

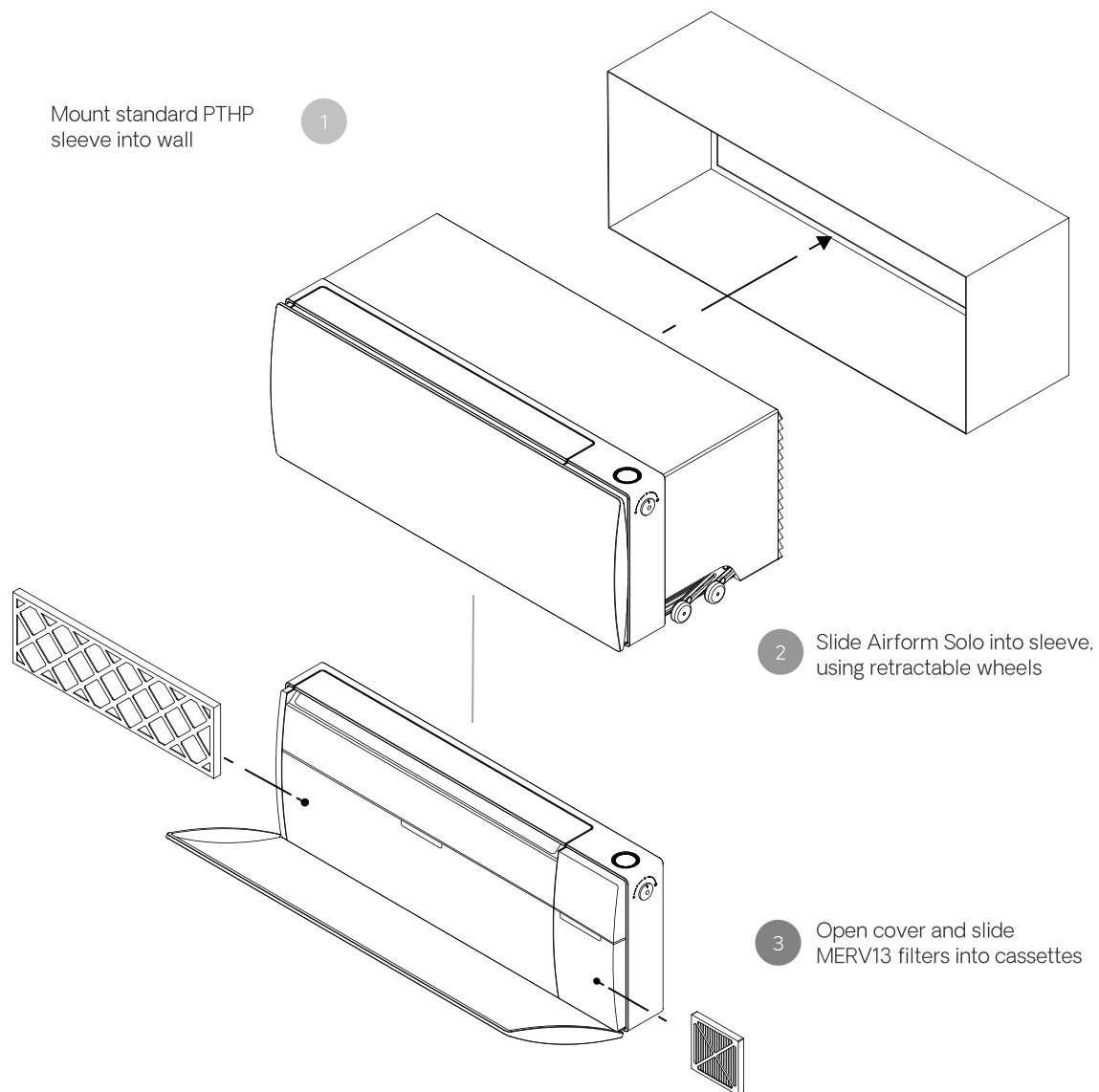
Airform Solo



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.

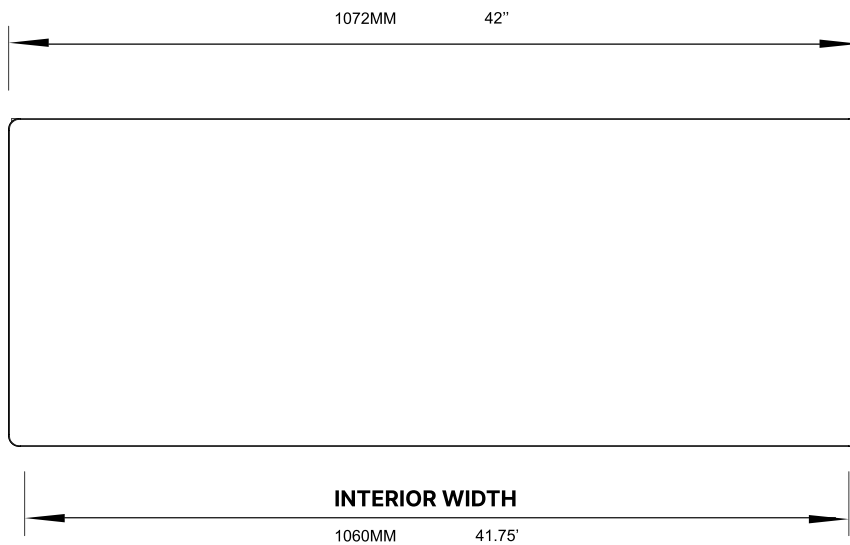


Product Dimensions

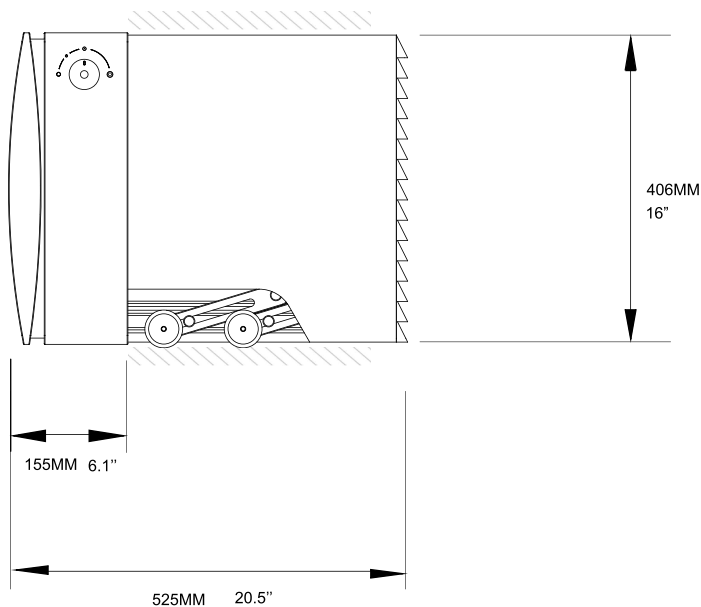
PRODUCT DESIGNED TO FIT STANDARD PTAC SLEEVES UP TO

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

FRONT VIEW (After front panel mounted)



SIDE VIEW



Clearance & Connections

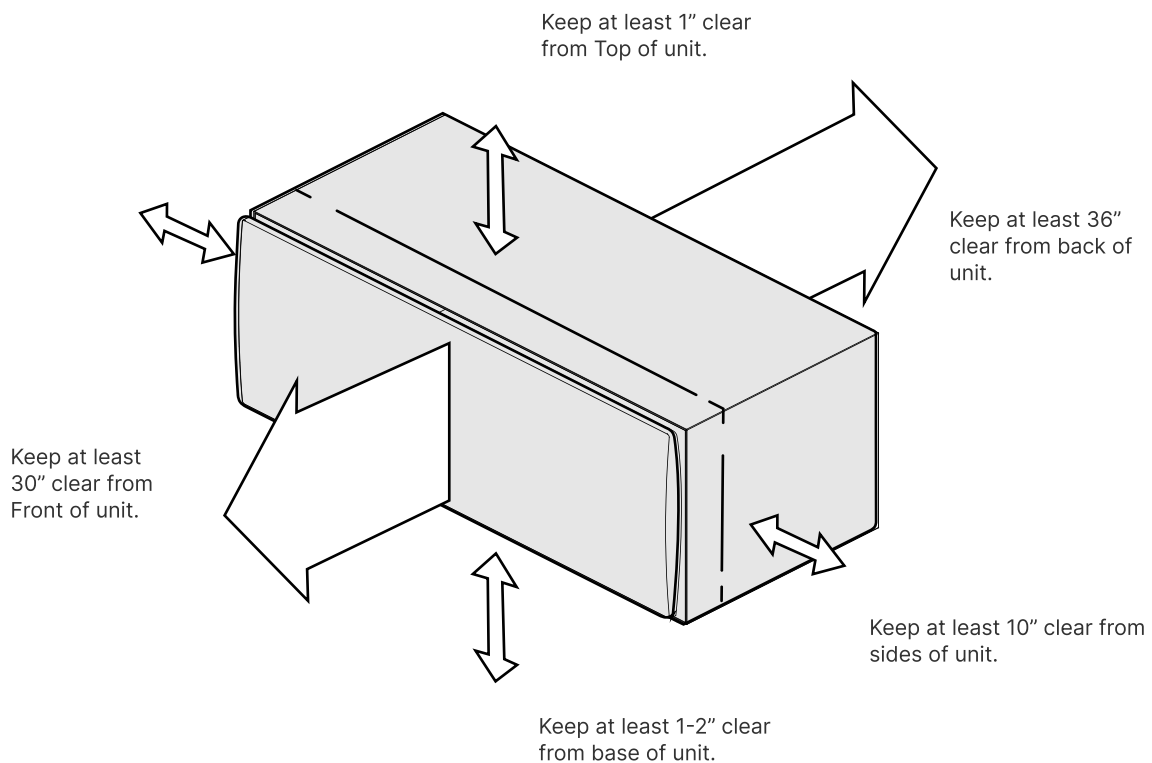
Top: A minimum of 1" from ceiling to prevent any noise from vibration.

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.

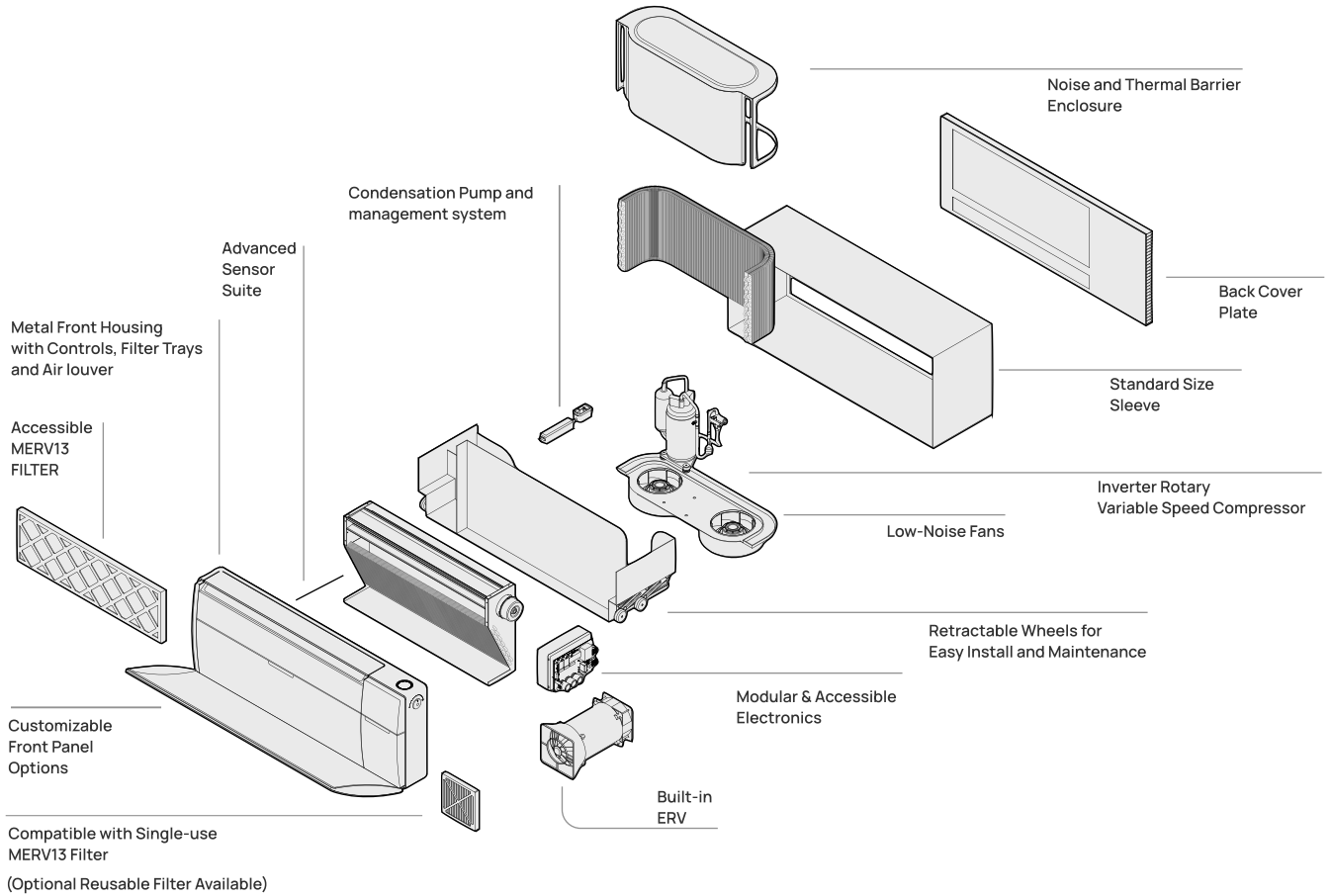
Front: Ensure no curtains, furniture, plants, or any material is within 30" above of the unit. The return air vent is on the front, and blocking it will inhibit the airflow and the unit from working correctly.

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.

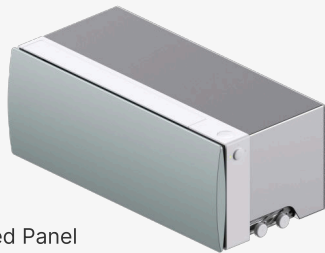
White Casing
White Panel



Aluminum Casing
White Panel



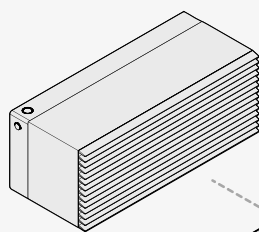
White Casing
Wall Matched Painted Panel



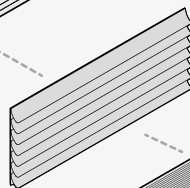
Aluminum Casing
Wood Panel



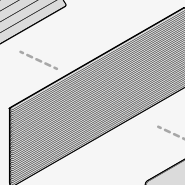
Exterior Panel



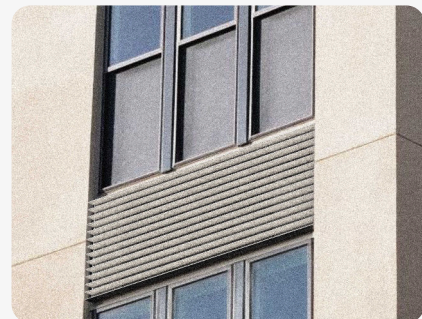
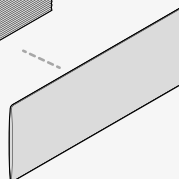
Curved Fins



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
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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