



Site Preparation Guide for Unitrends MSP Recovery Max Appliances

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Site Preparation Guide for Unitrends MSP
Recovery Max Appliances
User Guide | May 2019

UNITRENDS **MSP**



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Unitrends, Inc
200 Wheeler Road
North Tower, 2nd Floor
Burlington, MA 01803, USA
Phone: 1.866.359.5411

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Introduction

This document describes the preparations that should be considered before installing a Unitrends MSP Recovery MAX appliance. Proper preparation of the site will help ensure consistent and stable operation of the Unitrends MSP Recovery MAX solution.

Consider these site preparation requirements before installation:

- "Space and Clearance Requirements"
- "Load Bearing (Weight) Requirements" on page 5
- "Power Requirements" on page 5
- "Cooling and Environmental Conditions" on page 6
- "Configuration Requirements" on page 6

Space and Clearance Requirements

The following space requirements should be considered before installing the Unitrends MSP hardware:

- The appliance rack-mounted chassis fits into a standard 19" rack or cabinet and is up to 36.4" deep. Rack-mounted chassis are 1-unit (1U) in height, and come with universal rails if required for racking. Attach the rails to accommodate the specific rack or cabinet used with the appliance.
- Unitrends MSP recommends the use of cable guides to organize the power, network, and other cables.
- Each appliance requires proper airflow to cool the system's components. At least 5" of space should be maintained behind the rack at all times to ensure adequate ventilation.
- The rack or cabinet should be positioned so that there is adequate space in front of and behind the rack/cabinet to allow the front and rear doors (if applicable) to open. Allow 25" clearance for front doors and 30" for rear doors.

Model	Chassis Type	Chassis Number	Standard Rail Set	Min to Max Depth of Rail Set Extension
Recovery-MAX2	1U*	Supermicro CSE-505-203B	N/A	N/A
Recovery-MAX4	1U*	Supermicro CSE-505-203B	N/A	N/A
Recovery-MAX8	1U*	Supermicro CSE-505-203B	N/A	N/A
*Short rack **Full rack				



Load Bearing (Weight) Requirements

To prevent tipping, make certain that the rack is secure before installing the chassis. Unitrends MSP strongly recommends the use of two people when placing the rack-mounted chassis into the rack or cabinet.

The following table provides load bearing requirements for each appliance:

Note: If the appliance protrudes the rack about 1/2" to 1", the front rail may need adjusting. The front rail must be properly aligned (fourth hole from the front) to ensure a secure fit.

Model	Format	Weight	Shipping Weight
Recovery-MAX2	9.8" x 17.2" x 1.7"	12lbs	14lbs
Recovery-MAX4	9.8" x 17.2" x 1.7"	12lbs	14lbs
Recovery-MAX8	9.8" x 17.2" x 1.7"	12lbs	14lbs

Power Requirements

The specifications listed in this section assume that appliances are fully configured. There should be sufficient power capacity to service each appliance.

The proper power protection must be provided for each on-site appliance. Uninterruptible power supplies (UPS) must be adequately sized to support the appliance. Additionally, UPS must supply enough current to the appliance while it is charging.

The following table provides power requirements for each appliance:

Model	Power Supply	Input Voltage Range	Input Freq Range	Max Input Current	Max Wattage	BTUs/hr
Recovery-MAX2	200W	100 - 240VAC	50 - 60HZ	2.6A	200W	682
Recovery-MAX4	200W	100 - 240VAC	50 - 60HZ	2.6A	200W	682
Recovery-MAX8	200W	100 - 240VAC	50 - 60HZ	2.6A	200W	682

Cooling and Environmental Conditions

Unitrends MSP Recovery MAX appliances have been designed to operate within the environmental conditions listed below. Conditions that exceed recommended temperatures may result in severe damage caused by heat buildup. Proper air circulation will help prevent hot spots and ensure optimal performance. Unitrends MSP recommends the use of a temperature alarm system for appliances that operate in an unattended environment.

Note: Installing the appliance in direct sunlight may cause it to overheat.

The Unitrends MSP environmental specifications for rack-mounted appliances include:

Chassis Specs for Rack-mounted Models	Description
Non-operating environment	<ul style="list-style-type: none"> -40° C to 70° C (-40° F to 158° F) 5% to 95% non-condensing humidity Maximum humidity gradient 10% per hour
Operating environment	<ul style="list-style-type: none"> 10° C to 35° C (50° F to 95° F) 8% to 90% non-condensing humidity Maximum humidity gradient 10% per hour
Cooling clearance	12" clearance recommended for ventilation
Storage altitude	-16m to 10,600m (-50 ft to 35,000 ft)
Operating altitude	-16m to 3,048m (-50 ft to 10,000 ft)

Configuration Requirements

- **IT Personnel Considerations:** An administrator with network and client system access is expected to be available to assist with the implementation. This person will be responsible for installing and configuring agent software and will help with the planning and implementation of the overall Unitrends MSP data protection solution. Additionally, someone responsible for administering and managing the appliances should be available during the installation process.
- **Network Considerations:** Ethernet network configurations must be capable of supporting the added demands of a Unitrends MSP Recovery MAX appliance. Ethernet switch ports must be available prior to installation.
- **On-premise to Off-premise Connections:** If hot backup copy will be implemented, adequate bandwidth for transferring data between the on-premise system and the off-premise system is critical. Generally, a T1 line can transfer between 400MB to 500MB of data per hour without secure shell compression. OpenVPN is recommended

for connection between the two systems. Additionally, firewall access (if applicable) must be granted in order to allow the two appliances to communicate on designated ports.

Configuring the System

Configure the system as described in the [Quick Start Guide for Unitrends MSP Recovery Max appliances](#).



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