

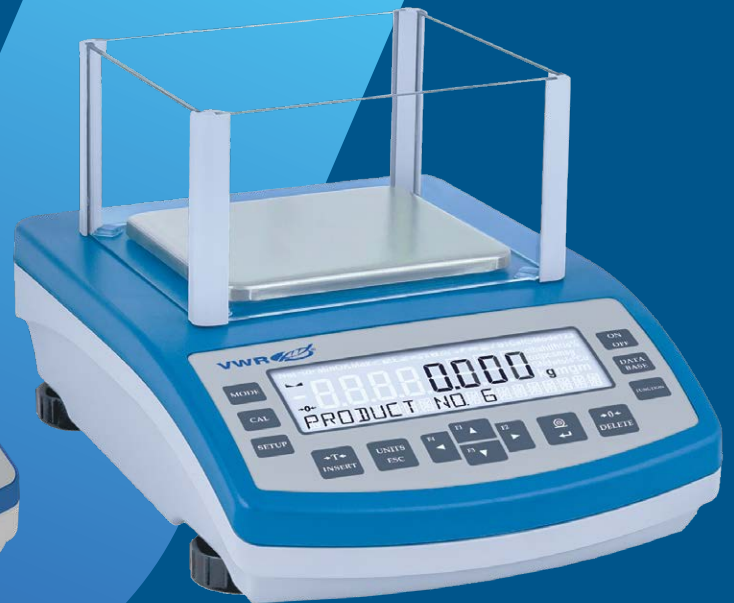
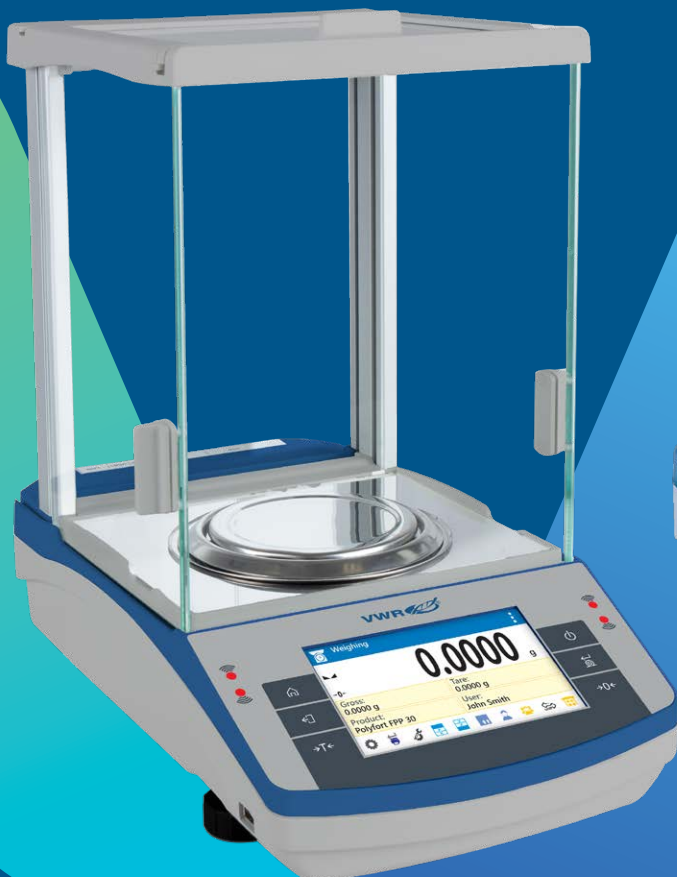
# VWR® balances

01. FIVE-YEAR WARRANTY  
ON ALL STANDARD  
BALANCES

02. THREE-YEAR  
WARRANTY ON  
MICROBALANCES AND  
MOISTURE ANALYZERS

03. AFFORDABLY PRICED  
WITH ADVANCED  
FEATURES

04. ALL BALANCES  
AVAILABLE WITH ISO  
17025:2017 CERTIFICATE  
OF CALIBRATION



# Professional weighing unsurpassed accuracy

THREE-YEAR  
WARRANTY

## VWR® U-SERIES MICRO BALANCES

- **Unrivaled repeatability:** The best weighing accuracy and repeatability - with  $sd \leq 1d$  combined with USP regulations conformity (section 41 and 1251) make the balances a new standard for mass measurement quality.
- **Internal automatic calibration:** Innovative two-point internal calibration system has been designed to provide the maximum measurement accuracy and to minimize linearity errors.
- **Built-in proximity sensor** allows users the opportunity to have touch-free options performed by motioning over the sensors (e.g., printing results).
- **Ambient conditions monitoring:** The U-Series balances offer a unique ambient conditions monitoring solution applied to supervise environmental conditions at the balance workplace. The monitoring is carried out in real time with the use of internal sensors, monitoring several different parameters: temperature, humidity, atmospheric pressure and air density.
- **Level detection:** Precise measurement requires level control for accurate weighing performance. The U-Series level monitoring system automatically records any balance deviation on the level tolerance and is signaled by changing colors.
- **Multiple interfaces** allow for easy connections between your balance and a computer or printer via the wireless connection, RS232 (two), Ethernet, USB-A (two), and 4-In/4-Out interfaces.
- **GLP documentation** is standard on the U-Series Micro Balances. Custom printouts can include balance ID, user, date, time, software version, measurement mode, results and signature line allowing for complete GLP documentation.



### Specifications

Calibration Adjustment:	Internal, Automatic
Operating Temperature:	10–40°C (50–104°F)
Relative Humidity:	40–80% (non-condensing)
Sensitivity Drift:	1ppm°C, 10–40°C
Interface:	RS232 (two), USB-A (two), Ethernet, 4-In/4-Out, Wi-Fi
Display:	5" color, resistive touch screen
Power Requirements:	Input: 100–240 VAC, 50–60 Hz, 0.6 A
Unit Dimensions, L x W x H, cm (in.):	41.1 x 16.3 x 18.3 cm (16 x 6.4 x 7.2")
Weighing Chamber Dimensions:	ø90x90 mm
Net Weight, kg (lbs.):	9.1 kg (20 lbs)

## features

- Large 12.7 cm (5") color, resistive touch screen display
- Simple operation
- Automatic motorized door
- Level detection system
- Ambient conditions monitor
- Internal automatic calibration
- Competitively priced

Model	Capacity	Readability	Repeatability [5% Max]	Repeatability	Linearity	Stabilization Time	Min. Weight (U=1%, k=2)	Min. Weight (USP)	Pan Size	Cat. No.
<b>Ultra-Microbalance Models</b>										
VWR-2.1U	2.1 g	0.1 µg	0.35 µg	0.6 µg	±1.5 µg	>10 s	0.03 mg	0.3 mg	1.6 cm (0.63")	76321-866
VWR-6.1U	6.1 g	0.1 µg	0.4 µg	0.8 µg	±1.5 µg	>10 s	0.04 mg	0.4 mg	1.6 cm (0.63")	76446-824
<b>Microbalance Models</b>										
VWR-2U	2.1 g	1 µg	0.8 µg	1.5 µg	±3 µg	max 8 s	0.082 mg	0.82 mg	1.6 cm (0.63")	76321-868
VWR-5U	5.1 g	1 µg	1.2 µg	2.4 µg	±5 µg	max 8 s	0.12 mg	1.2 mg	2.6 cm (1.02")	76321-870
VWR-11U	11 g	1 µg	1.6 µg	3 µg	±6 µg	max 10 s	0.18 mg	1.8 mg	2.6 cm (1.02")	76321-872
VWR-21U	21 g	1 µg	1.6 µg	4 µg	±7 µg	max 10 s	0.2 mg	2 mg	2.6 cm (1.02")	76321-874
VWR-31U	31 g	1 µg	2.5 µg	6.5 µg	±8 µg	max 10 s	0.24 mg	2.4 mg	2.6 cm (1.02")	76446-826

# Advanced weighing features for accurate results



## VWR® X-SERIES MICRO BALANCES

- **Faster measurements:** The X-Series balances deliver faster measurements with a top-of-the-line CPU. The processor delivers noticeable performance improvements, including faster operation and shorter stabilization time while retaining high repeatability values.
- **Internal automatic calibration** to aid in accurate and repeatable measurements.
- **Built-in proximity sensor** allows users the opportunity to have touch-free options performed by motioning over the sensors (e.g., printing results).
- **Ambient conditions monitoring:** The X-Series balances offer a unique ambient conditions monitoring solution applied to supervise environmental conditions at the balance workplace. The monitoring is carried out in real time with the use of internal sensors, monitoring several different parameters: temperature, humidity, atmospheric pressure and air density.
- **Level detection:** Precise measurement requires level control for accurate weighing performance. The X-Series level monitoring system automatically records any balance deviation on the level tolerance and is signaled by changing colors.
- **Integrated antistatic ionizer:** The X-Series balances (XA models only) include a built-in antistatic ionizer which neutralizes electric charges inside the weighing chamber upon placing the sample in it.
- **Automatic doors:** Quiet automatic doors allow for easy sample access (XA models only). Spacious and easy-to-operate weighing chamber enables comfort during the measurement process.
- **Multiple interfaces** allow for easy connections between your balance and a computer or printer via the wireless connection, RS232 (two), Ethernet, USB-A (two), and 4-In/4-Out interfaces.

### Specifications

Calibration Adjustment:	Internal, Automatic
Operating Temperature:	10–40°C (50–104°F)
Relative Humidity:	40–80% (non-condensing)
Sensitivity Drift:	1ppm°C, 10–40°C
Interface:	RS232 (two), USB-A (two), Ethernet, 4-In/4-Out, Wi-Fi
Display:	5" color, resistive touch screen
Power Requirements:	100-240 VAC, 50-60 Hz, 0.6 A
Unit Dimensions, L x W x H, cm (in.):	54.2 x 20.6 x 30.3 cm (21.3 x 8.1 x 12")
Net Weight, kg (lbs.):	9.8 kg (21.6 lbs)
Internal Chamber Dimensions:	19.9 x 17 x 21.7 cm (7.8 x 6.7 x 8.5")

## features

- Advanced microprocessor technology
- Large 12.7 cm (5") color, resistive touch screen display
- Simple operation
- Automatic motorized door (XA models only)
- Built-in static ionizer (XA models only)
- Level detection system
- Ambient conditions monitor

Model	Capacity	Readability	Linearity	Repeatability [5% Max]	Repeatability	Min. Weight (U=1%, k=2)	Min. Weight (USP)	Stabilization Time	Pan Size	Cat. No.
<b>Microbalance XA Models</b>										
VWR-6XA	6.1 g	1 µg	±7 µg	1.5 µg	3 µg	0.16 mg	1.6 mg	3.5 s	3 cm (1.2")	76321-898
VWR-6.21XA	6/21 g	1/2 µg	±9 µg	2 µg	5 µg	0.26 mg	2.6 mg	3.5 s	3 cm (1.2")	76321-900
VWR-21XA	21 g	1 µg	±9 µg	2 µg	5 µg	0.26 mg	2.6 mg	3.5 s	3 cm (1.2")	76321-902
VWR-21.52XA	21/52 g	2/5 µg	±20 µg	2.4 µg	8 µg	0.3 mg	3 mg	3.5 s	3 cm (1.2")	76321-904
VWR-52XA	52 g	5 µg	±20 µg	3.4 µg	8 µg	0.44 mg	4.4 mg	3.5 s	3 cm (1.2")	76321-906
VWR-53XA	53 g	1 µg	±20 µg	2.4 µg	8 µg	0.3 mg	3 mg	3.5 s	3 cm (1.2")	76458-484
<b>Microbalance XC Models</b>										
VWR-6XC	6.1 g	1 µg	±7 µg	1.5 µg	3 µg	0.16 mg	1.6 mg	3.5 s	3 cm (1.2")	76321-876
VWR-6.21XC	6/21 g	1/2 µg	±9 µg	2 µg	5 µg	0.26 mg	2.6 mg	3.5 s	3 cm (1.2")	76321-878
VWR-21XC	21 g	1 µg	±9 µg	2 µg	5 µg	0.26 mg	2.6 mg	3.5 s	3 cm (1.2")	76321-880
VWR-21.51XC	21/52 g	2/5 µg	±20 µg	1.4 µg	8 µg	0.3 mg	3 mg	3.5 s	3 cm (1.2")	76321-882
VWR-51XC	52 g	5 µg	±20 µg	3.4 µg	8 µg	0.44 mg	4.4 mg	3.5 s	3 cm (1.2")	76321-896
VWR-53XC	53 g	1 µg	±20 µg	2.4 µg	8 µg	0.3 mg	3 mg	3.5 s	3 cm (1.2")	76458-482

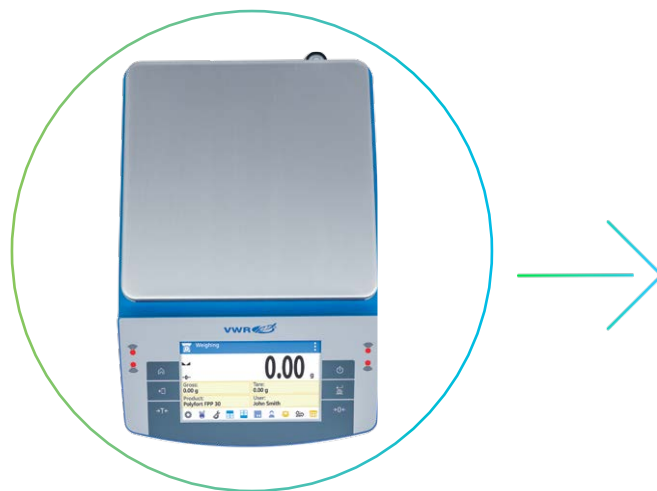
# Advanced weighing features for accurate results

## VWR® T-SERIES BALANCES

- **Simple operation** using a 12.7 cm (5") color, capacitive touch screen allows for easy customization of the menu options and personalization of the home screen.
- **Internal automatic calibration and adjustment** with three internal calibration options:
  - Temperature-activated calibrations initiate with a 3°C change in ambient temperature
  - Time-activated calibrations may be programmed from one-hour to 12-hour intervals
  - Manually activate the internal calibration function
- **Built-in proximity sensor** allows users the opportunity to have touch-free options performed by motioning over the sensors (e.g., printing results).
- **User-friendly draft shield** is standard on semi-micro and analytical models. The internal dimensions [19 x 19 x 22.2 cm (7.5 x 7.5 x 8.7")] and three sliding doors allow for easy access to the chamber. The draft shield doors, stainless steel weigh pan, and draft chamber floor are easy to remove for cleaning. The dual-click system allows for tool-free disassembly of the weighing chamber.
- **GLP documentation** is standard on the VWR® T-Series Balances. Customized printouts can include balance ID, user, date, time, software version, measurement mode, results and signature line, allowing for complete GLP documentation.
- **Multiple interfaces** allow for easy connections between your balance and a computer or printer via the wireless connection, RS232 (two), Ethernet, and USB (A and B) interfaces.
- **Aluminum base:** Aluminum base in all analytical models guarantees consistent weighing system stability.
- **Level sensing system:** The built-in tilt sensors and level indicator on the display simplifies leveling your balance (available on analytical models only).
- **Five-year warranty** offered on all VWR T-Series Balances.

## Specifications

Calibration Adjustment:	Internal, Automatic
Operating Temperature:	10–40°C (50–104°F)
Relative Humidity:	40–80% (non-condensing)
Interface:	RS232 (two), USB-A & USB-B, ethernet, wireless
Display:	5" color, capacitive touch screen
Power Requirements:	Input: 100-240 VAC, 50-60 Hz, 0.6 A
Unit Dimensions, L x W x H, cm (in.):	
0.01mg & 0.1mg Models	35.1 x 20.6 x 34.8 cm (13.8 x 8.1 x 13.7")
0.001 g and below Models	33.3 x 20.6 x 10 cm (13.1 x 8.1 x 4")
Net Weight:	0.01 mg and 0.1 mg models: 7.3 kg (16 lb) 0.001 g models: 3.9 kg (8.6 lb) 0.01 g models: 4.5 kg (9.9 lb)
Internal Chamber Dimensions: 0.01 mg & 0.1mg Models	19 x 19 x 22.2 cm (7.5 x 7.5 x 8.7")



**FIVE-YEAR  
WARRANTY**

## features

- Large 12.7 cm (5") color, capacitive touch screen display
- Internal automatic calibration
- Multi-language
- Two RS232, two USB (types A and B), Ethernet and wireless ports for easy connection to computer or printer
- Internal memory secures up to 500,000 weighing records
- Stainless steel pan for easy cleaning
- Easy-to-clean draft shield with tool-free, easy-to-remove draft shield panes on all analytical models (0.01 mg and 0.1 mg)
- Competitively priced
- Option to purchase with ISO 17025:2017 Calibration Certificate. Provides comprehensive and traceable results.
- Five-year warranty



Model	Capacity	Readability	Linearity	Repeatability [5% Max]	Repeatability	Stabilization Time	Pan Size	Cat. No.	Cat. No. w/ Cal Cert*
<b>Semi Micro &amp; Analytical Models</b>									
VWR-105TC	120 g	0.01 mg	±0.07 mg	0.02 mg	0.04 mg	2 s	9.0 cm (3.5")	76446-794	76458-486
VWR-205TC	82/220 g	0.01/0.1 mg	±0.05/0.2mg	0.02 mg	0.1 mg	2 s	9.0 cm (3.5")	76446-796	76458-488
VWR-160TC	160 g	0.1 mg	±0.2 mg	0.09 mg	0.1 mg	2 s	10.0 cm (4")	76446-798	76458-490
VWR-220TC	220 g	0.1 mg	±0.2 mg	0.09 mg	0.1 mg	2 s	10.0 cm (4")	76446-800	76458-492
VWR-310TC	310 g	0.1 mg	±0.2 mg	0.12 mg	0.15 mg	2.5 s	10.0 cm (4")	76446-802	76458-494
VWR-520TC	520 g	0.1 mg	±0.4 mg	0.12 mg	0.4 mg	2.5 s	10.0 cm (4")	76446-804	76458-496
<b>Precision Models</b>									
VWR-363TC	360 g	0.001 g	±0.002 g	0.5 mg	0.001 g	2 s	12.8 x 12.8 cm (5 x 5")	76300-070	76378-460
VWR-603TC	600 g	0.001 g	±0.003 g	0.5 mg	0.0015 g	2 s	12.8 x 12.8 cm (5 x 5")	76300-072	76378-462
VWR-1003TC	1000 g	0.001 g	±0.003 g	0.5 mg	0.0015 g	2 s	12.8 x 12.8 cm (5 x 5")	76300-074	76378-464
VWR-3003TC	3000 g	0.001 g	±0.004 g	0.5 mg	0.0015 g	3 s	12.8 x 12.8 cm (5 x 5")	76446-806	76458-498
VWR-2102TC	2100 g	0.01 g	±0.02 g	0.005 g	0.008 g	1.5 s	19.5 x 19.5 cm (7.7 x 7.7")	76300-076	76378-466
VWR-4502TC	4500 g	0.01 g	±0.02 g	0.005 g	0.008 g	1.5 s	19.5 x 19.5 cm (7.7 x 7.7")	76300-078	76378-468
VWR-6002TC	6000 g	0.01 g	±0.03 g	0.005 g	0.008 g	1.5 s	19.5 x 19.5 cm (7.7 x 7.7")	76300-080	76378-470
VWR-8102TC	8100 g	0.01 g	±0.03 g	0.005 g	0.01 g	1.5 s	19.5 x 19.5 cm (7.7 x 7.7")	76446-808	76458-500
VWR-10102TC	10100 g	0.01 g	±0.03 g	0.005 g	0.012 g	1.5 s	19.5 x 19.5 cm (7.7 x 7.7")	76300-082	76378-472

\*Cat.No. w/ Cal Cert includes the balance and an ISO 17025:2017 Certificate of Calibration



# Reliable results in any condition

**FIVE-YEAR WARRANTY**

## VWR® B2T-SERIES BALANCES

- **Simple operation** using a 12.7 cm (5") color, capacitive touch screen allows for easy customization of the menu options and personalization of the home screen.
- **Built-in proximity sensor** allows users the opportunity to have touch-free options performed by motioning over the sensors (e.g., printing results).
- **Product memory** allows for creation of up to 5,000 products for easy organization of items being weighed in a lab.
- **Multiple weigh modes** let a user scroll between the weigh modes including grams and mg. In addition, the balance can be locked to display only certain modes during use.
- **External calibration** using the touch display is easy. Simply press the calibration button on the display to activate the calibration procedure. Calibration mass (required) is available separately.
- **Multiple interfaces** allow for easy connections between your balance and a computer or printer via the RS232 (two), Ethernet, and USB (A and B) interfaces.



- **Worry-free:** The VWR® B2T-Series Balances are covered by a five-year warranty.
- **Ergonomic mechanical design:** The analytical balances (0.1 mg) feature a spacious weighing chamber, and the open-door clearance facilitate easy access to the weighing pan. The dual-click system allows tool-free assembly and disassembly of the weighing chamber.
- **Aluminum Base:** The aluminum base on all analytical models guarantees consistent weighing system stability.

### Specifications

Calibration Adjustment:	External
Operating Temperature:	10–40°C (50–104°F)
Relative Humidity:	40–80% (non-condensing)
Interface:	RS232 (two), USB-A & USB-B, Ethernet
Display:	5" color, capacitive touch screen
Power Requirements:	100-240 VAC, 50-60 Hz
Unit Dimensions, L x W x H: 0.1 mg Models	35.1 x 20.6 x 34.8 cm (13.8 x 8.1 x 13.7")
0.001 g and below Models	33.3 x 20.6 x 10 cm (13.1 x 8.1 x 4")
Net Weight:	0.1 mg Models: 7.3 kg (16.1 lbs) 0.001 g Models: 3.9 kg (8.6 lbs) 0.01 g Models: 4.5 kg (9.9 lbs) 0.1 g Models: 2.2 kg (4.8 lbs)
Internal Chamber Dimensions: 0.1mg Models	19 x 19 x 22.2 cm (7.5 x 7.5 x 8.7")

## features

- Advanced microprocessor technology
- Large 12.7 cm (5") color, capacitive touch screen display
- Simple operation
- Option to purchase with ISO 17025:2017 Calibration Certificate. Provides comprehensive and traceable results.
- Two RS232 and two USB (types A and B) ports for easy connection to computer or printer
- Stainless steel pan for easy cleaning
- External calibration for accurate results
- Priced right

Model	Capacity	Readability	Linearity	Repeatability	Stabilization Time	Pan Size	Cat. No.	Cat. No. w/ Cal Cert*
<b>Analytical Models</b>								
VWR-60B2T	62 g	0.1 mg	±0.2 mg	0.1 mg	2 s	10.0 cm (4")	76458-474	76458-548
VWR-160B2T	160 g	0.1 mg	±0.2 mg	0.1 mg	2 s	10.0 cm (4")	76458-476	76458-550
VWR-220B2T	220 g	0.1 mg	±0.2 mg	0.1 mg	2 s	10.0 cm (4")	76458-478	76458-552
VWR-310B2T	310 g	0.1 mg	±0.3 mg	0.15 mg	2.5 s	10.0 cm (4")	76458-480	76458-554
<b>Precision Models</b>								
VWR-363B2T	360 g	0.001 g	±0.002 g	0.001 g	2 s	12.8 x 12.8 cm (5 x 5")	76300-086	76378-418
VWR-603B2T	600 g	0.001 g	±0.003 g	0.0015 g	2 s	12.8 x 12.8 cm (5 x 5")	76300-088	76378-420
VWR-1003B2T	1000 g	0.001 g	±0.003 g	0.0015 g	2 s	12.8 x 12.8 cm (5 x 5")	76300-090	76378-422
VWR-2002B2T	2000 g	0.01 g	±0.03 g	0.015 g	2 s	19.5 x 19.5 cm (7.7 x 7.7")	75870-334	76378-424
VWR-4502B2T	4500 g	0.01 g	±0.02 g	0.01 g	1.5 s	19.5 x 19.5 cm (7.7 x 7.7")	76300-092	76378-426
VWR-6002B2T	6000 g	0.01 g	±0.03 g	0.01 g	1.5 s	19.5 x 19.5 cm (7.7 x 7.7")	76300-094	76378-428
VWR-6001B2T	6000 g	0.1 g	±0.3 g	0.1 g	2 s	19.5 x 19.5 cm (7.7 x 7.7")	75870-328	76378-430
VWR-10001B2T	10000 g	0.1 g	±0.3 g	0.08 g	3 s	19.5 x 19.5 cm (7.7 x 7.7")	75870-330	76378-432
VWR-20001B2T	20000 g	0.1 g	±0.3 g	0.1 g	3 s	19.5 x 19.5 cm (7.7 x 7.7")	75870-332	76378-434

\*Cat.No. w/ Cal Cert includes the balance and an ISO 17025:2017 Certificate of Calibration

# High precision weighing with advanced features

## VWR® A-SERIES BALANCES

- **Internal automatic calibration and adjustment** with three internal calibration options:
  - Temperature-activated calibrations initiate with a 3°C change in ambient temperature.
  - Time-activated calibrations may be programmed from one-hour to twelve-hour intervals.
  - Press the CAL key to manually activate the calibration function.
- **Menu-driven operation** provides dedicated setup, mode, function and database keys along with navigational arrows for easy access to weighing features, applications and stored data.
- **Advanced communication features** allow the balances to connect to a printer or network via the two RS232 or USB (A and B) ports. Data may be transferred manually by pressing the print/enter key or programming the balance to send information automatically at designated time intervals and stability settings.
- **Application modes** optimize the performance of your balance with one of 11 application modes: basic weighing, part counting, check weighing, dosing, deviations, density determination (solids and liquids), animal weigh, statistics, totalizing (formulation) and peak hold.
- **User-friendly draft shield** is standard on semi-micro and analytical models. The internal dimensions [19 x 19 x 22.2 cm (7.5 x 7.5 x 8.7")] and three sliding doors allow for easy access to the chamber. The draft shield doors, stainless steel weigh pan and draft chamber floor are easy to remove for cleaning. The dual-click system allows tool-free assembly and disassembly of the weighing chamber.
- **GLP documentation** is standard on the VWR® A-Series Balances. Custom printouts can include balance ID, user, date, time, software version, measurement mode, results and signature line, allowing for complete GLP documentation.
- **Economical**, ideal for organizations demanding precision and performance on a limited budget.
- **Five-year warranty** offered on all VWR A-Series Balances.



### Specifications

Calibration Adjustment:	Internal, Automatic
Operating Temperature:	10–40°C (50–104°F)
Relative Humidity:	40–80% (non-condensing)
Interface:	RS232 (two), USB-A & USB-B
Display:	White backlit LCD
Power Requirements:	100-240 VAC, 50-60 Hz
Unit Dimensions, L x W x H:	
0.01 mg & 0.1 mg Models	33.5 x 20.6 x 34.8 cm (13.8 x 8.1 x 13.7")
0.001 mg and below Models	33.3 x 20.6 x 10 cm (13.1 x 8.1 x 4")
Net Weight:	0.01 & 0.1 mg Models: 7.3 kg (16.1 lbs) 0.001 g Models: 3.9 kg (8.6 lbs) 0.01 g Models: 4.5 kg (9.9 lbs)
Internal Chamber Dimensions: 0.01mg & 0.1mg Models	19 x 19 x 22.2 cm (7.5 x 7.5 x 8.7")

**FIVE-YEAR  
WARRANTY**

## features

- Internal automatic calibration
- Easy-to-read, adjustable, backlit display
- Simple menu-driven navigation
- Multi-language
- Overload protection reduces the risk of damage from misuse
- Adjustable ambient condition settings for difficult environments
- Internal memory secures up to 100,000 weighing records
- Two RS232 and two USB (types A and B) communication options
- Stainless steel pans, spill ring and draft chamber floor removable for easy cleaning
- Easy-to-clean draft shield with tool-free, removable draft shield panes on all semi-micro and analytical models (0.01 mg and 0.1 mg)
- Five-year warranty
- Option to purchase with ISO 17025:2017 Calibration Certificate. Provides comprehensive and traceable results



Model	Capacity	Readability	Linearity	Repeatability [5% Max]	Repeatability	Stabilization Time	Pan Size	Cat. No.	Cat. No. w/ Cal Cert*
<b>Semi-Micro &amp; Analytical Models</b>									
VWR-105AC	120 g	0.01 mg	±0.07 mg	0.02 mg	0.05 mg	2 s	9.0 cm (3.5")	76446-810	76458-518
VWR-205AC	82/220 g	0.01/0.1 mg	±0.05/0.2 mg	0.02 mg	0.1 mg	2 s	9.0 cm (3.5")	76446-812	76458-520
VWR-160AC	160 g	0.1 mg	±0.2 mg	0.09 mg	0.1 mg	2 s	10.0 cm (4")	76446-814	76458-522
VWR-220AC	220 g	0.1 mg	±0.2 mg	0.09 mg	0.1 mg	2 s	10.0 cm (4")	76446-816	76458-524
VWR-310AC	310 g	0.1 mg	±0.2 mg	0.12 mg	0.15 mg	2.5 s	10.0 cm (4")	76446-818	76458-526
VWR-520AC	520 g	0.1 mg	±0.4 mg	0.12 mg	0.4 mg	2.5 s	10.0 cm (4")	76446-820	76458-528
<b>Precision Models</b>									
VWR-363AC	360 g	0.001 g	±0.002 g	0.5 mg	0.001 g	2 s	12.8 x 12.8 cm (5 x 5")	10204-966	76329-734
VWR-603AC	600 g	0.001 g	±0.003 g	0.5 mg	0.0015 g	2 s	12.8 x 12.8 cm (5 x 5")	76300-142	76329-736
VWR-1003AC	1000 g	0.001 g	±0.003 g	0.5 mg	0.0015 g	2 s	12.8 x 12.8 cm (5 x 5")	76300-144	76329-738
VWR-2102AC	2100 g	0.01 g	±0.02 g	0.005 g	0.008 g	1.5 s	19.5 x 19.5 cm (7.7 x 7.7")	76300-146	76329-740
VWR-4502AC	4500 g	0.01 g	±0.02 g	0.005 g	0.008 g	1.5 s	19.5 x 19.5 cm (7.7 x 7.7")	10204-968	76329-742
VWR-6002AC	6000 g	0.01 g	±0.03 g	0.005 g	0.008 g	1.5 s	19.5 x 19.5 cm (7.7 x 7.7")	10204-970	76329-960
VWR-8102AC	8100 g	0.01 g	±0.03 g	0.005 g	0.01 g	1.5 s	19.5 x 19.5 cm (7.7 x 7.7")	76446-822	76458-530
VWR-10102AC	10100 g	0.01 g	±0.03 g	0.005 g	0.012 g	1.5 s	19.5 x 19.5 cm (7.7 x 7.7")	76300-152	76329-962

\*Cat.No. w/ Cal Cert includes the balance and an ISO 17025:2017 Certificate of Calibration



# Affordable reliability for a broad range of applications



## VWR® B2-SERIES BALANCES

- **Menu-driven operation** provides dedicated setup, mode, function and database keys along with navigational arrows for easy access to weighing features, applications, and data.
- **Calibration** takes place at the touch of a key (CAL). The VWR® B2-Series Balances guide you through the calibration procedure informing you when to unload and load the pan with the predetermined calibration weight. Calibration weight available separately.
- **Option to purchase with ISO 17025:2017 Calibration Certificate.** Provides comprehensive and traceable results.
- **RS232 interface** makes it easy to connect the B2-series balances to a computer or printer to quickly print your data reports.
- **Animal weighing** makes an often difficult task easier. The B2-series balances take multiple weight readings and then locks the average weight on the display.
- **Percent weighing** measures the percentage of a sample proportional to an initial reference weight and calculates the increase or decrease in percentage value.
- **Parts counting** feature makes the B2-series balances ideal for inventory control. Simply place the reference quantity (1, 10, 25, 50 or 100 pieces) on the pan and the balance will do the rest.
- **Large LCD display** and onscreen symbols inform you of real-time functions including working mode and connection status.
- **Three-door draft shield** is standard on all analytical and milligram models. The internal dimensions and three sliding doors allow for easy access to the chamber. The stainless steel weigh pan, draft spill ring and chamber door (0.1 mg and 0.001 g models) are easy to clean.
- **Economical:** the B2-series balances are the answer for organizations demanding precision on a limited budget.
- **Five-year warranty** offered on all the B2-series balances.

## features

- Easy-to-read, adjustable backlit display
- Four databases: users, products, weighings and tares
- Overload protection reduces the risk of damage from misuse
- Adjustable filter settings for difficult environments
- RS232 communication option for connection to a printer or computer
- Stainless steel components for easy cleaning
- Five-year warranty

### Specifications

Calibration Adjustment:	External
Operating Temperature:	10–40°C (50–104°F)
Relative Humidity:	40–80% (non-condensing)
Interface:	RS232
Display:	White backlit LCD
Power Requirements:	100-240 VAC, 50-60 Hz
Unit Dimensions, L x W x H:	
0.1 mg Models	35.1 x 20.6 x 34.8 cm (13.8 x 8.1 x 13.7")
0.001 g Models	33.3 x 20.6 x 28 cm (13.1 x 8.1 x 4")
0.01 g Models	33.3 x 20.6 x 10 cm (13.1 x 8.1 x 4")
Net Weight:	0.1 mg Models: 7.3 kg (16.1 lb) 0.001 g Models: 5.3 kg (9.9 lb) 0.01 g Models: 4.5 kg (9.9 lb)
Internal Chamber Dimensions:	
0.1 mg Models:	19 x 19 x 22.2 cm (7.5 x 7.5 x 8.7")
0.001 mg Models:	16 x 16.8 x 16.5 cm (6.25 x 6.6 x 6.5")

Model	Capacity	Readability	Linearity	Repeatability	Stabilization Time	Pan Size	Cat. No.	Cat. No. w/Cal Cert*
<b>Analytical Models</b>								
VWR-60B2	60 g	0.1 mg	±0.2 mg	0.1 mg	3.5 s	10.0 cm (4")	76519-304	76519-310
VWR-120B2	120 g	0.1 mg	±0.2 mg	0.1 mg	3.5 s	10.0 cm (4")	76519-306	76519-312
VWR-210B2	210 g	0.1 mg	±0.2 mg	0.1 mg	3.5 s	10.0 cm (4")	76519-308	76519-314
<b>Precision Models</b>								
VWR-203B2	200 g	0.001 g	±0.002 g	0.001 g	2 s	12.8 x 12.8 cm (5 x 5")	75802-864	76378-408
VWR-403B2	400 g	0.001 g	±0.002 g	0.001 g	2 s	12.8 x 12.8 cm (5 x 5")	75802-866	76378-410
VWR-503B2	500 g	0.001 g	±0.002 g	0.001 g	2 s	12.8 x 12.8 cm (5 x 5")	75802-868	76378-412
<b>Precision Models, High Capacity</b>								
VWR-4002B2	4000 g	0.01 g	±0.02 g	0.01 g	1.5 s	19.5 x 19.5 cm (7.7 x 7.7")	75802-870	76378-444
VWR-5002B2	5000 g	0.01 g	±0.02 g	0.01 g	1.5 s	19.5 x 19.5 cm (7.7 x 7.7")	75802-872	76378-446

\*Cat.No. w/ Cal Cert includes the balance and an ISO 17025:2017 Certificate of Calibration

# Entry level balance for basic weighing needs

**FIVE-YEAR WARRANTY**

## VWR® E-SERIES BALANCES

- **Economical.** The VWR® E-Series Balances are the answer for organizations demanding performance on a limited budget.
- **Simple operation** through five dedicated keys (On/Off, CAL, Print, Unit and Tare) for quick, effortless weighing.
- **Bright white backlit display** for easy viewing under any lighting conditions. In well-lit environments the backlight can be turned off for better viewing.
- **Versatile** for bench or field use. Operate E-series balances on the bench top with standard AC power (adapter included). Six AA batteries allow convenient use in the field or when moving from lab to lab. In the battery operation mode, the unit will automatically shut off after five minutes and a low-battery indicator will alert the operator before power expires.
- **Built to last** with construction designed to endure challenging environments from teaching labs to light industrial use.
- **Calibration** takes place at the touch of a key (CAL). Calibration weight required.
- **Five-year warranty** offered on all the E-series balances.



### Specifications

<b>Calibration Adjustment:</b>	External
<b>Operating Temperature:</b>	15–35°C (50–86°F)
<b>Relative Humidity:</b>	40–80% (non-condensing)
<b>Interface:</b>	RS232
<b>Display:</b>	Backlit LCD
<b>Power Requirements:</b> 1000–6000g Capacity	100–240 VAC, 50–60 Hz, 12 VDC 6 x AA batteries (batteries not included)
10,000 & 20,000g Capacity	120 VAC, 50–60 Hz, 12 VDC internal rechargeable battery
<b>Unit Dimensions, L x W x H:</b> 1000–6000g Capacity	25.8 x 18.8 x 8.2 cm (10.25 x 7.5 x 3.25")
10,000 & 20,000g Capacity	33.0 x 21.5 x 9.0 cm (8.5 x 13 x 3.5")
<b>Net Weight:</b> 1000–6000g Capacity	2 kg (4.5 lbs)
10,000 & 20,000g Capacity	3 kg (6.5 lbs)

## features

- Bright white backlit display
- Simple operation
- Front positioned level indicator for easy balance leveling
- Overload protection
- Below balance weighing for specific gravity determination (except Cat. No. 10205-000)
- Auto shut off in battery operation mode
- RS232 for easy connection to a computer or printer
- Stainless steel pans for easy cleaning
- Automatic external calibration for accurate results
- Competitively priced
- Five-year warranty

Model	Capacity	Readability	Linearity	Repeatability (Std. Dev.)	Stabilization Time	Pan Size	Cat. No.	Cat. No. w*/ Cal Cert
VWR-1002E	1000 g	0.01 g	±0.03 g	0.01 g	3 s	13.5 x 12.0 cm (5.25 x 4.7")	10204-990	76378-436
VWR-3002E	3000 g	0.01 g	±0.03 g	0.01 g	3 s	17.0 x 18.0 cm (6.7 x 7.1")	10204-992	76378-452
VWR-3001E	3000 g	0.1 g	±0.3 g	0.1 g	2 s	17.0 x 18.0 cm (6.7 x 7.1")	10204-994	76378-454
VWR-6001E	6000 g	0.1 g	±0.3 g	0.1 g	2 s	17.0 x 18.0 cm (6.7 x 7.1")	10204-996	76378-456
VWR-10001E	10,000 g	0.1 g	±0.3 g	0.1 g	2 s	20.0 x 21.5 cm (8 x 8.5")	10204-998	76378-458
VWR-20001E	20,000 g	0.1 g	±0.3 g	0.1 g	3 s	20.0 x 21.5 cm (8 x 8.5")	10205-000	76378-350

\*Cat.No. w/ Cal Cert includes the balance and an ISO 17025:2017 Certificate of Calibration

# Anywhere that accuracy and portability is required



## VWR® P2-SERIES BALANCES

- **Versatile:** The VWR® P2-Series Balances are ideal for educational, light industrial and general laboratory applications or anywhere that accuracy and portability is required.
- **Portable:** Operate in the field or move from lab to lab. All P2-series balances come complete with a power adapter and an internal rechargeable battery. Automatic shut-off mode conserves battery life and the low-battery indicator ensures sample weighing is not interrupted.
- **Multiple working modes** include weighing, parts counting, percent weighing, peak hold and totalizing.
- **Stainless steel weigh pans** are easy to remove for cleaning.
- **Rugged, built to last** for every environment from teaching labs to light industrial use.
- **Economical:** The P2-series balances are the solution for organizations with limited budgets.
- **Five-year warranty** offered on all P2-Series Balances.
- **Calibration Certificate.** Option to purchase P2-series balances with a ISO 17025:2017 Calibration Certificate.



### Specifications

<b>Operating Temperature:</b>	15–30°C (50–86°F)
<b>Relative Humidity:</b>	40–80% (non-condensing)
<b>Multiple Interface options</b>	Interface: RS232, USB (A and B) 30 kg and 60 kg model: RS232
<b>Display:</b>	Backlit LCD
<b>Unit Dimensions, L x W x H:</b>	P2 Models: 23 x 16 x 7 cm (9 x 6.3 x 2.7") 0.01 g and 0.1 g P2.H Model: 33.3 x 20.6 x 9.7 cm (13.1 x 8.1 x 3.8") 0.5 g P2.H Model: 44.5 x 30 x 7 cm (17.5 x 11.8 x 2.7") 1g P2.H Model: 55 x 50.2 x 11 cm (21.6 x 19.8 x 4.3")
<b>Multiple Net Weights:</b>	Net Weight, P2 Models: 1.3 kg (3 lb) P2.H Models: 3.6 kg (7.9 lb) 30 kg Model: 5.2 kg (11.5 lb) 60 kg Model: 12.5 kg (27.5 lb)
<b>Power Requirements:</b>	100–240 VAC, 50–60 Hz

## features

- Large, easy-to-read LCD backlit display
- Simple operation
- Auto shut-off mode
- Low-battery indicator
- Externally calibrated
- Overload protection
- Economical

Model	Capacity	Calibration Type	Readability	Linearity	Repeatability	Stabilization Time	Pan Size	Cat. No.	Cat. No. w/Cal Cert*
<b>Precision Models</b>									
VWR-203P2	200 g	External	0.001 g	±0.004 g	0.002 g	2 s	10.0 cm (4")	76175-400	76378-362
VWR-602P2	600 g	External	0.01 g	±0.02 g	0.01 g	2 s	12.8 x 12.8 cm (5 x 5")	76175-402	76378-364
VWR-2002P2	2000 g	External	0.01 g	±0.03 g	0.01 g	2 s	12.8 x 12.8 cm (5 x 5")	76175-404	76378-366
VWR-3101P2	3100 g	External	0.1 g	±0.3 g	0.1 g	2 s	12.8 x 12.8 cm (5 x 5")	76175-276	76378-368
<b>Precision Models, High-Capacity</b>									
VWR-2002P2.H	2000 g	External	0.01 g	±0.03 g	0.01 g	3 s	19.5 x 19.5 cm (7.7 x 7.7")	76480-252	76480-262
VWR-2002P2.HC	2000 g	Internal	0.01 g	±0.03 g	0.015 g	3 s	19.5 x 19.5 cm (7.7 x 7.7")	76480-254	76480-264
VWR-6001P2.H	6000 g	External	0.1 g	±0.2 g	0.1 g	3 s	19.5 x 19.5 cm (7.7 x 7.7")	76175-278	76378-370
VWR-6001P2.HC	6000 g	Internal	0.1 g	±0.2 g	0.15 g	3 s	19.5 x 19.5 cm (7.7 x 7.7")	76480-256	76480-266
VWR-10001P2.H	10000 g	External	0.1 g	±0.3 g	0.1 g	3 s	19.5 x 19.5 cm (7.7 x 7.7")	76175-280	76378-372
VWR-20001P2.H	20000 g	External	0.1 g	±0.3 g	0.1 g	3 s	19.5 x 19.5 cm (7.7 x 7.7")	76175-398	76378-374
VWR-30000P2.H	30000 g	External	0.5 g	±1.5 g	0.5 g	3 s	30 x 30 cm (11.8 x 11.8")	76480-258	76480-268
VWR-60000P2.H	60000 g	External	1 g	±3 g	1 g	3 s	40 x 50 cm (15.7 x 19.7")	76480-260	76480-270

\*Cat.No. w/ Cal Cert includes the balance and an ISO 17025:2017 Certificate of Calibration

# Lightweight precision for your convenience

**FIVE-YEAR WARRANTY**

## VWR® P-SERIES BALANCES

- **Versatile:** The VWR® P-Series Balances are ideal for educational, light industrial, general laboratory applications or anywhere that accuracy and portability is required.
- **Portable:** Operate in the field or move from lab to lab. All P-series balances come complete with 9 V AC power adapter. Insert six AA batteries (batteries not included) for portable applications. Automatic shut-off mode conserves battery life and the low battery indicator ensures sample weighing is not interrupted.
- **Large, easy-to-see LCD backlit display** is ideal for dimly lit work locations.
- **Simple operation:** Four dedicated keys - On/Off, CAL, Units and Tare - are ideal for student use.
- **Oversized draft shield** with a stainless steel lift-off cover is standard on **Cat. No. 10205-002**. The internal dimensions [15.0 x 14.0 x 10.7 cm (6 x 5.5 x 4.25")] provide easy access and ample space when working with larger samples.
- **Stainless steel weigh pans** are easy to remove for cleaning.
- **Rugged, built to last** for every environment from teaching labs to light industrial use.
- **Five-year warranty** on parts and labor for peace of mind.
- **Economical:** The P-series balances are the solution for organizations with limited budgets.



### Specifications

<b>Calibration Adjustment:</b>	External
<b>Operating Temperature:</b>	0–40°C (32–104°F)
<b>Relative Humidity:</b>	40–80% (non-condensing)
<b>Interface:</b>	None
<b>Display:</b>	Backlit LCD
<b>Power Requirements:</b>	100–240 VAC, 50–60 Hz, 9 V DC adapter 6 x AA Batteries (batteries not included)
<b>Unit Dimensions, L x W x H:</b>	22.5 x 17.7 x 15.7 cm (8.9 x 6.7 x 6.2")
0.001 mg Model	
0.01 g to 1 g Models	22.5 x 17.7 x 7 cm (8.9 x 6.7x 2.8")
<b>Net Weight:</b>	2 kg (4.4 lbs.)

## features

- Large, easy-to-read LCD backlit display
- Simple operation
- Oversized draft chamber with stainless steel cover (Cat. No. **10205-002**)
- Auto shut-off mode
- Low battery indicator
- Externally calibrated
- Overload protection
- Competitively priced
- Five-year warranty

Model	Capacity	Readability	Linearity	Repeatability (Std. Dev.)	Stabilization Time	Pan Size	Cat. No.	Cat. No. with Cal Cert*
<b>Precision Model with Draft Shield</b>								
VWR-123P	120 g	0.001 g	±0.003 g	0.001 g	3 s	9.0 cm (3.5")	10205-002	76378-352
<b>Precision Models</b>								
VWR-500P	500 g	0.01 g	±0.02 g	0.01 g	3 s	14.5 x 14.5 cm (5.7 x 5.7")	10205-004	76378-354
VWR-1500P	1500 g	0.05 g	±0.1 g	0.05 g	3 s	14.5 x 14.5 cm (5.7 x 5.7")	10205-006	76378-356
VWR-3000P	3000 g	0.1 g	±0.2 g	0.1 g	3 s	14.5 x 14.5 cm (5.7 x 5.7")	10205-008	76378-358
VWR-6000P	6000 g	1 g	±2 g	1 g	3 s	14.5 x 14.5 cm (5.7 x 5.7")	10205-010	76378-360

\*Cat.No. with Cal Cert includes the balance and an ISO 17025:2017 Certificate of Calibration

# Moisture analyzers

THREE-YEAR WARRANTY

## VWR® M-SERIES MOISTURE ANALYZERS

- **Simple operation:** The 5" color capacitive touch screen allows for easy menu access and personalization of widgets to allow for customization of the VWR® M-Series Moisture Analyzers home screen.
- **Built-in proximity sensor:** Through the use of the built-in proximity sensors, users are provided the opportunity to have touch-free options performed by motioning over the sensors (e.g. opening lid or printing results).
- **Advanced technology:** The VWR M-Series features an IR emitter or halogen bulb to provide you with quick determination of relative moisture content and dry mass content.
- **Multiple interfaces:** Easily connect your balance to a computer or printer via the RS232 port, USB (two types, A and B), Ethernet or wirelessly.
- **Drying mode options:** The VWR M-Series features four drying mode options: standard, mild, quick and step.
- **Auto switch-off options:** The VWR M-Series allow for customization of switch-off options for ending the analysis. Options include automatic, time defined, or manual switch-off of system.
- **GLP documentation is standard** on the VWR M-Series. Customized printouts include moisture analyzer ID, user, date, time, software version, results and signature line provide for complete GLP documentation.
- **Economical:** Priced right, the VWR M-Series is the answer for organizations demanding precision on a limited budget.
- **Worry-free:** All VWR M-Series are covered by a three-year warranty.



### Specifications

Calibration Adjustment:	External
Operating Temperature:	10–40°C (50–104°F)
Relative Humidity:	40–80% (non-condensing)
Drying Profiles:	Standard, Fast Step, Mild
Finish Mode:	Manual, automatic, time-defined, user-defined
Interface:	RS232 (2), USB-A and USB-B, Wireless, Ethernet
Display:	5" color, capacitive touch screen
Power Requirements:	120 V
Unit Dimensions, L x W x H:	33.8 x 20.6 x 19.7 cm (13.3 x 8.1 x 7.7")
Net Weight:	5.2 kg (11.5 lbs)
Weighing Pan Dimensions:	9 cm (3.5")
Maximum Sample Height:	2 cm (0.8")

## features

- Large, color touch screen display
- Four drying profiles
- Touch-free operation
- IR emitter or halogen heating element
- Wireless, Ethernet, RS232 and USB interfaces
- Multi-language menu options

Model	Capacity	Readability	Moisture Content Readability	Drying Temperature Range	Moisture Content Repeatability	Cat. No.
<b>Halogen Heating Element</b>						
VWR-54M.H	50 g	0.1 mg	0.0001%	max. 250°C (482°F)	0.05% (~2 g sample)	76290-332
VWR-53M.H	50 g	0.001 g	0.001%		0.01% (~10 g sample)	76290-334
VWR-213M.H	210 g	0.001 g	0.001%		76289-770	
<b>IR Emitter Heating Element</b>						
VWR-54M.I	50 g	0.1 mg	0.0001%	max. 160°C (320°F)	0.05% (~2 g sample)	76289-772
VWR-53M.I	50 g	0.001 g	0.001%		0.01% (~10 g sample)	76289-774
VWR-213M.I	210 g	0.001 g	0.001%		76289-740	



# Accessories for all your weighing needs



**10799-136** - Easily obtain results from your VWR® series balance with connection to the VWR® Dot Matrix Printer.

- Interface cable for connecting the balance to the printer included with system
- Black print color
- Includes sample roll of printer paper



**10799-136** - Printer Paper (five rolls)  
Replacement printer paper for PRNT-01 dot matrix printer.



**10799-138** - Printer Ribbon  
Replacement printer ribbon for PRNT-01 Dot Matrix Printer.



**76485-870** - Protective cover for T-Series and B2T-Series precision balances (0.001 g and below) only.



**10799-182** - Density Determination Kit, compatible with A-Series, T-Series and B2T-Series balances, analytical (0.1 mg) and semi micro (0.01 mg) model only.



Antistatic ionizers are used to remove overflow of ions from the load and elements of a balance and the environment. Electric charges in the air are neutralized by the ionizer, allowing for more stable readings.

**76485-874** - Antistatic Ionizer - Compact Size  
Frame dimensions: 175×70×172 mm

**76485-872** - Antistatic Ionizer - Standard Size  
Frame dimensions: 268×110×295 mm



**10799-162** - AVBP-01 Anti-Vibration Platform

The VWR® AVBP-01 Granite Platform with Anti-Vibration Isolation was designed to provide optimal performance for high precision balances in environments where vibration may affect weighing results.



**76485-882** - Anti-Draft Chamber

The anti-draft chamber is an optional accessory intended for U-Series balances working in unfavorable conditions (air-drafts). The chamber features sliding side panes allowing free access to the weighing chamber of the balance.



The VWR® anti-vibration tables for laboratory balances were designed to provide optimal performance for microbalances in environments where vibrations may affect weighing results. The table helps eliminate both ground vibrations and vibrations from the result of user's activity while operating the balance.

The tables feature a granite insert, steel frame, and adjustable leveling feet.  
 Dimensions, L x W x H : 77 x 65 x 81.5 (30.3 x 25.6 x 32")  
 Granite Insert Dimensions, L x W x H: 27 x 41 x 11.5 (10.6 x 16.1 x 4.5")

**76485-876** - AVBP-02 Powder Coated, Solid Steel Anti-Vibration Isolation Table top is made of laminate board.

**76485-878** - AVBP-03 Stainless Steel Anti-Vibration Isolation Table constructed of stainless, acid proof steel.



VWR® sample holders are an ideal solution to aid in faster and more convenient weighing of laboratory products.

Sample holders are a great tool for facilitating dosing directly into typical laboratory vessels.

Sample holders are compatible with the VWR® A-Series, T-Series, and B2T-Series analytical balances.

- 10000-152** - Sample Holder for Test Tubes, Filters Lab Glass Ware
- 10799-146** - Sample Holder 8, 10, 12 mm dia. Test Tubes and Centrifuge Tubes
- 10799-148** - Sample Holder for 50, 100, 250 mL Round Flasks



**76485-880** - Disposable pans ø90 mm. Designed for moisture analyzers, available as a set of 50 pieces.



# SCIENCE **DELIVERED**

From scientific discovery to scale-up and commercial delivery, you need mission-critical products, services and solutions on a global scale.

Avantor® offers global access to our own portfolio of trusted, quality brands and critical products through our premier delivery platform, VWR®. All of this, combined with infrastructure strategically located to help serve your specific needs, helps move science forward – fast. That's science delivered.

Get the mission-critical scientific products and solutions you need from Avantor, delivered through VWR.

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