VWR™
INTERNATIONAL

GENERAL PURPOSE INCUBATORS

MODELS: 1526, 1536, 1546, 1556, 1566

INSTALLATION AND OPERATION MANUAL

4861657
08/11

These units are TUV CUE listed as general purpose air incubators for professional, industrial or educational use where the preparation or testing of materials is done at approximately atmospheric pressure and no flammable, volatile or combustible materials are being heated. These units are not intended for hazardous or household locations or use.

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Section 1

INTRODUCTION

Thank you for choosing a general purpose incubator. These units are not intended for use at hazardous or household locations.

Before you use the unit, read this entire manual carefully to understand how to install, operate, and maintain the unit in a safe manner. Your satisfaction with the unit will be maximized as you read about its safety and operational features.

Keep this manual for use by all operators of the unit. Ensure that all operators of the unit are given appropriate training before you put the unit in service.

Note: Use the unit only in the way described in this manual. Failure to follow the guidelines and instructions in this manual may be dangerous and illegal.

General Safety Considerations

Your incubator and its recommended accessories have been designed and tested to meet strict safety requirements.

For continued safe operation of your incubator, always follow basic safety precautions including:

- Read this entire manual before using the incubator.
- Be sure you follow any city, county, or other ordinances in your area regarding the use of this unit.
- Use only approved accessories. Do not modify system components. Any alterations or modifications to your incubator may be dangerous and will void your warranty.
- Always plug the unit's power cord into a grounded electrical outlet that conforms to national and local electrical codes. If the unit is not grounded, parts such as knobs and controls may conduct electricity and cause serious injury.
- Do not connect the unit to a power source of any other voltage or frequency beyond the range stated on the data plate at the rear of the unit.
- Do not modify the power cord provided with the unit. If the plug does not fit an outlet, have a proper outlet installed by a qualified electrician.
- Avoid damaging the power cord. Do not bend it excessively, step on it, place heavy objects on it. A damaged cord can easily become a shock or fire hazard. Never use a power cord after it has become damaged.

Section 2

RECEIVING YOUR UNIT

Before leaving our factory, all units are packaged in high quality shipping materials designed to provide protection from transportation related damage.

Once a unit leaves our factory, however, safe delivery becomes the responsibility of the carrier who is liable for loss or damage to your unit. Damage sustained during transit is not covered under your unit warranty.

When you receive your unit, inspect it for concealed loss or damage to its interior and exterior. Should you find any damage to the unit, follow the carrier's procedure for claiming damage or loss.

Inspection Guidelines

Carefully inspect the shipping carton for damage. If the carton is damaged, report the damage to the carrier service that delivered the unit. If the carton is not damaged, open the carton and remove its contents.

Verify that all of the following equipment, according to the type of unit, is included in the crate.

Table 1. Equipment

Unit	Shelf	Shelf Slide	Leveling Foot
1526 & 1536	2	4	4
1546	3	6	4
1556 & 1566	6	12	4

Carefully check all packaging before discarding. Save the shipping carton until you are sure everything is in order.

Returning Shipment

If you must return the unit for any reason, first contact your service representative for authorization. You will be asked to provide the data plate information. See Recording Data Plate Information below.

Recording Data Plate Information

Once you have determined the unit is free from damage, locate the data plate at the back of the unit. The data plate indicates your unit's model number and serial number. Record this information below for future reference.

Table 2. Data Plate Information

Model Number	
Serial Number	
Part Number	
Voltage	

Section 3

GRAPHIC SYMBOLS

Your incubator is provided with a display of graphic symbols on the control panel and adjacent to the power inlet. They are designed to help identify the use and function of the adjustable components.

Table 3. Symbols

Symbol	Identification
	Indicates that you should consult your operator's manual for further instructions. *Indique que l'opérateur doit consulter le manuel d'utilisation pour y trouver les instructions complémentaires.*
	Indicates "Temperature" *Repère "température"*
	Indicates "Overtemperature Protection" *Signale un "dépassement de température"*
	Indicates "AC Power" *Repère "secteur AC"*
I	Indicates the power is "ON" *Repère de la position "MARCHE" de l'interrupteur d'alimentation*
O	Indicates the power is "OFF" *Repère de la position "ARRÊT" de l'interrupteur d'alimentation*
	Indicates "Protective Earthground" *Repère de la "terre de protection"*
	Indicates "Up" and "Down" respectively *Touches de déplacements respectifs vers le "HAUT" et le "BAS"*
	Indicates "Manually Adjustable" *Signale un élément "réglable manuellement"*
	Indicates "Potential Shock Hazard" behind partition *Signale un "risque potentiel d'électrocution" au-delà de la cloison.*
	Indicates "Unit should be recycled" (Not disposed of in land-fill) *Indique "l'appareil doit être recyclé" (Ne pas jeter dans une décharge)*

Section 4

CONTROL PANEL OVERVIEW

Figure 1. Control Panel



Power Switch

The main power I/O (On/Off) switch controls all power to the unit. It must be in the I position before any systems are operational.

Main Temperature Control

This control is marked SET TEMPERATURE and consists of the digital display and Up/Down arrow pads for inputting set point temperature and calibration.

Overtemperature Thermostat

This control is marked SET OVERTEMPERATURE. It is equipped with a graduated dial marked from 1 to 10 and a knob that requires a flat-edged tool for adjusting settings to eliminate accidental changes. Completely independent of the Main Temperature Controller, the Overtemperature Thermostat guards against a Main Temperature Controller failure, which would allow the temperature to rise past the set point. If the temperature rises to the Overtemperature set point, this thermostat takes control of the heating element and allows continued use of the incubator until the problem can be resolved, or service can be arranged.

We do not recommend operating the unit for an extended period of time using only the Overtemperature because the temperature uniformity will be affected.

Heating Light

This green pilot light is marked HEATING ACTIVATED. The light is ON when the unit is heating up to the set point and blinks when controlling temperature at set point.

Overtemp Light

This red pilot light is marked OVERTEMP ACTIVATED. The light is ON when the Overtemperature Thermostat has been activated. Under normal operating conditions this light should never come on.

Fuse

Located within the power inlet, the fuse offers protection against power source variations. If the fuse is blown, the unit will shut down. The cause should be determined and corrected before replacing the fuse.

Section 5

INSTALLATION

This equipment must be used only for its intended application; any alterations or modifications will void your warranty. Local city, county, or other ordinances may govern the use of this equipment. If you have any questions about local requirements, please contact the appropriate local agency. The end user may perform installation.

Under normal circumstances this unit is intended for use indoors, at room temperatures between 5° and 30°C, at no greater than 80% Relative Humidity (at 25°C) and with a supply voltage that does not vary by more than 10%. Customer service should be contacted for operating conditions outside these limits.

Location

In selecting a location, consider all conditions that might affect performance, for example:

- Heating/cooling ducts
- Ovens
- Stoves
- Autoclaves
- Direct sun
- Fast moving air currents
- High-traffic areas

Allow a minimum of 10 cm between the unit and walls or partitions that might obstruct free airflow.

Lifting and Handling

These units are heavy and care should be taken to use appropriate lifting devices that are sufficiently rated for these loads. Follow the below guidelines when lifting and handling the unit.

- Units should be lifted only from their bottom surfaces.
- Doors, handles, and knobs are not adequate for lifting or stabilization.
- The unit should be completely restrained from tipping while lifting or transporting.
- All moving parts, such as shelves and trays, should be removed and doors must be positively locked in the closed position during transfer to prevent shifting and damage.

Leveling

The unit must sit level and be solid. Leveling feet are supplied and must be installed in the four holes in the bottom corners of the unit. Turn the leveling feet counterclockwise to raise level. Adjust the foot at each corner until the unit stands levelly and solidly without rocking.

Note: If the unit must be moved, turn the leveling feet all the way clockwise to prevent damage while moving.

Power Source

Check the data plate for voltage and ampere requirements before making a connection. If the requirements match your power source, plug the power cord into a grounded outlet. VOLTAGE SHOULD NOT VARY MORE THAN 10% FROM THE DATA PLATE RATING. These units are intended for a 50/60 Hz application. We recommend a separate circuit to prevent loss of product due to overloading or circuit failure.

Note: Electrical supply to the unit must conform to all national and local electrical codes.

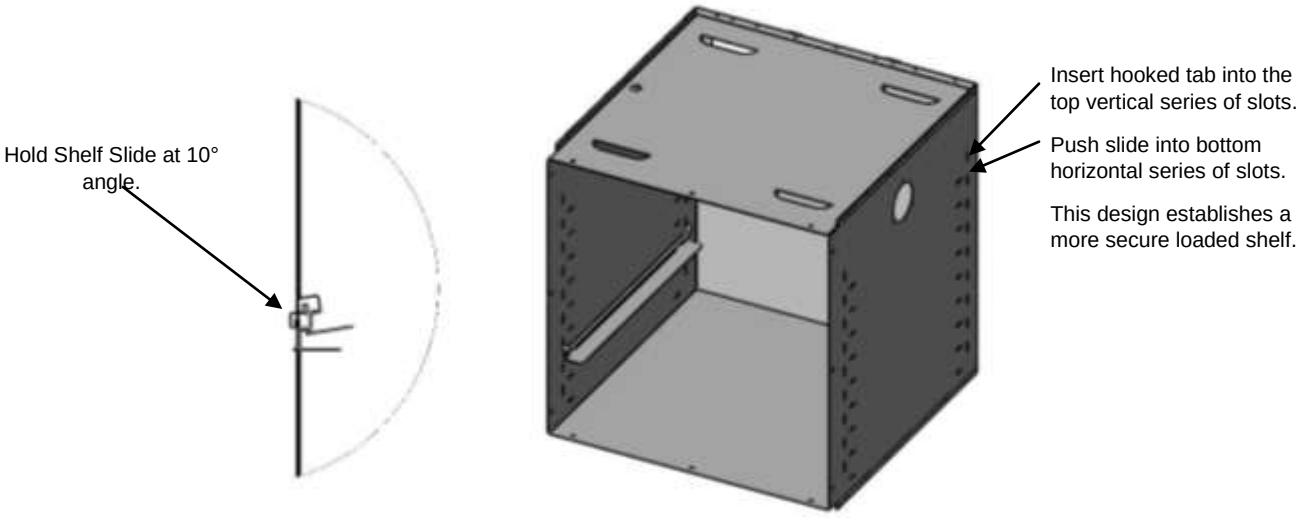
Cleaning

The incubator interior was cleaned at the factory but not sterilized. See the CLEANING section for more information.

Shelves

Place shelves in the chamber as desired. See Figure 2.

Figure 2. Shelf Installation



Section 6

OPERATION

Turning On the Unit

To turn on the unit, perform the following steps:

1. Check the power supply against unit data plate; they must match.
2. Plug the service cord into the grounded electrical outlet. Ensure that the fuse is installed in the power inlet of the unit.
3. Push the power switch to the ON position.
4. Turn the Overtemperature Thermostat to its maximum position, clockwise, so that the Main Temperature control can be set and calibrated without interruption from the Overtemperature setting.

Setting the Main Temperature Control

To set the main temperature controller, perform the following steps:

1. To enter set point mode on the controller, press either the UP or DOWN arrow pad one time.
2. The digital display will start to blink, going from bright to dim. While blinking, the digital display is showing the set point.
3. To change the set point, use the UP and DOWN arrow pads. If the arrow pads are not pressed in five (5) seconds, the display will stop blinking and will read the temperature of the unit.
4. Allow the incubator at least 24 hours to stabilize.

Calibrating the Main Temperature Control

We recommend that you calibrate your unit once it has been installed in its working environment and has been stable at the set point for 24 hours. To calibrate your unit, perform the following steps:

1. Place a certified reference thermometer in the chamber by placing it either directly inside or through the access tube at the top left of the unit. Ensure that the thermometer is not touching any shelving. If you place the thermometer directly inside the chamber, taping the thermometer to a Petri dish will raise it off the shelf and keep the scale in view.
2. Allow the temperature to stabilize again until the thermometer reads a constant value for one hour.
3. Compare the digital display with the reference thermometer.
4. If there is an unacceptable difference, put the display into calibration mode by pressing both the Up and Down arrow pads at the same time for approximately five (5) seconds until the decimal display blinks off and on.
5. While blinking, the display can be calibrated by pressing the Up or Down arrow pads until the display reads the correct value.
6. Allow the incubator temperature to stabilize again, and recalibrate if necessary.

Setting the Overtemperature Thermostat

To set the Overtemperature Thermostat, perform the following:

1. The Overtemperature Thermostat should be initially set to its maximum position to allow the Main Temperature Controller to stabilize.
2. Once the incubator is stable at the desired set point, turn the Overtemperature Thermostat counterclockwise until the OVERTEMP ACTIVATED light turns on.
3. Next, turn the Overtemperature Thermostat clockwise just until the light turns off.
4. Then turn the Thermostat clockwise again, two minor increments on the dial past the point where the light went out. This will set the Overtemperature Thermostat at approximately 1°C above Main Temperature set point.
5. To verify the Overtemperature set point, simply set the temperature set point to 2°C higher than the steady state temperature. Then monitor the temperature has it rising and note the temperature the OVERTEMP ACTIVATED light turns on. This will be the actual set point of the Overtemperature control. If the Overtemperature feature is being used, it is should be tested annually.

Interior Accessory Outlet

An outlet inside the chamber may be used with the equipment, not exceeding 1 amp.

Section 7

MAINTENANCE

Warning: *Prior to any maintenance or service on this unit, disconnect the power cord from the power supply. Before reattaching the unit to its power supply, be sure all volatile and flammable cleaners are evaporated and dry.*

Cleaning

Note: The unit chamber should be cleaned and disinfected prior to use.

Periodic cleaning is required. To clean the incubator, perform the following steps:

1. Remove all of the interior parts, if assembled.
2. Clean the incubator with a mild soap and water solution, including all corners. DO NOT USE spray cleaners that might leak through openings and cracks and get on electrical components, or that may contain solvents that will harm coatings. DO NOT USE chlorine-based bleaches or abrasives, as they will damage the stainless steel interior.
3. Rinse with distilled water and wipe dry with a soft cloth.
4. Special care should be taken when cleaning around the sensing heads to prevent damage.

Disinfecting

Disinfect the incubator on a regular basis. To disinfect the incubator, perform the following steps.

1. Remove all of the interior parts, if assembled.
2. Disinfect the incubator, including all corners and the access port, using a suitable disinfectant. Shelves and shelf clips are autoclaveable. DO NOT USE spray disinfectants that might leak through openings and cracks and get on electrical components, or that may contain solvents, corrosives, or abrasives that will harm the stainless steelcoatings. Special care should be taken when cleaning around sensing heads to prevent damage and around the door gasket so as not to impair the positive seal.
3. If a hazardous material/substance has been spoiled in the unit, immediately initiate your site's Hazardous Material Spill Containment protocol. Contact your local Site Safety Officer and follow instructions per the policy and procedures established for your site.
4. There are many commercially available disinfectants available that are non-corrosive and non-abrasive and suitable for use on stainless steel surfaces. Contact your local Site Safety Officer for detailed information for the proper disinfectants suitable for your operation.

Warning: Never clean the unit with alcohol or flammable cleaners and assure all volatile or flammable cleaners are evaporated and dry before reattaching the unit to the power supply.

Periodically inspect the door latch, trim, catch and gasket for signs of deterioration. Failure to maintain the integrity of the door system will shorten the life span of the incubator.

No maintenance is required on electrical components. If the incubator fails to operate as specified, please review the TROUBLESHOOTING section prior to calling for service.

Section 8

TROUBLESHOOTING

Should the unit malfunction, use this section to determine the problem and resolution. Troubleshooting topics include:

- Temperature
- Mechanical
- Other

Warning: Troubleshooting procedures involve working with high voltages that can cause injury or death. Troubleshooting should be performed only by trained personnel.

Table 4. Temperature Troubleshooting

Problem	Possible Cause	Solution
Temperature too high; display and reference thermometer do not match	Controller set too high	See Setting the Main Temperature Control.
	Controller failed on	Call customer service.
	Wiring error	Call customer service.
Display reads “HI” or “400”+	Probe is unplugged	Trace wire from display to probe; move wire and watch display to see intermittent problems.
	Probe is broken	Replace probe.
	Wire to sensor is broken	Replace probe.
Chamber temperature spikes over set point and then settles to set point	N/A	Recalibrate. See Calibrating the Main Temperature Control.
Temperature too low; display and reference thermometer do not match	Overtemperature set too low	Turn thermostat fully clockwise
	Controller set too low	See Setting the Main Temperature Control.
	Unit not recovered from door opening	Wait for display to stop changing
	Unit not recovered from power failure or being turned off	Incubators will need 24 hours to warm up and stabilize.
	Element failure	See if HEATING light is on; compare current draw to data plate.
	Controller failure	Confirm with front panel lights that controller is calling for heat.
	Thermostat failure	Confirm with front panel lights that Overtemperature is operating correctly.
	Wiring problem	Check all functions and compare wiring to the owner’s manual, especially around any areas

Problem	Possible Cause	Solution
		recently worked on.
	Loose connection	Call customer service.
Display reads "LO"	Ambient temperature is lower than range of unit	Compare set points and ambient temperature to rated specifications in UNIT SPECIFICATIONS.
	Sensor is plugged in backwards	Call customer service.
Unit will not heat over a temperature that is below set point	N/A	Confirm that fan is moving and that amperage and voltage match data plate. Check fan motor motion by removing back body panel of the unit.
	N/A	Confirm that set point is set high enough. Turn Overtemperature all the way clockwise and see if HEATING light or OVERTEMP light comes on.
	N/A	Check connections to sensor.
	N/A	Check calibration. Using an independent thermometer, follow instructions in Calibrating the Main Temperature Control.
Unit will not heat up at all	N/A	Verify that controller is asking for heat by looking for HEATING light. If pilot light is not on continuously during initial start up, there is a problem with the controller.
	N/A	Check amperage. Amperage should be virtually at maximum rated (data plate) amperage.
	N/A	Do all controller functions work?
	N/A	Is the Overtemperature Thermostat set high enough? For diagnostics, should be fully clockwise with the Overtemperature light never on.
	N/A	Has the fuse or circuit breaker blown?
Indicated chamber temperature unstable	N/A	±0.1 may be normal.
	N/A	Is the fan working? Remove back panel and verify movement of cooling fan.
	N/A	Is ambient temperature radically changing? The door opening, room airflow from heaters, or air conditioning may be destabilizing temperature. Stabilize ambient conditions.
	Sensor miss-located or damaged, or wires may be damaged.	Check mounts for control and Thermostat sensors, then trace wires or tubing between sensors and controls.
	Calibration sensitivity	Call customer service.
	Overtemperature set too low	Ensure that the incubator setting is more than 5 degrees over desired set point. Check if pilot light is on continuously. Turn the controller knob completely clockwise to see if the problem is solved, then follow instructions in Setting the Main Temperature Control for correct setting.
	Electrical noise	Remove nearby sources of RFI including motors,

Problem	Possible Cause	Solution
		arcing relays or radio transmitters.
	Bad connection on temperature sensor or faulty sensor	Check connectors for continuity and mechanical soundness while watching display for erratic behavior. Check sensor and wiring for mechanical damage.
	Bad connections	Check connectors for mechanical soundness and look for corrosion around terminals or signs of arcing or other visible deterioration.
Will not maintain set point	N/A	Assure that set point is at least 5 degrees over ambient.
	N/A	See if ambient is fluctuating. Check for adjacent open doors or HVAC duct openings, stabilize ambient conditions.
Display and reference thermometer do not match	Calibration error	See Calibrating the Main Temperature Control.
	Temperature sensor failure	Evaluate if pilot light is operating correctly.
	Controller failure	Evaluate if pilot light is operating correctly.
	N/A	Allow at least 24 hours to stabilize at set point temperature.
	N/A	Verify that reference thermometer is certified.
Can not adjust set points or calibration	N/A	Turn entire unit off and on to reset.
	N/A	If repeatedly happens, call customer service.
Calibrated at one temperature but not at another	N/A	This can be a normal condition when operating temperatures varies widely. For maximum accuracy, calibration should be done at or as close to the set point temperature as possible.

Note: N/A is not available.

Table 5. Mechanical Troubleshooting

Problem	Possible Cause	Solution
Glass door not sealing	N/A	Stretch and tuck gasket.
	N/A	Align clamps till they hold gasket tight.
	N/A	Check physical condition of gasket.
	N/A	Tighten door latch until it pulls glass in.
	N/A	Assure that gasket clamps are in original location.
Motor does not move	N/A	If shaft spins freely, check connections to motor and check voltage to motor.
	N/A	If shaft rubs or is frozen, relieve binding and retest.
Motor makes noise	N/A	If noise is from the motor, tap the top of motor shaft with ball peen hammer. Remove back panel to access fan motor. If the sound gets worse, tap the other end of the shaft – avoiding touching the fan blade. If there is no change, call customer service.

	N/A	If noise is from shaft or fan blade, realign the shaft.
Outer door not sealing	N/A	Adjust hinge blocks or twist the door.
	N/A	Confirm that unit has not been damaged and body is square.

Note: N/A is not available.

Table 6. Miscellaneous Troubleshooting

Problem	Possible Cause	Solution
Controller on at all times and is "locked-up"	N/A	Turn unit off and on to reset.
	N/A	If you cannot change any condition on the front panel, call customer service.
Front panel displays are all off	Unit or wall fuse/circuit breaker is blown.	Check for wire damage.
	N/A	Check wall power source.
	N/A	Compare current draw and compare to specifications on data plate.
	N/A	See what other loads are on the wall circuit.
Unit will not turn on	N/A	Check wall power source.
	N/A	Check fuse/circuit breaker on unit or in wall.
	N/A	Check all wiring connections, especially around the on/off switch.
	N/A	See if unit is on (fan or heater), and just controller is off.
Unit is smoking out of the box	N/A	This is not an uncommon occurrence when first operating new units as oil residues burn off. Put unit under vent and run at full power for one hour. Smoking is normal during the first cycle to temperature.
Contamination in chamber	N/A	See Cleaning.
	N/A	Develop and follow standard operating procedure for specific application; include cleaning procedures in maintenance schedule.

Note: N/A is not available.

Section 9

PARTS LIST

Table 7. Parts

Description	120V	230V
Blower Motor	4880564	4880563
Door Element	2350544	2350544
Element: 1526 1536 1546 & 1566 1556	2350500 2350561 2350513 2350561	2350500 2350566 2350514 2350501
EMI Filter 10 Amp, CE units only	NA	2800502
Fuse, 6.3 Amp 250 V	3300515	3300515
High Limit Thermostat	1750862	1750813
Leveling Foot	2700512	2700512
Main Temperature Control with Probe	1750842	1750843
On/Off Switch	7850570	7850570
Pilot Light, Green	4650554	4650554
Pilot Light, Red	4650553	4650553
Power Cord	1800510	1800539
Shelf: 1526 1536 1546 & 1566 1556	5080758 5130518 5130523 5130687	5080758 5130518 5130523 5130687

Note: N/A is not available.

Section 10

UNIT SPECIFICATIONS

These units are 120 volt or 230 volt. Please refer to the unit data plate for individual electrical specifications.

Table 8. Weight

Model	Shipping	Net
1526	120 lbs.	83 lbs.
1536	204 lbs.	162 lbs.
1546	275 lbs.	158 lbs.
1556	550 lbs.	316 lbs.
1566	550 lbs.	316 lbs.

Table 9. Dimensions

Model	Exterior WxDxH	Interior WxDxH
1526	21 x 21 x 25 in.	15 x 15 x 15 in.
1536	30 x 30 x 32 in.	24 x 24 x 20 in.
1546	25 x 27 x 37 in.	19.25 x 20 x 26 in.
1556	42 x 27 x 37 in.	36.36 x 20 x 26 in.*
1566	25 x 27 x 72 in.	19.25 x 20 x 26 in.*

Note: *Each chamber.

Table 10. Capacity

Model	Cubic Feet
1526	2.0
1536	6.7
1546	5.8
1556	11.25
1566	5.8*

Note: *Each chamber.

Table 11. Temperature

Model	Range	Uniformity	Stability
1526	Amb. +5° to 60°C	+/-.35° @ 37°C	+/-0.1°C
1536	Amb. +5° to 60°C	+/-.35° @ 37°C	+/-0.1°C
1546	Amb. +5° to 60°C	+/-.35° @ 37°C	+/-0.1°C
1556	Amb. +5° to 60°C	+/-.35° @ 37°C	+/-0.1°C
1566	Amb. +5° to 60°C	+/-.35° @ 37°C	+/-0.1°C

Table 12. Power

Model	Voltage	Amperage
1526	100-120	4.5 Amps
1526-2	220-240	3.0 Amps
1536	100-120	6.5 Amps
1536-2	220-240	5.0 Amps
1546	100-120	6.0 Amps
1546-2	220-240	4.0 Amps
1556	100-120	7.0 Amps
1556-2	220-240	5.0 Amps
1566	100-120	6.0 Amps (each chamber) 12.0 (entire unit)
1566-2	220-240	4.0 Amps (each chamber) 8.0 (entire unit)

Section 11

SCHEMATICS

Figure 3. Schematics for 1526, 1536, 1546, 1556, 1566 (9851147)

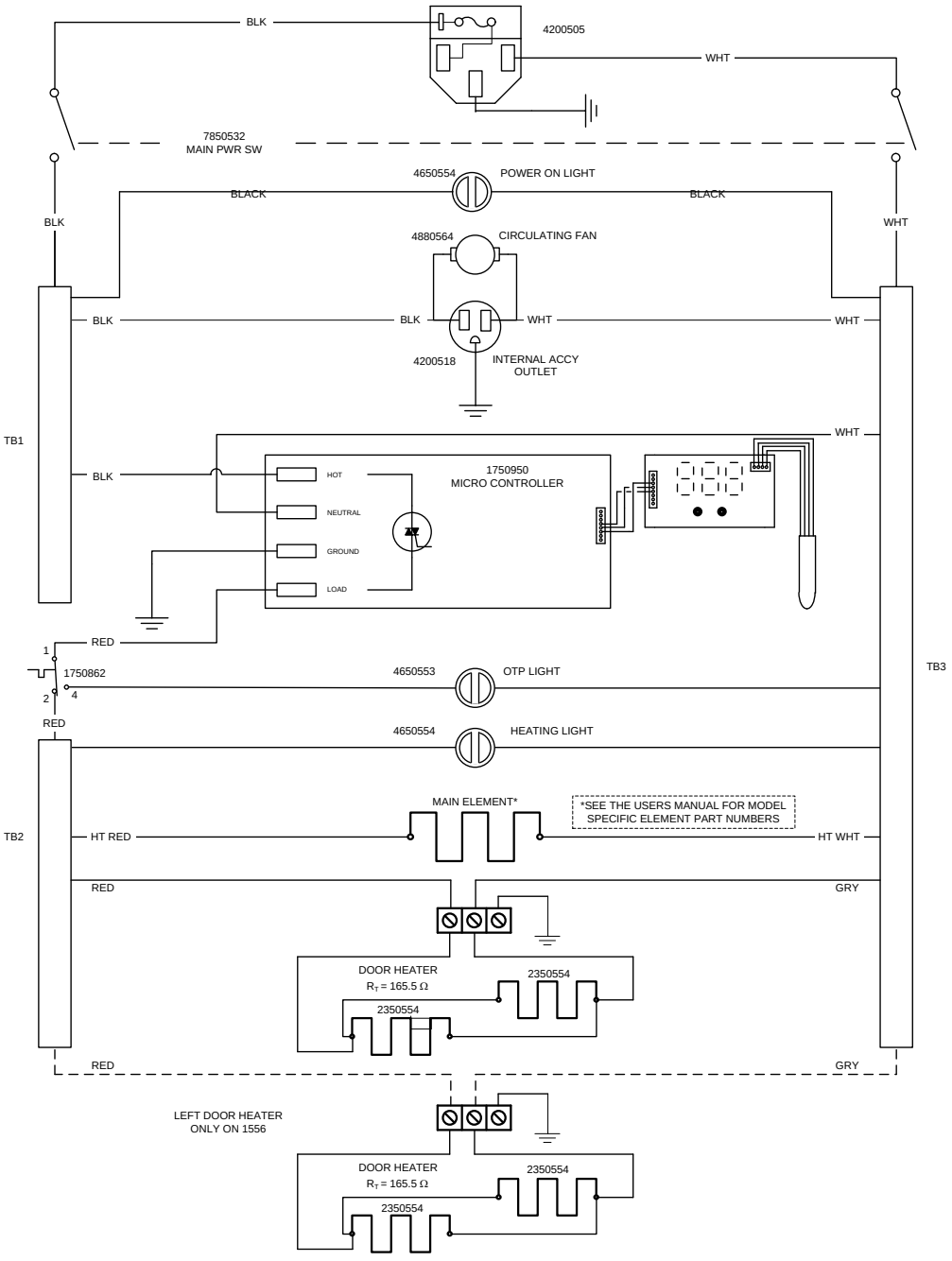
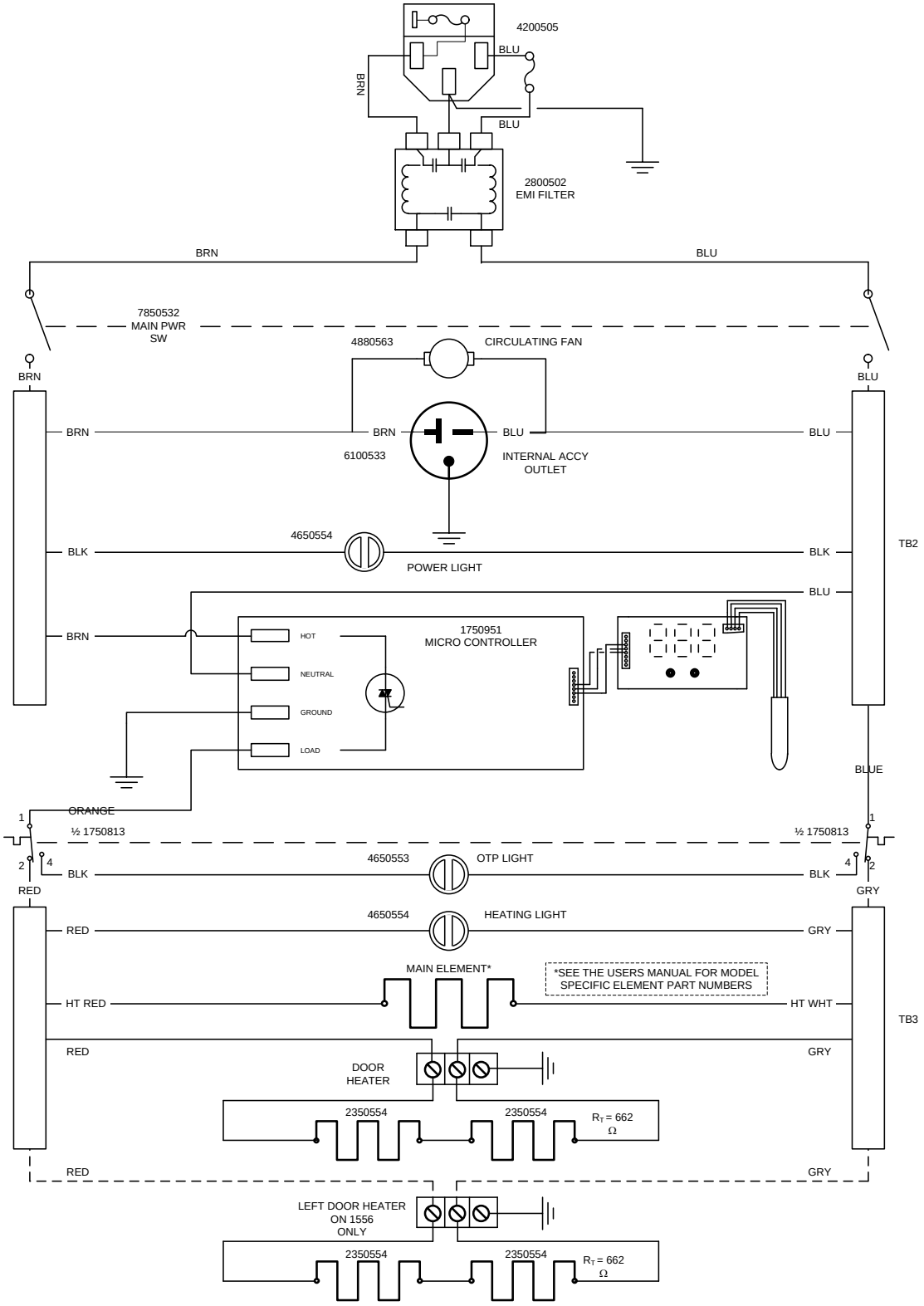


Figure 4. Schematics for 1526-2, 1536-2, 1546-2, 1556-2, 1566-2 (9851148)



SHELDON MANUFACTURING, INC.

LIMITED WARRANTY

Sheldon Manufacturing, Inc., ("Manufacturer") warrants for the original user of this product in the U.S.A. only that this product (parts only if outside of the U.S.A.) will be free from defects in material and workmanship for a period of two years from the date of delivery of this product to the original user (the "Warranty Period"). During the Warranty Period, Manufacturer, at its election and expense, will repair or replace the product or parts that are proven to Manufacturer's satisfaction to be defective, or, at Manufacturer's option, refund the price or credit (against the price of future purchases of the product) the price of any products that are proven to Manufacturer's satisfaction to be defective. This warranty does not include any labor charges if outside of the U.S.A. This warranty does not cover any damage due to accident, misuse, negligence, or abnormal use. Use of Manufacturer's product in a system that includes components not manufactured by Manufacturer is not covered by this warranty. This warranty is void in the event that repairs are made by anyone other than Manufacturer without prior authorization from Manufacturer. Any alteration or removal of the serial number on Manufacturer's products will void this warranty. **Under no circumstances will Manufacturer be liable for indirect, incidental, consequential, or special damages.** The terms of this warranty are governed by the laws of the state of Oregon without regards to the principles of conflicts of laws thereof. If any provision of this limited warranty is held to be unenforceable by any court of competent jurisdiction, the remainder of this limited warranty will remain in full force and effect.

This warranty is in lieu of and excludes all other warranties or obligations, either express or implied. Manufacturer expressly disclaims all implied warranties, including without limitation, the warranties of merchantability and fitness for a particular purpose.

For fast and efficient support, please have the following information available anytime you request service:

Model _____

Serial No. _____

Part No. _____

Order From VWR

Call 800-932-5000

from anywhere in the U.S. and Canada

Sales & Inventory Locations:

Pacific Northwest Area
Anchorage, AK
Salt Lake City, UT
San Francisco, CA
Seattle, WA
Tualatin, OR

Midwest Area
Chicago, IL
Detroit, MI
Indianapolis, IN
Minneapolis, MN
St. Louis, MO

Northeast Area
Boston, MA
Cincinnati, OH
Cleveland, OH
Pittsburgh, PA
Rochester, NY

Southeast Area
Atlanta, GA
Oak Ridge, TN

Southwest Area
Albuquerque, NM
Denver, CO
Phoenix, AZ
San Diego, CA
San Dimas, CA

Gulf Area
Austin, TX
Dallas, TX
Houston, TX
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