



Intensive Care and Transport Ventilator Solutions



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LYRA x1 **Best performing and versatile ventilation for hospital applications**

A compact turbine driven ventilator with multi-function, covers the non-invasive and invasive ventilation, and is suitable for treatment of most patient type. LYRA x1 is versatile throughout hospital and transport. Comprehensive ventilating modes, including APRV, PRVC, NIV are available for all your demands and for all type of patients from neonatal to adult.

A collapsible high-resolution touch-screen display makes LYRA x1 mounted on a trolley your choice for ICU applications, as well as a high performance ventilator throughout hospital and transport.

The innovative expiration valve disassembling concept brings more ease and efficiency for the sterilization process. As your versatile assistant, LYRA x1 is configured with O2 therapy, P-V tool, a lung titrating gold standard, etc.



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LYRA x1

Technical Specifications

Physical Specification

Dimensions: 336 mm x 330 mm x 345 mm
(L x W x H): 664 mm x 600 mm x 1370 mm
(with trolley)
Weight: Approximately 9.5 kg,
Approximately 31.0 kg (with trolley)

Screen

Display Size: 12.1 Color active matrix TFT touch
Display Resolution (H) x (V): 1280 x 800 pixels
Brightness: Adjustable

Ventilation Specifications

Patient Type: Adult, Pediatric, Neonate

Invasive Ventilation Mode:

- VCV** (Volume Control Ventilation)
- PCV** (Pressure Control Ventilation)
- VSIMV** (Volume Synchronized Intermittent Mandatory Ventilation)
- PSIMV** (Pressure Synchronized Intermittent Mandatory Ventilation)
- CPAP/PSV** (Continuous Positive Airway Pressure/Pressure Support Ventilation)
- PRVC** (Pressure Regulated Volume Control)
- V + SIMV** (PRVC + SIMV)
- BPAP** (Bilevel Positive Airway Pressure)
- APRV** (Airway Pressure Release Ventilation)☒
Apnea Ventilation
- Non-invasive Ventilation Mode:**
- PCV** (Pressure Control Ventilation)
- PSIMV** (Pressure Synchronized Intermittent Mandatory Ventilation)
- CPAP/PSV** (Continuous Positive Airway Pressure/Pressure Support Ventilation)
- BPAP** (Bilevel Positive Airway Pressure)
- APRV** (Airway Pressure Release Ventilation)☒

Controlled Parameters

O₂ %: 21-100% (increments of 1%)
VT (Tidal Volume): Adult: 100-2000 mL
(increments of 10 mL) / Pediatric: 20-300 mL /
Neonate: 2-300 mL (increments of 1 mL)
f (Ventilation frequency): 1-80 bpm /
Neonate: 1-150 bpm (increments of 1 bpm)
fSIMV (Ventilation frequency in SIMV mode):
1-80 bpm / Neonate: 1-150 bpm
(increments of 1 bpm)
I:E range: 4:1-1:10 (increments of 0.5)
T_{insp} (Inspiratory time): 0.20-10 s
(increments of 0.05 s)
T_{slope} (Time of Pressure Rising): 0-2.00 s (in-
crements of 0.05 s)
T_{high}: 0.2-30 s (increments of 0.1 s)
T_{low}: 0.2-30 s (increments of 0.1 s)
T_{pause}: 5%-60% (increments of 1%), Off☒
ΔP_{insp}: 5-60 cm H₂O (increments of 1 cm H₂O)
ΔP_{supp}: 0-60 cm H₂O
(increments of 1 cm H₂O)
P_{high}: 0-60 cm H₂O (increments of 1 cm H₂O)
P_{low}: 0-45 cm H₂O (increments of 1 cm H₂O)
PEEP: 1-45 cm H₂O
(increments of 1 cm H₂O), Off☒
Flow trigger: 0.5-15 L/min
(increments of 0.1 L/min)
Pressure trigger: -10 to -0.5 cm H₂O
(increments of 0.5 cm H₂O)
Exp% (Expiration termination level): 10-85%
(increments of 5%), Auto

LYRA x1

Technical Specifications

Apnea Ventilation

V_{tapnea}: Adult: 100-2000 mL (increments of 10 mL) / Pediatric: 20-300 mL / Neonate: 2-300 mL (increments of 1 mL)
 Δ P_{apnea}: 5-60 cm H₂O (increments of 1 cm H₂O)
f_{apnea}: 1-80 bpm (increments of 1 bpm)
Apnea T_{insp}: 0.20-10 s (increments of 0.05 s)

Sigh

Sigh Switch: On, Off
Interval: 20 s-180 min (increments of 1 s from 20 to 59 s, increments of 1 min from 1 to 180 min)
Cycles Sigh: 1-20 (increments of 1)
 Δ int.PEEP: 1-45 cm H₂O (increments of 1 cm H₂O), Off

Synchronized Tube Resistance Compliance

Tube Type: ET Tube, Trach Tube, Disable STRC
Tube I.D.: Adult: 5.0 -12.0 mm (increments of 0.5 mm) / Pediatric: 2.5 - 8.0 mm (increments of 0.5 mm)
Compensate: 0-100% (increments of 1%)
Expiration Compliance Switch: On, Off

Monitored parameters

Numeric:

Paw	V _{te}	C _{dyn}
P _{peak}	V _{Ti}	C _{stat}
P _{plat}	Oxygen concentration	R _{cexp}
P _{mean}	V _{Te} spn	WOB
PEEP	V _{Te} /IBW	RSBI
Insp Flow	f _{total}	NIF
Exp Flow	f _{mand}	P0.1
MV	f _{spn}	PEEP _i
MV leak	Re	Continuous Flow (O ₂ Therapy)
MV spn	Ri	

Real time Graphics:

Pressure-time waveforms: Paw-Volume Loop
Flow-time waveforms: Flow-time Loop
Volume-time waveforms: Paw-Flow Loop

Control Accuracy

O₂%: \pm (3 vol.% +1% of setting)
TV: \pm (10 mL +10% of setting) (BTPS)
T_{insp}: \pm 0.1 s or \pm 10% of setting, whichever is greater
I: E 2:1 to 1:4: \pm 10% of setting, other range: \pm 15% of setting
f: \pm 1 bpm
fSIMV: \pm 1 bpm
T_{slope}: \pm (0.2 s + 20% of setting)
PEEP: \pm (2.0 cm H₂O + 5% of setting)
 Δ P_{insp}: \pm (2.0 cm H₂O + 5% of setting)
 Δ P_{supp}: \pm (2.0 cm H₂O + 5% of setting)
P_{high}: \pm (2.0 cm H₂O + 5% of setting)
P_{low}: \pm (2.0 cm H₂O + 5% of setting)
T_{high}: \pm 0.2 s or \pm 10% of setting, whichever is greater
T_{low}: \pm 0.2 s or \pm 10% of setting, whichever is greater
Pressure Trigger: \pm (1.0 cm H₂O + 10% of setting)
Flow Trigger: \pm (1.0 L/min + 10% of setting)
 Δ int.PEEP: \pm (2.0 cm H₂O + 5% of setting)
Exp%: \pm 10%
f_{apnea}: \pm 1 bpm
 Δ P_{apnea}: \pm (2.0 cm H₂O + 5% of setting)
T_{vapnea}: \pm (10 mL + 10% of setting) (BTPS)
Apnea T_{insp}: \pm 0.1 s or \pm 10% of setting, whichever is greater

Monitoring Accuracy

Airway pressure (P_{peak}, P_{plat}, P_{mean}, PEEP, PAP, EPAP): $\pm(2 \text{ cm H}_2\text{O} + 4\%$ of the actual reading)

Tidal Volume: (T_{vi}, T_{ve}, T_{Ve}/IBW, T_{Ve} spn):
0 ml-100 ml: $\pm(10 \text{ ml} + 3\%$ of the actual reading) (BTPS)

100 ml-4000 ml: $\pm(3 \text{ ml} + 10\%$ of the actual reading) (BTPS)

Minute Volume (MV, MV_{spn}, Mvleak):
 $\pm 0.3 \text{ L/min}$ or $\pm 8\%$ of the actual reading, whichever is greater (BTPS)

Frequency (f_{total}, f_{mand}, f_{spn}): $\pm 5\%$ of reading or $\pm 1 \text{ bpm}$, whichever is greater

Inspired Oxygen (FiO₂): $\pm(2.5 \text{ vol.}\% + 2.5\%$ of the actual reading)

Resistance: 0 to 50: $\pm 10 \text{ cm H}_2\text{O/L/s}$

Other range: 50% of the actual reading

Compliance: 25% of the actual reading or $\pm 10 \text{ ml/cm H}_2\text{O}$, whichever is greater

RSBI: 0 to 999 1/(min*L): $\pm (3 \text{ 1/(min*L)} \pm 15\%$ of the actual reading)

WOB: -

NIF: $\pm(2 \text{ cm H}_2\text{O} + 4\%$ of the actual reading)

P0.1: $\pm(2 \text{ cm H}_2\text{O} + 4\%$ of the actual reading)

PEEPi: -

Rc_{exp}: -

Alarm settings

Tidal Volume: High / Low

Minute Volume: High / Low

Airway pressure: High / Low

Frequency: High / Low

Inspired Oxygen (FiO₂): High / Low

etCO₂: High / Low

Apnea alarm time: 5-60 s

Trend

Type: Tabular, Graphic

Length: 72 hours

Content: Monitor Parameters, Setting Parameters (Setting Ventilation mode and Parameters)



LYRA x1

Technical Specifications

Controlled Parameters

O₂ %: 21-100% (increments of 1%)

Flow: 4-60 L/min

Controlled Accuracy

O₂ %: $\pm(3 \text{ vol.}\% + 1\% \text{ of setting})$

Flow: $\pm(2 \text{ L/min} + 10\% \text{ of setting})$ (BTPS)

Environmental specifications

Temperature: 5-40 °C (operating); -20 to 60 °C (storage and transport, O₂ sensor: -20 to 50 °C)

Relative Humidity: 10-95% (operating);

10-95% (storage and transport)

Barometric Pressure: 62-106 kPa (operating);

50-106 kPa (storage and transport)

Power Battery Backup

External AC power supply

Input voltage: 100-240 V

Input frequency: 50/60 Hz

Input current: 2.5 A Max

Fuse: T2.5 AH/250 V

Internal battery

Number of batteries: One or Two (Optional)

Battery type: Build-in Lithium-ion battery, 11.25 VDC, 6400 mAh

Battery run time: 3 hours (Powered by one new fully-charged battery in standard working condition), 6 hours (powered by two new fully-charged batteries in standard working condition).

Others

Communication interface: RS-232, Ethernet, USB port, CO₂ analyzer connector

Gas supply: O₂

(HPO) Oxygen connector: NIST (DISS optional)

Gas supply pressure: 280-600 kPa





LYRA x2 Top notch performance of Non-Invasive and Invasive Ventilation

LYRA x2 is a premium non-invasive turbine driven ventilator with no compromise on the performance in invasive ventilation.

User can easily switch between NIV- and IV-modes by UI operation only.

Comprehensive parameter monitoring describes the full scenario of patient's status to the care giver.

In a busy ICU it is imperative to give the desired mechanical ventilation to the patient.

An 18.5 inch vertical layout touchscreen display makes operating of the ventilator smooth & easy.



LYRA x2

Technical Specifications

Physical Specification

Dimensions: 327 mm x 310 mm x 493 mm
(L x W x H): 664 mm x 600 mm x 1520 mm
(with trolley)

Weight: Approximately 12.0 kg, Approximately
33.0 kg (with trolley)

Screen

Display Size: 18.3 Color active matrix TFT touch
Display Resolution (H) x (V): 1080 x 1980 pixels
Brightness: Adjustable

Ventilation Specifications

Patient Type: Adult, Pediatric, Neonate

Invasive Ventilation Modes:

VCV (Volume Control Ventilation)

PCV (Pressure Control Ventilation)

VSIMV (Volume Synchronized Intermittent
Mandatory Ventilation)

PSIMV (Pressure Synchronized Intermittent
Mandatory Ventilation)

CPAP/PSV (Continuous Positive Airway
Pressure/Pressure Support Ventilation)

PRVC (Pressure Regulated Volume Control)

V + SIMV (PRVC + SIMV)

BPAP (Bilevel Positive Airway Pressure)

APRV (Airway Pressure Release Ventilation)
Apnea Ventilation

Non-invasive Ventilation Modes:

CPAP (Continuous Positive Airway Pressure)

PCV (Pressure Control Ventilator)

PPS (Proportional Pressure Support)

S/T (Spontaneous and Timed)

VS (Volume Support)

Controlled Parameters

O₂ %: 21-100% (increments of 1%)

VT (Tidal Volume): Adult: 100-2000 mL
(increments of 10 mL) / Pediatric: 20-300 mL /
Neonate: 2-300 mL (increments of 1 mL)

f (Ventilation frequency): 1-80 bpm /

Neonate: 1-150 bpm (increments of 1 bpm)

fSIMV (Ventilation frequency in SIMV mode):
1-80 bpm / Neonate: 1-150 bpm (increments
of 1 bpm)

I:E range: 4:1-1:10 (increments of 0.5)

T_{insp} (Inspiratory time): 0.20-10 s (increments
of 0.05 s)

T_{slope} (Time of Pressure Rising): Thigh 0-2.00
s (increments of 0.05 s)

T_{low}: 0.2-30 s (increments of 0.1 s)

T_{pause}: 0.2-30 s (increments of 0.1 s)

ΔP_{insp}: 5%-60 cm H₂O (increments of 1 cm
H₂O), Off

ΔP_{supp}: 0-60 cm H₂O (increments of 1 cm
H₂O)

Phigh: 0-60 cm H₂O (increments of 1 cm H₂O)

Plow: 0-45 cm H₂O (increments of 1 cm H₂O)

PEEP: 1-45 cm H₂O

(increments of 1 cm H₂O), Off

Flow trigger: 0.5-15 L/min

(increments of 0.1 L/min)

Pressure trigger: -10 to -0.5 cm H₂O

(increments of 0.5 cm H₂O)

Exp% (Expiration termination level): 10-85%
(increments of 5%), Auto

CPAP: 4-25 cm H₂O (increments of 1 cm H₂O)

EPAP: 4-25 cm H₂O (increments of 1 cm H₂O)

IPAP: 4-20 cm H₂O (increments of 1 cm H₂O)

Rise time: 1-5 (increments of 1)

Ramp time: 5-45 min (increments of 5 min), Off

Min P (VS minimum IPAP): 5-30 cm H₂O
 (increments of 1 cm H₂O)
 Max P (VS maximum IPAP): 6-40 cm H₂O
 (increments of 1 cm H₂O)
 Max P (PPV maximum pressure limit):
 5-40 cm H₂O (increments of 1 cm H₂O)
 Max V (PPV maximum volume limit):
 200-3500 mL (increments of 5 ml)
 Max E: 0-100 cm H₂O/L
 (increments of 1 cm H₂O/L)
 Max R: 0-50 cm H₂O/L
 (increments of 1 cm H₂O/L)
 PPV%: 0%-100% (increments of 1%)

Apnea Ventilation

Vt_{apnea}: Adult: 100-2000 mL
 (increments of 10 mL) / Pediatric: 20-300 mL /
 Neonate: 2-300 mL (increments of 1 mL)
 ΔP_{apnea}: 5-60 cm H₂O
 (increments of 1 cm H₂O)
 F_{apnea}: 1-80 bpm (increments of 1 bpm)
 Apnea T_{insp}: 0.20-10 s (increments of 0.05 s)

Sigh

Sigh Switch: On, Off
 Interval: 20 s-180 min (increments of 1 s
 from 20 to 59 s, increments of 1 min from
 1 to 180 min)
 Cycles Sigh: 1-20 (increments of 1)
 Δ_{int}.PEEP: 1-45 cm H₂O
 (increments of 1 cm H₂O), Off

Synchronized Tube Resistance Compliance

Tube Type: ET Tube, Trach Tube, Disable STRC
 Tube I.D.: Adult: 5.0-12.0 mm (increments of
 0.5 mm) / Pediatric: 2.5-8.0 mm (increments of
 0.5 mm)
 Compensate: 0-100% (increments of 1%)
 Expiration Compliance Switch: On, Off

Monitored parameters

Numeric:

Paw	Oxygen concentration	WOB
Ppeak	VTe spn	RSBI
Pplat	VTe/IBW	NIF
Pmean	f	P0.1
PEEP	f _{total}	PEEPi
Insp Flow	f _{mand}	PIP
Exp Flow	f _{spn}	EPAP
MV	Re	Pt.Trig
MV leak	Ri	Pt.leak
MV spn	C _{dyn}	Tot.leak
Vte	Cstat	Continuous Flow (O ₂ Therapy)
VTi	R _{cexp}	

Real time Graphics:

Pressure-time waveforms: Paw-Volume Loop
 Flow-time waveforms: Flow-time Loop
 Volume-time waveforms: Paw-Flow Loop

LYRA x2

Technical Specifications

Control Accuracy

O₂ %: $\pm(3 \text{ vol.}\% + 1\% \text{ of setting})$
TV: $\pm(10 \text{ mL} + 10\% \text{ of setting})$ (BTPS)
T_{insp}: $\pm 0.1 \text{ s}$ or $\pm 10\%$ of setting,
whichever is greater
I: E: 2:1 to 1:4: $\pm 10\%$ of setting, other range:
 $\pm 15\%$ of setting
f: $\pm 1 \text{ bpm}$
fSIMV: $\pm 1 \text{ bpm}$
T_{slope}: $\pm(0.2 \text{ s} + 20\% \text{ of setting})$
PEEP: $\pm(2.0 \text{ cm H}_2\text{O} + 5\% \text{ of setting})$
 ΔP_{insp} : $\pm(2.0 \text{ cm H}_2\text{O} + 5\% \text{ of setting})$
 ΔP_{supp} : $\pm(2.0 \text{ cm H}_2\text{O} + 5\% \text{ of setting})$
P_{high}: $\pm(2.0 \text{ cm H}_2\text{O} + 5\% \text{ of setting})$
P_{low}: $\pm(2.0 \text{ cm H}_2\text{O} + 5\% \text{ of setting})$
T_{high}: $\pm 0.2 \text{ s}$ or $\pm 10\%$ of setting,
whichever is greater
T_{low}: $\pm 0.2 \text{ s}$ or $\pm 10\%$ of setting,
whichever is greater
Pressure Trigger: $\pm(1.0 \text{ cm H}_2\text{O} + 10\% \text{ of}$
setting)
Flow Trigger: $\pm(1.0 \text{ L/min} + 10\% \text{ of setting})$
 $\Delta \text{int. PEEP}$: $\pm(2.0 \text{ cm H}_2\text{O} + 5\% \text{ of setting})$
Exp %: $\pm 10\%$
CPAP: $\pm(2.0 \text{ cm H}_2\text{O} + 5\% \text{ of setting})$
EPAP: $\pm(2.0 \text{ cm H}_2\text{O} + 5\% \text{ of setting})$
IPAP: $\pm(2.0 \text{ cm H}_2\text{O} + 5\% \text{ of setting})$
Rise time: -
Ramp time: $\pm 1 \text{ s}$
Min P (VS minimum IPAP): $\pm(2.0 \text{ cm H}_2\text{O} +$
 $5\% \text{ of setting})$
Max P (VS maximum IPAP): $\pm(2.0 \text{ cm H}_2\text{O} +$
 $5\% \text{ of setting})$
Max P (PPV maximum pressure limit):
 $\pm(2.0 \text{ cm H}_2\text{O} + 5\% \text{ of setting})$

Max V (PPV maximum volume limit): $\pm 15\%$ of
setting
Max E: -
Max R: -
Fapnea: $\pm 1 \text{ bpm}$
 ΔP_{apnea} : $\pm(2.0 \text{ cm H}_2\text{O} + 5\% \text{ of setting})$
T_{vapnea}: $\pm(10 \text{ mL} + 10\% \text{ of setting})$ (BTPS)
Apnea T_{insp}: $\pm 0.1 \text{ s}$ or $\pm 10\%$ of setting,
whichever is greater

Monitoring Accuracy

Airway pressure (P_{peak}, P_{plat}, P_{mean}, PEEP,
PAP, EPAP): $\pm(2 \text{ cm H}_2\text{O} + 4\% \text{ of the actual}$
reading)
Tidal Volume (T_{vi}, T_{ve}, T_{ve}/IBW, T_{ve} spn):
0 ml - 100 ml: $\pm(10 \text{ ml} + 3\% \text{ of the actual}$
reading) (BTPS) / 100 ml - 4000 ml:
 $\pm(3 \text{ ml} + 10\% \text{ of the actual reading})$ (BTPS)
Minute Volume (MV, MV_{spn}, MV_{leak}): $\pm 0.3 \text{ L/min}$
or $\pm 8\%$ of the actual reading, whichever is
greater (BTPS)
Frequency (f_{total}, f_{mand}, f_{spn}): $\pm 5\%$ of reading
or $\pm 1 \text{ bpm}$, whichever is greater
Inspired Oxygen (FiO₂): $\pm(2.5 \text{ vol.}\% + 2.5\%$
of the actual reading)
Resistance: 0 to 50: $\pm 10 \text{ cm H}_2\text{O/L/s}$ Other
range: 50% of the actual reading
Compliance: 25% of the actual reading or
 $\pm 10 \text{ ml/cm H}_2\text{O}$, whichever is greater
RSBI: 0 to 999 1/(min*L): $\pm(3 \text{ 1}/(\text{min}\cdot\text{L})$
 $\pm 15\%$ of the actual reading)
WOB: -
NIF: $\pm(2 \text{ cm H}_2\text{O} + 4\% \text{ of the actual reading})$
P0.1: $\pm(2 \text{ cm H}_2\text{O} + 4\% \text{ of the actual reading})$
PEEPi: -
R_{cexp}: -

Alarm settings

Tidal Volume: High / Low
Minute Volume: High / Low
Airway pressure: High / Low
Frequency: High / Low
Inspired Oxygen (FiO₂): High / Low
etCO₂: High / Low
Apnea alarm time: 5-60 s

Trend

Type: Tabular, Graphic
Length: 72 hours
Content: Monitor Parameters,
Setting Parameters (Setting Ventilation mode
and Parameters)

O₂ Therapy

Controlled Parameters
O₂ %: 21-100% (increments of 1%)
Flow: 4-60 L/min
Controlled Accuracy
O₂ %: ±(3 vol.% +1% of setting)
Flow: ±(2 L/min +10% of setting) (BTPS)

Environmental specifications

Temperature: 5-40°C (operating); -20 to 60 °C
(storage and transport, O₂ sensor: -20 to 50 °C)
Relative Humidity: 10-95% (operating); 10-95%
(storage and transport)
Barometric Pressure: 62-106 kPa (operating);
50-106 kPa (storage and transport)

Power Battery Backup

External AC power supply
Input voltage: 100-240 V
Input frequency: 50/60 Hz
Input current: 2.5 A Max
Fuse: T2.5 AH/250 V
Internal battery
Number of batteries: One or Two (Optional)
Battery type: Build-in Lithium-ion battery,
11.25 VDC, 6400 mAh
Battery run time: 3 hours (Powered by one
new fully-charged battery in standard working
condition) / 6 hours (Powered by two new
fully-charged battery in standard working
condition)



LYRA x2

Technical Specifications

Others

Communication interface: RS-232, Ethernet,
USB port, CO2 analyzer connector

Gas supply: O²

(HPO) Oxygen connector: NIST (DISS optional)

Gas supply pressure: 280-600 kPa



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MUSCA x1 Portable Ventilator



Features

- Portable and easy operation
- Innovative voice-guided direction
- Tidal volume range: 100~1500 ml
- Air Mix option for 60% O₂
- 3 knobs for flexible parameters adjustment
- TFT display of airway pressure and ventilation mode
- 3 ventilation modes. IPPV, Assisted control and Manual control
- Li-ion rechargeable battery with more than 10 hours of working time



MUSCA x2

Emergency & Transport Ventilator

Features

- Compact design with weight 3.4 kg
- 7" color touch screen with screen lock function
- Airway pressure and EtCO₂ real-time waveforms
- Smart CPR mode according to AHA guideline
- I:E ratio range: 1:9 to 9:1; and tidal volume range: 50-2500 ml
- 9 ventilation modes: IPPV, V-AC, V-SIMV, P-AC, P-SIMV, CPAP, PCV, Manual, CPR
- Internal PEEP valve
- 40% or 100% for FiO₂
- Rechargeable Li-ion battery with 6 hours working time
- Optional Mainstream EtCO₂ analyzer
- Audible and visual alarm for multi-parameters
- IPX4 waterproof



Intensive Care and Transport Ventilator Solutions

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