



















Cleaning and Maintenance: Astral Ventilator



Keeping the ventilator and its accessories clean and well maintained is important for your child's health. We recommend this is done regularly and as directed:

Device	Frequency	Part	Photo	Instruction
Astral 	Weekly	Exterior		Wipe down the outside at least weekly with an antibacterial wipe.
	Weekly	Expiratory adaptor		Inspect for moisture or contaminants. Replace as necessary, at least six monthly. **Not necessary if single limb leak adaptor.
	Weekly	Alarms		Check the alarm sound & volume setting
	Monthly	Air filter		Check the condition of the air filter and check whether it is blocked by dirt or dust (see below). With normal use will need replacing <i>every six months</i> .
	Monthly	Batteries		Run the ventilator on each charged battery (external and internal) for 10 minutes and check charge remaining. Check batteries for number of 'cycles' in the "i" (information menu) and "Battery". Batteries with over 400 cycles ought to be replaced.
	Annual	Electrical Safety check		Electrical safety check (DHB Biomed)
	Two years	Internal and external batteries, FiO2 sensor		Replaced by technician
	35,000 hr	Pneumatic block		Maintenance by technician
Circuit 	Weekly	Connector		Replace weekly or if soiled. Your health team may recommend differently.
	1-3 days	HME filter		Replace (if used) every 1-3 days and if soiled. Your health team may recommend differently.
	Weekly	Leak valve		Clean daily (if used) and replace weekly.
	1-4 weekly	Circuit tubing, bacterial filter, connectors		Replace if soiled or routinely as directed by your health team (usually all together). Routine replacement is about product longevity not infection control. Recommendations may vary by circuit – some can be cleaned
	1-12 weekly	Learn circuits		Learn circuit should be performed for each program every time the circuit is changed. Also, learn circuit to be performed if the circuit configuration changes, for troubleshooting and at least 3 monthly.
Heated Humidifier 	Weekly	Exterior		Wipe down the outside at least weekly with an antibacterial wipe.
	1-4 weekly	Temperature probes		Wipe clean when circuit is changed
	6 monthly	Temperature probes		Temperature and flow accuracy test
	Annually	Electrical safety Performance		Technician service
Accessories	Monthly	Aerogen solo nebuliser (if used)		Replace monthly if used

How Do I Change The Air Filter?

Inspect the condition of the air filter and check whether it is blocked by dirt or dust. With normal use, the air filter needs to be replaced every six months (or more often in a dusty environment).

Do not wash the air filter. The air filter is not washable or reusable.

To remove and replace the air filter

1. Unlock the air filter cover by turning in an anti-clockwise direction.
2. Pull the air filter cover from the device.
3. Pull the air filter from the cover and discard.
4. Insert a new filter into the cover.
5. Insert the air filter and cover back into the device.
6. Turn in a clockwise direction to secure in place.



Servicing Your Child's Home Ventilator (Astral)

Planned servicing of the Astral and accessories (eg batteries) is the responsibility of the District Health Board (DHB) that owns it. You can usually tell as the DHB will have put a sticker on the device to document ownership.

Appropriate planned servicing involves four steps.	Who is doing this for my child (circle)?
<p>Co-ordination – keep track of your child’s equipment and when it needs servicing. This includes arrangement for transporting (eg couriering) your Astral(s), loan units and ensuring all settings are correct after service.</p>	<p>Resmed Service Agreement</p> <p>Starship Respiratory Laboratory</p> <p>Other.</p>
<p>Technical service – this is the actual process of checking the ventilator’s performance, safety and replacing parts as necessary. Sometimes this may include a software update.</p>	<p>Resmed Service Agreement</p> <p>Abletech NZ</p> <p>..... DHB Biomed</p>
<p>Loan unit - Servicing may take time. You will need a loan unit to support your child while their Astral is away. The loan unit will be in good condition and be supplied with fresh filters and adaptors.</p>	<p>Abletech NZ</p> <p>Starship Respiratory Laboratory</p> <p>Other.</p>
<p>Clinical settings – your child’s clinical team must ensure the clinical settings are correct on both newly serviced and loan Astrals.</p>	<p>.....</p>