

VWR® PerfectBlue™ Power Supply Universal VWR® PerfectBlue™ Power Supply HC

Instruction Manual

European Catalogue Number(s):

VWR® PerfectBlue™ Power Supply Universal:
700-1285

VWR® PerfectBlue™ Power Supply HC:
700-1316

Version: 1

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Legal Address of Manufacturer

Europe

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Country of origin

Made in Taiwan

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Warning

VWR® PerfectBlue™ Power Supply Universal and **VWR® PerfectBlue™ Power Supply HC** are designed to provide reasonable protection against harmful interference when the instrument series is operated in a commercial environment. This instrument series used together with power supply unit generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this instrument series in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at their expense. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. It is strongly recommended for the user to read the following points carefully before operating this equipment.

1. Read and follow the manual instructions carefully.
2. Do not alter the equipment. Failure to follow these directions could result in personal and/or laboratory hazards, as well as invalidate equipment warranty.
3. Use a properly grounded electrical outlet with correct voltage and current handling capacity.
4. Disconnect from power supply before maintenance and servicing. Refer servicing to qualified personnel.
5. Never use this instrument series without having the safety cover correctly in position.
6. Do not use the unit if there is any sign of damage to the external tank or cover. Replace damaged parts.
7. Do not use in the presence of flammable or combustible material; fire or explosion may result. This device contains components which may ignite such materials.
8. Refer maintenance and servicing to qualified personnel.
9. Ensure that the system is connected to electrical service according to local and national electrical codes. Failure to make a proper connection may create fire or shock hazard.
10. Use appropriate materials and operate correctly to avoid possible hazards of explosion, implosion or release of toxic or flammable gases arising from overheated materials.
11. The unit shall be operated only by qualified personnel.

Safety Information

Use high level of precaution against any electrical device. Before connecting the electrical supply, check to see if the supply voltage is within the range stated at the rating label, and see to it that the device be seated firmly. Place the unit in a safe and dry location; it must NOT touch the surrounding. Follow the safety precautions for chemicals / dangerous materials.

Environmental Conditions

Ensure the instrument is installed and operated strictly under the following conditions:

1. Indoor use only
2. $\leq 95\%$ RH
3. 75 kPa – 106 kPa
4. Altitude must not exceed 2000 meters
5. $4^{\circ}\text{C} \sim 40^{\circ}\text{C}$ operating temperature
6. Pollution degree: 2
7. Mains supply voltage fluctuations up to $\pm 10\%$ of the normal voltage

Avoiding Electrical Shock

Follow the guidelines below to ensure safe operation of the unit.

VWR® PerfectBlue™ Power Supply Universal and **VWR® PerfectBlue™ Power Supply HC** have been designed to utilize shielded wires thus minimizing any potential shock hazard to the user. We recommend against the use of unshielded wires. To avoid electrical shock:

1. In the event of solution spilling on the instrument, it must be dried out for at least 2 hours and restored to NORMAL CONDITION before each operation.
2. Never connect or disconnect wires loading from the power jacks when the red indicator light of power switch is on.
3. WAIT at least 5 seconds after stopping a run before handling output leads or any connected apparatus.
4. ALWAYS make sure that your hands, work area, and instruments are **clean** and **dry** before making any connections or operating the power supply.
5. ONLY connect the power cord to a properly grounded AC outlet.

Avoiding Damage to the Instrument

1. Do not attempt to operate the device if damage is suspected.
2. Protect this unit from physical damage, corrosive agents and extreme temperatures (direct sunlight, etc.).
3. For proper ventilation and safety concerns, keep at least 10 cm of space behind the instrument, and at least 5 cm of space on each side.
4. Use high level of precaution against the damages on the unit.
5. Do not operate the unit out of environmental conditions addressed above.
6. Do not operate the power supplies in high humidity environments (> 95%), or where condensation may occur.
7. To avoid condensation after operating the power supply in a cold room, wrap the unit in a plastic bag and allow at least 2 hours for the unit to equilibrate to room temperature before removing the bag and operating the unit.
8. Prior to applying any cleaning or decontamination methods other than manufacturer's recommendation, users should check with the manufacturer's instruction to see if the proposed method will damage the equipment.

Equipment Operation

Follow the guidelines below to ensure safe operation of the unit:

1. NEVER access dangerous chemicals or other materials to prevent possible hazard of explosion and damage.
2. Do not operate the unit without lids or covers to prevent possible hazards.
3. A temporary conductivity caused by condensation might occur even though this series is rated Pollution Degree 2 in accordance with IEC 664.

Symbol

Symbols used on the power supply are explained below.



Indicates an area where a potential shock hazard may exist.
Consult the manual to avoid possible personal injury or instrument damage.



Indicates disposal instruction.
DO NOT throw this unit into a municipal trash bin when this unit has reached the end of its lifetime. To ensure utmost protection of the global environment and minimize pollution, please recycle this unit.



Caution/ Warning: Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

Potential Risk and Preventive Measure

1. Risk assessment table

Potential Risk / Frequency	Frequent	Likely	Possible	Rare	Unlikely
Bruise			√		
Slash					√
Electrical shock			√		
Power cord plug wrong				√	

2. Preventative measures of risk

Potential Risk	Preventive measures
Bruise	Do not put the machine near the table edge.
Slash	Prevent hard impact on the case.
Electrical Shock	Make sure that your hands, work area, and devices are clean and dry
Power cord plug wrong	Observe correct adapter plug.

Package Contents

Description	Quantity
Power Supply	1
Power Cord	2
Instruction Manual	1

Unpacking

Packing Material:

- Box
- Air Bubble Bag
- EPE (Expandable Polyethylene) Board

Installation

The power supply is a pre-installed instrument. As long as it is placed on a sturdy and level surface in a safe, dry place, and further connects with well-prepared electrophoresis system, it is ready for operation.

Intended use

This unit can be applied in electrophoresis process, only for lab use.

For research use only. Not intended for any animal or human therapeutic or diagnostic use.

Symbols and conventions

The following chart is an illustrated glossary of the symbols that are used in this manual.

	CAUTION This symbol indicates a potential risk and alerts you to proceed with caution
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Product Specifications

Product Name	VWR® PerfectBlue™ Power Supply Universal	VWR® PerfectBlue™ Power Supply HC
Cat. No.	700-1285	700-1316
Output Voltage / Inc	5 - 300V / 1V	5 – 300 / 1V
Output Current / Inc	1 - 700mA / 1mA	10 – 3,000mA / 10mA
Max. Watt	150W	300W
Rated Voltages	100-240V; 47-60Hz, 200W: T2.5A/250V	100-240V: 47-60Hz,410W: T5A/250V
Type of Output	1. Voltage or Current with automatic crossover 2. When target constant mode is set, system automatically adjusts the two other parameter to maximum to allow constant run (later could be changed by user)	
Program Storage	30 programmed files	
Program Multi-Step	Up to 6 steps	
Editable Program Function	1.Have typical running conditions program 2.Manual editable program	
Display	2.4" TFT	
Control	Microprocessor controller	
Safety Device	No Load detect	
	Leakage detect	
	Over temperature protection	
	Over load detection	
	Sudden load change detection(could be enabled by proper setting)	
	Shrouded plugs and sockets	
Timer	Constant: 1~9999 mins with alarm, continuous Program: 1~999 mins with alarm, continuous	
Crossover	Yes	
Stackable	Yes	
Automatic Recovery After Power Failure	Yes	
IQ/OQ Protocols	Yes, optional	
Regulatory	CE, ETL	CE
Operating Temperature	4°C ~ 40°C	
Construction Material	Flame retardant ABS faceplate	
Unit Dimension	215 x 335 x 104 mm (W x L x H)	
Weight	approx. 2.1 kg	

Overview

VWR® PerfectBlue™ Power Supply Universal and **VWR® PerfectBlue™ Power Supply HC** are recognized as unique power supplies equipped with very powerful specifications to cover the majority of electrophoresis applications on the market. Sufficient and accurate output voltages, four terminal pairs, and its compact size can deliver accurate and reliable experimental results from one experiment to another.

Description of Buttons and Switches

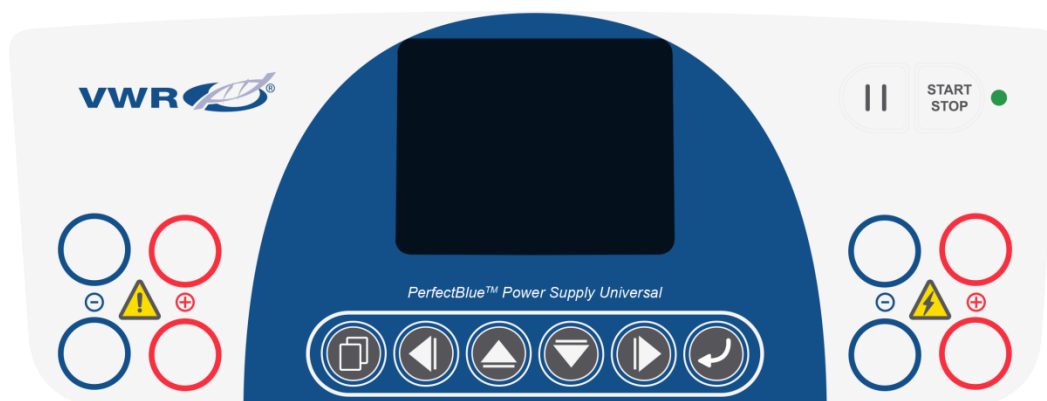
Front View



Rear View



Operational keys



(This picture takes **PerfectBlue™ Power Supply Universal** as example)

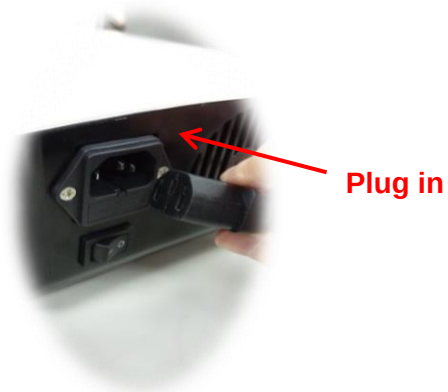
No.	Icon	Function
1		Press to activate or stop the unit
2		Press to temporarily interrupt power to an operation in progress; resume power after pausing without resetting the timer
3		Press to select either Constant/ Program Mode or Constant Voltage or Constant Current mode or Time
4		Press to enter the numeric value set up
5		Press to move cursor left forward between parameters
6		Press to move cursor right forward between parameters
7		Press to move cursor up between parameters and to increase numeric values
8		Press to move cursor down between parameters and to decrease numeric values

Getting Started

1. Place the unit on a sturdy and level surface in a safe, dry place, away from laboratory traffic.
2. Ensure that the power switch is OFF, and then plug the three-pronged power cord one end into a grounded three-prong AC outlet with appropriate voltage (100V to 240V as indicated on the rating sticker near the AC cord on the back of the unit), and plug the other end into the main power socket.



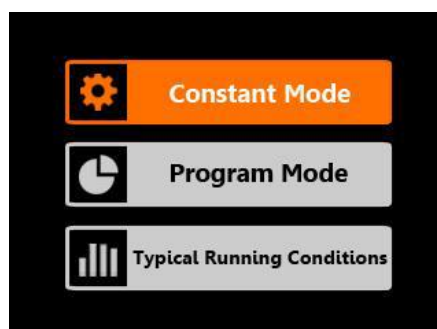
Power Switch: OFF



3. Connect the DC output jacks from the electrophoresis unit; insert the red lead (+) into the red output jack, and the black lead (-) into the blue output jack.



4. Power on the unit by pressing the ON/OFF switch on the back.
5. After few seconds the screen shows mode-selecting page.



Important Guidelines

For Timer setting: In Constant Mode, if the time value is set "0," it means "infinite." The power supply will constantly operate until user manually stops it. However, in Program Mode, if the time value is set "0" at any step, it means "stop at previous step." For example, if Step 1 is set 5 minutes and Step 2 is set 0, the system will only complete Step 1 and stop.

General Operating Instructions

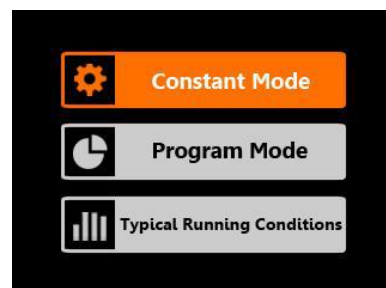
There are 3 modes available: **Constant Mode**, **Program Mode**, and **Typical Running Condition**. Please select according to your needs. Detailed setting instruction for each mode is listed below.

1. Constant Mode

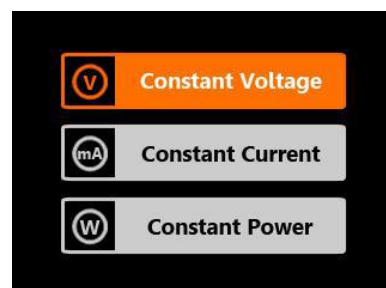
Use the **Constant Mode** for applications that require only one specific limit: voltage/ current/ power during the entire operation of electrophoresis.

a. Setting

- Use  Key and  Key to select **Constant Mode**, and then press  to enter the next page.



- Use  and  to select either Constant Voltage(V) or Constant Current(mA) or Constant Power(W), and then press  to enter the next page



- Use  and  to move cursor to the parameter such as voltage (V) current (mA) or power (W) or time (min.). Press  Key to enable setting.

V	300
mA	600
W	300
	0

Note: If the time value is set "0," it means "infinite."

The power supply will constantly operate until user manually stops it.

- Use  or  to increase/decrease value, and then press  Key to confirm. Move to the next parameter until all the parameters are set.

Note: Under **Constant Mode**, when target value is set, system automatically adjusts the other two parameters to maximum to allow constant run. For example, if constant voltage (V) is set, system will adjust current (mA) and power (W) to the maximum value. User could later lower the other two values by themselves. System will hold the value either at target constant value or the one which has been reached first.

b. Start an Run

- Press  Key to start operation. The LED is lit, and the screen will show the real-time parameter values.
- When parameter reaches the assigned value, its color would turn orange.

Constant	
	300 volt
	38 mA
	11 watt
	0 min

- Press  to switch pages between real-time value display and value set up page.

Constant	V	300
	mA	600
	W	300
		0

- Press  Key to temporarily pause the on-going electrophoresis without terminating the operation. The LED is flashing. Press  Key to resume the run.
- Press the  Key again to stop current operation and terminate a timed run.

- When a run is completed, operation stops with alarm and **COMPLETE** is displayed on the screen. Press  Key to terminate, and turn the power OFF by the switch on the back.

Note: It would take a little time (about 5 seconds) for the unit to power off.

c. Pause/ Terminate a Run

- If you need to modify values of voltage (V)/ current (mA)/ power (W) during operation but do not want to terminate the time run, you may pause electrophoresis by pressing the  Key. Press



Key to enter the setting page.

Adjust the values and then press



Key to resume your operation.

- If you want to terminate and start a new run during operation, press  Key instead of



Key. After adjusting the values press



Key once again to start a new operation run.

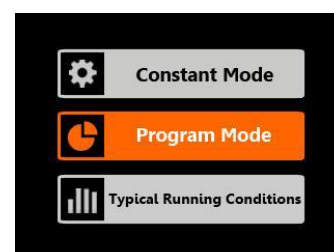
Note: If you terminate and start a new run, so does the timer. The timer resets and does not take into account the time before.

2. Program Mode

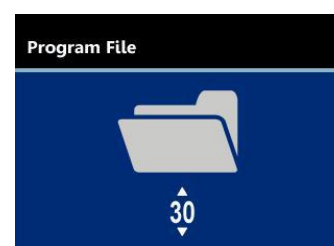
Instruction for **Program Mode** is in this section. The Program Mode allows you to vary levels in voltage (V), current (mA), and power (W) during specified time periods for up to 6 Steps, depending upon your electrophoresis needs. This series of power supply is capable of having 30 different program files storages for user's convenience. Follow the instruction below to set the Program Mode:

a. Setting

- Use  Key and  Key to select **Program Mode**, and then press  Key to enter the next page.



- Press  or  Key to select appropriate file number, and then press  or  Key to enter the next page.



- Use , ,  or  to move cursor to parameters such as voltage (V) current (mA) or power (W) or time (min.). Press  Key and use  and  to set

Program File: 30				
	V	mA	W	⌚
4	139	800	300	20
5	100	800	300	30
6	500	800	300	0

the appropriate value, and then press  Key. Repeat this step until all the parameters are set properly. There are 6 stages available for use; use  to move down for setting Stage4-6, and  to go back Stage1-3.

Program File: 30				
	V	mA	W	⌚
1	139	800	300	20
2	100	800	300	30
3	500	800	300	0

Note: If the time value is set "0" at any stage, it means "stop at previous stage." For example, if Stage 1 is set 5 minutes and Stage 2 is set 0, the system will only complete Stage 1 and stop.

b. Start a Run

- Press  Key to start operation. The LED is lit, and the screen will show the real-time parameter values.
- When parameter reaches the assigned value, its color would turn orange.

Program File: 30		Step: 2
	300	volt
	38	mA
	11	watt
	0	min

- Press  to switch pages between real-time value display and value set up page.

Program File: 30		Step: 2
	300	volt
	3000	mA
	300	watt
	20	min

Program File: 30				
	V	mA	W	L
1	139	800	300	20
2	100	800	300	30
3	500	800	300	0

- Press  Key to temporarily pause the on-going electrophoresis without terminating the operation. The LED is flashing. Press  Key to resume the run.

- Press the  Key again to stop current operation and terminate a timed run.

- When a run is completed, operation stops with alarm and **COMPLETE** is displayed on the screen. Press  Key to terminate, and turn the power OFF by the switch on the back.

Note: It would take a little time (about 5 seconds) for the unit to power off.

c. Pause/ Terminate a Run

- If you need to modify values of voltage (V)/ current (mA)/ power (W) during operation but do not want to terminate the time run, you may pause electrophoresis by pressing

the  Key. Press  Key to enter the setting page.

Adjust the values and then press  Key to resume your operation.

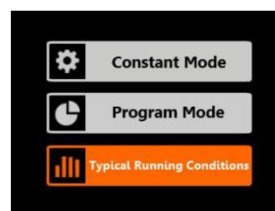
- If you want to terminate and start a new run during operation, press  Key instead of  Key. After adjusting the values press  Key once again to start a new operation run.

Note: If you terminate and start a new run, so does the timer. The timer resets and does not take into account the time before.

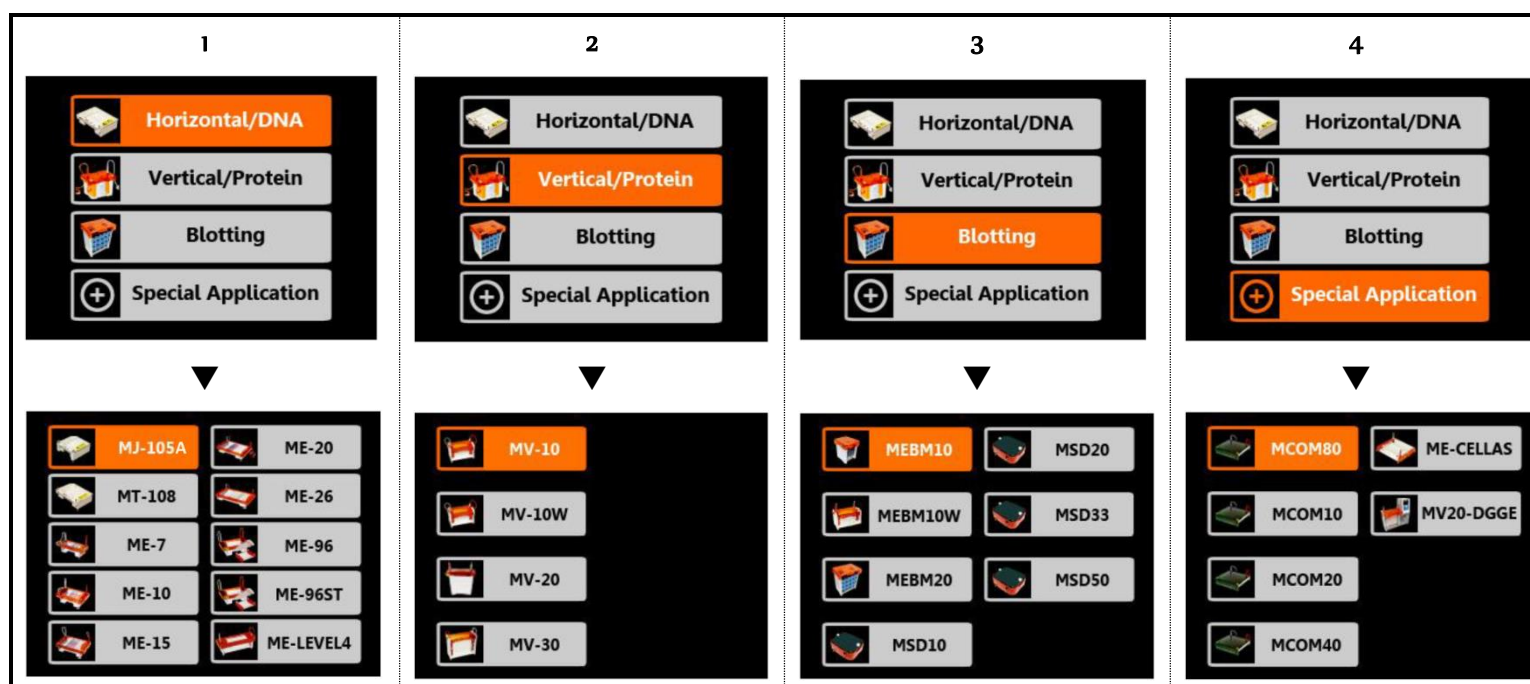
3. Typical Running Condition

Besides **Constant Mode** and **Program Mode**, a third option, **Typical Running Condition** is provided. It is helpful for those beginners who are not familiar with the parameter setting and is convenient for quick start.

- Turn on the unit; use  key to select and then press  to enter the next page.



- There are 4 category can be selected. Choose the model according to your experimental need.



- After selecting model, the pre-set value will display. User could adjust the value

or simply just press  to start operation.

MJ-105A				
	V	mA	W	⌚
1	139	800	300	20
2	100	800	300	30
3	500	800	300	0

Troubleshooting

Review the information in the table below to troubleshoot operating problems.

Problem	Cause	Solution
No Display / lights	No AC power	➤ Check if power supply is plugged, or AC power source has problem.
	AC power cord is not connected	➤ Check AC power cord connections at both ends. Use the correct cords.
	The fuse has blown	➤ Replace the fuse.
Repeated fuse broken	Hardware failure	➤ Contact service department
Operation stops and the screen displays PLC ERROR	Communication wires on circuit board have loosen or broken.	➤ It is recommended to send the machine back to local distributor or our Service Department for maintenance.
Operation stops with alarm: The screen displays NO LOAD	Electrophoresis leads are not connected to the power supply or to the electrophoresis unit(s), or there is a broken circuit in the electrophoresis cell	➤ Check the connections to the power supply and on your electrophoresis cell to make sure the connection is intact; check condition of wires in electrophoresis unit. Close the circuit by reconnecting the cables. Press START/STOP to restart the run.
	High resistance due to tape left on a pre-cast gel, incorrect buffer concentration, or incorrect buffer volumes in the electrophoresis cell	➤ Make sure the tape is removed from the pre-cast gel, buffers are prepared correctly, and the recommended volume of buffer is added to the electrophoresis unit.
	High voltage application is set to run on a very low current	➤ DISABLE No Load alarm on the Display Screen
Operation stops with alarm. Display shows LOAD CHANGED	Bad connections for terminal connectors or damaged wires or damaged platinum wires	➤ Check all the connections to terminators, cables, wires, and gel tanks

Operation stops with alarm: Display shows OVER VOLTAGE	Circuit is interrupted	➤ Verify that the running buffer is correct. ➤ Verify the all cables are attached correctly ➤ Turn the Power switch off and on again; restart application. ➤ If you cannot restart the instrument, turn off the power, disconnect the power cord from the outlet, and contact Technical Service.
Operation stops with alarm: Display shows OVER CURRENT	Circuit is interrupted	➤ Verify that the running buffer is correct. ➤ Verify the all cables are attached correctly ➤ Turn the Power switch off and on again; restart application. ➤ If you cannot restart the instrument, turn off the power, disconnect the power cord from the outlet, and contact Technical Service.
Operation stops with alarm: Display shows LEAKAGE	Ground leak detected during run	➤ Check the electrophoresis system for improper grounding. Restart the power supply by turning the Power switch off and on.
Operation stops with alarm: Display shows OVER TEMPERATURE	Power supply is overheating	➤ Turn off power supply. Check for sufficient airflow around the power supply fan. After cooling down, restart the power supply by turning the Power switch to the on position. ➤ If you cannot restart the instrument, turn off the power, disconnect the power cord from the outlet, and contact Technical Service.

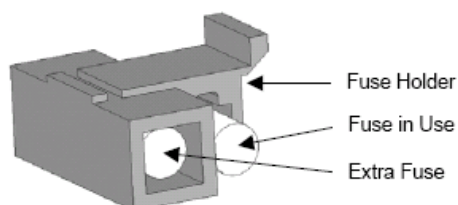
Warning message displays with 5-second beep sound. The screen shows 	The power once been cut and now recover	➤ User does not need to take extra action. The warning sign and beep sound would only last for 5 second; after that, the machine will continue running the unfinished project. ➤ The  sign indicates the machine has been interrupted by sudden power off. Press Enter Key  to clear the sign.
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Repair and Maintenance of Fuse

1. Turn off the main power switch at the rear of Power Supply and detach the power cord.
2. Open the fuse compartment located at the Main Power Socket by inserting a small flat blade screwdriver into the slot below the ON/OFF switch. Turn the screwdriver to gently pry open the fuse compartment.

Note: The fuse compartment will not open with the power cord in place.

3. Pull the fuse holder out of the compartment and inspect the fuse. If the fuse is burned or there is a break in the fuse element, replace the fuse with an identical type of fuse as provided in the fuse holder (see figure below).
4. Place the fuse holder back into the compartment.
5. Snap the cover closed.



Encountering problems

1. Check the Troubleshooting section.
2. Call Technical Service or e-mail to www.vwr.com

User replaceable accessories and spare parts

Description	Quantity	Cat. No. [w1]
700-1285 Fuse (2.5A/250V)	1	PFV-D-TCF-2.5A-PF-000000
700-1316 Fuse (4A/250V)	1	PFV-D-000-5A-PF-00000000

Technical service

Web Resources

Visit the VWR website at www.vwr.com for:

- Complete technical service contact information
- Access to the VWR Online Catalogue, and information about accessories and related products
- Additional product information and special offers

Contact us For information or technical assistance contact your local VWR representative or visit.

www.vwr.com.

Warranty

VWR warrants that this product will be free from defects in material and workmanship for a period of two (2) years from date of delivery. If a defect is present, VWR will, at its option and cost, repair, replace, or refund the purchase price of this product to the customer, provided it is returned during the warranty period. This warranty does not apply if the product has been damaged by accident, abuse, misuse, or misapplication, or from ordinary wear and tear. If the required maintenance and inspection services are not performed according to the manuals and any local regulations, such warranty turns invalid, except to the extent, the defect of the product is not due to such non-performance.

Items being returned must be insured by the customer against possible damage or loss. This warranty shall be limited to the aforementioned remedies. IT IS EXPRESSLY AGREED THAT THIS WARRANTY WILL BE IN LIEU OF ALL WARRANTIES OF FITNESS AND IN LIEU OF THE WARRANTY OF MERCHANTABILITY.

Compliance with local laws and regulations

The customer is responsible for applying for and obtaining the necessary regulatory approvals or other authorisations necessary to run or use the Product in its local environment. VWR will not be held liable for any related omission or for not obtaining the required approval or authorisation, unless any refusal is due to a defect of the product.

Equipment disposal



This equipment is marked with the crossed out wheeled bin symbol to indicate that this equipment must not be disposed of with unsorted waste.

Instead it's your responsibility to correctly dispose of your equipment at lifecycle -end by handling it over to an authorized facility for separate collection and recycling. It's also your responsibility to decontaminate the equipment in case of biological, chemical and/or radiological contamination, so as to protect from health hazards the persons involved in the disposal and recycling of the equipment.

For more information about where you can drop off your waste of equipment, please contact your local dealer from whom you originally purchased this equipment.

By doing so, you will help to conserve natural and environmental resources and you will ensure that your equipment is recycled in a manner that protects human health.

Thank you

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