

Original Equipment Manufacturing – Neonatal Resuscitation Unit

The AC Aircontrols OEM-NRU (OEM Neonatal Resuscitation Unit) offers all features and functions you would expect from a state-of-the-art resuscitation system. The units combine technical solutions needed (O₂ delivery, suction, O₂ / Air Blender, PIP control for T-piece resuscitation) for an effective resuscitation and are flexible enough to be placed wherever needed, e.g. in delivery stations, NICU's or for bedside caregiving.

- Independency from central gas supply through cylinders on trolley
- Unique pneumatic O₂ / Air Blender with integrated flow dosing valve (no extra flowmeter needed)
- T-piece and Bag / Mask resuscitation
- PIP control with pressure manometer
- Integrated suction for efficient airway management
- Mode selector for intuitive flow source selection

Preliminary specifications and OEM options

In order to integrate the device into your product portfolio we offer flexibility towards:

- Labeling
- Color (the streamlined design will be available in your company colors)
- Unit configuration
- Gas supply options (e.g. automatic switch-over from hospital pipeline to cylinder supply with regulators)
- Local regulatory / legal requirements

The basic configuration could consist of

- O₂ insufflation / O₂ / Air supply w/ or w/o humidification
- Patient suction (venturi principle via Air or O₂)
- T-Piece resuscitation with PIP adjustment
- Unique pneumatic O₂ / Air blender, designed by AC Aircontrols
- GCX rails, arms, handles giving flexibility for all required accessories (e.g. humidifier, suction canisters, bubble CPAP) are options
- Also, trolley with cylinder mount (2 x 10 L cylinders) is optional



Technical Specifications

Environmental specifications

Operating temperature	18 – 45 °C
Operating humidity	0 – 90 %
Storage temperature	-20 – 60 °C
Storage humidity	0 – 95 %

Patient suction

Vacuum range	0 – 150 mmHg
Vacuum gage accuracy	±5 % of full scale

System characteristics

Input source	Hospital pipeline or cylinder with regulator
Input pressure (Air / O ₂ fittings)	40 – 75 psi (275 – 517 kPa)

Adjustable PIP range

For T-piece Resuscitation System only	
Maximum PIP	45 ±5 cmH ₂ O
Override	> 30 ±4 cmH ₂ O
Airway pressure manometer range	-10 – 90 cmH ₂ O
Airway pressure manometer accuracy	±5 % of full scale

Physical characteristic

Overall dimensions	
Depth	700 mm
Height	1350 mm
Width	550 mm

Air / O₂ Blender

Range	23 – 98 % O ₂ (@ 2 – 20 l/min)
Accuracy	±5 % of full scale

Approximate operating time

@ 5 l/min	360
@ 10 l/min	180
@ 15 l/min	120
** 10 l O ₂ cylinder (2000 l)	

User control settings

Air / O ₂	2 – 20 lpm
Suction regulator	0 – 150 mmHg
Selector positions	OFF Blender Output (O ₂ / Air) PIP Output

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