

APPLICATION

The Q4004 Mounting Cage can accommodate any combination of Det-Tronics 4U high flame controllers, gas controllers or auxiliary modules. The Q4003 Mounting Cage can accommodate any combination of Det-Tronics 3U high gas controllers. Both types are available in various widths. The largest capacity Q4004 can accommodate up to eight 4U high controllers and auxiliary modules or up to sixteen 4U high gas controllers. The Q4003 Mounting Cage, used to mount 3U high gas controllers only, can accommodate up to sixteen controllers. See Figure 1.

The controllers and auxiliary modules mount on rails within the Q4003 or Q4004. Each flame controller and auxiliary module requires two rails and each gas controller requires one rail for mounting.

Filler plates can be ordered to cover slots in a cage that are not used. They are available in either two inch (two-rail) or one inch (one-rail) widths.

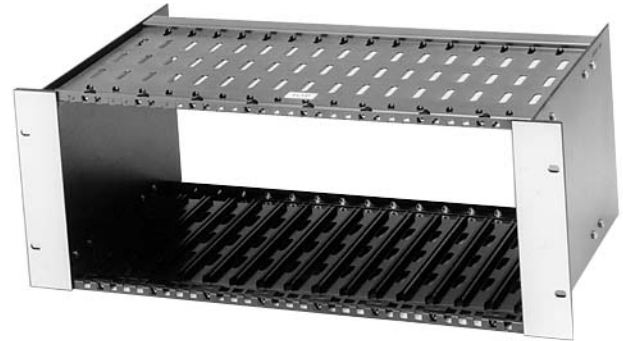
INSTALLATION

MOUNTING CLIPS

Mounting clips that fit either between the rails on both the top and bottom of the mounting cage (for two-rail modules such as the flame controllers and auxiliary modules) or in line with the rails on the bottom of the mounting cage (for one-rail modules such as the gas controllers) are used to secure the modules (see Figure 2). The Q4003/Q4004 Mounting Cages are configured for two-rail modules when shipped from the factory, but this configuration can easily be changed by sliding the mounting clips out of position and replacing them in the desired configuration. Refer to Figure 2.

Two-Rail Modules

Two mounting clips are used. They should be located between the rails and aligned, the top with the bottom. This configuration uses the mounting clip to pair two rails into a "set" for mounting two-rail modules. A gap with no mounting clip is located between each set of rails. This is the factory shipped configuration.



One-Rail Modules

One mounting clip is used and should be located in line with each rail where a controller will be mounted. To change to this configuration from the factory shipped configuration, remove a clip that is not being used from the upper mounting surface and insert it on the lower mounting surface in line with the desired mounting rail.

Filler Plates

Two mounting clips are used, one at the top and one at the bottom of the rack. For two-inch filler plates, the mounting clips should be located between the rails and aligned the top with the bottom. For one-inch filler plates, the mounting clips should be located in line with the rails and aligned, the top with the bottom.

PLUG-IN CONNECTOR

Most controllers and auxiliary modules are shipped with a backplate that allows connections for field wiring to remain in place when the controller or module is removed from the mounting cage. These backplates mount on the rear of the mounting cage using the screws provided on the rear of the cage. Once the desired location of each controller and /or module within the cage is determined, install the plug-in connector in the appropriate location as follows:

CONTROLLER POSITIONS FOR:		HT:	DIM. (A)		DIM. (B)		DIM. (C)		DIM. (D)		DIM. (E)		WEIGHT	
FIRE	GAS		INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	LB	KG
8	16	4U	19.00	482.6	18.30	464.8	17.36	440.9	4.00	101.6	6.97	177.1	9.3	4.2
6	12	4U	15.06	382.6	14.36	364.7	13.42	340.9	↓	↓	↓	↓	7.6	3.5
4	8	4U	11.13	282.6	10.43	264.9	9.49	241.1	↓	↓	↓	↓	5.9	2.7
3	6	4U	9.16	232.7	8.46	214.9	7.52	191.0	↓	↓	↓	↓	5.1	2.3
2	4	4U	7.19	182.7	6.49	164.9	5.55	141.0	↓	↓	↓	↓	4.2	1.9
1	2	4U	5.22	132.6	4.52	114.8	3.58	90.9	↓	↓	↓	↓	3.1	1.4
	16	3U	19.00	482.6	18.30	464.8	17.36	440.9	2.25	57.15	5.22	132.6	9.3	4.2
	12	3U	15.06	382.6	14.36	364.7	13.42	340.9	↓	↓	↓	↓	7.6	3.5
	8	3U	11.13	282.6	10.43	264.9	9.49	241.1	↓	↓	↓	↓	5.9	2.7
	6	3U	9.16	232.7	8.46	214.9	7.52	191.0	↓	↓	↓	↓	5.1	2.3
	4	3U	7.19	182.7	6.49	164.9	5.55	141.0	↓	↓	↓	↓	4.2	1.9
	2	3U	5.22	132.6	4.52	114.8	3.58	90.9	↓	↓	↓	↓	3.1	1.4

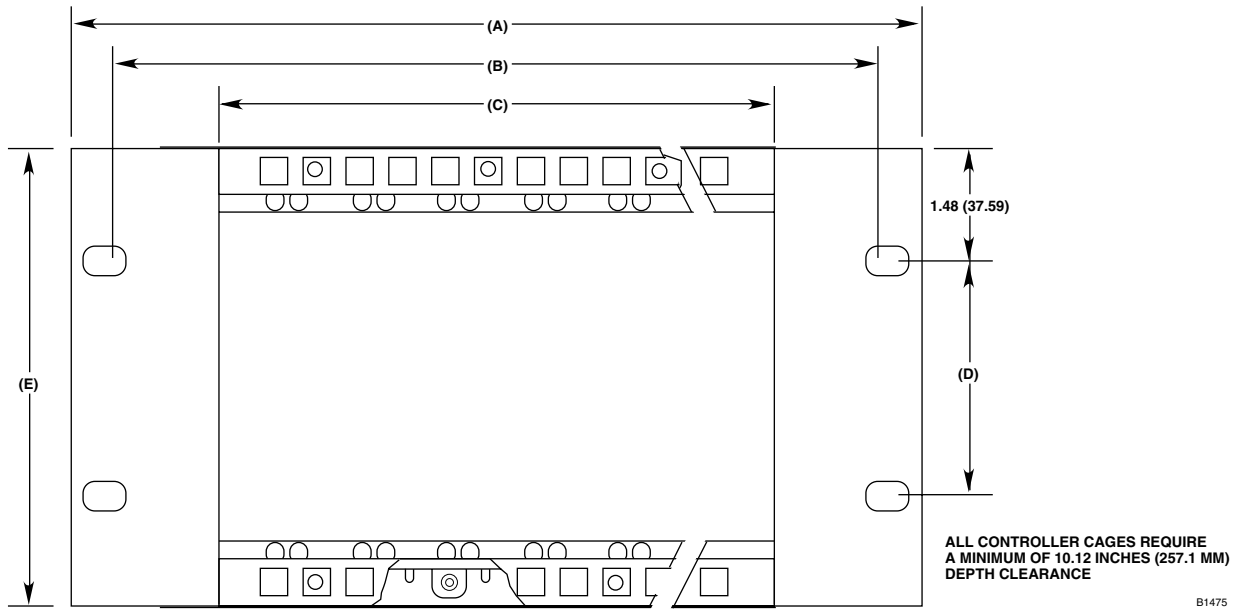


Figure 1—Mounting Rack Dimensions

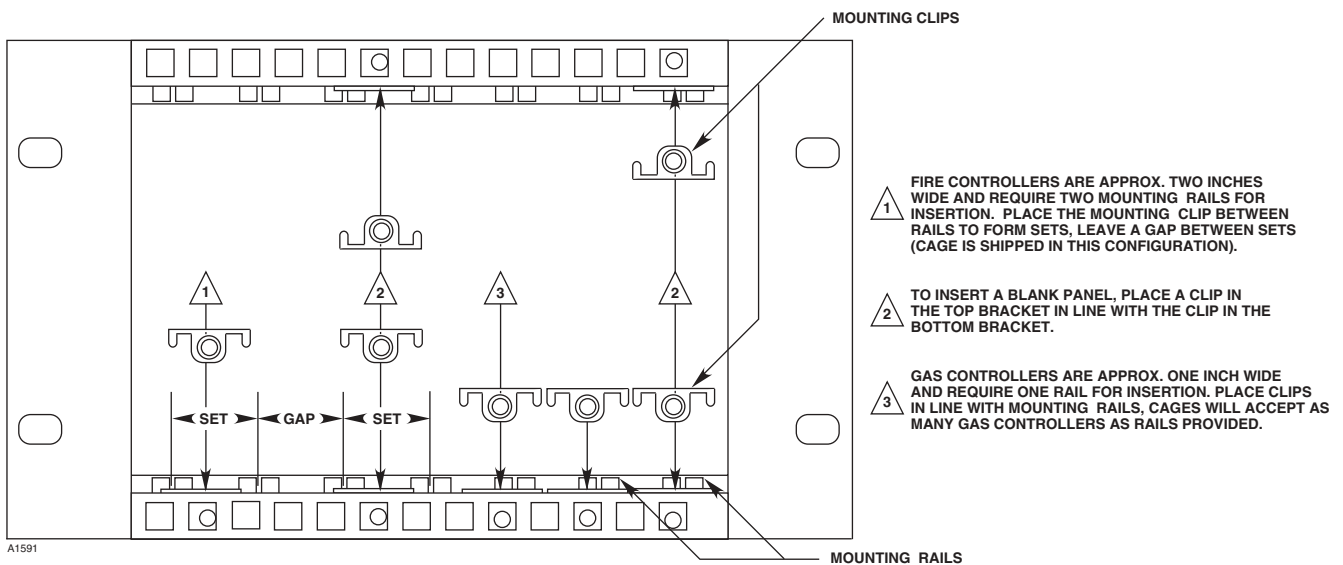


Figure 2—Mounting Rack Installation Notes

1. Remove the appropriate screws and washers from the rear of the mounting cage where the controller or module is to be located (four screws for two-rail modules, two screws for one-rail modules).
2. Place the plug-in connector over the mounting holes, install the screws and washers and tighten.

NOTE

Each controller or module has a specific plug-in connector, so care must be taken that the two are matched with each other when a controller or module is removed from. and returned to, the cage.

ORDERING INFORMATION

When ordering, please specify:

Q4003 Mounting Cage (for 3U high gas controllers).

Specify capacity:

- up to 16 gas controllers
- up to 12 gas controllers
- up to 8 gas controllers
- up to 6 gas controllers
- up to 4 gas controllers
- up to 2 gas controllers

Q4004 Mounting Cage (for 3U high flame controllers, gas controllers and auxiliary modules).

Specify capacity:

- up to 8 flame controllers/auxiliary modules or up to 16 gas controllers
- up to 6 flame controllers/auxiliary modules or up to 12 gas controllers
- up to 4 flame controllers/auxiliary modules or up to 8 gas controllers
- up to 3 flame controllers/auxiliary modules or up to 6 gas controllers
- up to 2 flame controllers/auxiliary modules or up to 4 gas controllers
- one flame controllers/auxiliary modules or up to 2 gas controllers

OPTIONS

Blank Filler Plate

- Two inch width
- One inch width

DEVICE REPAIR AND RETURN

Prior to returning devices, contact the nearest local Detector Electronics office so that a Service Order number can be assigned. A written statement describing the malfunction must accompany the returned device or component to expedite finding the cause of the failure.

Pack the unit properly. Use sufficient packing material in addition to an antistatic bag as protection from electrostatic discharge.

Return all equipment transportation prepaid to the factory in Minneapolis.

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