

Optirat[®] Plus

rack & caging technical specifications

Optirat[®] Plus

The Optirat[®] Plus exhaust vented carousel rat caging system provides an extra-large cage to house rodents in the animal care industry. This system uses the unique carousel system pioneered by the Optimice[®] caging system, and is unsurpassed in its ability to house rats in the best possible environmental conditions. The convection-assisted, low-velocity, one-pass airflow through each cage provides animals with the gentle ventilation necessary to ensure maximum comfort in an ideal, low-stress living and breeding environment. Because the racks use no motors or blowers, they keep animal rooms free of noise, vibration, and odor.

Optirat[®] Plus CP86100M/P/S Rack & Cage Specifications

30-cage rat rack assembly, available in polycarbonate (M suffix), amber polysulfone (P suffix), or smoke polysulfone (S suffix)

- Includes complete stainless steel rack assembly with reinforced polymer carousel, cage assemblies, casters, and 2 vent hose assemblies
- Includes 30 complete cage assemblies with filters, feeders, cage cards, and water bottles (if so configured)
- Complete rack dimensions with cages – 41 in. (1042 mm) L x 41 in. (1042 mm) W x 78 in. (1981 mm) H
- Rack-only dimensions – 39.7 in. (1009 mm) L x 33.7 in. (856 mm) W x 79.5 in. (2020 mm) H
- Two 3-inch diameter (76 mm) vent hoses mount near top center of rack with quick-disconnect fittings
- Weight: 505 lbs (229 kg) complete and ready for installation (520 lbs-236 kg w/autowater)
- Rack assembly is mounted on stainless steel swivel casters with 4-inch (102 mm) diameter high-temperature ball bearing wheels; two casters come with locks
- Airflow requirements – 82 CFM (39 liters/sec) recommended, 55 CFM (26 liters/sec) minimum per rack
- Static pressure guidelines – 0.12-0.16 in W.G. (30-40 Pa) at rack; 0.18-0.24 in W.G. (45-60 Pa) at exhaust drop
- Full-height handles at each corner
- High-flow, flat Reemay filter assemblies assure uniform cage ventilation

Except where noted, rack and cage specifications above are also valid for CP86101M/P/S, CP86200M/P/S, CP86202M/P/S, and CP86205M/P/S

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Cage Specific Information

Optirat® Plus Cage Assembly

Outside dims: 15.3 in. (389 mm) L x 22.4 in. (569 mm) W x 10.3 in. (262 mm) H

Floor area: 183 in² (1181 cm²); 244 in² (1574 cm²) with mezzanine

Interior Total Height: 10.0 in. (254 mm)

Interior Heights w/ Mezzanine: 6.4 in. (162 mm) below; 3.5 in. (89 mm) above; 2.8 in. (70 mm) under exhaust filter

Mezzanine Envelope: 15.3 in. (387 mm) W x 6.6 in. (168 mm) D; 61 in² (394 cm²) effective area

Capacity, Standard: 2 rats, 500 g or heavier; 3 rats, 400-500 g; 4 rats, 300-400 g; 6 rats, 300-200 g; 8 rats, 100-200 g

Capacity w/ Mezzanine: 3 rats, 500 g or heavier; 4 rats, 400-500 g; 6 rats, 300-400 g; 8 rats, 300-200 g; 10 rats, 100-200 g

Cage Material: Polycarbonate or polysulfone (amber or smoke color)

Feeder: Polished stainless steel, 37 oz (1.09 liters) capacity

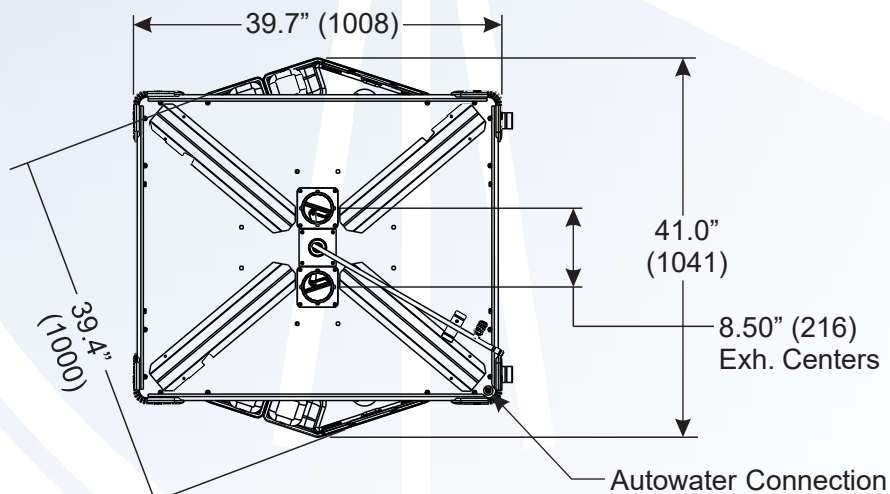
Water Bottle: 2 each 500 mL (16.9 oz)

The following options are available for the Optirat® Plus caging system

- External water bag holder (replaces bottle/s)
- External water bag valve, stainless steel and autoclavable
- Automatic watering: valve-on-cage or valve-on-rack (fixed or removable)
- J-feeder and bottle cap options for guinea pigs
- M2000 amber polysulfone cage assemblies
- M2300 clear polysulfone cage assemblies

The Optirat® Plus System offers a closed, barrier isolation caging system providing unparalleled ease-of-use while maximizing population density and improving the welfare of both animals and caretakers.

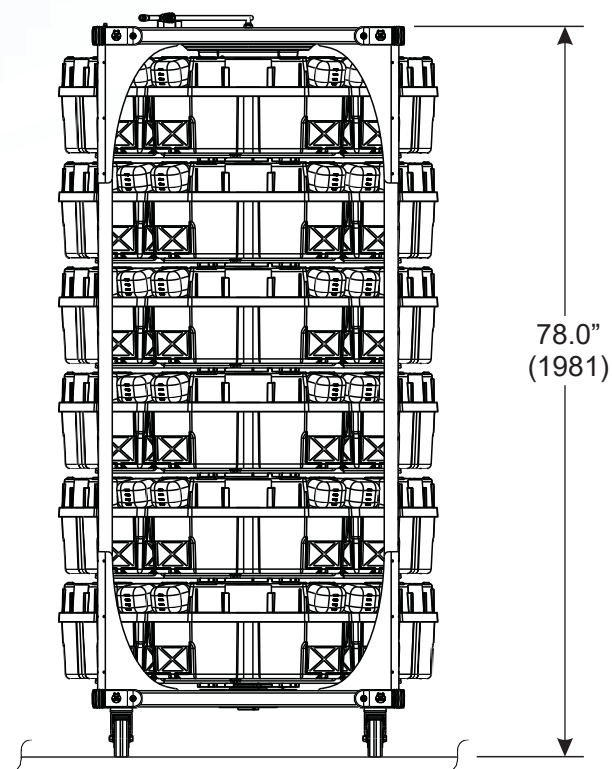
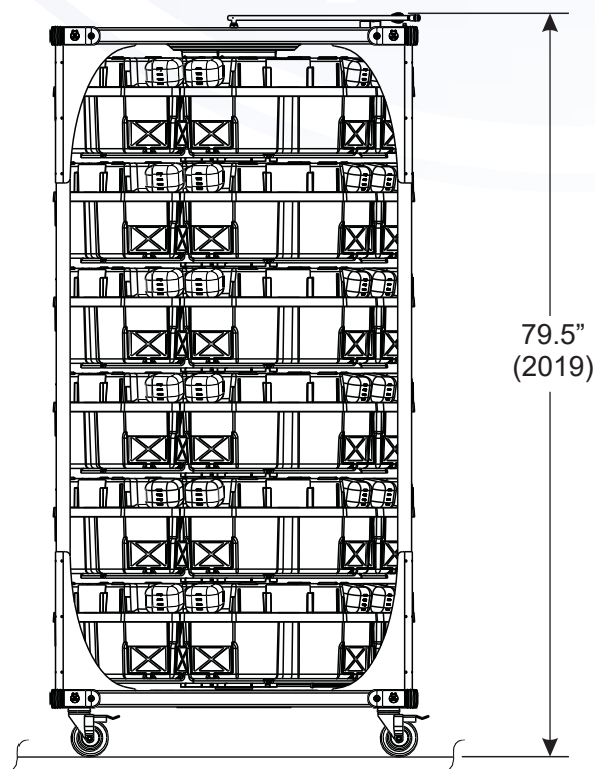
Except where noted, rack and cage specifications above are also valid for CP86101M/P/S, CP86200M/P/S, CP86202M/P/S, and CP86205M/P/S



Applicable to the following racks:

CP86100M/P/S, CP86101M/P/S, CP86200M/P/S
CP86202M/P/S, and CP86205M/P/S

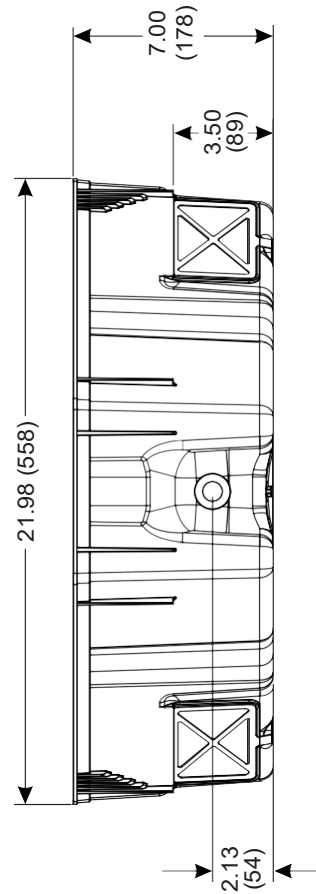
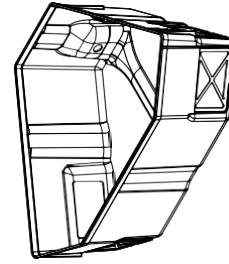
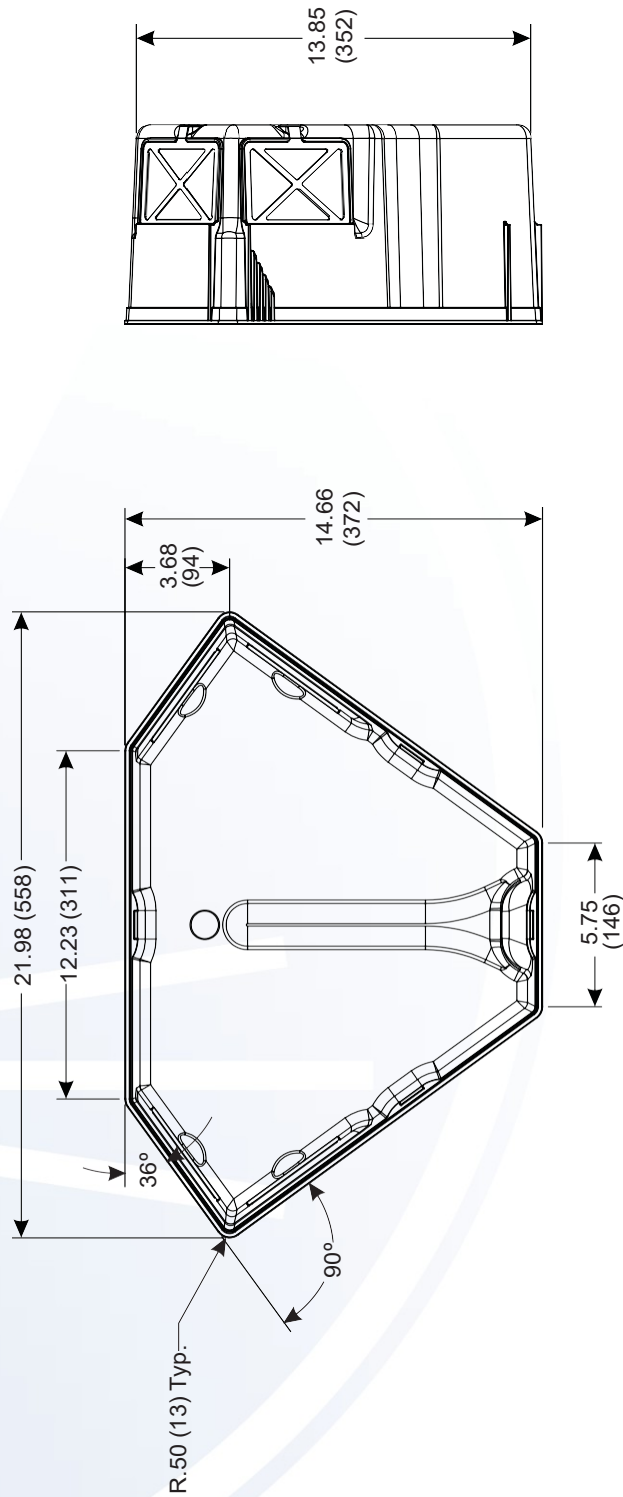
Weight - 505 lbs (229 kg) with cages
Weight w/Autewater - 520 lbs (236 kg)
Auto-water connection - Type M stainless steel QD
Min. Ventilation - 55 CFM (26 L/sec)
Recommended Ventilation - 82 CFM (38.7 L/sec)
Minimum Ceiling Exh. - 4 in. (100 mm) diameter ducting
Exhaust Hoses - 3 in. (75 mm) dia. flexible x 72 in. (1830 mm) lg.



Optirat[®] Plus
technical drawings

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