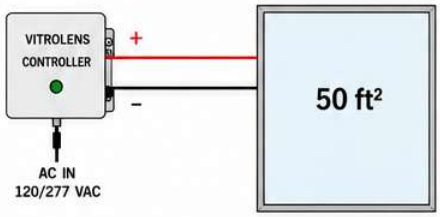
FIGURE 4-4. CONTROLLER SIZING GUIDELINES

Controller sizing is based on total connected area and control zones—not the number of glass panels.

A SINGLE LITE

One controller – one zone

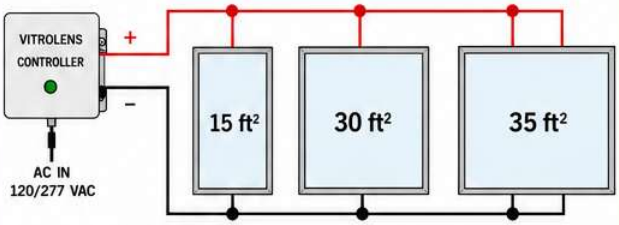


1 Controller
1 Panel
50 ft² total connected area

TYPICAL

B MULTIPLE PANELS – SAME ZONE

One controller – multiple panels wired in parallel



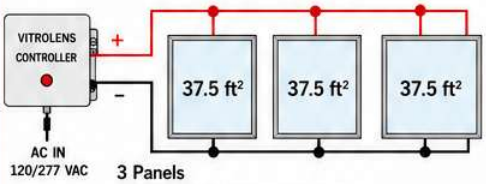
3 Panels (different sizes)
80 ft² total connected area

ACCEPTABLE

PANEL COUNT DOES NOT DETERMINE CONTROLLER COUNT.
The controller sees total connected square footage.

C LARGE CONNECTED LOAD

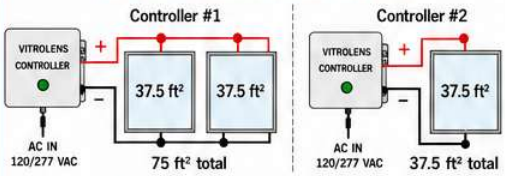
One controller not recommended



3 Panels
112.5 ft² total connected area

ADDITIONAL CONTROLLERS ARE REQUIRED.

BETTER APPROACH: DIVIDE THE LOAD

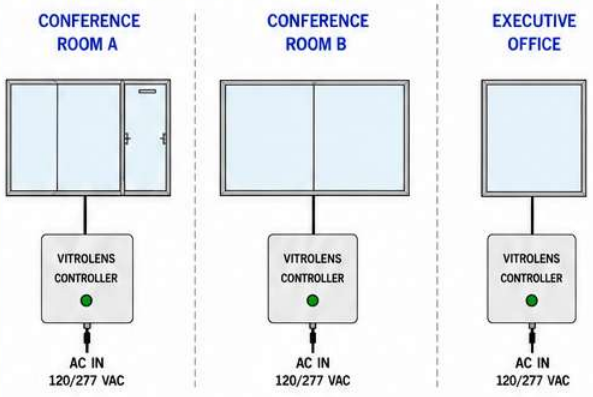


BETTER – 2 Controllers total
75 ft² + 37.5 ft² = 112.5 ft²

Large systems are easier to troubleshoot when divided into smaller zones.

D MULTIPLE ZONES

Each zone has its own controller



BENEFITS

- Independent control
- Easier troubleshooting
- Reduced connected load
- Simplified maintenance
- Simplified service

CONSULT VITROLENS

Consult VitroLens for controller sizing on systems exceeding 80 ft² or where multiple zones, long wire runs, exterior applications, or unusual switching requirements are involved.

CONTROLLER SIZING IS BASED ON:

- Total connected area
- Number of control zones
- Wire length
- Switching arrangement
- Interior vs. exterior application
- Controller model
- Environmental conditions

VITROLENS TAKEAWAY

The controller sees connected load—not the number of glass panels.
Controller sizing is based on connected load, control zones, wiring conditions, and project requirements.

PRINCIPLE

Large systems are easier to troubleshoot when divided into smaller zones.

NOTE: All square footages are examples. Actual controller capacity varies by product model, installation conditions, and system design. Consult VitroLens for project-specific guidance.

VITROLENS TECHNOLOGIES