

Ventura Melt: Tabletop Electric Melter

Product Manual



Ventura-Melt - 3 kg

120 volts, 12.27 Amps, 1350 Watts, 50/60 Hertz, Single Phase

240 Volts, 6.13 Amps, 1350 Watts, 50/60 Hertz, Single Phase

The Ventura-Melt Furnace was to be a safe and easy to use electrical method for melting gold, silver and other non-ferrous metals for casting and ingot pouring applications. It offers precise control of melting temperatures up to 2012T / ITC through its user friendly programmable controller with LED display. The insulated lid holds in heat and keeps oxygen out for a cleaner melt.

Unpack the shipping box and check to make sure your Ventura-Melt Furnace includes a crucible, power cord and instruction manual.

Inspect the unit and accessories in case any damage has occurred during shipping (contact Romanoff International immediately with any shipment issues). Make sure the inside of the heating chamber is free of any debris.

Please Note: We recommend that you keep the carton and packaging material to reuse in the event the furnace must be returned for repair or servicing.

If haven't done so already, choose an appropriate working site for the furnace. Make sure the top of your working surface is composed of metal, ceramic, slate or any other surface that will not support a fire in case of a molten metal spill.

Warning! Allow at least 16 inches of space between the furnace and any surrounding combustible surfaces or items. Heat emitted from the furnace requires at least this much open space to dissipate in order to avoid possible-fire hazard.

Warning! Do not use this furnace in the same area with flammable or combustible materials as the furnace may ignite these materials.

Notice: The furnace should be used only in a well ventilated area as some alloys release fumes that can create health risks. Follow all local federal regulations for proper ventilation procedures.

After setting up your furnace in a work area that meets the above safety criteria, check to be sure the front power switch is in the "OFF" position before plugging the furnace into a proper grounded 100-120 V outlet.

Warning! To avoid electrical shock, the furnace must always be used with a properly grounded outlet and with the correct voltage and electrical current handling capacity.

Notice: In the event you need to replace the electrical system's fuse, always use the correctly rated fuse. For the 3 kg model, use a 20-amp fuse; for the 1 kg model, use a 15-amp fuse.

Operational Safety

Your Ventura Melt Furnace is designed to provide safe and efficient operation. Due to the extremely high heat and molten metal involved in this process, a high degree of caution and care are critical to ensure its safe use.

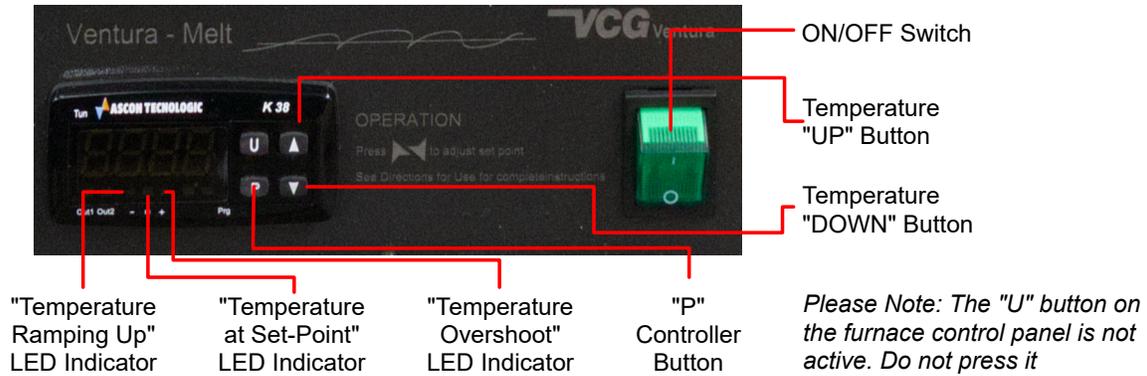
Please note the following precautions before you proceed with operation of this furnace.

Warning! Always use appropriate safety equipment, including safety glasses, appropriate heat resistant gloves, a fire proof apron and leather toed shoes (or equivalent) when using this furnace. Molten metal can cause serious injury if not handled properly and carefully.

Warning! Keep hands, hair and clothing away from the melting chamber while it is hot. Do not let moisture drip into the molten metal, a violent reaction may occur. Do not touch the furnace while it is in use or until a sufficient cooling time has passed (2-3 hours after unit has been turned off). The furnace generates high temperatures that can cause severe burns or a fire.

Notice: Inspect your crucible for cracks, wear and deterioration prior to every use. Due to high heat, some of the crucible material will naturally slough off over time and the walls and base will gradually become thinner. This may result in leaking which can cause element and thermocouple failure.

Notice: Do not set furnace temperature high enough to grossly exceed the melting point of the metal you are loading. This could cause boiling and vaporization of the metal resulting in damaging contamination and failure of the heating element.



Setting the Melt Temperature and Handling the Melt



1. Remove the crucible and clean the inside with a hard paper towel to remove any loose graphite or other debris. Close the lid and turn the furnace on. The letters "tEst" will appear on the LED display and the unit will perform a self-test. Once the test is complete. The current temperature of the heating chamber will appear.



2. Push the "P" button once to program the set-point temperature. The letters "SP 1" will appear. You can now adjust the set-point temperature to your desired temperature by using the "UP" and "DOWN" keys. Holding a key down for a few seconds allows you to change the temperature setting more rapidly. When the set-point temperature is correct, push the "P" button again to save it.



3. Once the temperature set-point is saved, the furnace will quickly begin to ramp up to that temperature and the red LED "ramping up" arrow displays. When the set-point temperature is achieved, the square green LED will come on. The red LED "overshoot" arrow will appear next, indicating the furnace has gone slightly beyond the set-point. The LEDs will alternate off and on as the furnace self-adjusts to the set-point. Please Note: It is normal for the temperature to fluctuate slightly above and below the set-point.

The ramp-up time for the 3kg moael to reach is wound 20 minutes. This is just an example - ramp-up time will vary depending on the temperature chosen and the furnace model used.



Using the tongs included with the furnace, grasp the crucible around the grooves in its upper sleeve (as shown). Carefully lower the crucible into the heating chamber and close the lid.

Warning! At this time, the heating chamber is extremely hot. Use caution and always wear heat-resistant gloves when performing any operation near the heating chamber.

The temperature shown on the display will ramp down slightly when you first add the crucible. It will return to your set-point temperature after a few minutes.

LIMITED WARRANTY

LIMITATION OF VENTURA LIABILITY

VCG Ventura SRL's technical advice, whether verbal or in writing, is designed to assist dentists, laboratories, and/or Jewelers (collectively, the *Users") in using VCG Ventura SRL's product. The user assumes all risk and liability for damages arising out of the improper use of VCG Ventura SRL's product. In the event of a defect in material or workmanship, VCG Ventura SRL's liability is limited, at VCG Ventura SRL's option, to replacement of the defective product or part thereof, or reimbursement of the actual cost of the defective product. In order to take advantage of this limited warranty, the defective product must be returned to VCG Ventura SRL. In no event shall VCG Ventura SRL be liable for any indirect, incidental, or consequential damages.

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