the gas under test is a bi-dir	

etween 10% and 100% of full scale with oxygen)
t
al reading)
in reading)
on
and mechanical ventilation
nt temperature
a maximum temperature of 134°C, except flow sensors O, cell
ue to internal compliance (manual ventilation mode only)
ectional sine wave at a frequency of 20 with tidal volume of 1 ()

Impedance in Automatic Ventilation Mode: < 6 cmH ₂ O (the gas under test is a semi-sine wave at a frequency of 20 with tidal volume of 1 L)			
Leakage:	≤ 150 mL @ 3 kPa		
System Safety Pressure on Patient Circuit: 110 \pm 10 cmH ₂ O $@$ 10 - 110 L/min			
Vaporiser			
Anaesthetic agent delivery			
Vaporiser:	Mindray V60 Anaesthetic Vaporiser or Penlon Sigma Alpha/Delta		
Гуре:	Halothane, Enflurane, Isoflurane	e, Sevoflurane, Desflurane	
/aporiser positions:	3 positions (2 active, 1 inactive)		
Mounting mode:	Selectatec [®] with interlocking fu	Inction	
Anaesthetic Prediction			
Patient Type:	Height: 150 to 200 cm		
	Weight: 40 to 140 kg		
	Age: 18 to 90 years old		
Anaesthetic Agents (AA):	Desflurane, Enflurane, Isoflura	ine, Sevoflurane and Halothane	
Prediction trend and waveform: The system displays 8 waveforms: dynamic short trend waveforms of FiAA, EtAA, FiO ₂ and EtO ₂ in the last 10 and prediction trend waveforms of FiAA, EtAA, FiO ₂ and EtO ₂ in the next 20 min.			
			Prediction deviation: EtAA=0: less than volume fraction of 0.05 %
	EtAA≠0: - 20 % to 30 % of the	measured EtAA, or - 5 % to 7.5 % of the vaporiser maximum setting,	
	whichever is greater		
	EtO ₂ : - 10 % to 15 % of the n	neasured EtO-, or volume fraction of - 5 % to 7.5 %, whichever is greater	
Aonitor Module			
Anaesthesia Gas (AG) Module			
Measurement mode:	Infrared absorption, Sidestream	1	
Monitor gases:	Co ₂ , O ₂ (Paramagnetic O ₂ modul	le), N_2O , and any of the five anaesthetic agents: DES, ISO, ENF, SEV and HAL	
Varm-up time:	45 s (ISO accuracy mode) 10 min (full accuracy mode)		
ample rate:	Adu/Pead: 120, 150, 200 ml/min Neo: 70, 90, 120 ml/min		
lange:	$CO_2: 0\% \sim 30\%$ AA: $0\% \sim 30\%$ $O_2/N_2O: 0 \sim 100\%$		
BIS Module			
Measured parameters:	EEG		
3IS:	0~100		
Sweep speed:	6.25 mm/s, 12.5 mm/s, 25 mm/s or 50 mm/s		
nput impedance:	> 50 Mohm		
Noise (RTI):	< 0.3 uV (0.25 ~ 50 Hz)		
nput signal range:	± 1 mv		
EEG Brandwidth:	0.25 ~ 100 Hz		
Patient leakage:	< 10 uA		
Alarm limit:	BIS high: 2 ~ 100		
BIS low: 0 ~ 98 Calculated parameters: SQI, EMG, SR, SEF, TP			
		Impedance range:	0 ~ 999 Kohm
NMT Module			
Conformity with Standard:	IEC 60601-2-10		
Stimulation output:	Pulse width	100, 200, or 300 μs; monophasic rectangle pulse Accuracy: ± 10 %	
	Stimulation current range	U to 60 mA in increments of 5 mA	
		Accuracy: ± 5 % or ± 2mA, whichever is greater	
	Maximum skin resistance:	3 k @ 60 mA, 5 k @40 mA	
Slock Recovery:	UFF, 1,2, 3, 4, 5 %, 10 %, 20 %, 30	0 %, 40 %. 50 %, 60 %, 70 %,80 %, 90 %, 100 %	
TOF (Train Of Four) mode:	TOF-Ratio (response percentage) 5 % to 160 %		

		TOF-Count (number
		TOF-T1% (response to
		percentage of the ref
ST (Single Twitch) mode:		ST-Ratio (response per
DBS (Double-Burst Stimulation)	3.2/3.3 mode:	DBS-Ratio (response p
		DBS-Count (number of
PTC (Post-Tetanic Count) mod	e:	PTC-Count (number o
Agent Consumption Calculation	on	
Calculation range:	0 to 3000 ml	
Accuracy:	± 2 mL, or ± 159	% of the displayed value,
Anaesthetic Gas Scavenging S	ystem (AGSS)	
Type of the Applicable Disposal	System: Low flow	,
Size:	430 mm × 132	mm × 114 mm
Extract Flow:	25 to 50 L/min	
Type of the Applicable Disposal	System: High flow	I
Size:	430 mm × 132 r	mm $ imes$ 114 mm
Extract Flow:	75 to 105 L/min	
Type of the Applicable Disposal	System: Passive	
Electrical specifications		
Main Electrical Power		
Power Supply Input Voltage:	100 - 240 VAC, 5	0/60 Hz (7 A max for A7
	220 - 240 VAC, 5	0/60 Hz, (6 A max for A7
Power Cord:	5 m (length)	
Battery Power		
Battery type:	Sealed Lithium-	ion, 11.1 V, 4.5 Ah (2 bat
Battery Run-time:	New battery: m	inimum 90 minutes und
Time to Shutdown from Lower B	attery Alarm: 5 m	inutes minimum (new f
Battery Charge Time:	8 hours max from	m an initial charge of 10%
Auxiliary Electrical Outlets		
Number of Outlets:	4	
Output Current:	3 A for each out	let, 5 A for total
Environmental specifications		
Operating Temperature:	+10 to +40°C, +	50 to 104°F
Storage Temperature:	-20 to +60°C, -4	to 140°F, Oxygen sensor
Humidity (Operating and Storag	0e): 15 to 90% RH	l, non-condensing
Atmospheric Pressure (Operating	g): 70 kPa to 106.7	7 kPa
Atmospheric Pressure (Storage):	50 kPa to 106.7	kPa
Resistance to Ingress of Fluids:		
Complies with the requirements	of clause 44.3 in	IEC 60601-1 and also the
Interface Specification		
Communication Port (Sp1):	RS-232C compa	tible serial interface (DB
Network Port (Cs1):	RJ-45 network p	ort
USB Ports (SB1, SB2):	Two USB ports	
Data Port (DP1):	One test port fo	r connection of calibrati

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of responses)	0 to 4
o the first stimulus as	
ference value)	0 % to 200 %
rcentage)	0 % to 200 %
ercentage)	5 % to 160 %
f responses)	0 to 2
of responses)	0 to 20
, whichever is greater.	
unit, 5 A max for A7 auxiliary outlet)	
7 unit, 5 A max for A7 auxiliary outlets)	
teries)	
ler typical operating conditions	
ully-charged battery)	
%. Charging occurs whenever AC is appli	ed to the A7 System (New Battery)
r: -20 to +50°C	
e requirements in IEC 60529 for non-pro	otective equipment (IPX0)
9)	
ion equipment by a Mindray-authorised	service representative