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Stay cool, simple

BEANBAG

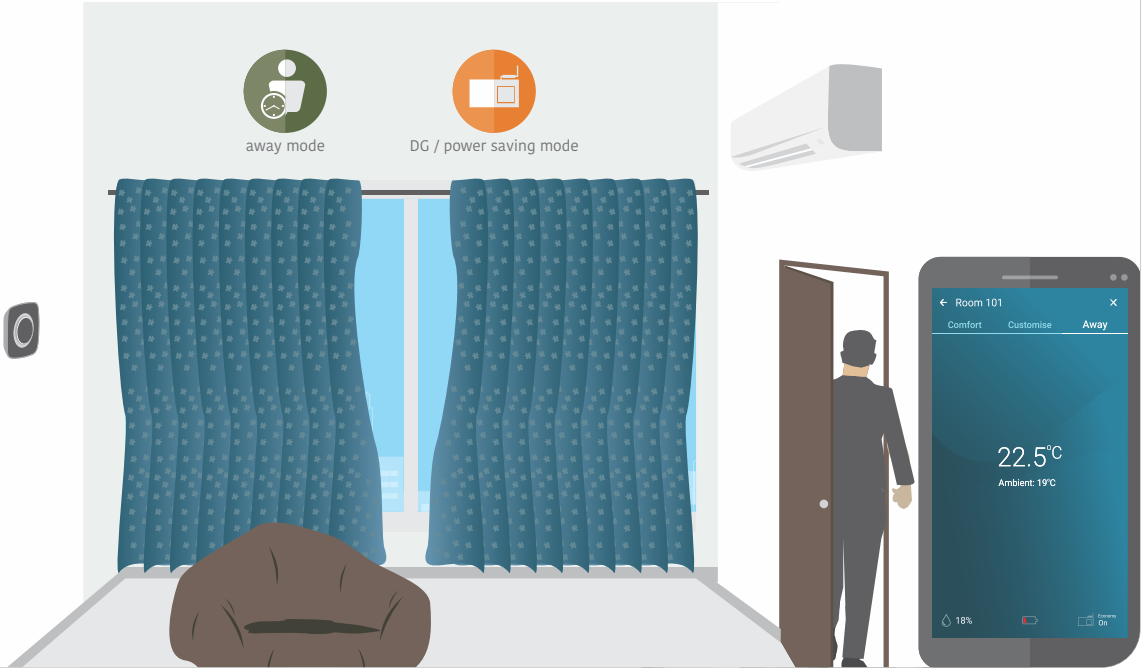
Beanbag Cool is the intelligent way to help you run your cooling system.

Allow your air-conditioner to respond to climatic changes automatically and ensure optimal cooling comfort is enjoyed by users at all times, simply and efficiently.

Using an app and an intuitive online management solution, your dispersed cooling systems can now be managed simply and conveniently from a single control-point, anywhere, anytime.

Use energy wisely and save money

Use of air conditioning is forecast to surge



Eco-conscious financial savings

Overcooling and unnecessary cooling wastes energy and money. To safeguard resources for future generations and save money, we need to improve the management of our cooling systems. AC controls also need to become easier to use and more efficient.

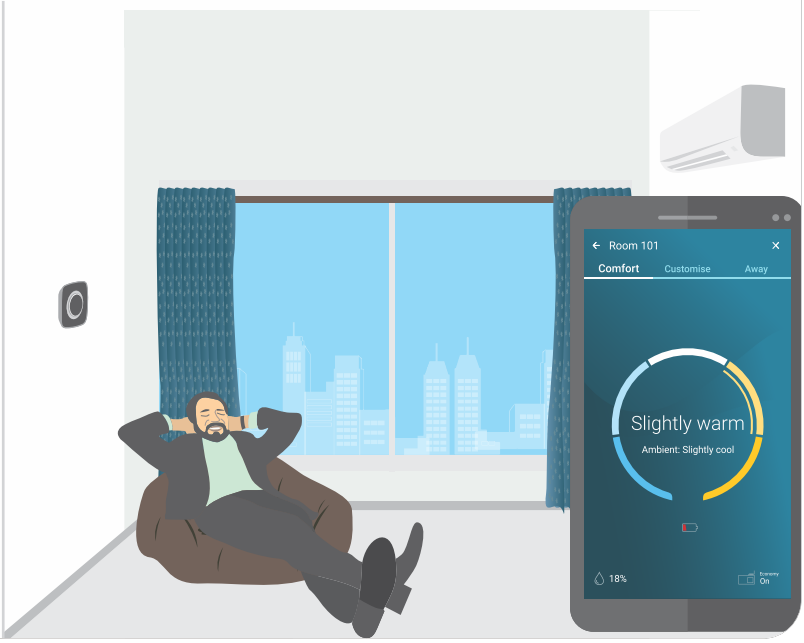
Beanbag Cool integrates with new and existing systems to deliver optimal cooling, simply and efficiently. 'Away' mode helps you take care of unoccupied rooms at optimal cost, and assures a comfortable re-occupancy at any time of day or night. In the event of mains power outage, an instantly activated 'Economy' mode protects users from potentially high DG running-costs.

Intelligent technology helps you avoid the need for physical intervention with individual AC units. Building owners and managers can use online services to connect to their dispersed cooling systems, anytime, anywhere. **This solution avoids wasting energy or money** and **significantly reduces management costs.**

Uncomfortable temperatures can cause ill-health

Beanbag Cool simply delivers **optimal comfort**

Simplify life - manage multiple ACs smartly



Well-being and convenience

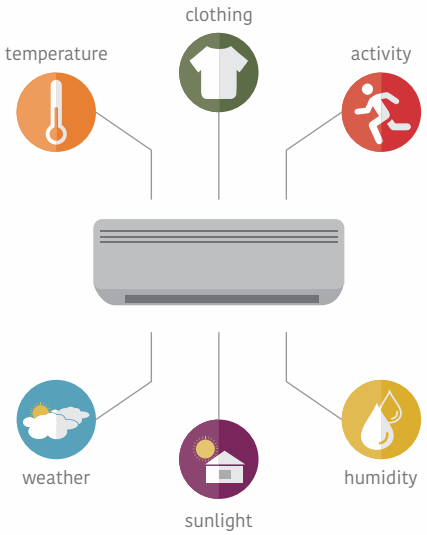
Uncomfortable temperatures in homes and buildings cause physical stress and discomfort. Maintaining thermal comfort in our living and work space is important for health and well-being.

Attending to ACs in a large family home, multiple dwellings and commercial buildings is time-consuming, may be inconvenient for occupants and is not always possible. The larger the scale and complexity of a premise, the more time-consuming and costly it is to deliver consistent cooling comfort.

Beanbag Cool's **user-friendly app and online web-services** dramatically simplify life. Multiple cooling systems can be managed from a **single control point,** anytime, anywhere. Facility managers dedicating precious time, and a stretched budget to visit individual cooling units across large properties is history.

Our solution is **quick, easy to install** and its **use is intuitive.**

Many factors affect thermal comfort.



Temperature is only one factor

Deliver more **comfort,** more **conveniently**

Evolve your cooling system

Air conditioners need adjustment to deliver optimal comfort throughout the day. If left unchanged, the result can be thermal discomfort and energy wastage.

Now you can manage your ACs* to deliver **consistent optimal comfort very simply.** Intelligent logic and sensors can enable your units to make **changes to climatic conditions in real time.**

American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE) states that thermal comfort is affected by six main factors**. Air conditioners only take temperature into account. Guessing which temperature-setting will deliver optimal consistent comfort, is not efficient.

Our user-friendly app-controls and web-services deliver **convenient and cost-effective online control and management.** You will no longer arrive to a stifling-hot home, or a stuffy and humid hotel room. Shivering in a hospital waiting area, or in the office reception is not going to happen with this solution installed.

* Fan coil units (FCU), split, window and cassette units.

** ASHRAE 55-2010

Solution at glance

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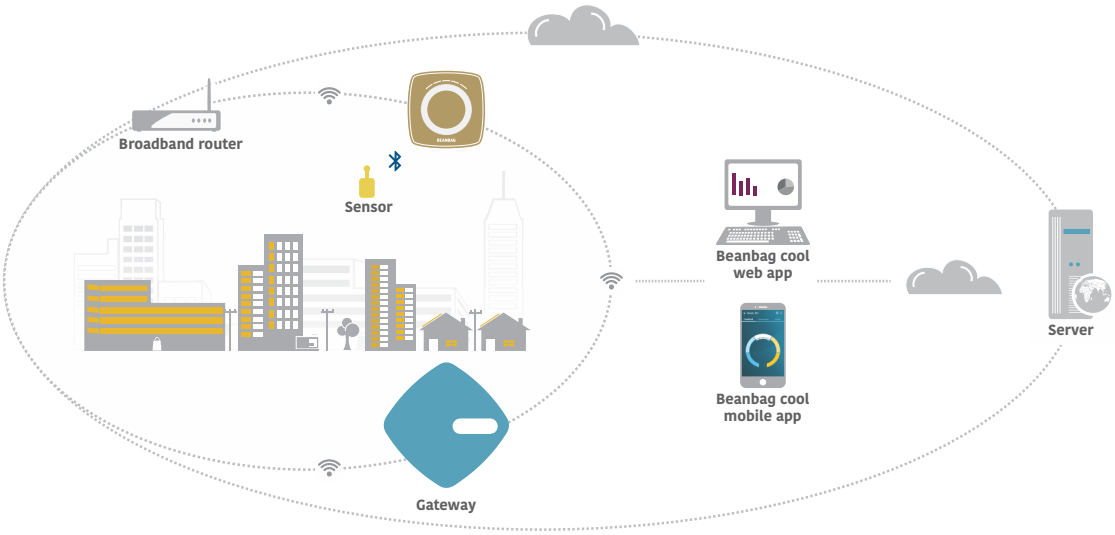

Notes

Technical features - DX

Comfort mode	Five-settings (Cool, Slightly-cool, Comfort, Slightly-warm or Warm)
Simple commissioning	Four-step IR code learning, plugs to existing Wi-Fi; easy to replace existing thermostat.
User-friendly interface	Smooth-dial setting selection with coloured LED indicator
Convenient control	Remote control of thermostat with Beanbag Cool's mobile / web app
Security	WPA2 security and cryptographic protocol (TLS1.2) ensure data privacy and authenticity
Energy efficiency	If mains supply fails and DG activates, Economy-mode activates automatically
User-rights	Facility to enable / disable local control
Compatibility	All DX systems (window/ split/ cassette – as long as remote has a display)

Technical features - FCU

Mode options	Comfort, Customised or Away
Comfort mode	Five-settings (Cool, Slightly-cool, Comfort, Slightly-warm or Warm)
Simple commissioning	Easy to integrate with existing Wi-fi network; easy to replace existing thermostat.
User-friendly interface	LCD display, touch keys
Convenient control	Remote control of thermostat with Beanbag Cool's mobile / web app
Security	WPA2 security and cryptographic protocol (TLS1.2) ensure data privacy and authenticity
Energy efficiency	If mains supply fails and DG supply activates, Economy-mode activates automatically
User-rights	Facility to enable / disable local control
Compatibility	Works with large majority of all existing and new FCUs

Technical specification

Electrical

Purpose of control	Increase comfort, convenience and efficiency of air-conditioners
Power supply	90 -265V, 50 – 60HZ
Battery life	5 years (temperature sensor)
Software class	Class A

Radio

Mesh radio-type	Wi-Fi and BLE [Wi-Fi: IEEE 802.11 b/g/n 20MHz, 2.4GHz ISM band, Supports IEEE 802.11 WEP, WPA, and WPA2 security, BLE 4.0 beaconing mode]
Operating frequency	2.4 GHz
Receiver category	Category 3
Power class	Class B
RF range	>100 m, line of sight for Wi-Fi, >30 m, line of sight for BLE

Mechanical

Dimensions	105 mm x105 mm x35 mm for FCU 96 mmx96 mm x28 mm for DX system
Temp. sensors (for FCU)	72mm x72mm x20mm

Technical specification

Case material	PC FR
Weight	115 gms for FCU, 80 gms for DX system
Display	LCD display for FCU; Coloured LED display for DX system
Mounting	Snap-fit wall mount for FCU; key-hole wall mount for DX system

Environmental

Impulse voltage rating	Cat II 2.5KV
Enclosure protection	IP30
Pollution	Degree 2
Operating temperature range	0˚C to +55˚C
Storage temperature	-20 °C to +70 °C
Environmental humidity range	10 to 95%
Set-point range	18 °C to +32 °C

Compliance

Standards	EN60730-1, EN 60730-2-9 Radio ETSI En300328 Safety EN60730 Class II