

## VentLogic V40 Options When Controlling Multiple VVS

### Option 1

A VentLogic V40 controller can be used to directly drive up to four motors, as shown in Figure 1:

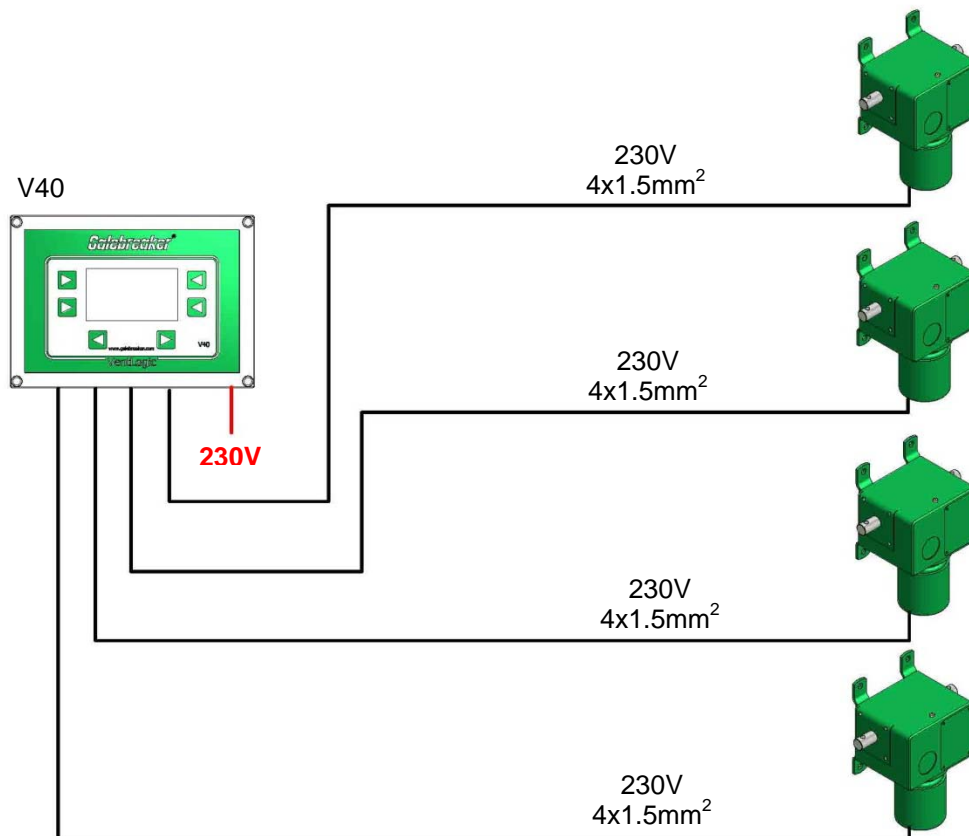


Figure 1, Using a V40 to Directly Drive Multiple Motors

When quoting for purely the components this will always look like the cheapest option for the customer. However depending on where the four motors are to be located in relation to the VentLogic V40 controller, there may be a large amount of high voltage (230V) drive cable that has to be independently routed from each motor back to the V40. This routing of the cable will have a cost to the customer, i) for the cable and protective conduit, ii) for the labour required to route the individual cables.

**Option 2**

Another option that is available for the customer is to use VentLogic V10 controllers as a slave to the VentLogic V40, Figure 2. The V10 gives the customer added functionality in that they are able to override the automatic control and manually position a curtain without having to go to the V40 (which may be some distance from the VVS itself), but there may be hidden cost savings that could make this the preferred cost effective option. Each V10 can be connected to each other and back to the V40 using the same COMs, which could mean savings in the cost of the cable and also labour.

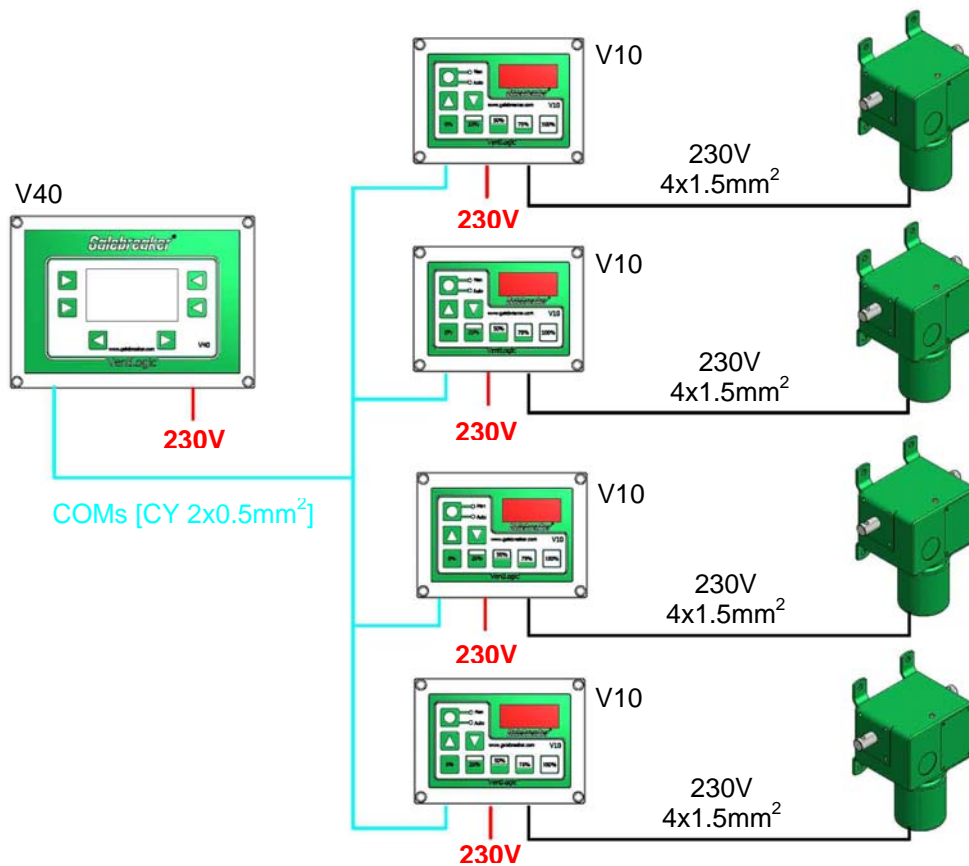
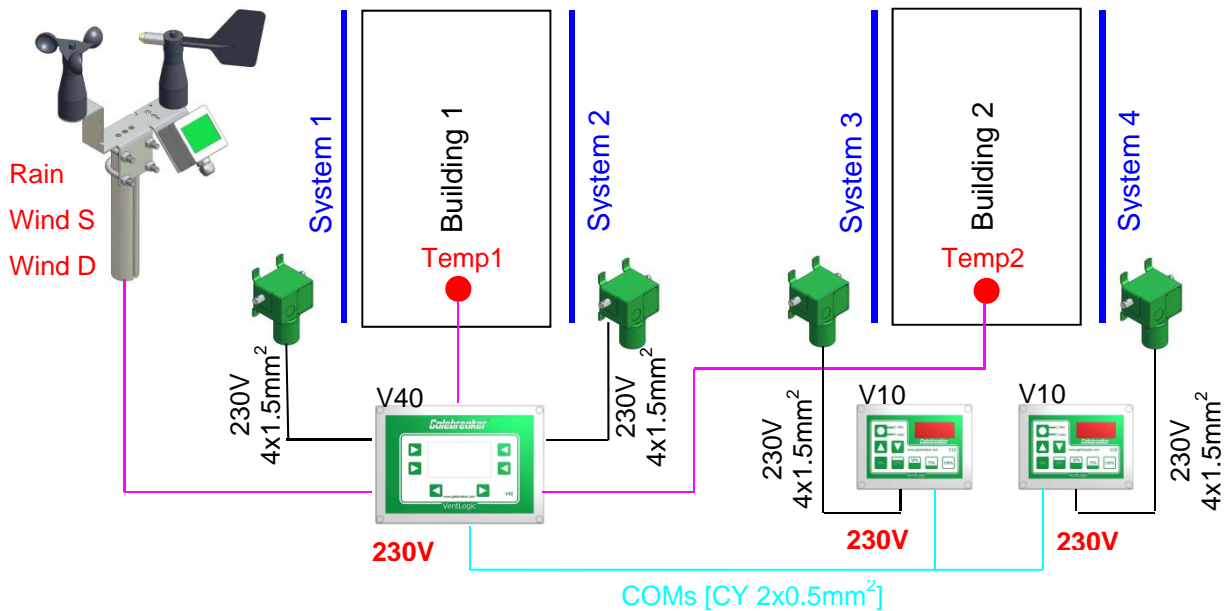


Figure 2, Using a V40 and local V10's to Drive Multiple Motors

Depending on the specific site layout both the above options, and their implications with regards to wiring, should be considered at the quotation stage. It is possible that a mixture of Option 1 and Option 2 are used for the motors connected to the same V40 controller. It should also be noted that a 230V supply MUST exist local to each V40 and V10 controller.

**Example Scenario**

A V40 is used to control four VVS's that are to be installed on two buildings (two VVS's on Building 1 and two VVS's on Building 2). The location for the V40 is in Building 1.



Due to the distance between the two buildings, the cost effective solution is to directly drive the two VVS's installed on Building 1 (i.e. *Option 1*), but drive the two VVS's on Building 2 using a V10 controller for each system (i.e. *Option 2*).