

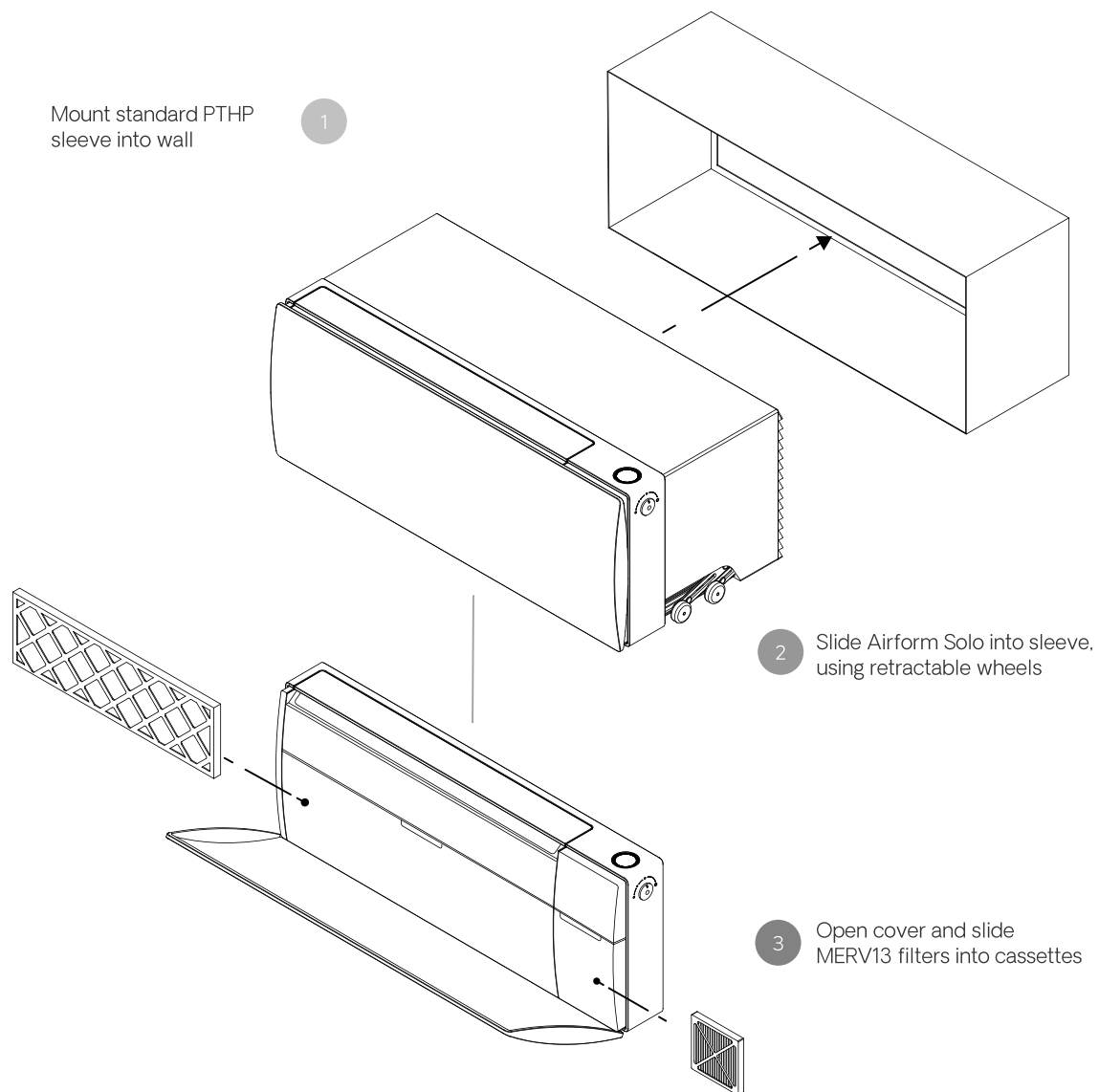
# Airform Solo



# Airform Solo

## Configuration

An Airform system designed to fit into common packaged terminal sleeves. With high performance heating, cooling, dehumidification, and fresh air exchange and filtering - Airform PTHP transforms any home that currently uses a PTAC into a powerful next generation HVAC system.



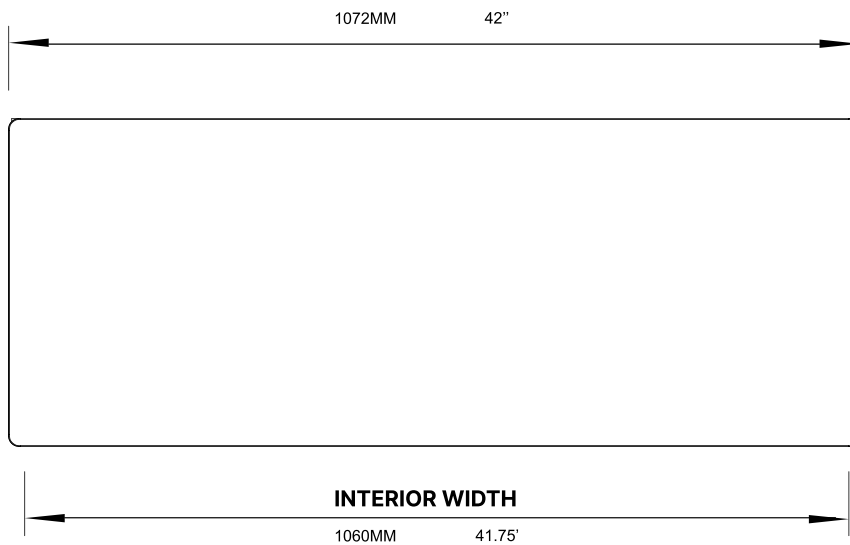


# Product Dimensions

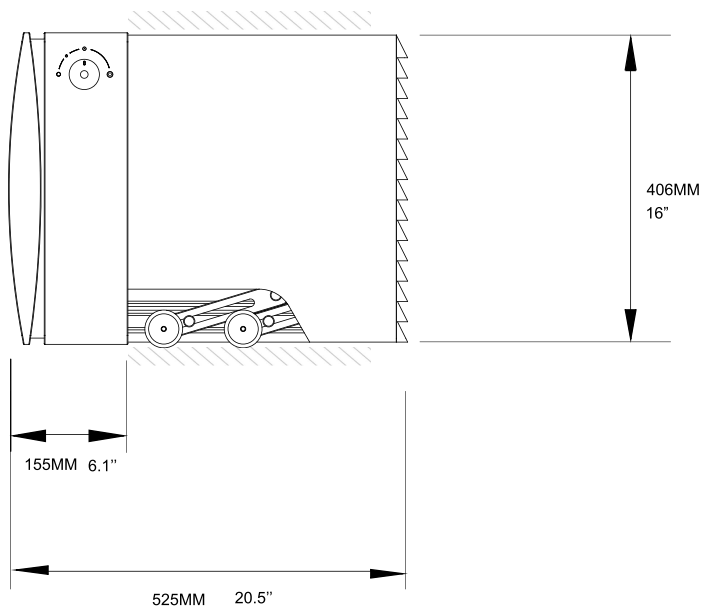
**PRODUCT DESIGNED TO FIT STANDARD PTAC SLEEVES UP TO**

**15.75" (H) x 41.75" (W) x 17.5" (D)**

**FRONT VIEW (After front panel mounted)**



**SIDE VIEW**



# Clearance & Connections

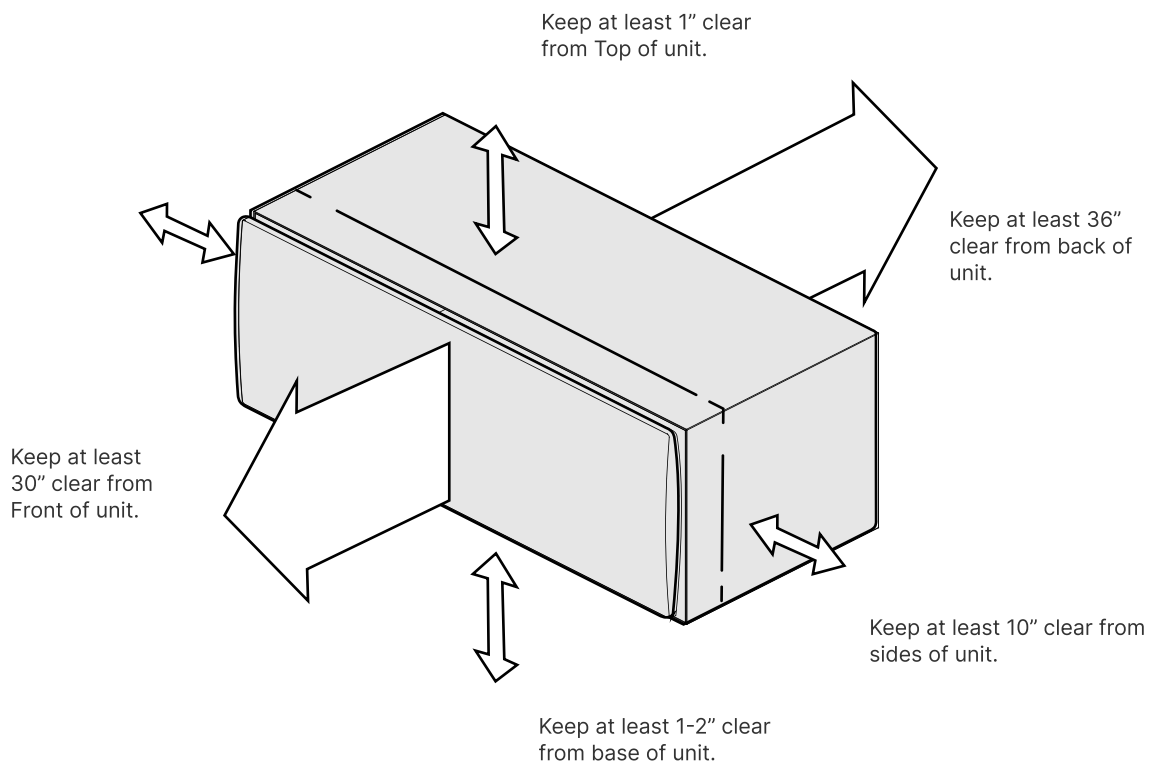
**Top:** A minimum of 1" from ceiling to prevent any noise from vibration.

**Bottom:** A minimum of 1" from the floor to eliminate any noise from vibration. Over 2" is ideal to allow the floor under the unit to be cleaned. The control panel on the side of the unit is most accessible at waist height or slightly higher.

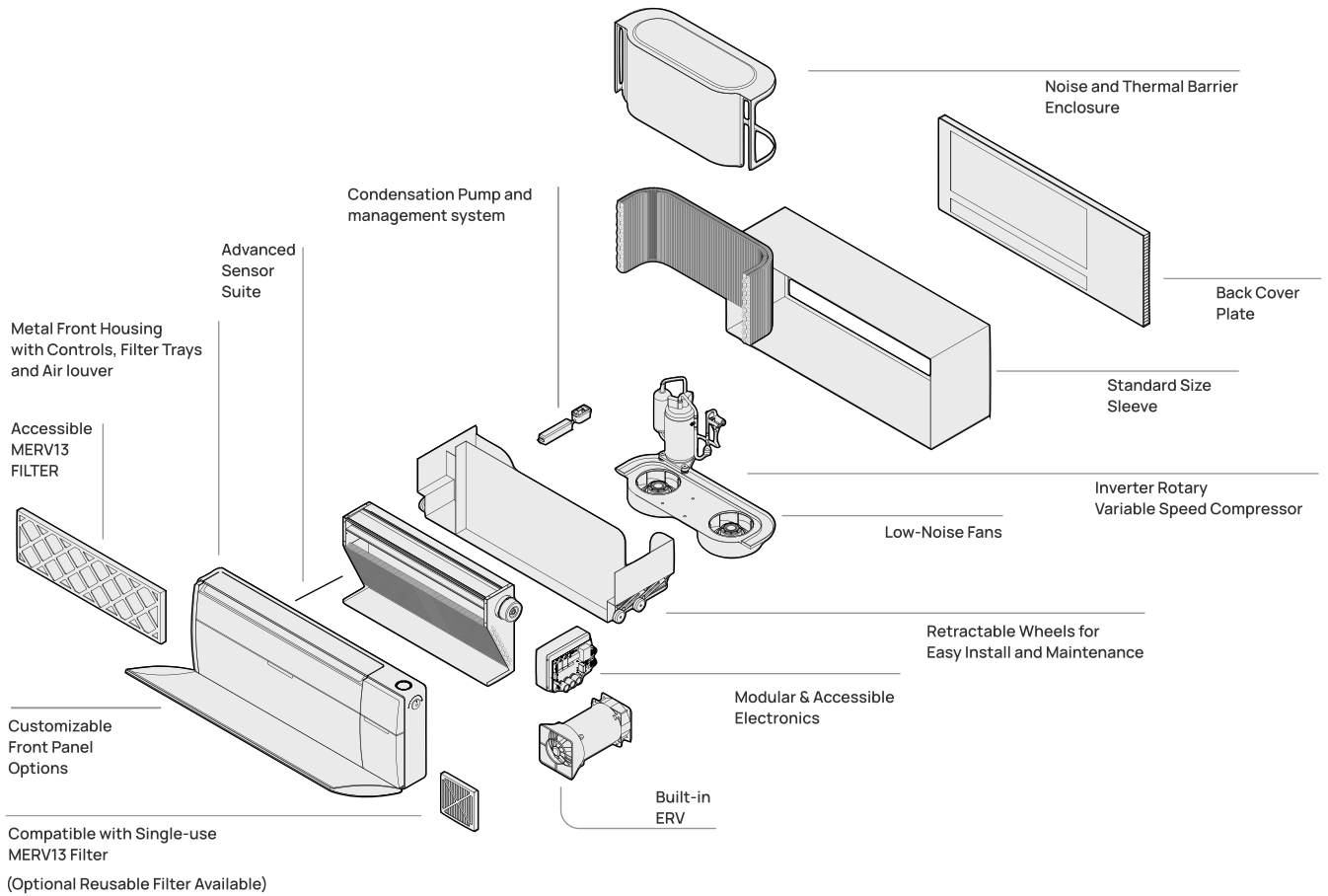
**Front:** Ensure no curtains, furniture, plants, or any material is within 30" above of the unit. The return air vent is on the front, and blocking it will inhibit the airflow and the unit from working correctly.

**Back:** Ensure no curtains, furniture, plants, or any material is within 36" behind the unit. The supply air vent is on the front, and blocking it will inhibit the airflow and the unit from working correctly.

**Sides:** The sides of the unit must be tight to the wall so there are zero gaps between the wall and the unit. Gaps can allow outside air inside and create short cycling and humidity. If there are any gaps, they must be sealed with insulation.



# Features



## Features

- Replaceable filters
- Noise barrier for quiet operation
- Temperature, humidity, and air quality sensors
- Room occupancy sensor
- Retractable wheels for maintenance
- Adjustable gasket system for air insulation
- No-drip condensate management during winter
- BACNET Compatibility

## Optional Features

- Integrated ERV (Energy Recovery Ventilator)
- Up to MERV13 air filtration
- Washable filters
- Customizable sensor suite options
- Customizable front cover panel



# User Experience



## **Intuitive Interface**

Simple physical dials give users direct control over power, airflow strength, and temperature, while a natural-language display on the top surface appears only when needed. The system is designed to run primarily in autopilot, quietly managing comfort in the background. At any time, users can override the system by adjusting the temperature, the power, or physically repositioning the louver fin. Each interaction becomes useful feedback, helping the system refine the user's personal comfort model over time.

## **Autopilot**

Our on-device intelligence learns from each user, their routines and the surrounding environment to deliver consistent comfort while minimising energy use. By combining user behaviour, environmental conditions, and predictive models, the system can anticipate when comfort needs are likely to change and adjust automatically before the user has to think about it.

At an enterprise level, the system can operate within wider building goals, limits, and energy targets. It can also integrate with contextual information, such as guest or occupancy data, to adapt comfort settings to individual profiles while maintaining overall operational efficiency.

# Customization

Airform can be specified with a range of panel designs and materials to fit your project.

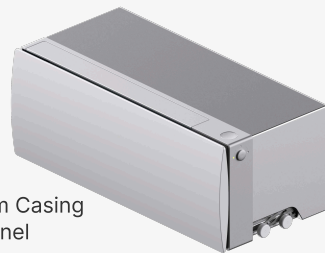
## Interior Panel

Both panel and front casing are configurable.

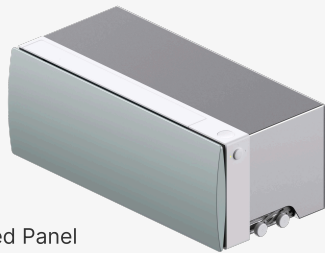
White Casing  
White Panel



Aluminum Casing  
White Panel



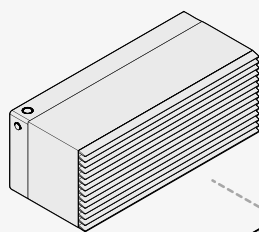
White Casing  
Wall Matched Painted Panel



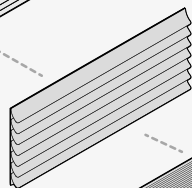
Aluminum Casing  
Wood Panel



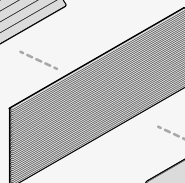
## Exterior Panel



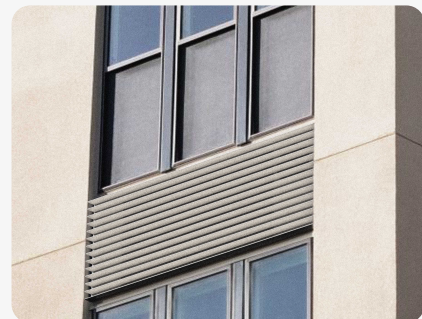
Curved Fins



Straight Slats



Solar options coming soon



# PTHP Specification

## Capacity

|                                           |               |
|-------------------------------------------|---------------|
| Rated Cooling Capacity (BTU/hr)           | 10,000 BTU/hr |
| Rated Heating Capacity (BTU/hr)           | 10,000 BTU/hr |
| Variable Speed Inverter Driven Compressor |               |
| Pending certification under AHRI 310/380  |               |

## Electrical

|                          |           |
|--------------------------|-----------|
| Power                    | 208-230V  |
| Phase/Hz                 | 1Ph, 60Hz |
| Input current monitoring |           |
| Input power monitoring   |           |
| Power factor correction  |           |

## Sound

|                                   |                        |
|-----------------------------------|------------------------|
| Noise barrier for quiet operation |                        |
| dB(A)                             | 29 Indoor / 46 Outdoor |

## Energy Recovery Ventilation

|                        |                     |
|------------------------|---------------------|
| Integrated ERV         | Built-in (Optional) |
| Airflow                | 48 CFM              |
| Recovery Effectiveness | >= 60%              |

## Refrigeration

|             |                      |
|-------------|----------------------|
| Compressor  | Variable Twin Rotary |
| Refrigerant | R32                  |

# PTHP Specification

| Dimensions |        | Main Unit | incl. Housing |
|------------|--------|-----------|---------------|
|            | Height | 15.75 in  | 16 in         |
|            | Width  | 41.75 in  | 42 in         |
|            | Depth  | 17 in     | 17.5 in       |

## Controls & Grid Integration

|          |                      |
|----------|----------------------|
| WiFi     | 2.4/5GHz             |
| Ethernet | Available            |
| BACNET   | Available (Optional) |

## Sensor Suite

|         |                                                                                          |
|---------|------------------------------------------------------------------------------------------|
| Sensors | Temperature, Humidity, CO2, Formaldehyde, VOC, Particulate Matter (PM2.5, PM5, PM10), CO |
|---------|------------------------------------------------------------------------------------------|

## Modes

|              |                                   |
|--------------|-----------------------------------|
| Operation    | Cool, Heat, Dehumidify, Fresh Air |
| Air Exchange | Auto                              |

## Condensation Management

|                                               |
|-----------------------------------------------|
| Gravity-fed, pump, and atomization available. |
| Active condensate safety sensing and controls |

## Maintenance & Serviceability

|                                                       |
|-------------------------------------------------------|
| Removable filters (disposable or reusable compatible) |
| Retractable wheels for transport and easy servicing   |
| Remote system alerts and reminders                    |