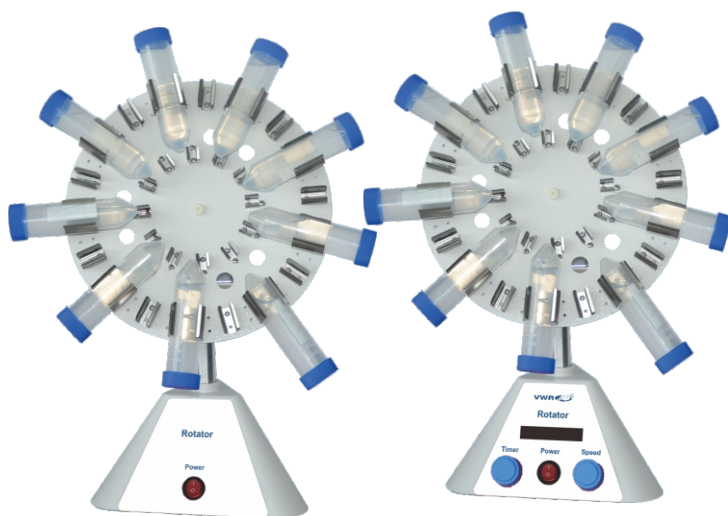


VWR[®] TUBE ROTATOR

Instruction Manual



Version: 1 Issued:
2022-11-22

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Unpacking and Inspection:

- Be careful with unpacking the instrument, inspecting whether there is any damage. If there is no damage, check it with the packing list in the user manual. If it is damaged, please contact VWR Customer Service.
- Place the instrument on a flat and solid surface to prevent vibration and noise.
- Do not use corrosive, flammable liquids to clean the instrument.

Overview: The VWR Fixed Speed Tube Rotator is designed for different applications in research, laboratories, and hospitals. The Tube Rotator can be used for routine blood tests and other mixing applications.

Features: The Fixed Speed Tube Rotator provides useful, efficient, and gentle mixing process to keep biological samples in suspension. It is used in applications such as preventing blood clotting, latex diagnosis, immunoprecipitation, and more.

- Compact design saves space and can be used in incubators.
- With a variety of independent clamps to choose from, it is convenient to use different combinations for different sized tubes, from 1.5 to 50ml.
- Digital control panel allows for adjustable speeds, with a maximum speed of 80rpm.

Specifications:

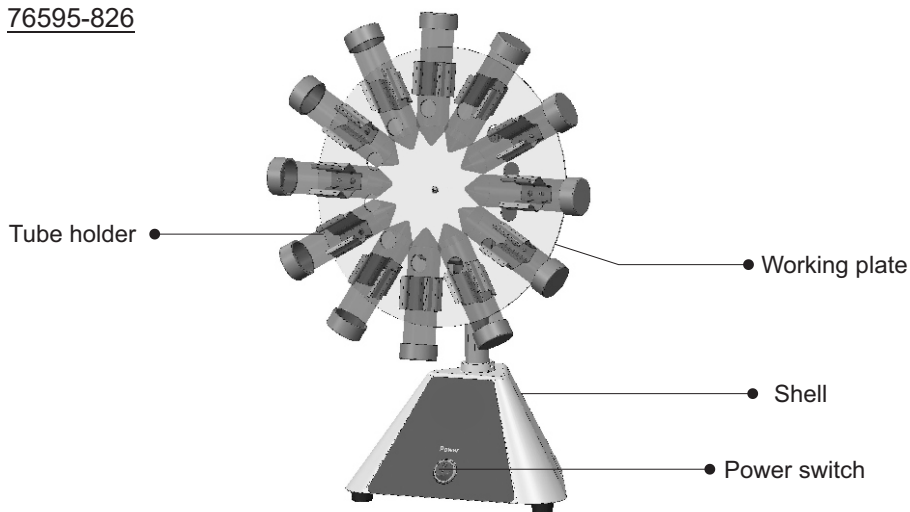
Model	76595-826
Speed Range	24rpm
Maximum Capacity	12×50ml/24×15ml/48×2ml
Working Plate Size	Ø250mm
Timer	N/A
Plate Adjustable Angle	0-90°
Standard Match	Ø250mm plate, 12x50ml tube clamp
Ambient	5-40°C, ≤80%
Net. Weight	3.5kg
Power Supply	AC110±11V, 50Hz/60Hz
Max Power	15W
Dimensions (L×W×H)	334×2150×405mm
Protection Grade	IP21 (EN60529)

VWR® Tube Rotator

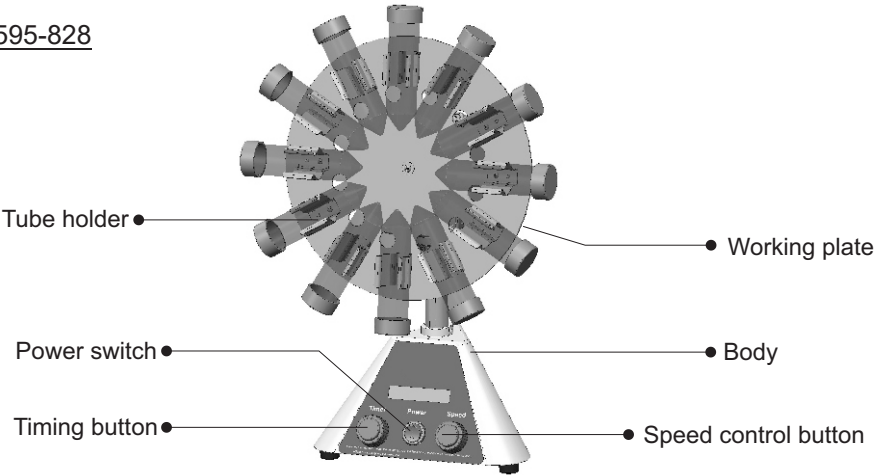
Model	76595-828
Speed Range	2-80rpm
Maximum Capacity	12×50ml/24×15ml/48×2ml
Working Plate Size	ø250mm
Timer	0-99h59min
Plate Adjustable Angle	0-90°
Standard Match	ø250m plate, 12×50ml tube clamp
Ambient	5-40℃, ≤80%
Net. Weight	3.5kg
Power Supply	AC100-240V, 50/60Hz
Max Power	6W
Dimensions (L×W × H)	334×2150×405mm
Protection Grade	IP21 (EN60529)

Structure:

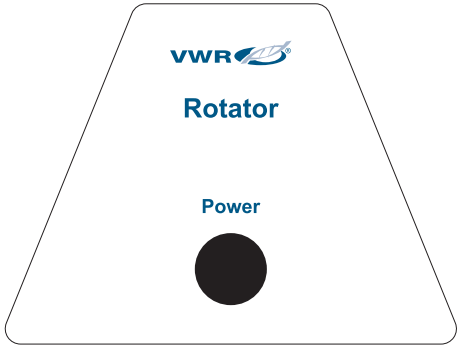
76595-826



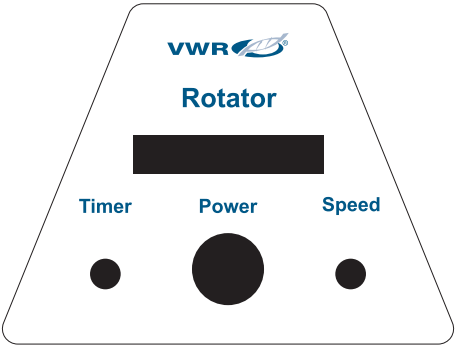
76595-828



Control Panel:



76595-826



76595-828

Operating Instructions:

76595-826 Fixed Speed Tube Rotator:

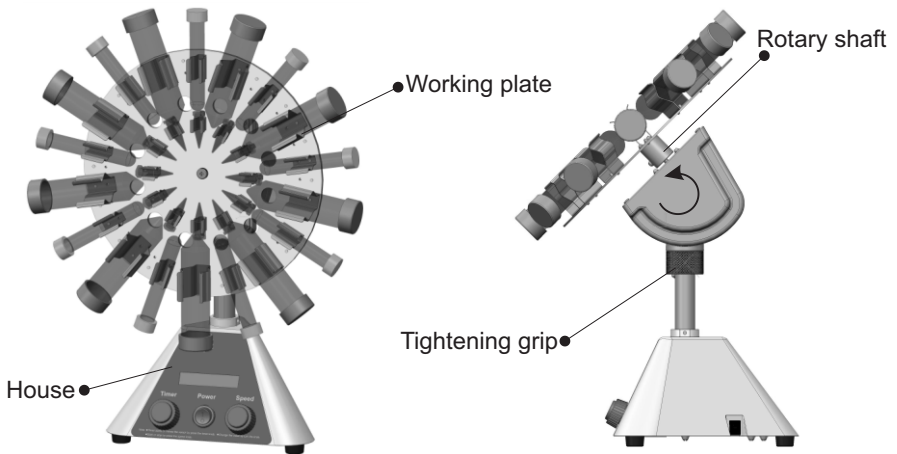
1. Put the tube clamps on the working plate using the attached screws as required;
2. Place the instrument on a solid, level surface, and attach the working plate to the instrument's rotating shaft using attached screws and washers;
3. Connect the power cord. Switch the power button to the "I" position to turn the unit on; the fixed rotation speed of the working plate is 24rpm;
4. Switch the front power button to the "O" position to stop the Tube Rotator, and unplug the power cord.

(**Note:** please keep the unit power off when adjusting the working plate angle.)

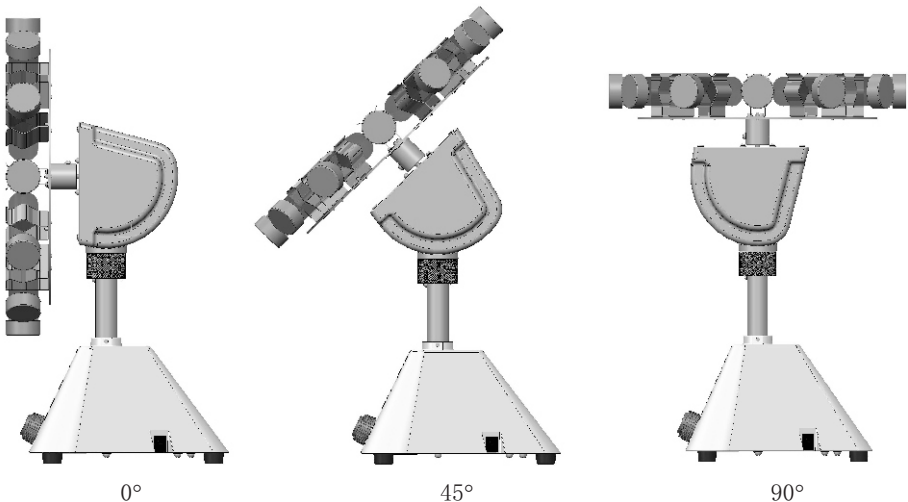
76595-828 Digital Tube Rotator:

1. Put the tube clamps on the working plate using the attached screws as required;
2. Place the instrument on a solid, level surface, and attach the working plate to the instrument's rotating shaft using attached screws and washers;
3. Connect the power cord. Switch the power button to the "I" position to turn the unit on; the LCD screen will light up when the unit is turned on;
4. **Speed setting:** Turn the "Speed" button to the right clockwise, and the first line of the LCD screen will display the speed value. Adjust the speed as needed and press the "Speed" knob to confirm. The instrument will start running; press the "Speed" knob again to stop the instrument. If you need to adjust the speed during operation, just turn the "Speed" knob, and the speed value on the display will change.
5. **Timer setting:** Press the Timer knob on the left side; the value before "h" in the second row of the LCD screen will blink. Turn the knob to adjust the "hour" to the desired value. Then, press the knob again to set the minute value before "min ". Press the knob for a third time; all the values will stop blinking and the timer is set. Press the "Speed" button on the right side to run the instrument and the timer. The timer values on the second line of the LCD display will start decreasing. When the timer value hits "000h00min", the instrument's alarm will sound, and the instrument will stop rotating.
6. **Change the timer settings:** if you want to adjust the time, you must first press the "Speed" button on the right to stop the rotating. Then reset the timer in accordance with the Timer setting.
7. **Power outage and memory function:** the instrument will automatically retain the current parameters after a sudden power outage. The LCD display will show the last set parameters when power is restored. If you need to change the parameters, please reset as explained in step 4 and step 5.
8. Switch the front power button to the "O" after use, and unplug the power cord. Clean the unit before storing it.

Method of adjusting the mixing angle

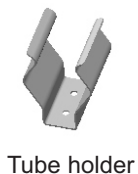


1. Loosen the tightening grip counterclockwise and adjust the mixing angle along the motor cover cambered track;
2. Adjust to a suitable mixing angle, tighten the grip clockwise in order to fix the position of the Working plate;
3. Mixing angle from 0-90° is adjustable, as follows:

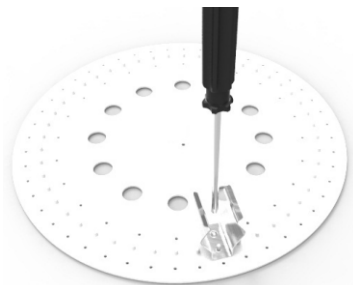


Accessories Replacement:

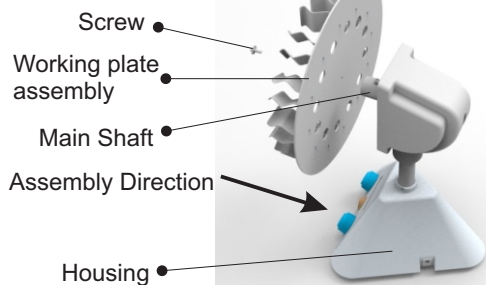
1. Working plate installation



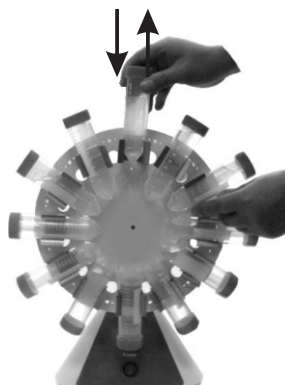
Attach the Tube Holder
to the Working Plate



2. Tube installation



Hold the working plate, then push or pull the tubes.



Safety Tips

- Avoid liquids spilling out from tubes being used .
- Use a power supply only in compliance with the manufacturer's power adapter.
- Place the instrument on a stable, clean, non-slip, dry, and fireproof work surface.
- Please check and make sure the instrument and accessories are undamaged before use; do not use damaged parts.
- Decrease the load, rearrange the tubes evenly, and reset the power if any of the following conditions happen: Working plate swings back and forth or shakes due to overloading; or swings back and forth or shakes due to an imbalanced load on the working plate.

Please note the following hazards:

1. Flammable materials
2. Low-boiling flammable material
3. Unsealed tubes
4. Loose tube clamps
5. Unsafe conditions for the tube

- The reagent in the tubes must be sealed to prevent overflow while the instrument is in use;
- Avoid shock while under work;
- To improve the life of the instrument, try to place the tubes balanced along the center of rotation; (it is recommended to reduce the load or reduce the speed while the tube placement is unbalanced);
- Tubes should be extracted from the holders horizontally, otherwise the instrument will be easily turned;
- Screws between the working plate and motor shaft must be tightened to prevent the working plate from loosening during use.

Cleaning and maintenance:

- Clean to ensure the safety and longevity of the instrument.
- Clean the instrument according to the manufacturer's recommendations.
- Unplug the power supply when cleaning.
- Clean the instrument with a soft damp cloth or non-abrasive cleaners (ph <8).
- Do not directly spray the instrument directly with any cleaning supplies.
- Make sure that the instrument is completely dry before operating the instrument.
- Please wear gloves when cleaning.
- Please clean and ensure that there are no harmful substances in or on the instrument before it is sent for maintenance and inspection.

Troubleshooting:

If the instrument fails, please first check the troubleshooting table below. If the problems persist, please write down the issues and contact VWR Customer Service.

Failure	Causes	Solutions
Does not work	The power is off	Plug the power cord in
	The local grid power failure	Please contact your local electrician for repair
Power on but unit does not rotate	The shaft is loose	Tighten the screw
	Motor is damaged	Please contact the manufacturer
The screen displays SPEED ERROR	The signal detector can not detect revolving speed	

Packing list:

Name	Quantity	Remark
Tube Rotator	1	✓
Instruction Manual	1	✓
Carousel (76595-856)	1	✓
3×75Screw Driver	1	✓

Accessories:

Quantity

- | | | |
|--|-----------|--------------------------|
| 1. Carousel for Multi-Tubes (2mL, 15mL, 50mL)..... | 76595-850 | ☐ |
| 2. Carousel for 2mL Tubes..... | 76595-852 | ☐ |
| 3. Carousel for 15mL Tubes..... | 76595-854 | ☐ |
| 4. Carousel for 50mL Tubes..... | 76595-856 | ☐ |
| 5. 50ml Clamp..... | 76595-844 | ☐ |
| 6. 15ml Clamp..... | 76595-846 | ☐ |
| 7. 2ml Clamp..... | 76595-848 | ☐ |

Warranty Card

Save this card carefully please. When you need service, contact the service company with card & invoice.

Warranty Card

User Name		Telephone	
Address			
Zip Code		E-mail	
Product Name		Model	
Serial number		Purchase Date	

- Warranty Scope:
1.Warranty period is 24 Months from purchase date.
- Warranty is not valid under the following circumstances:
1. Warranty term is expired.
2. Damage due to improper use, maintenance or handling.
3. Unmatched serial numbers, or modification of serial numbers.

Customer service hotline: please contact VWR's customer service department at 1-800-932-5000.
User: the above information should be completed by the seller.

Maintenance records

Completed by maintenance organizations, and they should help customers to paste maintenance records in the appropriate position!

The 1 time	Maintenance company's name		Maintenance Date	
	Address		Tel	
	Maintenance documents No.		Maintenance personnel to sign	
The 2 time	Maintenance company's name		Maintenance Date	
	Address		Tel	
	Maintenance documents No.		Maintenance personnel to sign	
The 3 time	Maintenance company's name		Maintenance Date	
	Address		Tel	
	Maintenance documents No.		Maintenance personnel to sign	

