Controller Cabinet (SCC-1 / 2 / 3)
User Manual

OVERVIEW

The Controller Cabinets are modular electrical enclosures and wire management systems for your TrolMaster Control system.

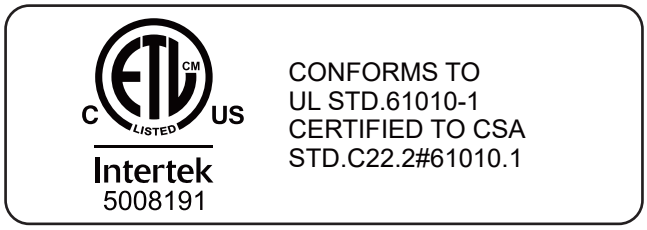
The enclosures are designed to allow any of TrolMaster's controllers to be installed in a clean professional way. All of your device stations can be mounted inside the electrical cabinet to keep the device stations clean and dry. You'll now be able to safely mount power supplies, modules, and organize your RJ12 cables with ease.

FEATURES

- IP56 (equivalent to NEMA 4X Rating), protected from limited dust ingress and high-pressure water jets.
- Compatible with all TrolMaster's controllers
- Easy to assemble & wire
- Future expandable -internal &external expansion
- Easier to service when all components are in one place
- Flexible & Customizable
- Neatly organize wires and Device Modules

SPECIFICATIONS

Enclosure Rating:	IP56 (equivalent to NEMA 4X Rating)
Temperature Resistance:	0.1A
Input Voltage:	120V
Max Amps:	15A



SAFETY PRECAUTIONS

Read the installation and operation instructions carefully before installing and operating this device. Proper adherence to these instructions is essential.

The maximum amperage for the controller cabinets is 15 amps.

WARNING

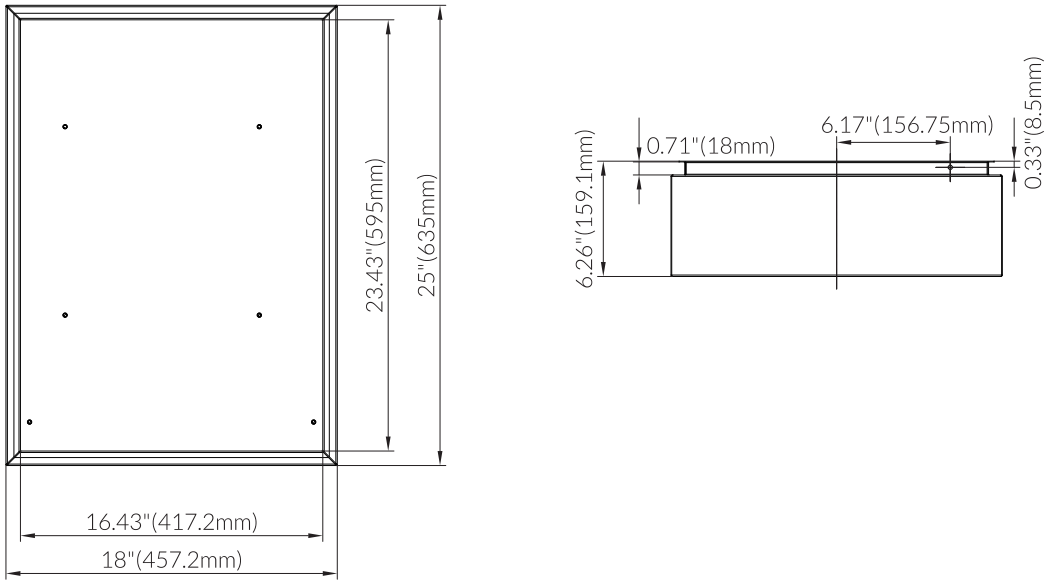
1. Users are responsible for correct and safe installation and usage.
2. It's highly recommended to have a licensed electrician install your controller system.
3. Ensure the existing electrical system can support the voltage and current requirements.
4. The 120-volt power supply may cause serious injury from electric shock. Disconnect all electrical power while installation and setup are completed.
5. Sharp edges of the metal cabinet may cause serious injury from cuts. Install with care.
6. The enclosure is heavy. It may cause serious injury or equipment damage if dropped. Secure the enclosure to a wall or supports using appropriate fasteners. Follow installation instructions carefully.

CAUTION

1. Read all instructions carefully before installation.
2. This product is not intended for use by any persons and children with reduced physical, sensory or mental capabilities or lack of experience and product knowledge.
3. The device is designed to be installed INDOORS IN A SPACE THAT IS PROTECTED FROM RAIN AND FLOODING
4. DO NOT clean the interior of the enclosure with any chemicals that might cause damage. To clean the enclosure... Use a damp cloth only.

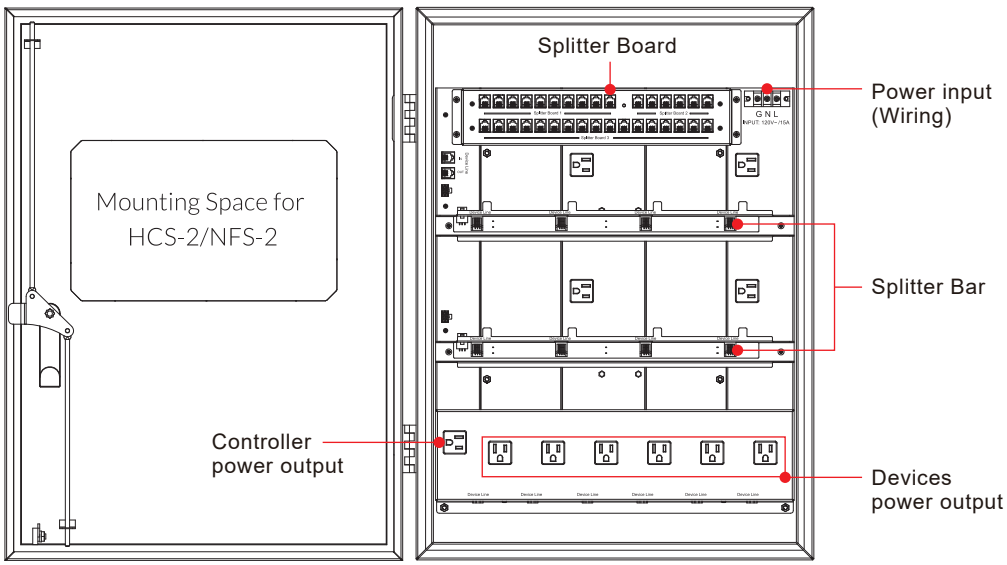
25" Controller Cabinet

Dimensions

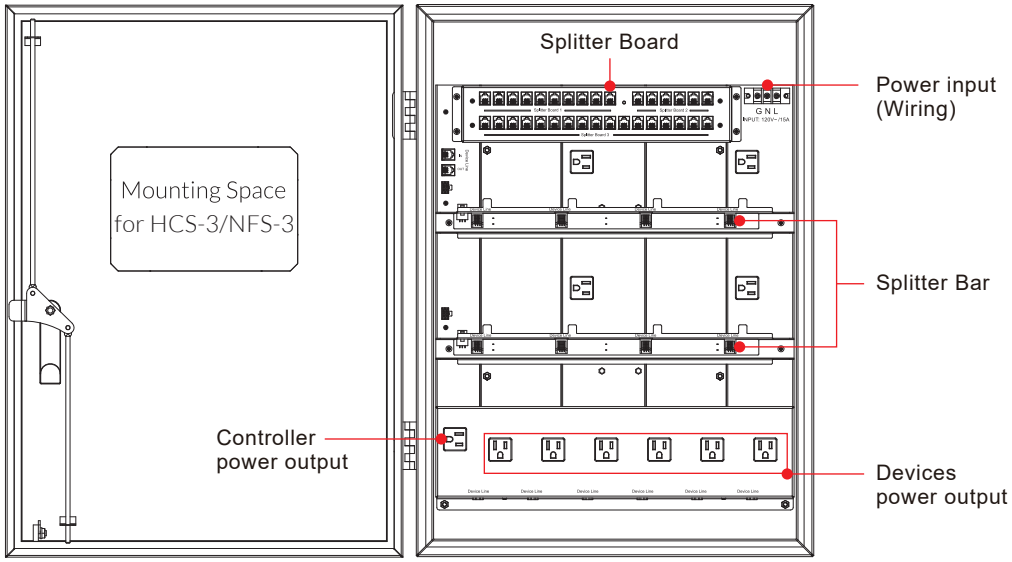


Cabinet Layout

WARNING: The maximum amperage for the controller cabinets is 15 amps only. Any devices that consume high amperage are not recommended to operate directly from the cabinet's outlets.



Standard Controller Cabinet (SCC-1)



Standard Controller Cabinet (SCC-3)

Cabinet Capacity

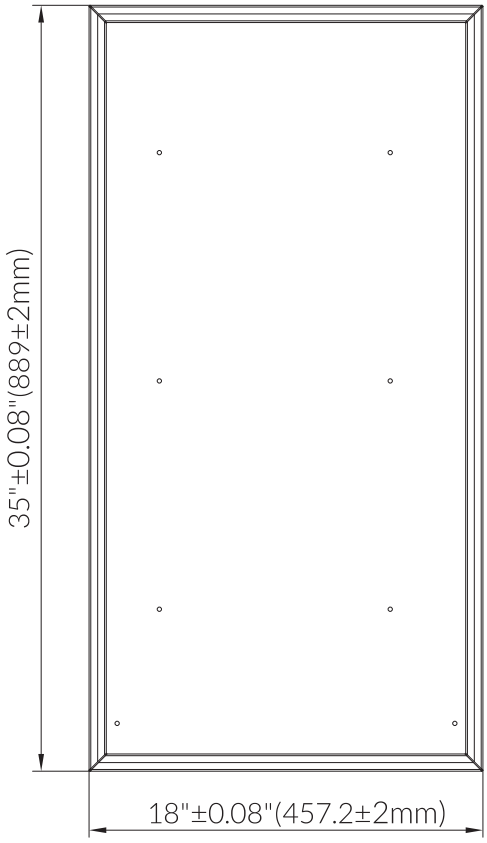
- Splitter Board #1: 10 ports (top)
- Splitter Board #2: 6 ports (top)
- Splitter Board #3: 17 ports (top)
- Splitter Board #4: 2x4 ports (middle splitter bars)
- Splitter Board #5: 6 ports (bottom)
- Power Outlet: 4+1+6

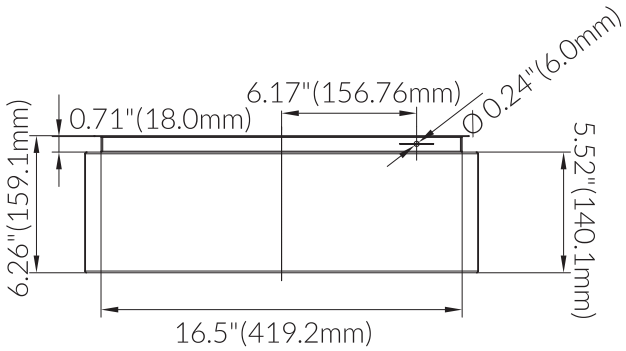
Package Content

- 1 x Controller Cabinet
- 1 x Controller Rubber Gasket
- 4 x Power Cables (for OA6 modules)
- 4 x Long RJ-12 Cables
- 16 x Short RJ-12 Cables
- 10 x OA6-24 Screw Set

35" Large Controller Cabinet

Dimensions





Cabinet Layout

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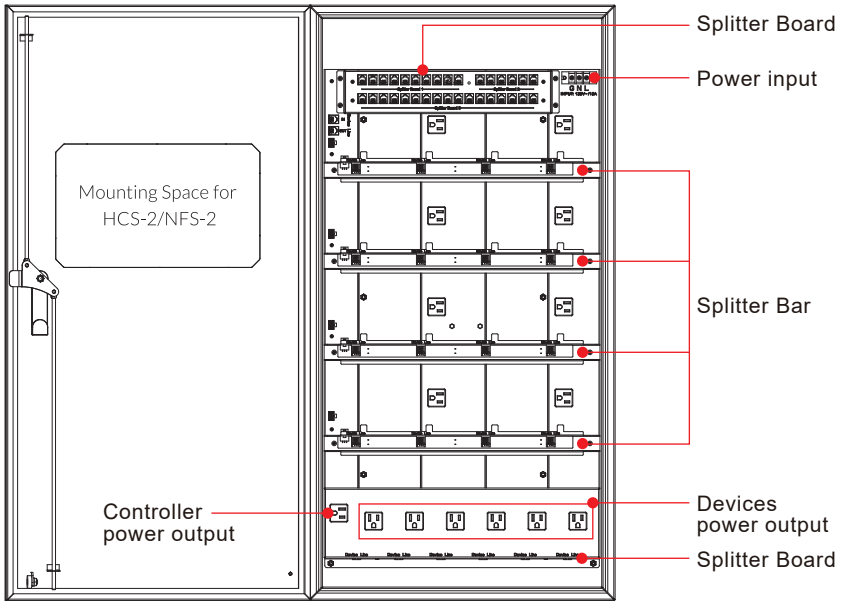


Large Controller Cabinet (SCC-2)

Cabinet Capacity

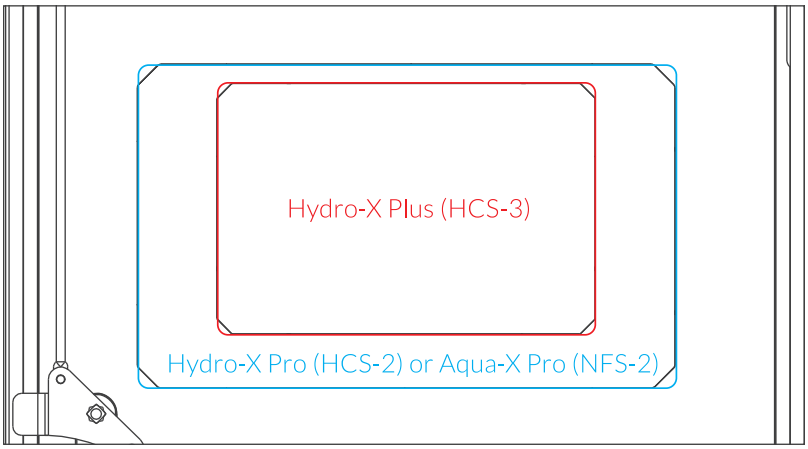
- Splitter Board #1: 10 ports (top)
- Splitter Board #2: 6 ports (top)
- Splitter Board #3: 17 ports (top)
- Splitter Board #4: 4x4 ports (middle splitter bars)
- Splitter Board #5: 6 ports (bottom)
- Power Outlet: 8+1+ 6

Package Content

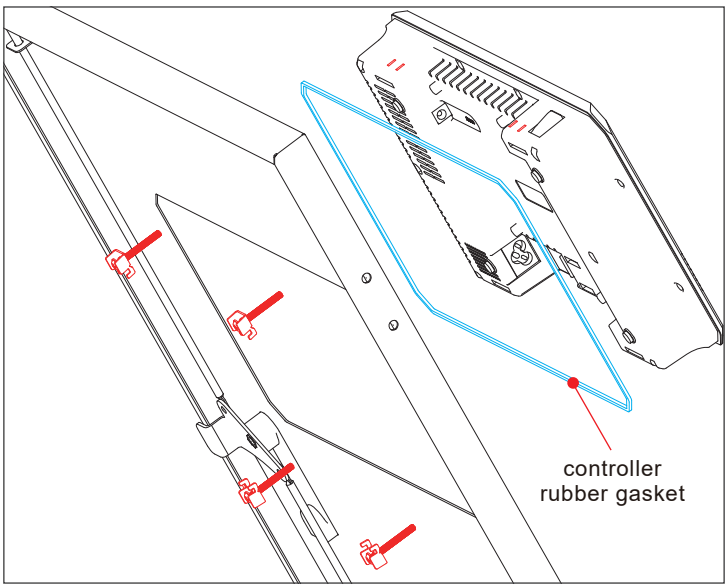
- 1 x Controller Cabinet
- 1 x Controller Rubber Gasket
- 8 x Power Cables (for OA6 modules)
- 4 x Long RJ-12 Cables
- 26 x Short RJ-12 Cables
- 18 x OA6-24 Screw Set

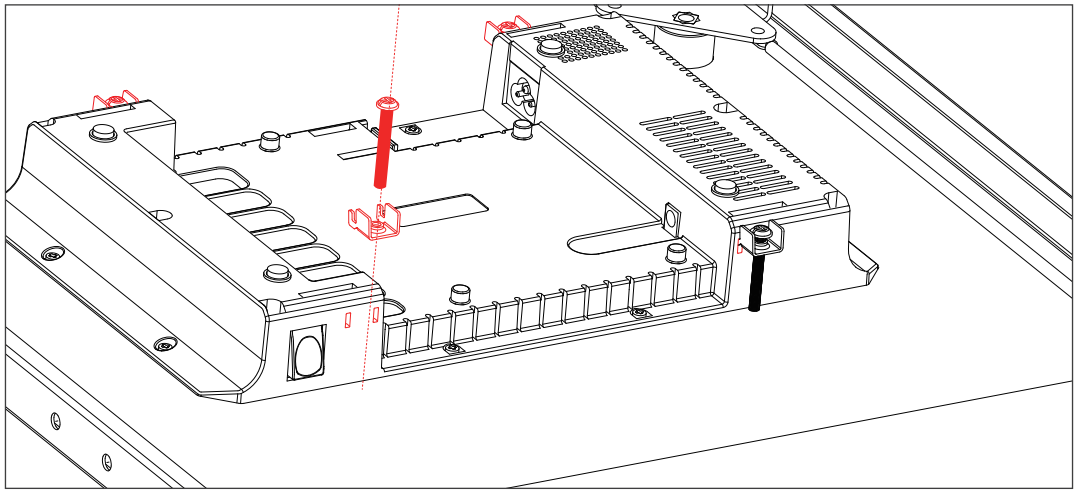
INSTALLATION INSTRUCTIONS

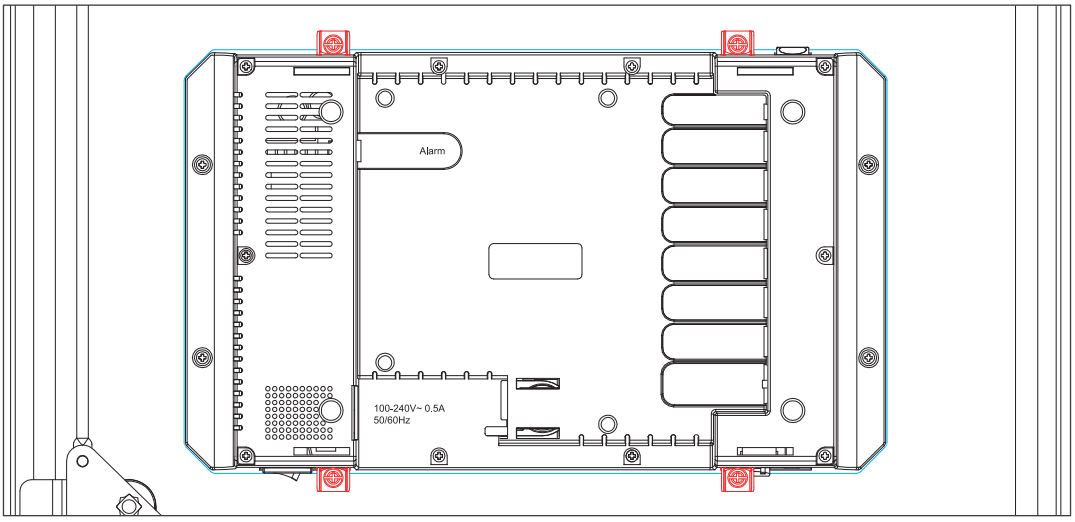
The cabinet is designed for Wall Mount only (Regular 1/4" Screw is not included in the package). Verify your wall is strong enough to hang the cabinet, then drill and fasten the cabinet onto the wall using appropriate fasteners.



To assist in mounting the controller to the cabinet, there is a mounting space located on the door. The mounting space of the SCC-1/SCC-2 Cabinet, fits with the **Hydro-X Pro (HCS-2)** or **Aqua-X Pro (NFS-2)**; the space of the SCC-3 Cabinet, fits with the **Hydro-X Plus (HCS-3) / Aqua-X Plus (NFS-3)**.



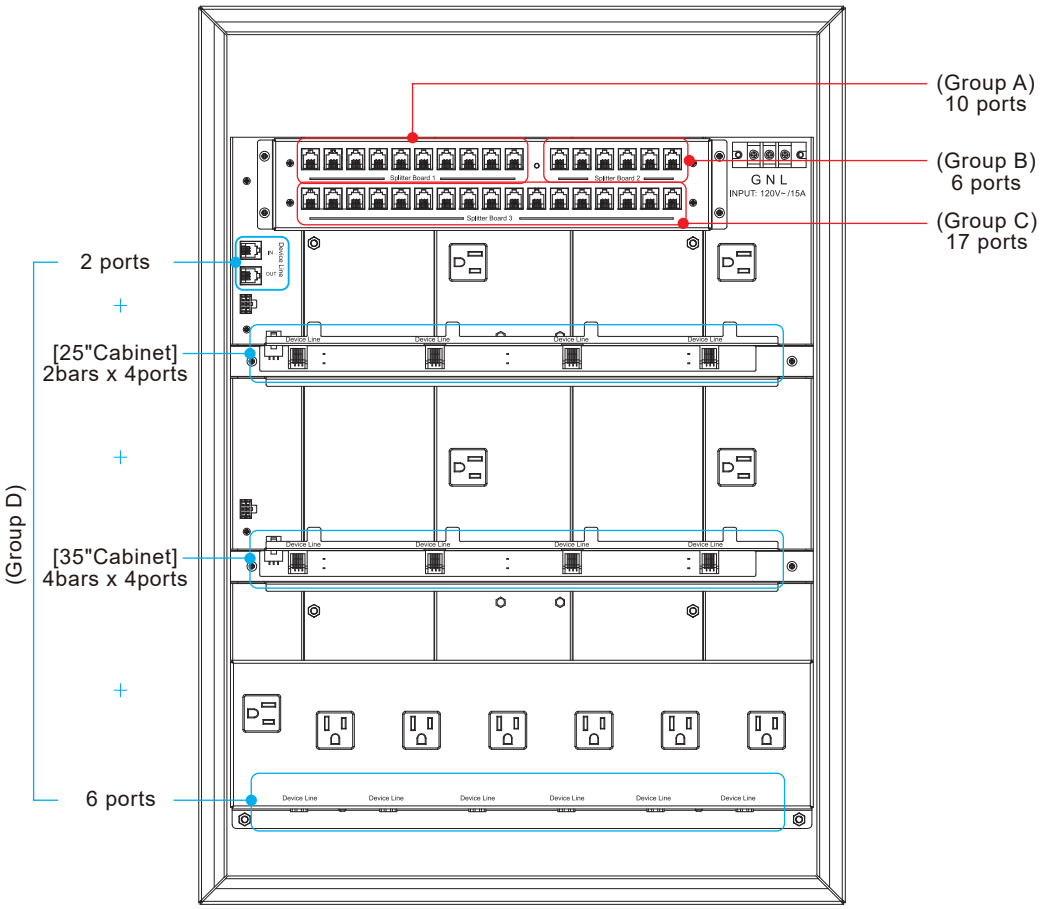




In order to fit the IP56 (equivalent to NEMA 4X Rating) standard, a **controller rubber gasket** is provided, perfectly fitting in between the controller and the cabinet door. Once it's sealed properly, it shall protect the controller and other devices from dust and water.

WARNING:

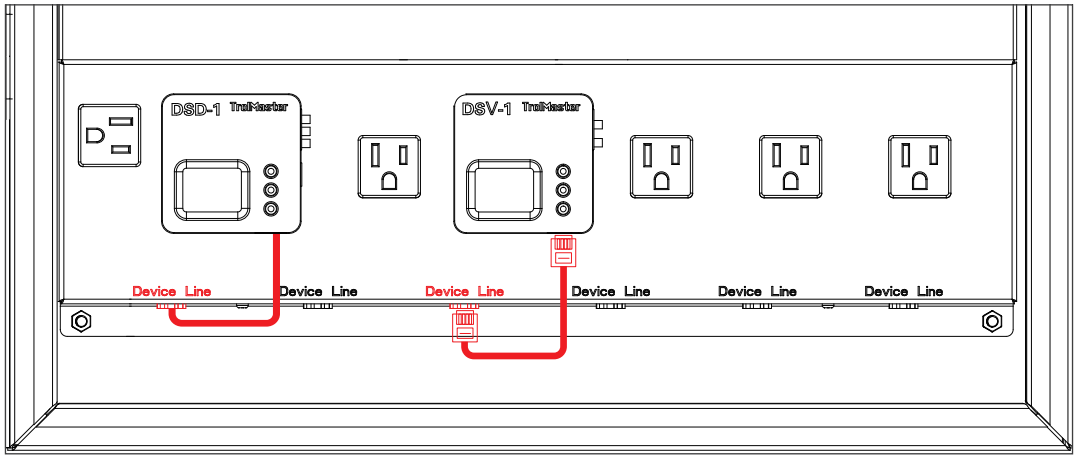
***NOTE:** You cannot mix sensor, device modules, or lighting on the SAME splitter boards. Each splitter board must have EITHER sensor, device modules, or lights connected to it.



The TrolMaster cabinets provide the user with multiple built-in RJ12 splitter boards. There are **4 groups of splitter boards** that offer RJ12 cable connection ports. Each group can be connected to various TrolMaster sensors, adapters, and device modules. Users can freely select which group of splitter boards they want to use for sensors, lights, or devices.

All RJ12 ports built inside the cabinet are **bi-directional (universal)**, which means they can provide both input and output connections using the same port. Multiple groups can also be connected into one big group, Simply link them together by using a male-to-male RJ12 cable.

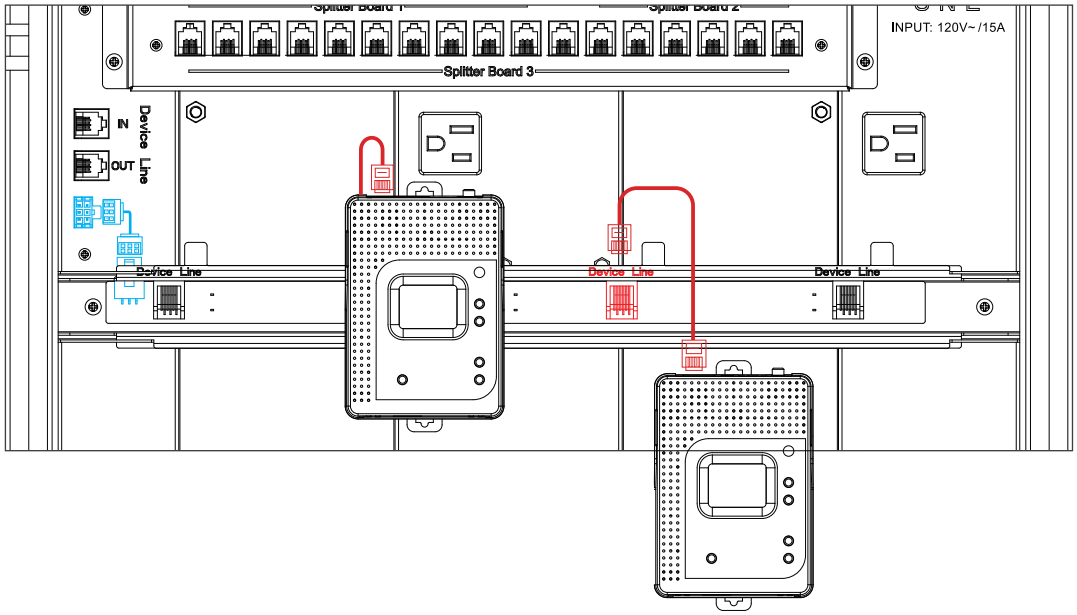
(Group D / Device Line) is designed specifically to be used with the device modules mounted inside the cabinet. We have provided two "Device Line" RJ12 ports that are internally connected to all of the Group D RJ12 ports inside the cabinet. (See diagram below) An RJ12 cable will be connected from the Device Line IN port to the Device Port on the main controller. If you have additional device modules NOT located inside the cabinet, those device modules can be connected to the Device Line OUT port., and a short RJ12 cable is used to connect them to the Group D splitter boards. The middle splitter boards have built-in DIN rails.



All of the RJ12 ports at the bottom of the cabinet are dedicated for any plug-in-style DS/device stations. The "DS" style modules can be connected to the 120-volt power receptacles at the bottom of the enclosure.

Note: Since the maximum amperage for the controller cabinets is 15 amps only. Any devices that consume high amperages such as the DSP, DST, or DSH modules are not recommended to operate directly from the cabinet's outlets.

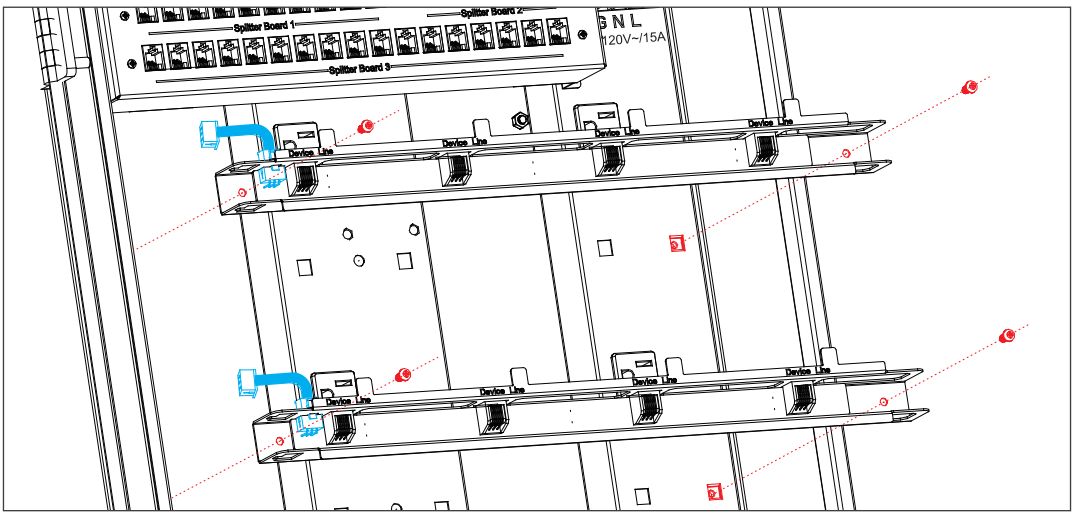
Cabinet Capacity



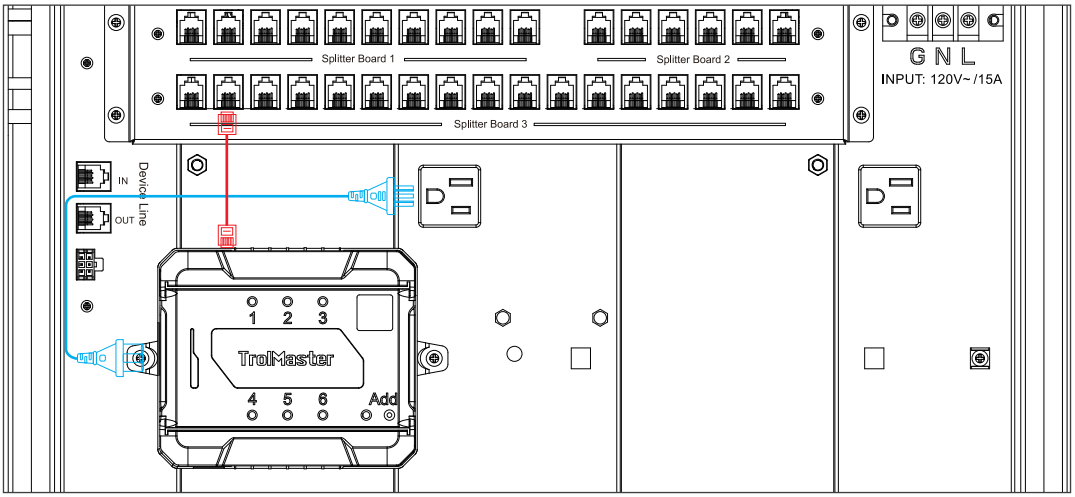
Low-Voltage Devices installation example

The din-rail mounts are designed to quickly install all of the Hydro-X low-voltage device modules such as the TS-1, TS-2, HS-1, ARS-1, TSH-1, and VFD-1. Snapping the two quick-connects into place easily secures each module to the din-rail mounts. Again, use a short RJ12 cable to connect each low volt module to the Group D splitter boards.

Wiring Design for the Aqua-X System



Splitter Bars are detachable



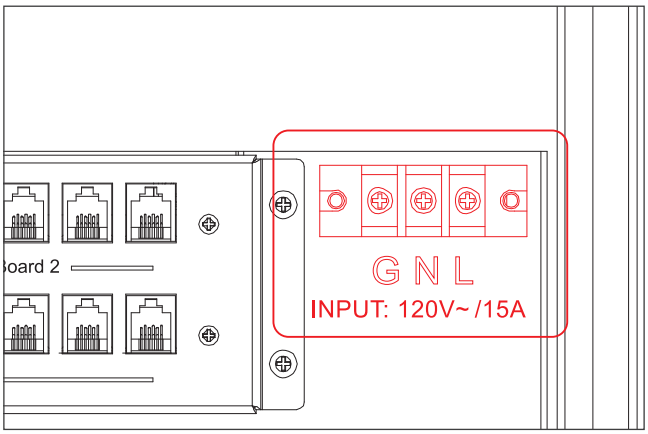
OA6 modules installation example

There are power outlets/receptacles in the middle of the cabinet, 4 power outlets for 25", 8 for 35". These outlets are designed to provide power for the OA6-24, used with the Aqua-X and Aqua-X Pro Controller Systems. To mount the OA6 modules, the Splitter Bars are detachable, they'll need to be removed to make space for the OA6 modules. To remove the Splitter bar, simply detach the cable on the left, and remove 2 Phillips screws holding the splitter bar.

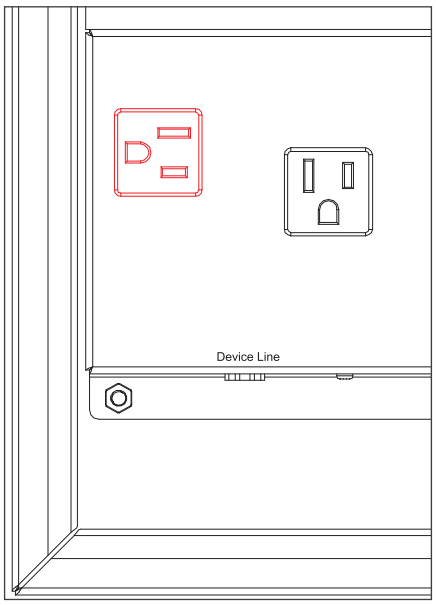
Power

1. The electrical cabinet requires a power source. Once connected to that power supply, all of the devices connected inside the cabinet will also operate on that same voltage (Maximum 15-amps).

2. The power supply will be connected to the three power terminals.



3. There is a single power outlet (facing sideways) at the bottom left. It is designed to connect to the main controller's power supply or power cable.



4. The 6 power outlets at the bottom are designed to connect with plug-in-style device stations.
   *The user must ensure that the total amperage of all plug-in-style device modules does not exceed the maximum rated amps for the electrical cabinet.

WARNING: **DO NOT** allow the SCC-1/SCC-2/SCC-3 Dry Contact Board to be exposed to water or excessive heat. DO NOT open or attempt to repair or disassemble the controller, as there are no user-serviceable parts inside. Opening the controller will void the warranty.

If the surface of SCC-1/SCC-2/SCC-3 Dry Contact Board is dirty, wipe it with a dry towel. The SCC-1/SCC-2/SCC-3 Dry Contact Board operates under natural ventilation conditions.

AVERTISSEMENT: **NE PAS** exposer la carte de contact sec SCC-1/SCC-2/SCC-3 à l'eau ou à une chaleur excessive. NE PAS ouvrir ou tenter de réparer ou de démonter le contrôleur, car il ne contient aucune pièce réparable par l'utilisateur. L'ouverture du contrôleur annulera la garantie.

Si la surface de la carte de contact sec SCC-1/SCC-2/SCC-3 est sale, essuyez-la avec une serviette sèche. La carte de contact sec SCC-1/SCC-2/SCC-3 fonctionne dans des conditions de ventilation naturelle.

For any issues or concerns with our products, DO NOT return them to the store. Please contact our tech support department at **support@trolmaster.com** or call **877-420-9876**.

June 2025