

# VWR undercounter and specialty refrigerators & freezers

01. **VERSATILE STORAGE  
OPTIONS DESIGNED FOR  
YOUR NEEDS**

02. **SUPERIOR TEMPERATURE  
UNIFORMITY AND RECOVERY  
AFTER DOOR OPENINGS**

03. **OUTSTANDING  
TECHNICAL SERVICE**



## Going green. What does it mean?

### THE ADVANTAGES OF HYDROCARBON REFRIGERANTS

- 45-60% decrease in refrigerant charge size
- Up to 15% reduction in energy consumption
- Contains no fluorine or chlorine
- Short atmospheric life of about 2 weeks
- Less aggressive refrigerant - extending life of the system
- Hydrocarbon is a naturally occurring refrigerant
- Zero ozone depletion potential

### EVOLVING TECHNOLOGY OF HYDROCARBON REFRIGERANTS REDUCE OZONE DEPLETION AND ENERGY USAGE

- Thermodynamic properties are superior to both R134a and R404a
- Heat retention is approximately 90% greater than R134a and 140% greater than R404a with lower viscosity
- Absorb more heat faster, resulting in quicker temperature recovery and lower energy consumption



## Reliable choices to meet your application and budget

### VWR LABORATORY REFRIGERATORS AND FREEZERS

Laboratory and pharmacy cold storage applications and their requirements can vary greatly. Temperature settings, uniformity, recovery and the importance of monitoring the operation of the unit, acquiring and logging data, and out of range alarm notifications can be different from one setting to the next.

Whatever the requirement, VWR, part of Avantor, offers a comprehensive choice of purpose-built laboratory and pharmacy refrigerators and freezers.

### WHY PURPOSE-BUILT REFRIGERATORS AND FREEZERS?

- A forced-air directional refrigeration system is employed that provides superior temperature uniformity and recovery after door openings.
- An automatic cycle-defrost design prevents product-damaging temperature spikes stemming from defrost cycles.
- Manual defrost freezers come equipped with Direct-Cool fixed evaporator shelves, coupled with insulating inner doors to prevent cold air loss during door openings.
- The manual defrost design prevents product damaging temperature spikes found in auto-defrost cycles. (Auto-defrost options are available for less critical applications).

### POST-SALE SUPPORT

Our outstanding technical service department is backed by a national network of service technicians specifically trained on critical cold storage equipment and the importance of these units to everyday lab applications.

OUTSTANDING  
TECHNICAL  
SERVICE





10819-676

**VWR® SERIES  
PASS-THRU LABORATORY REFRIGERATORS  
WITH NATURAL REFRIGERANTS**



|                                  |   |
|----------------------------------|---|
| <b>Temperature Range</b>         | 1° to 10°C<br>Adjustable operating temperature range (°C or °F)                     |
| <b>Refrigeration</b>             | Uniform forced air<br>Directional cooling with oversized evaporators and condensers |
| <b>Configurations</b>            | Available in slide or swing door configurations                                     |
| <b>2/5 Warranty</b>              | Two-year parts and labor warranty, five years on compressor parts                   |
| <b>Standard Features Package</b> | Casters*, sample-simulated probe, probe access port, UL/C-UL listed                 |



**TEMPERATURE CONTROLLER**

- Digital accuracy
- Precise temperature maintenance
- Independent operation for security

**MONITORING & ALARMS**

- Sample-simulated temperature display
- High/low temperature alarm
- Sensor error alarm
- Power failure alarm
- Alarm mute with ring back
- Remote contacts
- Alarm validation
- Resettable 1-point min/max history

| Volume, cu. ft. | Defrost | Front Door    | Back Door | Shelves | Exterior Dimensions, W x D x H, in. | RL** | H.P. | Amps | Weight, lbs. | Cat. No.  |
|-----------------|---------|---------------|-----------|---------|-------------------------------------|------|------|------|--------------|-----------|
| 47              | Cycle   | 2 Slide Glass | 2 Solid   | 8 Adj   | 54 1/8 x 32 3/8 x 78 5/8            | R290 | 1/2  | 8.8  | 525          | 10819-674 |
| 49              | Cycle   | 2 Swing Glass | 2 Solid   | 8 Adj   | 54 1/8 x 33 7/8 x 78 5/8            | R290 | 1/2  | 8.5  | 525          | 10819-676 |

\*Casters add 4" to height when installed.

\*\*Green indicates environmentally friendly, natural hydrocarbon (HC) refrigerants



Refrigerator 10819-746



Freezer 10820-434

**VWR® SERIES  
FLAMMABLE MATERIAL STORAGE REFRIGERATORS  
& FREEZERS WITH NATURAL REFRIGERANTS**



|                                  |  |
|----------------------------------|--|
| <b>Temperature Range</b>         | 1° to 10°C [Refrigerator]<br>-15° to -25°C [Freezer]<br>Adjustable operating temperature range (°C or °F)                                  |
| <b>Refrigeration</b>             | No internal electrical components inside of unit<br>Electrical compressor components sealed in vapor-proof enclosure for additional safety |
| <b>Configurations</b>            | Undercounter, solid door   |
| <b>2 Warranty</b>                | Two-year parts and labor warranty  |
| <b>Standard Features Package</b> | Keyed door locks, sample-simulated probe, probe access port, UL/C-UL listed  |



**TEMPERATURE CONTROLLER**

- Digital accuracy
- Precise temperature maintenance

**MONITORING & ALARMS**

- High/low temperature alarm
- Sensor error alarm
- Alarm mute
- Remote contacts

| Volume, cu. ft.     | Defrost | Door    | Shelves | Exterior Dimensions, W x D x H, in.   | RL*   | H.P. | Amps | Weight, lbs. | Cat. No.  |
|---------------------|---------|---------|---------|---|-------|------|------|--------------|-----------|
| <b>Refrigerator</b> |         |         |         |   |       |      |      |              |           |
| 5                   | Cycle   | 1 Solid | 3 Adj   | 23 <sup>5</sup> / <sub>8</sub> x 24 <sup>1</sup> / <sub>4</sub> x 32 <sup>3</sup> / <sub>16</sub> | R600a | 1/6  | 1.2  | 84           | 10819-746 |
| <b>Freezer</b>      |         |         |         |   |       |      |      |              |           |
| 4                   | Manual  | 1 Solid | 2 Fixed | 23 <sup>5</sup> / <sub>8</sub> x 24 <sup>1</sup> / <sub>4</sub> x 32 <sup>3</sup> / <sub>16</sub> | R600a | 1/6  | 1.4  | 91           | 10820-434 |

\*Green indicates environmentally friendly, natural hydrocarbon (HC) refrigerants



10819-886



10819-890



76359-220

**VWR® SERIES  
BUILT-IN UNDERCOUNTER REFRIGERATORS &  
FREEZERS WITH NATURAL REFRIGERANTS**



|                                  |   |
|----------------------------------|---|
| <b>Temperature Range</b>         | 1° to 10°C [Refrigerator]<br>-15° to -25°C [Freezer]<br>Adjustable operating temperature range (°C or °F) |
| <b>Refrigeration</b>             | Uniform forced air directional cooling with oversized evaporators and condensers (refrigerators only)     |
| <b>Configurations</b>            | Glass and solid door options available in refrigerators, freezers solid door only                         |
| <b>2 Warranty</b>                | Two-year parts and labor warranty   |
| <b>Standard Features Package</b> | Keyed door locks, probe access port, UL/C-UL listed   |



**TEMPERATURE CONTROLLER**

- Digital setting accuracy
- Precise temperature maintenance

**MONITORING & ALARMS**

- High/low temperature alarm
- Sensor error alarm
- Alarm mute
- Remote contacts

| Volume, cu. ft.      | Defrost | Door                 | Shelves       | Exterior Dimensions, W x D x H, in. | RL*   | H.P. | Amps | Weight, lbs. | Cat. No.  |
|----------------------|---------|----------------------|---------------|-------------------------------------|-------|------|------|--------------|-----------|
| <b>Refrigerators</b> |         |                      |               |                                     |       |      |      |              |           |
| 2.5                  | Cycle   | 1 Solid              | 4 Adj         | 17¾ x 19½ x 28⅞                     | R600a | ⅓    | 0.9  | 85           | 76359-220 |
| 2.5                  | Cycle   | 1 Solid, Left Hinged | 4 Adj         | 17¾ x 19½ x 28⅞                     | R600a | ⅓    | 0.9  | 85           | 76359-222 |
| 4.6                  | Cycle   | 1 Solid              | 2 Adj/1 Fixed | 23¾ x 24½ x 33⅞                     | R600a | ⅓    | 1.74 | 97           | 10819-880 |
| 4.6                  | Cycle   | 1 Glass              | 2 Adj/1 Fixed | 23¾ x 25½ x 33⅞                     | R600a | ⅓    | 1.74 | 97           | 10819-882 |
| 4.6                  | Cycle   | 1 Glass              | 2 Adj/1 Fixed | 23¾ x 25½ x 31⅞                     | R600a | ⅓    | 1.74 | 97           | 10819-884 |
| 4.5                  | Cycle   | 1 Stainless          | 2 Adj/1 Fixed | 23¾ x 24½ x 33⅞                     | R600a | ⅓    | 1.74 | 100          | 10819-886 |

| Volume, cu. ft. | Defrost | Temp. | Door        | Shelves | Exterior Dimensions, W x D x H, in. | RL*   | H.P. | Amps | Weight, lbs. | Cat. No.  |
|-----------------|---------|-------|-------------|---------|-------------------------------------|-------|------|------|--------------|-----------|
| <b>Freezers</b> |         |       |             |         |                                     |       |      |      |              |           |
| 4.2             | Manual  | -20°C | 1 Solid     | 2 Fixed | 23¾ x 24½ x 33⅞                     | R600a | ⅓    | 1.5  | 100          | 10819-666 |
| 4.2             | Manual  | -20°C | 1 Solid     | 2 Fixed | 23¾ x 24½ x 31⅞                     | R600a | ⅓    | 1.5  | 108          | 10819-668 |
| 4.2             | Manual  | -20°C | 1 Stainless | 2 Fixed | 23¾ x 24½ x 33⅞                     | R600a | ⅓    | 1.5  | 100          | 10819-888 |
| 4.2             | **Auto  | -20°C | 1 Solid     | 3 Adj   | 23¾ x 24½ x 33⅞                     | R600a | ⅓    | 1.8  | 100          | 10819-890 |

\*Green indicates environmentally friendly, natural hydrocarbon (HC) refrigerants

\*\*Auto defrost freezers incorporate an electric heater installed on the evaporator that assist in the removal of the frost and ice. Although the heater helps speed up the frost and ice removal, it can raise the temperatures within the freezer. These air temperature spikes can be harmful to some medical and laboratory products.



10819-872



10819-662

**VWR® SERIES  
FREESTANDING UNDERCOUNTER/  
TABLE TOP REFRIGERATORS & FREEZERS  
WITH NATURAL REFRIGERANTS**



|                                  |  |
|----------------------------------|--|
| <b>Temperature Range</b>         | 1° to 10°C [Refrigerator]<br>-15° to -25°C [-20° model]<br>-27° to -33°C [-30° model]<br>-37° to -43°C [-40° model]<br>Adjustable operating temperature range (°C or °F) |
| <b>Refrigeration</b>             | Uniform forced air<br>Directional cooling with oversized evaporators and condensers  |
| <b>Configurations</b>            | Glass and solid door options available in refrigerators, freezers solid door only  |
| <b>2 Warranty</b>                | Two-year parts and labor warranty  |
| <b>Standard Features Package</b> | Keyed door locks, probe access port, UL/C-UL listed  |



**TEMPERATURE CONTROLLER**

- Digital setting accuracy
- Precise temperature maintenance

**MONITORING & ALARMS**

- High/low temperature alarm
- Sensor error alarm
- Alarm mute
- Remote contacts

**Disclaimers:** All freestanding refrigerator models require 4" of clearance around the back and sides of the unit for proper ventilation. Improper installation will void the warranty and will lead to temperature maintenance issues, overheating and possible failure.

| Volume, cu. ft.      | Defrost | Door    | Shelves | Exterior Dimensions, W x D x H, in. | RL*   | H.P. | Amps | Weight, lbs. | Cat. No.  |
|----------------------|---------|---------|---------|-------------------------------------|-------|------|------|--------------|-----------|
| <b>Refrigerators</b> |         |         |         |                                     |       |      |      |              |           |
| 1                    | Cycle   | 1 Solid | 2 Adj   | 17¼ x 19¼ x 21¼                     | R600a | ⅙    | .9   | 40           | 10819-646 |
| 1                    | Cycle   | 1 Glass | 2 Adj   | 17¼ x 19¼ x 21¼                     | R600a | ⅙    | .9   | 40           | 10834-032 |
| 2.5                  | Cycle   | 1 Solid | 4 Adj   | 17¾ x 19½ x 28⅞                     | R600a | ⅙    | .9   | 68           | 10819-870 |
| 2.5                  | Cycle   | 1 Glass | 4 Adj   | 17¾ x 19½ x 28⅞                     | R600a | ⅙    | .9   | 68           | 10819-872 |
| 5.2                  | Cycle   | 1 Glass | 3 Adj   | 23¾ x 24 x 32⅞                      | R600a | ⅙    | 1.3  | 93           | 10819-876 |

| Volume, cu. ft. | Defrost | Temp. | Door    | Shelves | Exterior Dimensions, W x D x H, in. | RL*   | H.P. | Amps | Weight, lbs. | Cat. No.  |
|-----------------|---------|-------|---------|---------|-------------------------------------|-------|------|------|--------------|-----------|
| <b>Freezers</b> |         |       |         |         |                                     |       |      |      |              |           |
| 1.3             | **Auto  | -20°C | 1 Solid | 2 Adj   | 23¾ x 24 x 20⅞                      | R600a | ⅙    | 1    | 80           | 10819-664 |
| 1.7             | Manual  | -20°C | 1 Solid | 2 Adj   | 23¾ x 24 x 20⅞                      | R600a | ⅙    | 1    | 80           | 10819-662 |
| 4               | Manual  | -30°C | 1 Solid | 3 Adj   | 23¾ x 24 x 32⅞                      | R290  | ¼    | 2.2  | 93           | 10819-892 |
| 4               | Manual  | -40°C | 1 Solid | 3 Adj   | 23¾ x 24 x 32⅞                      | R290  | ¼    | 2.2  | 93           | 10834-034 |

\*Green indicates environmentally friendly, natural hydrocarbon (HC) refrigerants

\*\*Auto defrost freezers incorporate an electric heater installed on the evaporator that assist in the removal of the frost and ice. Although the heater helps speed up the frost and ice removal, it can raise the temperatures within the freezer. These air temperature spikes can be harmful to some medical and laboratory products.

VWR® SERIES MANUAL DEFROST CHEST FREEZERS

|  |  |
|--|--|
| Temperature Range                      | -15°C to -25°C   |
| Adjustable operating temperature range | °C or °F   |
| Configurations                         | Available in 15 or 22 cu. ft. sizes  |
| 2/5 Warranty                           | Two-year parts and labor warranty, five years on compressor parts                              |
| Standard Features Package              | Keyed door locks, castor platform*, sample-stimulated probe, probe access port, UL/C-UL listed |

\*Castors add 2¾" to height



TEMPERATURE CONTROLLER

– Microprocessor temperature controller



76285-194

| Volume, cu. ft.       | Defrost | Temp. | Door    | Int. Door | Shelves             | Exterior Dimensions, W x D x H, in. | RL    | H.P. | Amps | Weight, lbs. | Cat. No.  |
|-----------------------|---------|-------|---------|-----------|---------------------|-------------------------------------|-------|------|------|--------------|-----------|
| <b>Chest Freezers</b> |         |       |         |           |                     |                                     |       |      |      |              |           |
| 15                    | Manual  | -20°C | 1 Solid | None      | 2 Removable Baskets | 56 x 29½ x 35⅞                      | R134a | ¼    | 5    | 190          | 76284-668 |
| 20                    | Manual  | -20°C | 1 Solid | None      | 2 Removable Baskets | 74⅜ x 29½ x 34                      | R134a | ¼    | 5    | 219          | 76285-194 |

VWR® STANDARD SERIES MANUAL DEFROST LABORATORY CHEST FREEZERS

|   |   |
|---|---|
| Temperature Range                                 | -15°C to -25°C  |
| Adjustable operating temperature range (°C or °F) |   |
| Configurations                                    | Available in 15 or 20 cu. ft.                                     |
| 2/5 Warranty                                      | Two-year parts and labor warranty, five years on compressor parts |
| Standard Features Package                         | Keyed door locks, probe access port, UL/C-UL listed               |



76285-196

| Volume, cu. ft.       | Defrost | Temp. | Door    | Int. Door | Shelves             | Exterior Dimensions, W x D x H, in. | RL    | H.P. | Amps | Weight, lbs. | Cat. No.  |
|-----------------------|---------|-------|---------|-----------|---------------------|-------------------------------------|-------|------|------|--------------|-----------|
| <b>Chest Freezers</b> |         |       |         |           |                     |                                     |       |      |      |              |           |
| 15                    | Manual  | -20°C | 1 Solid | None      | 2 Removable Baskets | 56 x 29½ x 35⅞                      | R134a | ¼    | 5    | 190          | 76285-196 |
| 20                    | Manual  | -20°C | 1 Solid | None      | 2 Removable Baskets | 74⅜ x 29½ x 34                      | R134a | ¼    | 5    | 219          | 76285-198 |

**VWR® STANDARD SERIES  
UNDERCOUNTER FREESTANDING REFRIGERATOR  
& FREEZER WITH NATURAL REFRIGERANTS**



|                                  |   |
|----------------------------------|---|
| <b>Temperature Range</b>         | 1° to 10°C [Refrigerator]<br>-15° to -25°C [Freezer]<br>Adjustable operating temperature range (°C or °F)                             |
| <b>Refrigeration</b>             | Designed specifically for general purpose applications; where precise temperature control, maintenance, and alarms are not necessary. |
| <b>Configurations</b>            | Solid door, freestanding refrigerator and freezer   |
| <b>2 Warranty</b>                | Two-year parts and labor warranty   |
| <b>Standard Features Package</b> | Keyed door locks, probe access port, UL/C-UL listed   |

**Disclaimer:** Freestanding models require 4" of clearance around the back and sides of the unit for proper ventilation. Improper installation will void the warranty and will lead to temperature maintenance issues, overheating and possible failure.



10819-650

| Volume, cu. ft.     | Defrost | Temp. | Door    | Shelves       | Exterior Dimensions, W x D x H, in. | RL*   | H.P. | Amps | Weight, lbs. | Cat. No.  |
|---------------------|---------|-------|---------|---------------|-------------------------------------|-------|------|------|--------------|-----------|
| <b>Refrigerator</b> |         |       |         |               |                                     |       |      |      |              |           |
| 5                   | Cycle   | 4°C   | 1 Solid | 2 Adj/1 Fixed | 20¼ x 21¾ x 32¼                     | R600a | ½    | .90  | 60           | 10819-650 |
| <b>Freezer</b>      |         |       |         |               |                                     |       |      |      |              |           |
| 4                   | Manual  | -20°C | 1 Solid | 2 Fixed       | 21½ x 22¼ x 32¾                     | R600a | ½    | 1.90 | 67           | 10819-894 |

\*Green indicates environmentally friendly, natural hydrocarbon (HC) refrigerants

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