



LPR-400

## LPR Laboratory Refrigerator

+4°C to +14°C

400 L

Refrigerators that are designed for storage of pharmaceuticals, samples and reagents with user-friendly features. The combination of temperature control accuracy, interior temperature uniformity, quick recovery and resistance to high ambient temperature delivers a quality storage refrigerator that characterizes our commitment to engineering, storage safety and reliability.

### Temperature uniformity

Forced air circulation technology ensures a uniform temperature throughout the chamber and quick temperature recovery even with frequent door openings. A thermistor sensor detects and maintains temperature in the chamber at set point.

### Sample safety and protection

Visual and audible alarms alert users when the temperature falls outside the safe range, so prompt action can be taken to protect precious samples. The door is equipped with a cylinder lock to restrict access.

### Condensation prevention

Glass door heater prevents dew condensation without affecting the samples stored in the chamber. The heater can be easily operated with an ON/OFF switch located to the right of the control panel.

### Stable Temperature



### Microprocessor controller simplifies operation

The digital display shows actual temperature in the chamber and the intuitive touch pad makes operation simple.



### Intuitive design

The self-closing double glass door offers better visibility of stored items and provides complete isolation from the outside. The control panel is located above the glass door. An access port in the back allows sensors, probes and other equipment to be connected.



### Flexible storage options

The height of the shelves can be adjusted to accommodate storage items of various sizes. This flexibility allows different storage needs to be met.

# LPR Laboratory Refrigerator



LPR-400

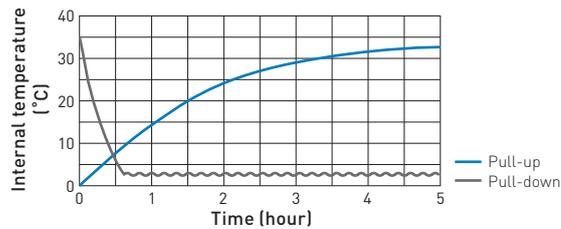
## Timer-Controlled Off-Cycle Defrosting

Reducing labour and time for removing frost, defrosting starts automatically when the accumulated compressor operation time reaches the threshold. During defrosting, the refrigerator will display the "dF" indication and the in-chamber temperature alternatively on the control panel\*.

\* Auto-defrost is activated and repeated in 3-hour cycles, which may temporarily cause an in-chamber temperature to rise up to a maximum of 15°C.

## Performance Data\*

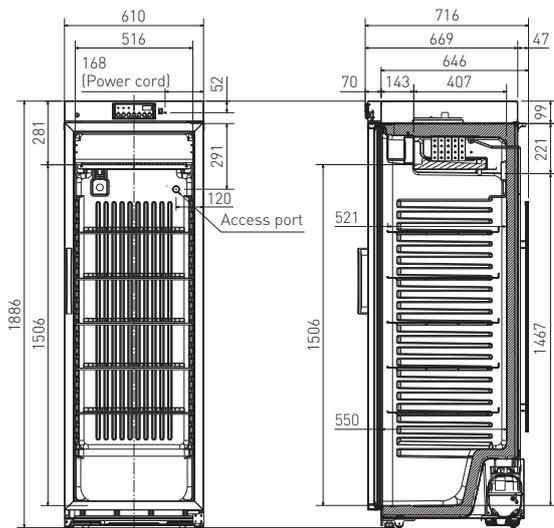
### AT35°C Pull-down & Pull-up Temperature<sup>3)</sup>



The graph does not show temporary temperature increases during auto defrosting.

## Dimensions

Unit: mm



| Model Number                                  |        | LPR-400-PE   |
|---|--------|--|
| External dimensions (W x D x H) <sup>1)</sup> | mm     | 610 x 716 x 1886   |
| Internal dimensions (W x D x H)               | mm     | 516 x 550 x 1467   |
| Volume  | litres | 400  |
| Net weight                                    | kg     | 81   |
| Performance                                   |        |  |
| Temperature control range                     |        | +4°C to +14°C <sup>2)</sup>                              |
| Control                                       |        |  |
| Controller                                    |        | Microprocessor with non-volatile memory                  |
| Temperature display                           |        | Digital  |
| Temperature sensor                            |        | Thermistor   |
| Refrigeration                                 |        |  |
| Cooling method                                |        | Forced cool air circulation                              |
| Defrost method                                |        | Timer Cycle defrost                                      |
| Refrigerant                                   |        | HFC (CFC-Free)   |
| Insulation                                    |        | Rigid polyurethane foamed-in place                       |
| Construction                                  |        |  |
| Exterior material                             |        | Colored steel  |
| Interior material                             |        | Vacuum molding (ABS resin)                               |
| Outer doors                                   | qty    | 1 (Plastic sash with 2-layer glass window)               |
| Outer door lock                               |        | 1 (Cylinder key lock)                                    |
| Shelves                                       | qty    | 5 (polyethylene-coated wire, W500 x D465 mm, adjustable) |
| Max. load - per shelf / drawer                | kg     | 30   |
| Access port                                   | qty    | 1  |
| Access port position                          |        | Back   |
| Access port diameter                          | ∅ mm   | 30   |
| Casters                                       | qty    | 4 (2 levelling feet)                                     |
| Accessories                                   |        |  |
| Key   | set    | x 1  |
| Alarms (V = Visual Alarm, B = Buzzer Alarm)   |        |  |
| High temperature                              |        | V-B  |
| Low temperature                               |        | V-B  |
| Electrical and Noise Level                    |        |  |
| Power supply                                  |        | 230 V, 50 Hz   |
| Rated power consumption                       | W      | 327  |
| Noise level <sup>4)</sup>                     | dB (A) | 48   |

<sup>1)</sup> External dimensions of main cabinet only, excluding external projections - See dimensions drawings on website for full details

<sup>2)</sup> Air temperature measured at refrigeration compartment centre with no load and ambient temperature of +10°C to +35°C.

<sup>3)</sup> Air temperature measured at refrigeration compartment centre at no load and ambient temperature of +35°C.

<sup>4)</sup> Nominal value - Background noise 20 dB (A)

• Appearance and specifications are subject to change without notice.

**Caution:** PHC Corporation guarantees this product under certain warranty conditions. However, please note that PHC Corporation shall not be responsible for any loss or damage to the contents stored in the product.



DISTRIBUTED BY:

**PHCbi**  
PHC Corporation

<https://www.phcd.com/global/biomedical/>

Printed in Japan 2108-2020-07-BB