

## **TOPP ACK4**

These units are Italian designed and manufactured and used extensively throughout Europe and Australasia. They are robust, safe and have been installed in many schools, particularly where blinds or curtains are to be used.

Being 230 volt means the cabling is very simple, and eliminates the need for transformers and controllers, which makes them even more economical. They can be wired in parallel.

They are also available in 24 volt, if required.

With all electric systems, we also offer rain, smoke, temperature sensors and remote controls. We can also offer fully integrated systems.

## **BENEFITS**

- Very discreet and unobtrusive
- Take up little space
- Do not interfere with any window treatments such as curtains or blinds
- Suitable for sashes up to 1500mm wide
- IP rating of 55
- Very robust and fast
- Economical - more economical than manual gearboxes for single sash windows.
- Available 230 volt, so can be wired directly from switch to chain drive, without transformers or controllers, making cabling easy and economical. Electricians love them!

## **DESIGN PARAMETERS**

- Maximum sash width for single chain drive - 1500mm
- Sashes over 1500mm require tandem chain drives - we can offer alternatives for these.
- Sashes must be top hung or on frictionless stays
- Restrictor stays must not be fitted to the sashes
- ACK4 – 230 volt electric chain drives (Black, White or Grey finish) to be mounted on the sash at the transom or at the sill on the jamb liner.
- Units can be powdercoated to match joinery at an additional cost



**Operable Window Technologies**

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- 230 volt electric chain drives can be wired direct from the switch to the chain drive without the need for controllers or transformers.
- 230 volt suitable for most situations except low level or within close proximity to water source, such as a shower head.

## **DESIGN REQUIREMENTS**

230 volt cabling is the standard voltage of cabling, so no special wiring or controllers are required.

At installation we set up the motors and limit switches and leave the cable hanging for final connect by the electricians. They are not to be permanently hard wired.

## **REGISTERED SITE ELECTRICIAN**

- Supplies all electric power (230 volt) to the switches and each chain drive, with 3 core cable between the switch and the chain drive (open, close and neutral – no earth required as motors are double insulated).
- Supplies and installs the switches, which must have a neutral position to which the switch returns so power does not go permanently to the chain drives.
- Supplies and installs a permanent connection unit or ceiling rose, or similar, positioned approximately 250mm to the right hand side of the centre of the sash with a 3 way strip connector for final connection.
- The chain drives must not be hard wired.
- Makes all final connections to the chain drives.
- Conceal cables as much as possible.



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