

— SPECIFICATION GUIDE

# Compact

Portable air purifier with WiFi connectivity

# RENSAIR

Clean Air. Certified.



## — COMPACT

The Rensair Compact is a portable, hospital-grade air purifier. A lightweight unit with heavyweight performance, it is highly effective in smaller indoor spaces, removing airborne particulate matter including pathogens (viruses and bacteria), pollen, dust and mould.

Leveraging Rensair's proven HEPA, UVC and centrifugal airflow technologies, this flexible unit is capable of cleaning up to 460m<sup>3</sup> of air per hour / 270ft<sup>3</sup> of air per minute.

The Compact has five airflow speeds and is exceptionally quiet relative to the air delivery rate. On the lowest fan setting it cleans 110m<sup>3</sup> of air per hour / 65ft<sup>3</sup> of air per minute, at an almost inaudible level of 32dBA.

The device is equipped with a touch screen interface and WiFi connectivity, allowing remote operation and smart usage. This serves to amplify clean air during and immediately after periods of high occupancy, while conserving energy during sustained periods of absence.

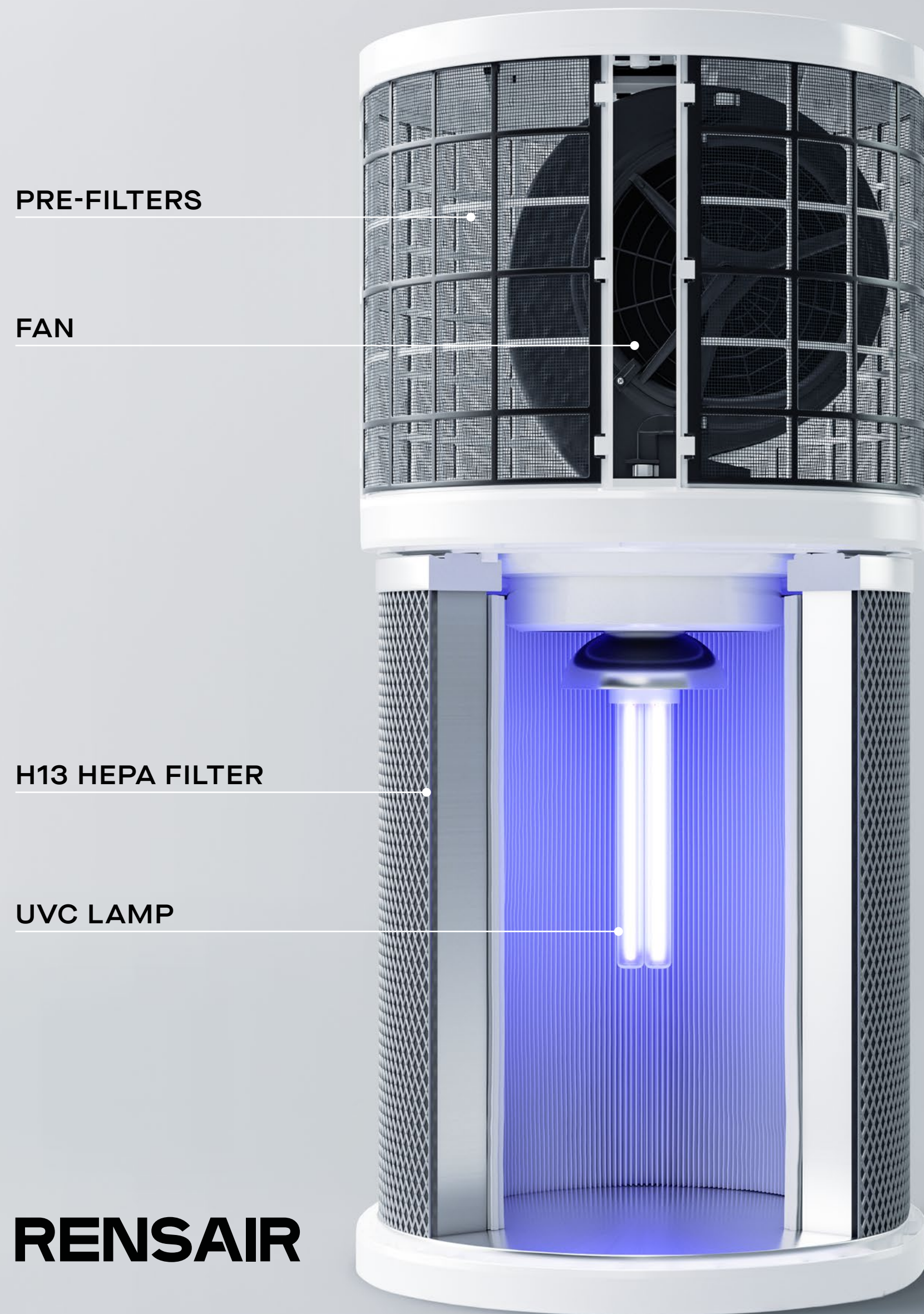
The net weight is just 9.5kg/21lbs, enabling the unit to be easily carried by the handle.



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[rensair.com](https://rensair.com)

## — HOW IT WORKS



## Unique, patented combination of HEPA and UVC

### PRE-FILTERS

- Air enters the top of the unit and passes through a pre-filter system. The pre-filters trap large particles, preventing them from reaching the HEPA filter and thereby ensuring a long and efficient HEPA filter life.
- The pre-filters are easily accessible for regular vacuuming.

### FAN

- The centrifugal fan creates much higher static air pressure than the axial fans commonly used in other air purifiers.
- By pushing air out through the filter – rather than sucking it through – the unit achieves far higher air volumes, while consuming less energy.

### H13 HEPA FILTER

- 99.97% of viruses, bacteria and other airborne micro-organisms are trapped as they hit the pleated surface of the H13 HEPA filter.
- The continued air flow keeps the micro-organisms stuck on the filter surface.

### UVC LAMP

- An 18W UVC lamp is suspended in the centre of the cylinder, ensuring continuous disinfection of the entire surface of the filter.
- Destruction of the DNA and RNA in trapped pathogens ensures that maintenance remains totally safe.

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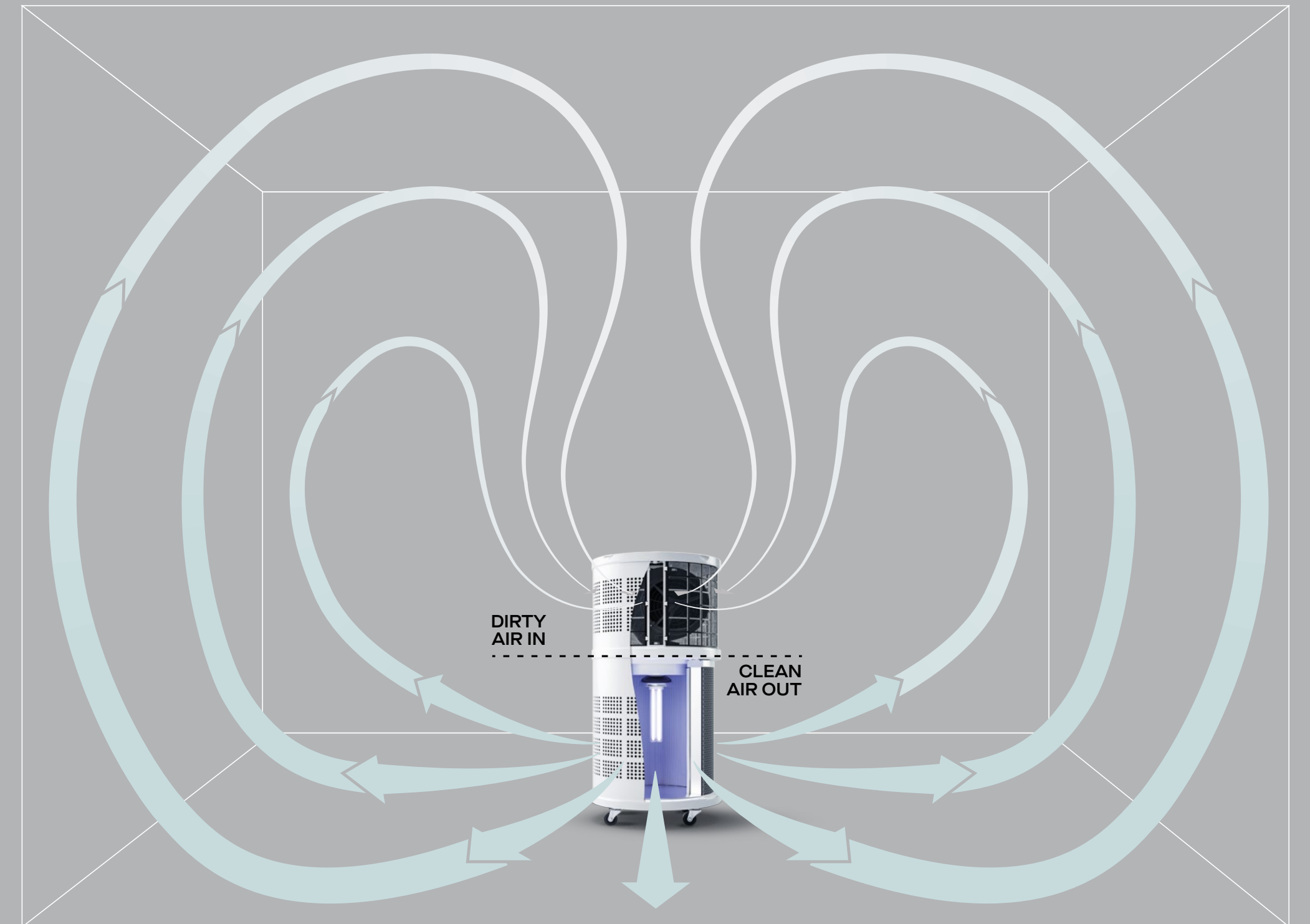
## 360° airflow

The Compact air purifier draws in dirty air from above and around the circumference of the unit, sucking in at 360 degrees, reducing the importance of where the unit is placed.

Outflowing clean air is distributed evenly at 360 degrees, with a minimal exhale draft, in a uniform, outward 'radial jet' motion parallel with the floor.

The Compact's airflow combination creates a full toroidal air movement in a room, which causes more air to pass through the filter and also creates downward pressure on airborne particles which precipitate to the floor. These factors are key to efficient air cleaning throughout the room and to prevent airborne disease transmission.

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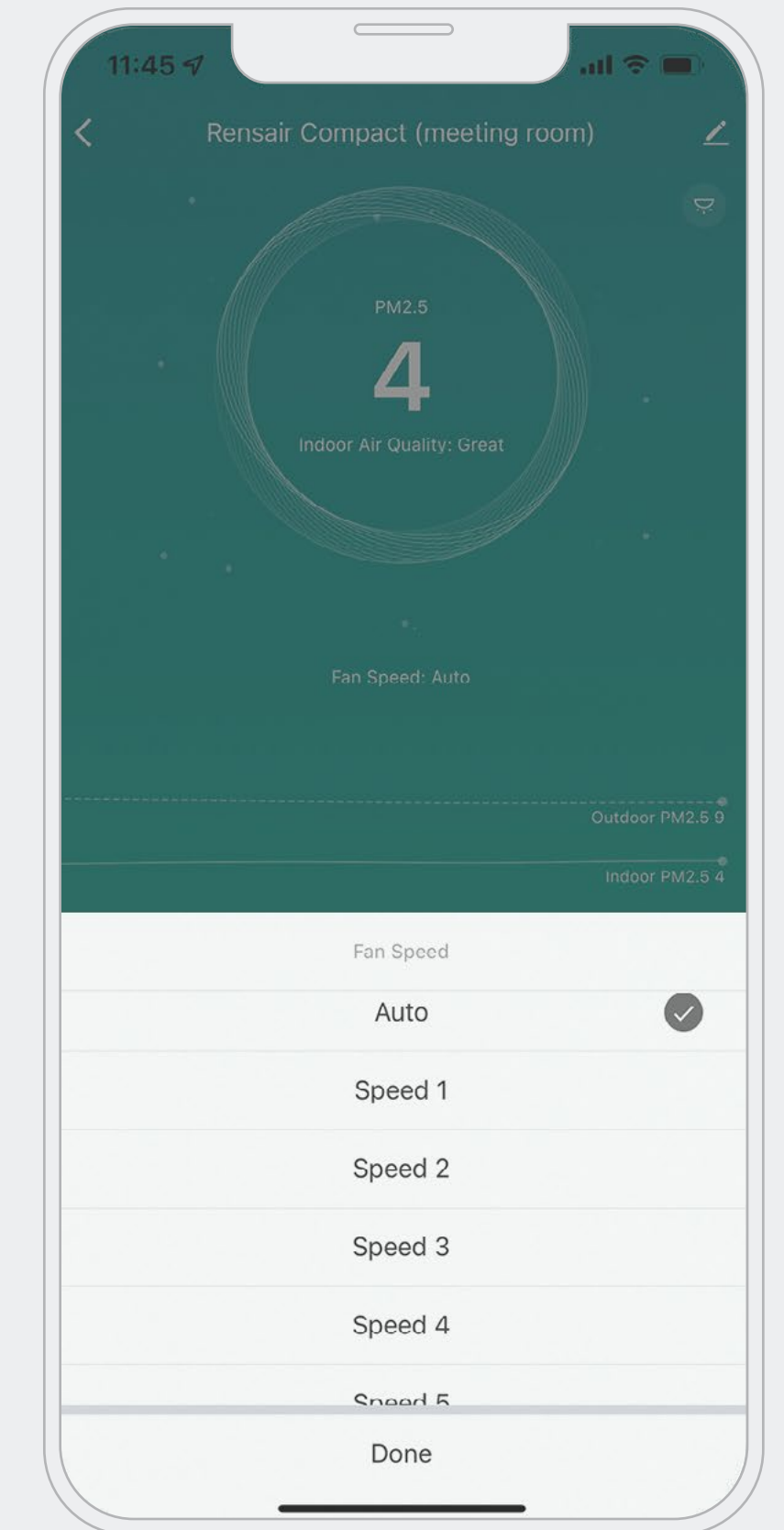
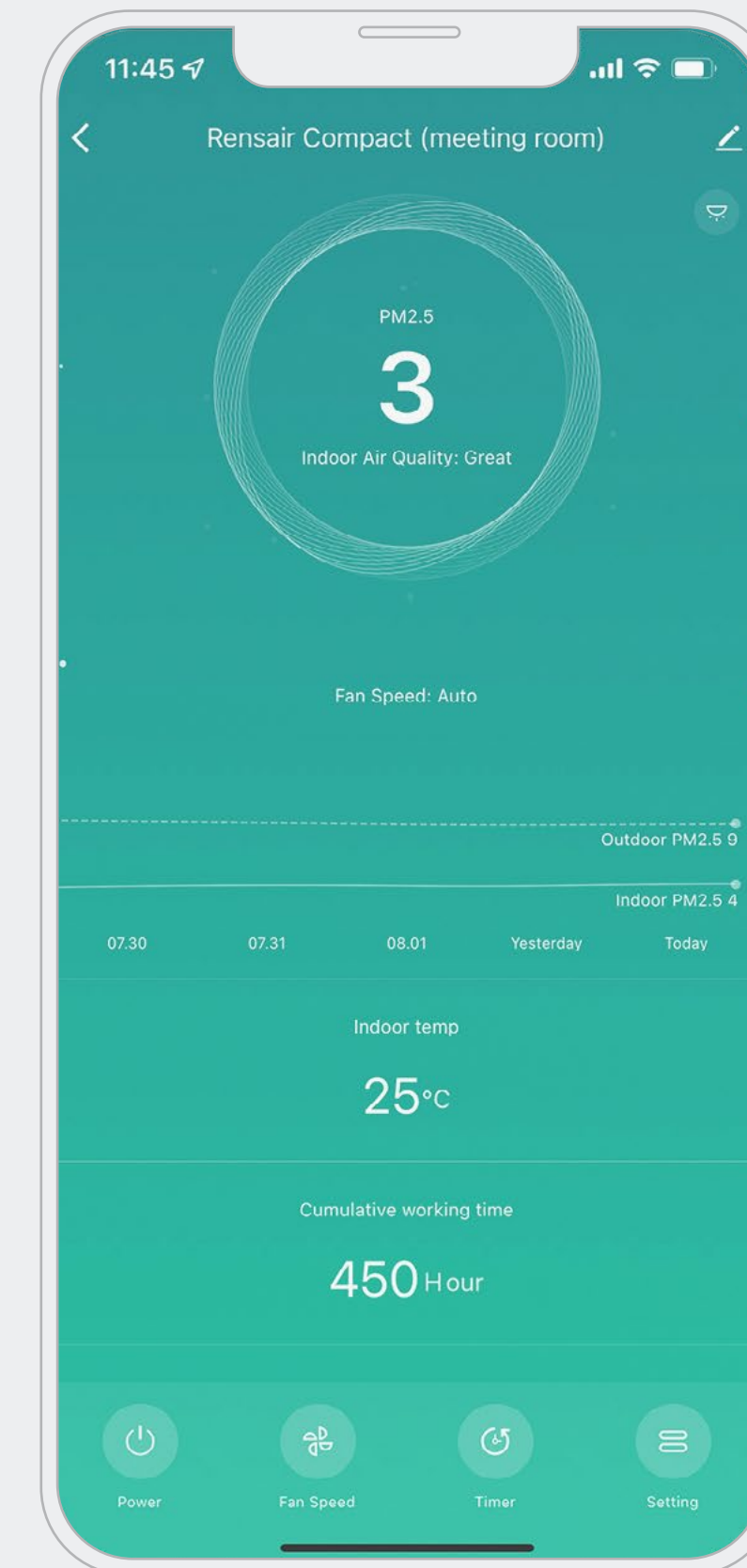
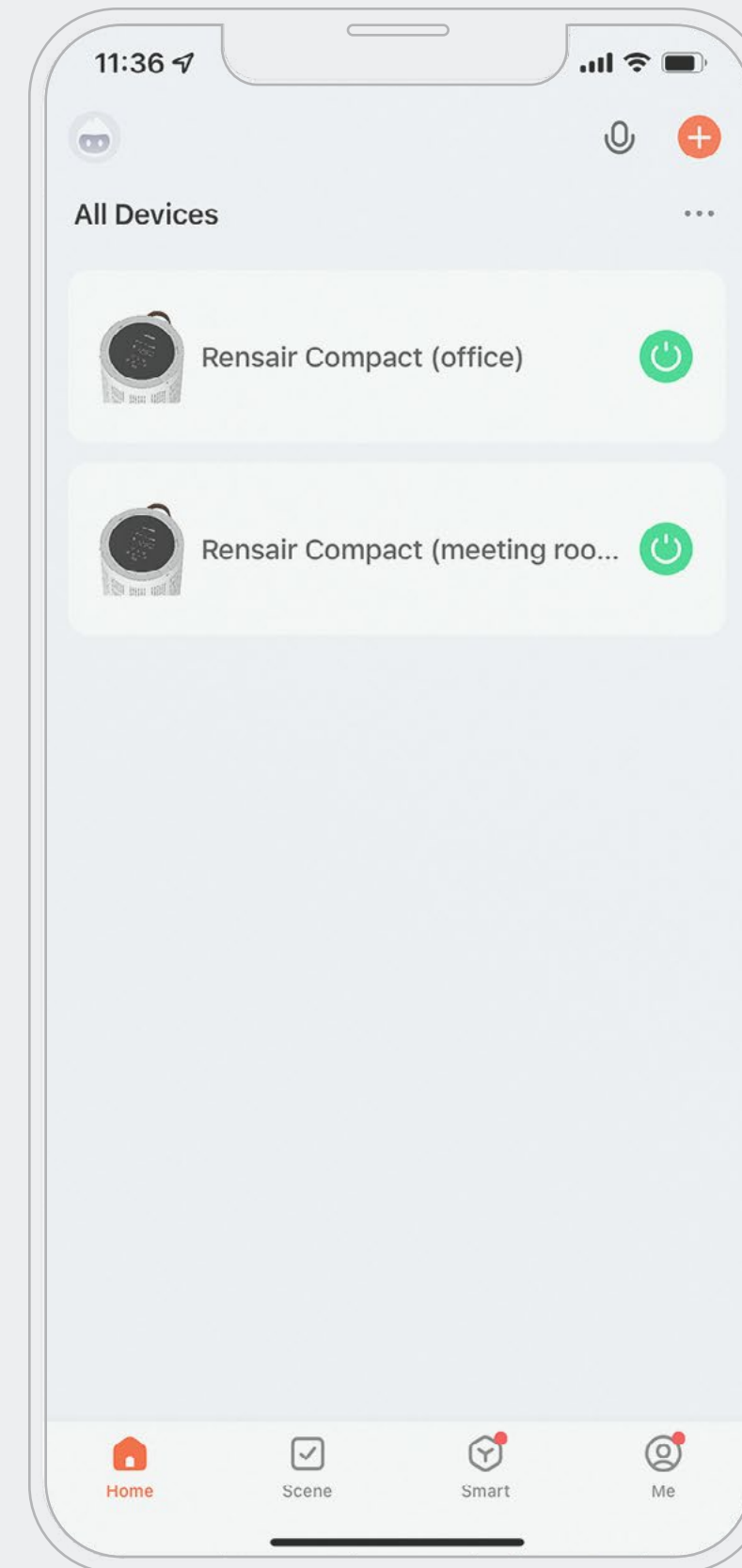
## — COMPACT

# Smart management

Using the Tuya Smart app, Compact can be connected to and controlled via mobile devices such as smartphones or tablets. It is available for both iOS and Android operating systems.

As part of a smart ecosystem, operation can be controlled at the touch of a remote button or via voice control. Multiple Compact devices can be programmed to automatically adjust the fan setting according to prevailing particle concentrations, switch to the maximum setting between scheduled meetings, or start/stop working based on location and time. This ensures the optimum clean air quality when and where needed, while conserving costly energy.

Real-time alerts can be set to manage maintenance schedules and to reset the filter monitor after the filter has been replaced.



## SPECIFICATIONS

Dimensions: H:65cm / 25.6in, Ø30cm / 11.8in

Dimensions in box: H: 72.5cm / 28.5in D: 37cm / 14.6in x W: 37cm / 14.6in

Net weight: 9.5kg / 21lbs

Gross Weight (including box): 11.3kg / 25lbs

Colour: White, Black, Metallic Grey

HEPA filter: EU13 (EN 1822 class H13)

## PERFORMANCE

RENSAIR AIRFLOW VOLUME	CUBIC METRES M <sup>3</sup> /HOUR	CUBIC FEET FT <sup>3</sup> /MINUTE	NOISE LEVEL (dBA)	POWER USAGE (W)
Quiet setting	110	65	32	45
Low setting	190	110	45	110
Medium setting	220	130	49	120
High setting	310	180	54	130
Turbo setting	460	270	62	160

Tolerance +/- 10%

## ELECTRICAL SPECIFICATIONS

Compact 460i: CE Certified (UK & EU): 220-240V, ~50Hz, IEC C14 to C13 connector to allow for different power plugs

Compact 270i: ETL Certified (US & Canada): 110-120V, ~60Hz, US type B power plug

Length of power cord: 3m / 9.8ft

UVC germicidal lamp: 18W, 254nm light

Sensors: PM2.5 sensor measuring µg/m<sup>3</sup>

Connectivity: WiFi connectivity and controls via the "Tuya Smart" App

## MAINTENANCE

The pre-filters need to be cleaned from time to time depending on dust accumulation on the sturdy mesh. Simply push down to release and lift out the pre-filters in order to vacuum clean them.

The HEPA 13 filter and UVC lamp need to be replaced every 5,000 operational hours (~12 months) in a simple safe and straightforward operation. The unit's display notifies when this is required.

## TECHNOLOGY TESTED BY INDEPENDENT LABORATORIES

Click <https://bit.ly/39h2SGa> or scan the QR code to view independent test reports from Eurofins, NorConsult, the Danish Technological Institute and University Hospital Oslo.



For additional information  
please email [contact@rensair.com](mailto:contact@rensair.com)