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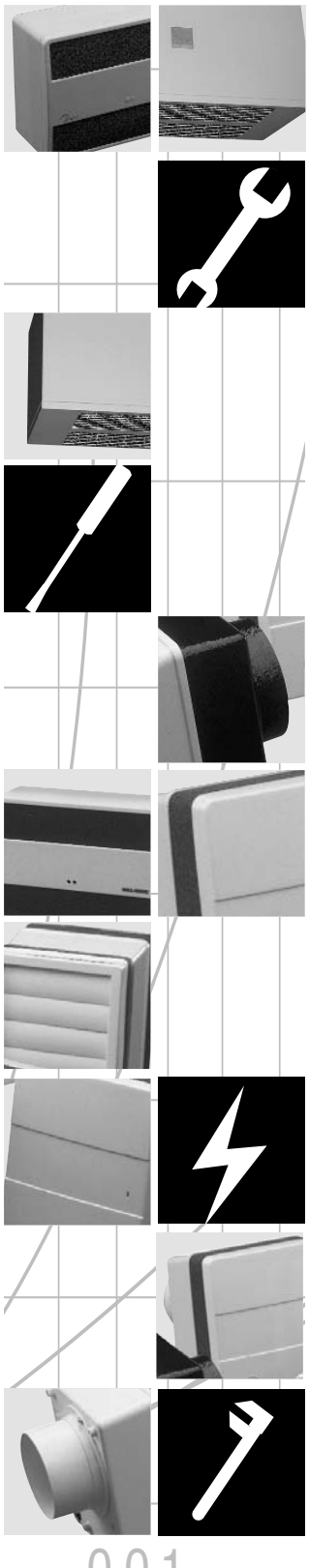
Genie 12V, 230V and NKFI - Hints & Tips



1.0 On installation

Follow the installation and maintenance document 671182 and 671185 for GENIE and NKFI respectively, paying particular attention to;

1.1. The chosen location for installation.

1.1.1. In a bathroom the location is critical; the use of a 12v unit is preferred. Refer to the IEE regulations for the correct 'ZONE' area.

1.1.2. Install the 12v transformer as far from the 'splash zone' as possible.

1.1.3. The GENIE range (NKFI in particular) is designed to be used as a kitchen extract how ever NOT mounted directly above the oven or hob.

1.2. The positioning of the unit.

1.2.1. Units can be installed as surface mounted; semi recessed or in the case of the GENIE-X for example can be mounted in a window.

1.2.2. Be aware of the possibility of asbestos in the ceilings and the regulations requiring a test before holes are cut.

1.3. Electrical

1.3.1. Pay particular attention to electrical connection referring to the I&M for correct method.

1.4. Setting to work.

1.4.1. Products in the range.

1.4.2. From the table, be aware of the unit control functions when setting to work.

Bathroom Units			Kitchen Units	
230v	12v			
GENIE		ON/OFF control, operated by pull . cord or alternatively by remote switch*.	NKFI	Kitchen unit, two speed .
GENIE PIR		ON/OFF control, via PIR. (230V only.)	NKFISTD	Kitchen unit, single speed.
GENIE - S	GENIE - SI2	With integral run-on timer, operated by remote switch* only.	NKFI-X	Kitchen unit, continuous trickle vent, boost by pull switch.
GENIE - H	GENIE - HI2	With integral humidistat, operated by pull cord or remote switch*.	NKFIXR	Kitchen unit, continuous trickle vent, boost by remote switch*.
GENIE - X	GENIE - XI2	Continuous low duty with boost facility operated by pull cord or remote switch*.	NKFIH	Kitchen unit, two speed with integral humidistat.
GENIE - XH	GENIE - XHI2	Continuous low duty with boost facility via internal humidistat operated by pull cord or remote switch*	NKFI-RS	Kitchen unit, two speed remote operated c/w switch.
			NKFI SHUT	Outlet shutter.
			GENIE Damper	Fire Damper.
			770984	Fixing kit.
* light switch or similar			*switch not supplied.	

2.0 On maintenance

2.1. Motors contain sealed for life bearings, no lubrication is necessary.

2.2. A washable filter is fitted, we recommended that all unit filters are inspected and cleaned (wash in light detergent and dry before refitting) after the first six months and determine the maintenance frequency there after by the rate and type of contamination.

2.3. Lightly brush excess dirt from unit cases and fan impellers taking care not to disturb impeller balance weights – if washing is necessary apply a light detergent and dry.

3.0 On spares

Should a defect arise during installation or setting to work. NUAIRE would prefer that the complete unit is replaced and the defective unit returned in its entirety.

On larger projects however and in the interests of progressing the work it may be more expedient to replace the defective component.

On large projects a 'spares box' can be supplied avoiding the need to remove parts from uninstalled units held on stock. (see components spares list on reverse side).

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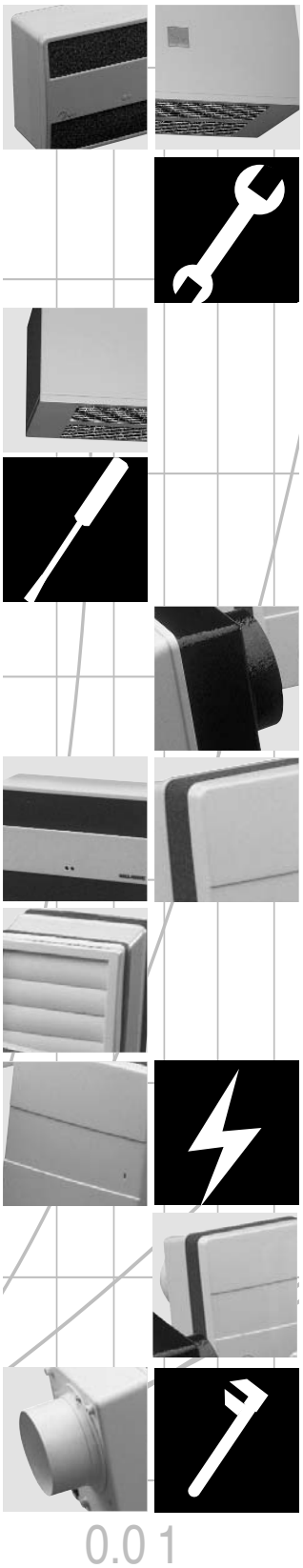

Component spares

	Fan Model	230V	12V
GENIE fan internal 12V Transformer	GENIE	770976 N/A	771280 771921-P
Genie Control Modules Genie Filters	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 NKFI internals NKFI Filters & cover	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
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.	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. Ensure unit hasn't been switched off or isolated and that the local fuse hasn't blown. Confirm correct electrical connection. If switch activated ensure the switched live (SL) is present. Check the connector block at the base of the unit. If pin sockets have been misplaced replace the socket.	12V products. Not powering up.	No 12v output from secondary side of the transformer L and N would suggest a transformer failure. Replace transformer unit. No Signal Line (SL) output on the 12v side – usually due to no 230v Switched live input, check wiring. or a failure with the PCB component, replace transformer unit. **NB: the SL output is not measurable as it is a signal voltage not an actual 12v live output.**
Not working would usually suggest that it has at sometime functioned correctly.	Ensure unit hasn't been switched off or that the local fuse hasn't blown. Check fan module pull cord action – replace the module if faulty. 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. If electricity present, power off, wait and power on again – this may restart the unit.	High airflow but no discharge to atmosphere.	Low system pressure: • Ensure all ducting is connected from fan to atmosphere
Noise.	Impeller fouling case. Adjust impeller by using pressure at the centre of the impeller hub and push away from the fouling area Contaminated impeller causing an out of balance. Lightly brush away excess dirt taking care not to disturb balance weights. Unit not mounted on a flat surface causing distortion, adjust fixing. High system pressure, see right.	Low airflow but fan speed high.	High system pressure, check for: • Dirty filters • Backdraught shutters jammed shut • Blocked outlet grilles. • Long ducted runs • Twists, bends or crushed flexible duct work