

Genie I2V, 230V and NKFI - Hints & Tips

Component spares

	Fan Model	230V	I2V
GENIE fan internal I2V Transformer	GENIE	770976 N/A	771280 77192I-P
Genie Control Modules	GENIE GENIE PIR GENIE-X GENIE-S GENIE-H GENIE-XH	777091 771399 777096 770979 777093 777097 130070	N/A N/A 777088 771239 777089 777090 130070
Genie Filters			
GENIE NKFI internals	NKFI NKFI X NKFI H NKFI STD NKFI XR NKFI RS	774023 774026 774024 774022 774027 774025 630016	N/A N/A N/A N/A N/A N/A N/A
NKFI Filters & cover			
Terminal Conn' Block	Suits all fans	160248	

4.0 Trouble-shooting

Complaints are generally that the unit is 'not working' so it will be first necessary to distinguish between an electrical/mechanical malfunction or

whether the unit operates but simply fails to extract air. (see table below for possible problems and corrective procedures).

Complaint	Cause and correct	Complaint	Cause and correct
Not powering up.	<p>Ensure mains power to unit, on the Genie the green LED should flash 5 times. (This does not apply to the NKFI). Then run if required.</p> <p>Ensure unit hasn't been switched off or isolated and that the local fuse hasn't blown.</p> <p>Confirm correct electrical connection. If switch activated ensure the switched live (SL) is present.</p> <p>Check the connector block at the base of the unit. If pin sockets have been misplaced replace the socket.</p>	I2V products. Not powering up.	<p>No I2v output from secondary side of the transformer L and N would suggest a transformer failure. Replace transformer unit.</p> <p>No Signal Line (SL) output on the I2v side – usually due to no 230v Switched live input, check wiring.</p> <p>or a failure with the PCB component, replace transformer unit.</p> <p>NB: the SL output is not measurable as it is a signal voltage not an actual I2v live output.</p>
Not working would usually suggest that it has at sometime functioned correctly.	<p>Ensure unit hasn't been switched off or that the local fuse hasn't blown.</p> <p>Check fan module pull cord action – replace the module if faulty.</p> <p>LED flash but fan doesn't run signifies either a motor failure or switched live is not present – check field wiring, if ok replace the fan unit.</p> <p>If electricity present, power off, wait and power on again – this may restart the unit.</p>	High airflow but no discharge to atmosphere.	<p>Low system pressure:</p> <ul style="list-style-type: none"> Ensure all ducting is connected from fan to atmosphere
Noise.	<p>Impeller fouling case. Adjust impeller by using pressure at the centre of the impeller hub and push away from the fouling area</p> <p>Contaminated impeller causing an out of balance. Lightly brush away excess dirt taking care not to disturb balance weights.</p> <p>Unit not mounted on a flat surface causing distortion, adjust fixing.</p> <p>High system pressure, see right.</p>	Low airflow but fan speed high.	<p>High system pressure, check for:</p> <ul style="list-style-type: none"> Dirty filters Backdraught shutters jammed shut Blocked outlet grilles. Long ducted runs Twists, bends or crushed flexible duct work

