

Estimated Air/Oxygen Blender Requirements - National Children's Hospital Dublin

Department / Area	Clinical Use	Estimated Blenders
Neonatal Intensive Care Unit (NICU)	18 cots requiring HFNC, CPAP or ventilation	18
Paediatric Intensive Care Unit (PICU)	20 beds for critically ill children needing respiratory support	20
Cardiac Intensive Care Unit (CICU)	22 beds, frequent ventilator and CPAP usage	22
High Dependency Unit (HDU)	3 beds with non-invasive respiratory support	3
Day Treatment / Short-Stay Ward	93 beds total - ~20% may need HFNC (approx. 1 in 5)	18-20
Emergency Dept / Resuscitation Rooms	Trauma and resus areas; multiple Neopuff or HFNC points	4-6
Neonatal Resuscitation (Theatres/Labour)	Neopuff or CPAP for delivery suite resuscitation	4
Operating Theatres & Recovery	18-22 theatres; some may require external blending	6-8
Transport / Mobile Use	For intra-hospital ventilator/HFNC trolleys	4-6
Spare / Service Pool	10-15% buffer for maintenance, breakdown, or future expansion	10-12
Total Estimate		105-115