

Flipkart CASE STUDY

Saving Energy and increasing employee comfort



THE CHALLENGE

Flipkart, India's most popular e-commerce brand, has a simple mantra; 'To delight our customers externally, we need to delight our employees first.' The company is hence dedicated to enhancing employee experience, benefits and wellness and prioritises employee needs and feedback.

Which is why when Flipkart's Hoskote facility's employees complained of a musty smell and uncomfortably warm temperatures in parts of the office (temperatures fluctuated at 3 to 7 degrees above set temperature), the facility manager immediately set out to find a solution. In addition to addressing these complaints for this facility operating 10-12 hours a day and the NOC room operating for 24 hours a day, Flipkart needed a proactive solution that would account for the varying number of employees through the day and create optimal conditions for their employees while saving energy and providing centralised control & complete visibility.

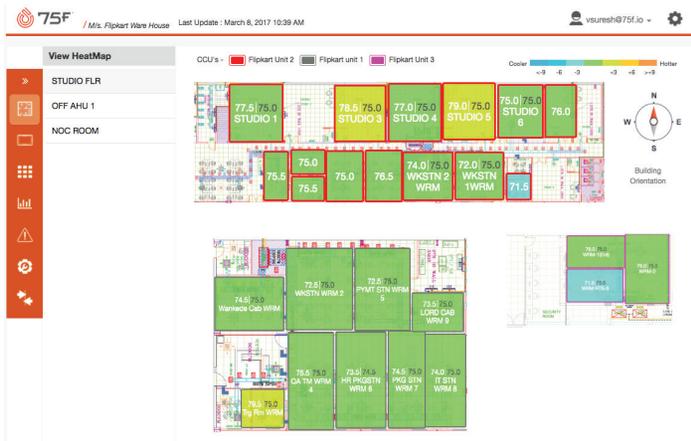
AT A GLANCE

Location	Hoskote, Bangalore
Project	Dynamic Airflow Balancing
Square Footage	12,000
Installed Units	2 Nos. 16.5 TR Ductable units 2 Nos 5.5 TR Ductable units
Previous Conditions	All HVAC systems were manually operated. No centralised monitoring and control in place. Cold spots in workstations No fresh air systems installed.

THE 75F SOLUTION

Dedicated to offering a comfortable environment for their employees while saving energy, Flipkart deployed the 75F Dynamic Airflow Balancing™ solution across the ground floor of their Hoskote Facility as a pilot installation. 75F installed 3 Centralised Control Units (CCUs), 32 Smart Dampers and 20 Wireless Room Modules (WRMs) in the facility to help monitor, manage and control the HVAC system thereby helping Flipkart achieve its sustainability and energy saving goals. With the Facilisight app, the Flipkart facility manager receives the required insights for optimum operation and preventive maintenance.

The sensors take a thermal snapshot every minute to build a vast empirical model that informs the smart algorithms in the cloud. These smart algorithms wirelessly transmit data back to the VAVs or smart dampers, proactively adjusting throughout the day to regulate temperatures. All these wireless devices are controlled by Central Control Units, which are known as the brains of the operation. Installation and setup took two technicians five days to complete.



75F optimised employee comfort at Flipkart by temperature balancing in problem areas thereby eliminating hotspots and coldspots.

THE RESULT

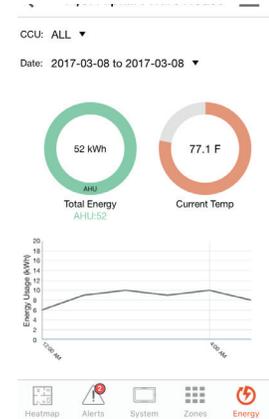
The 75F solution at Flipkart offered the facility manager and the employees a variety of benefits. The facility manager now has greater insight and control over the facility and is able to monitor energy usage in real-time.

Employees are no longer concerned about ‘hotspots’ as temperatures are consistent across the office. In fact, while last summer the facility management team received several complaints about inconsistent temperatures, this year post 75F’s solution installation, the complaint count is ZERO!

At the same time, by reducing energy waste and optimising the compressor run time 75F has delivered upto **32% energy savings on HVAC** at the Flipkart facility.

Thanks to Facilisight, the Flipkart facility manager can now:

- ▶ Monitor energy consumption of the different components of his HVAC ecosystem
- ▶ Monitor energy consumption of different zones
- ▶ Troubleshoot and take corrective measures on real-time basis.



The compressor runtime was optimised to realise upto 32% energy savings at the Hoskote facility