

CVap®
CHV/RTV

class series 5 & 7



series 5 & 7 cook & hold/retherm oven with CVap® technology

OWNER'S MANUAL

CHV5

CHV5-04HP CHV5-14SP
CHV5-04UV CHV5-14UV
CHV5-05UV

CHV7

CHV7-04HP CHV7-05UV
CHV7-04UV CHV7-14SP
CHV7-05SP CHV7-14UV

RTV5

RTV5-04HP RTV5-14SP
RTV5-04UV RTV5-14UV
RTV5-05UV

RTV7

RTV7-04HP RTV7-05UV
RTV7-04UV RTV7-14SP
RTV7-05SP RTV7-14UV



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SERIAL #:



Warnings

MISUSE AND OTHER

! WARNING:

Contamination Hazard

Can cause serious illness or damage to equipment >> Clean equipment daily to avoid potential contamination hazard.

Ensure safe operation by cleaning equipment daily. Failure to do so can allow harmful deposits to develop, increasing the potential for food contamination and endangering your customers.

! DANGER: Electrical Hazard and Burn Hazard

Can cause serious injury or death >> Do not attempt to service this equipment unless you are a licensed electrician or trained servicer.

This equipment uses high voltage electrical systems, high temperature heating systems, and hot water vapor. If used improperly, any of these hazards are capable of causing serious injury or death. To avoid the potential for an accident, please have equipment serviced only by trained servicers. Please make this page available to the servicer.

! CAUTION: High Temperature and Grease Hazard

Can cause damage to equipment >> Avoid placing equipment near high heat or in grease-laden atmosphere.

! WARNING: Safety Hazard,

Intended Use

Can cause serious illness or damage to equipment >> Supervise untrained, young, or handicapped persons.

1. This equipment is not intended for use by persons (including children) with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the equipment by a person responsible for their safety.
2. Children should be supervised to ensure that they do not play with the equipment.
3. This equipment is intended to be used for commercial applications, for example in kitchens of restaurants, canteens, hospitals and in commercial enterprises such as bakeries, butcheries, etc., but not for continuous mass production of food.

! CAUTION: High Temperature Hazard

Can cause damage to equipment >> Fill evaporator with water prior to turning power on, and do not allow evaporator to run dry.

MAKE CERTAIN EVAPORATOR HAS AN ADEQUATE SUPPLY OF WATER PRIOR TO TURNING ON POWER SWITCH. WATER LEVEL SHOULD BE APPROXIMATELY AT FILL LINE.

KEEP DOOR(S) CLOSED WHEN NOT IN USE. If food temperature becomes too low during serving period, increase VAPOR TEMP setting by 10-20°F (11-17°C) to maintain desired food temperature.

! WARNING: Burn Hazard

To avoid scalding, do not use loaded containers with liquids or cooking goods which becomes fluid by heating in higher levels than those which can be easily observed.

! WARNING: Burn Hazard

When opening the door of the cooking compartment hot steam can come out.

! DANGER: Electrical Hazard

If supply cord is damaged, it must be replaced by the manufacturer, its service agent, or similarly qualified persons in order to avoid a hazard.

Warranty & Terms and Conditions of Sale

Limited one-year warranty (excluding gaskets, lamps, hoses, power cords, glass panels, fryer baskets, batteries, and evaporators). Warranty disclaimer for failure to clean.

WINSTON EXPRESSLY DISCLAIMS ALL OTHER WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE AND ANY IMPLIED WARRANTY OF MERCHANTABILITY.

For complete details on warranty and terms & conditions of sale, go to: [https:// bit.ly/2Qzwi6G](https://bit.ly/2Qzwi6G)
Both the Warranty and Terms and Conditions of Sale are integral to this document.



Requirements

GENERAL INSTALLATION

Install equipment on a solid, flat, level surface in a location where ambient temperatures will not exceed 100°F and away from grease laden vapors from other equipment. For proper ventilation of the equipment, allow 2-inch clearance on all sides, particularly around any ventilation holes. Plug the equipment into a properly grounded outlet of the correct voltage and phasing as indicated by the equipment ID labels. *Please read the installation instructions that follow.*

water

If manually filling equipment with water, fill evaporator pan with approximately 2.5 gallons of water, unless it is a 04-HP unit. 04-HP units require 1.25 gallons of water. As water evaporates, minerals in the water will deposit on the surface of the evaporator. These mineral deposits will inhibit the transfer of heat. Deposits can also degrade and damage stainless steel. To avoid mineral deposits clean the equipment daily. It is advisable to contact your water utility for advice on minimizing deposit buildup.

CAUTION:

High Temperature Hazard

Can cause damage to equipment >>
If utilizing vapor heat, fill evaporator with water prior to turning power on and do not allow evaporator to run dry.

For locations with hard water, add one tablespoon (15 ml) of white vinegar or lemon juice to water to help minimize scale buildup. Please consider contacting your local water authority to obtain advice on possible water treatments to protect the equipment. Some water supplies are high enough in chemical content to be capable of damaging stainless steel (if used untreated). The evaporation process can concentrate the chemicals in the water to a level which could cause a damaging reaction with the stainless steel.

ventilation

Ventilation Clearances: To operate properly, the equipment will need sufficient space for air circulation. Allow at least 2" (51 mm) clearance on all sides, particularly around ventilation holes. Care should be taken to prevent placing the equipment close to anything combustible. It must be installed with its supplied casters or legs. Equipment may be stacked upon each other using only a Winston supplied stacking kit and following the instructions enclosed with the kit. Your warranty may be void if you do not adhere to these ventilation requirements.

CAUTION:

High Temperature & Grease Hazard

Can cause damage to equipment >>
Avoid placing equipment near high heat or in grease-laden atmosphere.

Do not place equipment in an area where ambient temperature (air temperature around the equipment) exceeds 100° F (38° C). A heat shield may be required to prevent excessive heat exposure and grease-laden vapors from affecting the equipment if adjacent to heat, vapor, or grease generating devices (such as grills, steamers, ovens, etc.). Excess heat and grease inside the equipment cavities may cause electrical components to fail.

Vent Hood: Generally this equipment does not need to be installed under a mechanical ventilation system (vent hood). Check local health and fire codes for requirements specific to your location.

auto water fill

Automatic water fill is available as an optional feature. Auto water fill systems must be hooked up to a potable water supply line. The maximum incoming water temperature may not exceed 140° F (60° C) and the incoming water pressure must be between 20 and 150 psi (137.9 kPa to 1034 kPa). Equipment with auto water fill systems MUST NOT BE ALLOWED TO RUN DRY. Heat damage to the water valve may result.

It is the responsibility of the owner and installer to ensure that installation complies with all local and state plumbing codes.

shelving

The load limit per rack is 65 lbs (29.25kg).

Contact Information

Internet: <https://foodservice.winstonind.com/>

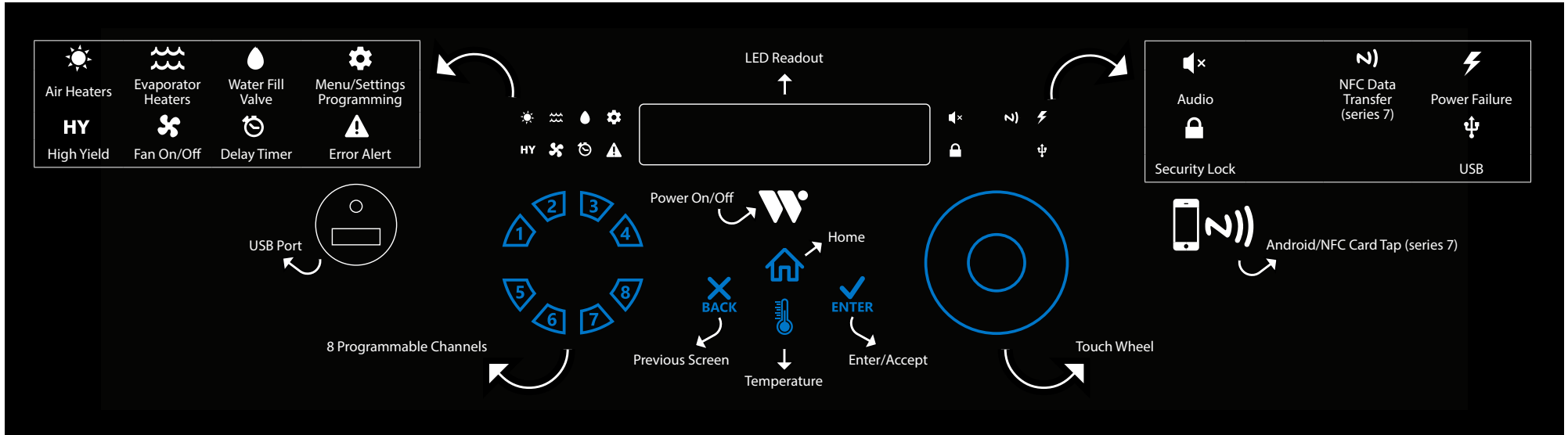
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New Winston CVap: Control Programming

START-UP BASICS

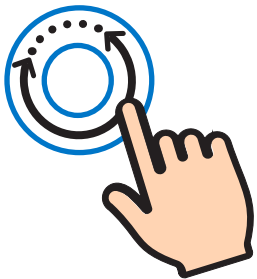
H₂O Does your unit have WATER filled to the fill line?



Push the flashing Winston "W" to turn unit On.

Push the Winston "W" logo at any time to turn the unit Off. It will flash while in Off mode.

THE TOUCH WHEEL DIAL



Place your finger on the dial area and move it around the circle clockwise or counterclockwise to choose between all of your options.

When you select the option to use, always press ENTER to continue.

QUICK USE

Cook & Holds (CHV), Holding Cabinets (HOV) or Retherm Ovens (RTV)

1. After the unit is filled with water, turn it On.
2. Select the preset channel you want. Unit will read PREHEAT.
3. When unit reads HEATED, put food into oven and press ENTER.
4. When you are done, tap the channel again to exit.

Helpful Tips - Selecting Channel

1. If the incorrect channel was selected prior to starting a cycle, the channel may be changed by tapping the illuminated channel number and selecting an alternate channel.
2. If you desire to stop the cycle during a Cook & Hold, you may either press the illuminated channel or the back key to exit channel, then press ENTER.



Main Menu

- **View Channel** - Select this to see what my settings are on any channel.
- **Program Channel** - Select this to program each channel.
- **Delay Start** - Prepare ahead by allowing a desired channel to turn on automatically. It can be set for up to a 99-hour delay.
- **Settings** - Allows you to make special adjustments to the unit.
 - o Security - Using the code **2345** locks or unlocks a unit, allowing general daily operation only.
 - o Volume - Adjust the volume of the speakers.
 - o Display - Adjust the display temperature readout to show air temperature or evaporator.
 - o Temperature Scale - Adjust between Fahrenheit or Celsius.
 - o Time and Date - Set up a calendar in the unit to allow for accuracy with HACCP downloads.
 - o Fill System - Adjust setting for Water Level Sensor (disabled, probe, or float) and Water Valve (disabled or enabled).
 - o Tuning - Calibrates vapor temperature for the size and model of the unit, for maximum precision.
 - o Clear HACCP - Clears stored HACCP records.
- **USB** - Pull HACCP temperature data, upload settings, or perform software updates.
- **About** - Informs the user of software versions during troubleshooting needs.
- **Reboot** - Allows unit to be rebooted.

Preprogrammed Channels

COOK & HOLD

Channel 1: 135 CVap® Staging™ (Sous Vide Style) **Timer/1:30/135/SV/ConvOn/InfHold/135/SV/ConvOn**

Channel 2: 145 CVap® Staging™ (Sous Vide Style) **Timer/1:30/145/SV/ConvOn/InfHold/145/SV/ConvOn**

Channel 3: 165 CVap® Staging™ (Sous Vide Style) **Timer/1:30/165/165/ConvOn/InfHold/165/165/ConvOn**

Channel 4: Braising (Same-day Ribs, Overnight BBQ, etc.) **Timer/ 4:00/Inf/200/240/HYOff/ConvOn/Inf/150/152/ConvOn**

Channel 5: Gentle Steam (Infinite Time- Steamed Veg, custards, etc.) **Timer/Inf/200/200/ConvOn**

Channel 6: Beef Roasting (Prime Rib) **Timer/6:00/130/180/HYOn/ConvOn/Inf/130/131/ConvOn**

Channel 7: Max Cook (Infinite Time- Max Steam and Air) **Timer/Inf/200/350/ConvOn**

Channel 8: All Purpose Hold **Timer/Inf/150/175/ConvOn**

REITHERM

Channel 1: Moist Bake (Prepackaged Breakfast, Pizza, Cookies, etc.) **Timer/:30/200/300/HYOff/ConvOn/Inf/150/152/ConvOn**

Channel 2: Bake (Breaded Products, Cakes, etc.) **Timer/:40/150/350/HYOff/ConvOn/Inf/140/170/ConvOn**

Chef Tip- Add 10 minutes if unit has >6 shelves

Channel 3: Retherm (Pre-cooked, Casseroles, Baked Potatoes, etc.) **Timer/1:00/200/350/HYOff/ConvOn/0:05/200/350/ConvOn**

Chef Tip- Add 10-20 minutes if unit has >6 shelves

Channel 4: Crispy Bake (Tots, Breaded Products, etc.) **Timer/:30/130/350/HYOff/ConvOn/0:05/130/180/ConvOn**

Chef Tip- Add 15-20 minutes if unit has >6 shelves

Channel 5: Gentle Steam (Infinite Time- Steamed Veg, custards, etc.) **Timer/Inf/200/200/ConvOn**

Channel 6: Beef Roasting (Prime Rib) **Timer/5:00/130/160/HYOn/ConvOn/Inf/130/131/ConvOn**

Channel 7: Max Cook (Infinite Time- Max Steam and Air) **Timer/Inf/200/350/ConvOn**

Channel 8: All Purpose Hold **Timer/Inf/150/170/ConvOn**

*Note- Timing adjustments may be needed based on product, load size, or model sizes.

Program Channels

USING CONTROL

1. Move your finger on the dial and select **Program Channel**...then press ENTER.
2. When unit reads **Select Channel**, pick which number you want to save to (1-8).
3. After channel is selected, use dial to **Select Process**. Your options are **Cook & Hold** or **Holding only**, then press ENTER.
4. If process is selected as Cook & Hold, use dial to select **Cook Type**. Your options are **Timer** or **Probe** (7 Series Models *only*), then press ENTER. Timer will cook for a given time and Probe will cook to a desired food probe temperature.
5. For Time cooking, use dial to adjust time (**XX:YY**- XX is Hours and YY is minutes), then press ENTER.
6. For Probe cooking (7 Series Models *only*), use dial select your desired **Probe Temperature**, then press ENTER.
7. Use dial to adjust **Cooking Vapor Temperature**. Your options are **Off** or **90-200°F** (off or 32-93°C), then press ENTER.
8. Use dial to adjust **Cooking Air Temperature**. Your options are **Off**, **Sous Vide***, or **up to 350°F** (177°C), then press ENTER. *Note: Sous Vide mode available if setting vapor temperature between 90-150° F and will have maximum accuracy for actual food temperatures (without the use of any air heat).
9. Use dial to adjust **Convection Cooking**. Your options are **On** or **Off**, then press ENTER. (**series 7 only**)
10. Use dial to adjust **High Yield**. Your options are **On** or **Off**, then press ENTER. High yield is only used on timer cooking and will reduce air temperature during the initial browning, to maximize yields.
11. Use dial to adjust alarm for **Holding Time**. Your options are **Infinite** (no alarm) or :01-99:00, then press ENTER. *If you do not wish to use an alarm, set to Infinite.*
12. Use dial to adjust **Holding Vapor Temperature**. Your options are **Off** or **90-200 °F** (off or 32-93 °C), then press ENTER.
13. Use dial to adjust **Holding Air Temperature**. Your options are **Off**, **Sous Vide***, or **up to 350°F** (177 °C), then press ENTER. *Note: In Sous Vide mode, this will have maximum accuracy for actual food temperatures (without the use of any extra air heat).
14. Use dial to adjust **Convection Holding**. Your options are **On** or **Off**, then press ENTER. (**series 7 only**)
15. Unit saves your settings and then goes back to **Home Screen**.

Updating Firmware

1. Power your cabinet on. The current firmware version will scroll across the screen when booting up.
2. Go to <https://foodservice.winstonind.com/firmware-updates/> to determine if the current version is installed.
3. Follow instructions to update your firmware, if needed.

Downloading HACCP Records

1. Insert USB stick
2. Use dial to navigate to "USB" heading and press ENTER key.
3. Under the "USB" heading, use the dial to choose, "DOWNLOAD HACCP RECORD" and press ENTER.
4. The display will read, "DOWNLOADING" and the USB indicator will flash.
5. Upon completion the control will return to the menu and the display will read, "DOWNLOAD HACCP RECORDS".
6. Remove USB stick.

Helpful Tips - Programming Channel Using Control

1. At any time after selecting enter, you can press the HOME button to end the programming. Anything selected by pressing ENTER will already be saved.
2. At any time during the programing, you may press BACK to go to the previous options.

Procedures

DAILY CLEANING

Required Cleaning Accessories & Supplies

- Pan for draining evaporator
- Food grade germicidal detergent
- Descaling agent

⚠ CAUTION: Corrosion Hazard
Can cause damage to equipment >>
Clean unit daily to avoid potential corrosion damage.

Clean evaporator daily to prevent chlorides (salts) from accumulating. Chlorides can cause the evaporator tank to corrode to the extent that leaks can occur. Leaks caused by corrosion, which is caused by a failure to clean daily, are not covered under the manufacturer's warranty.

⚠ CAUTION: Burn Hazard
Can cause serious injury >>
Allow equipment to cool for at least 30 minutes.

cleaning procedure

Ensure that any chemical used to clean equipment is free of sodium and other ingredients that could be corrosive to metal.

1. Disconnect power supply. Allow equipment to cool.
2. Place empty pan under drain valve, open valve and allow evaporator to drain.
3. Remove and clean rack supports using a food-grade germicidal agent. Rinse and allow to dry.
4. Remove evaporator cover and clean, then allow cover to dry.

5. Spray food chamber and evaporator with a food grade germicidal detergent.
6. Wipe inside surfaces to remove all food deposits.
7. Inspect for scale build-up on the tank surface and probe. If present, apply descaling agent like Citranox. Read ALL warnings and follow directions listed on descaling agent package.

⚠ DANGER: Electrical Hazard
Can cause serious personal injury or damage to the equipment >> Avoid spraying equipment exterior or controls with water.

8. Rinse all inside surfaces, including evaporator, and dry with clean towel. **Do not spray outside of equipment or controls with water.**
9. Replace rack supports.
10. Replace evaporator cover.
11. Close the drain valve.
12. Reconnect equipment to electrical power and make ready for use.

Component Identification



*Full-size cabinet shown.
Elements are common to
all cabinets.*

1. **Control Panel** - contains power button and control escutcheon. Allows operator to program food temperature and food texture. Escutcheon is removable for servicing or replacing microprocessor.
2. **Door Gasket** seals food chamber against heat or vapor loss.
3. **Door & Latch** can be reversed on site.
4. **Adjustable Rails** - located on both sides inside equipment, holds trays, pans, shelves, and racks.
5. **Food Chamber** - holding cavity where the dual heat system combines to create the perfect cooking & holding environment.
6. **Evaporator and Heaters** (not visible) - supply vapor atmosphere to the food chamber by heating water within the evaporator.
7. **Trough** collects moisture that condenses on door.
8. **Drain Valve** allows for draining water from evaporator.
9. **Cord Wrap** (behind unit if applicable) provides storage for power cord.
10. **Name Plate** identifies model number, serial number (important for servicing and ordering parts), voltage, power, and electrical information. Electrical Requirements Label identifies that equipment is for use with an individual branch circuit only.
11. **Air Heaters** (not visible) - supply heat for precise food texture control.
12. **Casters** provide easy movement when front casters are in unlocked position.

MODEL #	CAPACITY*			EXTERIOR DIMENSIONS**			ELECTRICAL					SHIP WEIGHT LBS(KG)	
	SHEET PAN (18" x 26")	HALF SHEET PAN (18" x 13")	HOTEL PAN (12" x 20" x 2.5")	HEIGHT IN.(MM)	DEPTH IN.(MM)	WIDTH IN.(MM)	VOLTS	PHASE	WATTS	AMPS	NEMA***		INT'L
CHV5-04HP CHV7-04HP	N/A	4	4	36.38(924)	26.45(672)	20(508)	208	1	2400	11.5	6-20P	Call Factory	160(73)
							240	1	2400	10	6-20P		
CHV5-04UV CHV7-04UV	4	8	8	35.70(907)	34.23(869)	27.70(704)	208	1	4803	23	6-30P	Call Factory	198(90)
							240	1	4803	20	6-30P		
CHV5-05UV CHV7-05UV	5	10	10	39.22(996)	34.23(869)	27.70(704)	208	1	4803	23	6-30P	Call Factory	250(113)
							208	3	4803	10.5	15-20P		
							240	1	4803	20	6-30P		
CHV5-05UV-ST CHV7-05UV-ST (Stacked Pair) ****	10(2 x 5)	20(2 x 10)	20(2 x 10)	76.8(1950)	34.23(869)	27.70(704)	208	1	4803	23	6-30P	Call Factory	500(226)
							208	3	4803	10.5	15-20P		
							240	1	4803	20	6-30P		
CHV5-14UV CHV7-14UV	14	28	28	73.02(1855)	34.23(869)	27.70(704)	208	1	7503	36.1	6-50P	Call Factory	420(190)
							208	3	7503	23.7	15-30P		
							240	1	7503	31.3	6-50P		

*Capacity- Determined by 3.5"(89mm) adjustable spacing, with a load limit of 65lb (29.25kg) per rack. | **Exterior Dimensions- Based on use of standard supplied 3" Heavy Duty plate casters. Subtract 2.37" (60mm) for 1" wheels, add 2.14"(54mm) for 5" casters, add 0.17(4mm) for 4" legs, and add 2.17"(55mm) for 6" legs. | ***NEMA- Supplied with 84" (2134mm) (minimum) power cord and plug. | **** Stacked units require two outlets. Wattage listed is per unit.

MODEL #	CAPACITY*			EXTERIOR DIMENSIONS**			ELECTRICAL					SHIP WEIGHT LBS(KG)	
	SHEET PAN (18" x 26")	HALF SHEET PAN (18" x 13")	HOTEL PAN (12" x 20" x 2.5")	HEIGHT IN.(MM)	DEPTH IN.(MM)	WIDTH IN.(MM)	VOLTS	PHASE	WATTS	AMPS	NEMA***		INT'L
RTV5-04UV RTV7-04UV	4	8	8	35.70(907)	34.23(869)	27.70(704)	208	1	7212	34.7	6-50P	Call Factory	198(90)
							208	3	7212	23.7	15-30P		
							240	1	7212	30	6-50P		
RTV5-05UV RTV7-05UV	5	10	10	39.22(996)	34.23(869)	27.70(704)	208	1	7212	34.7	6-50P	Call Factory	250(113)
							208	3	7212	23.7	15-30P		
							240	1	7212	30	6-50P		
RTV5-05UV-ST RTV7-05UV-ST (Stacked Pair) ****	10(2 x 5)	20(2 x 10)	20(2 x 10)	76.8(1950)	34.23(869)	27.70(704)	208	1	7212	34.7	6-50P	Call Factory	500(226)
							208	3	7212	23.7	15-30P		
							240	1	7212	30	6-50P		
RTV5-14UV RTV7-14UV	14	28	28	73.02(1855)	34.23(869)	27.70(704)	208	3	10815	33.7	15-50P	Call Factory	420(190)
							240	3	10815	27.2	15-50P		

*Capacity- Determined by 3.5"(89mm) adjustable spacing, with a load limit of 65lb (29.25kg) per rack. | **Exterior Dimensions- Based on use of standard supplied 3" Heavy Duty plate casters. Subtract 2.37" (60mm) for 1" wheels, add 2.14"(54mm) for 5" casters, add 0.17(4mm) for 4" legs, and add 2.17"(55mm) for 6" legs. | ***NEMA- Supplied with 84" (2134mm) (minimum) power cord and plug. | **** Stacked units require two outlets. Wattage listed is per unit.





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