

RADIFLUX RADIANT BAFFLES SYSTEM

Pioneered by Infosys

An Initiative in Orchestrating
Green Buildings and Smart
Spaces



Infosys®
Navigate your next



At Infosys, sustainability is the lens through which we build, innovate, and operate. Long before global deadlines loomed, we made a commitment to act, and in 2008 we took up the challenge to rethink the fundamentals.

We began by looking inward. Recognizing that cooling systems account for a significant share of building energy consumption, we identified them as a critical opportunity for change. We asked ourselves if we could cool smarter.

Our team developed the Infosys Radiflux Radiant Baffles System, a product inspired by insight, shaped by data, and driven by purpose. With European and Indian patents, it is a leap forward in sustainable design, built to reduce commercial carbon footprint, enhance comfort, and reimagine the future of climate-responsive design in an era of global environmental change.

A CLIMATE CONSCIOUS INNOVATION BORN FROM PURPOSE

THE NEW BENCHMARK IN BUILDING COOLING TECHNOLOGY

The Infosys Radiflux Radiant Baffles System is Infosys' proprietary innovation in HVAC technology, offering double the cooling capacity of conventional systems. **Made in India** with a **15-year warranty**, the Infosys Radiflux Radiant Baffles System utilizes advanced radiant cooling technology that transfers heat up to four times faster than traditional methods. Unlike conventional systems that rely on air, it uses water, a medium with 3,400 times the heat-carrying capacity of air, making it significantly more efficient and sustainable.



Cooling Capacity

Heat transfer rate of 90-110 W/m²



Chilled-water-based System

Uses 16°-20° C water for sensible cooling and 7° C - 12° C water for latent cooling



Baffles Arrangement

Vertical, perpendicular to the floor, and connected in series





With measurable energy savings, improved air quality, and consistent comfort, the Infosys Radiflux Radiant Baffles System outperforms traditional systems. It offers a cooling capacity of 90-110 W/m², significantly higher than the 50-70 W/m² of traditional systems.

It delivers up to **40% energy savings** and uses **75% less air**, making it far more efficient and space-saving. With a **15-year warranty**, double that of conventional systems, the Infosys Radiflux Radiant Baffles System stands out as a smart, sustainable alternative to traditional HVAC solutions.



Certified Performance

Tested by WSP Lab, Germany
(EN14240)



Built to Last

Backed by a 15-year warranty



Fast & Easy Installation

Supports customizable loop lengths and push-fit connections to fit into both new and existing buildings



Aesthetic Appeal

Supports Monolithic construction



Increased Energy Savings

Up to 40% lower energy use



Improved Indoor Air Quality

70% fresh air, no recirculation



Consistent Comfort

Minimised temperature swings



Reduced Fan Load

Cuts AHU power by up to 70%

THE TECHNOLOGY THAT DELIVERS IMPACT

ENGINEERING EXCELLENCE IN EVERY PANEL

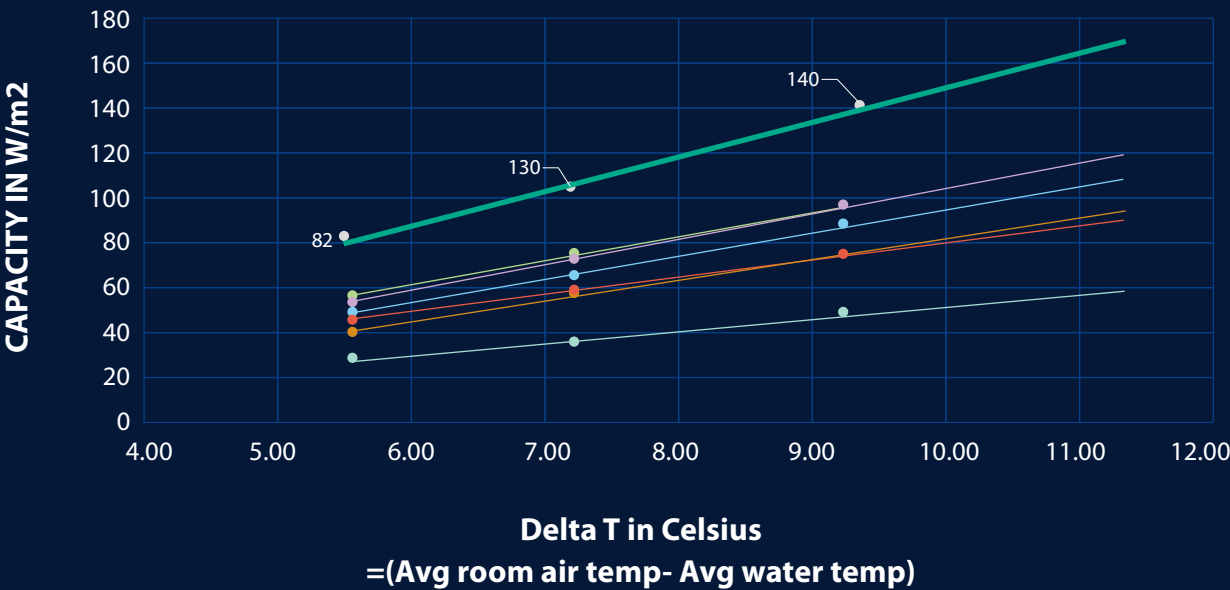


The Infosys Radiflux Radiant Baffles System is a cooling technology built for reliability, precision, and long-term performance. Crafted from extruded aluminium alloy, the baffles ensure flexibility and easy scalability.

TECHNICAL SPECIFICATIONS

Heat Transfer Rate:	90-110 W/m ²
Construction:	Monolithic with powder coating (80-micron, emissivity >0.9)
Chilled Water Flow:	0.7-0.8 gpm per loop
Pipe Diameter:	16 mm OD / 12 mm ID
Coverage Area:	30-50%
Loop Lengths:	Available in varying lengths
Mounting Angle:	90° vertical with push-fit connections
Weight:	1.3 kg/m

Graph 1: Comparison of capacity- W/m²



● Infosys - 150mm spacing ● Barcol Air ● Frenger Systems ● Giacomini ● Trox ● Zent Frenger ● Uponor Ecophit Panels

*Results under standard operating conditions

The Infosys Radiflux Radiant Baffles System offers an impressive return on investment, with a typical payback period of less than 2 years. This rapid ROI is driven by a combination of significantly lower installation costs, approximately ₹1,500 to ₹2,000 per square meter, about one-third the cost of traditional systems, and ongoing savings in operational expenses. Radiflux is 30-35% more energy-efficient than conventional air conditioning, leading to

substantial reductions in energy bills. Additionally, its streamlined design requires minimal maintenance, further lowering long-term costs. While project-specific factors such as area size, site complexity, and labor rates may influence exact figures, Radiflux consistently delivers a faster payback and stronger financial performance across diverse applications. Let us see how our system compares to other similar systems in the market.

Table 1: Comparison with competitors

Features	Infosys Radiflux	Barcol Air	Frenger Systems	Giacomini	Trox	Zent Frenger	Uponor Ecophit
 Cooling Capacity (W/sqm)	90-110	53-74	52-71	27-35	40-57	49-66	46-75
 Chilled Water Temp (°C)	16 in, 20 out	7 in, 12 out	7 in, 12 out	7 in, 12 out	7 in, 12 out	7 in, 12 out	7 in, 12 out
 Flow Rate (gpm)	0.7-0.8	0.5-0.6	0.5-0.6	0.5-0.6	0.5-0.6	0.5-0.6	0.5-0.6
 Installation	Easy, Quick-fit	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate
 Energy Savings	40%	20%	20%	15%	15%	20%	20%
 Warranty	15 years	10 years	10 years	10 years	10 years	10 years	10 years

EFFICIENCY THAT BRINGS IN
REAL RETURNS

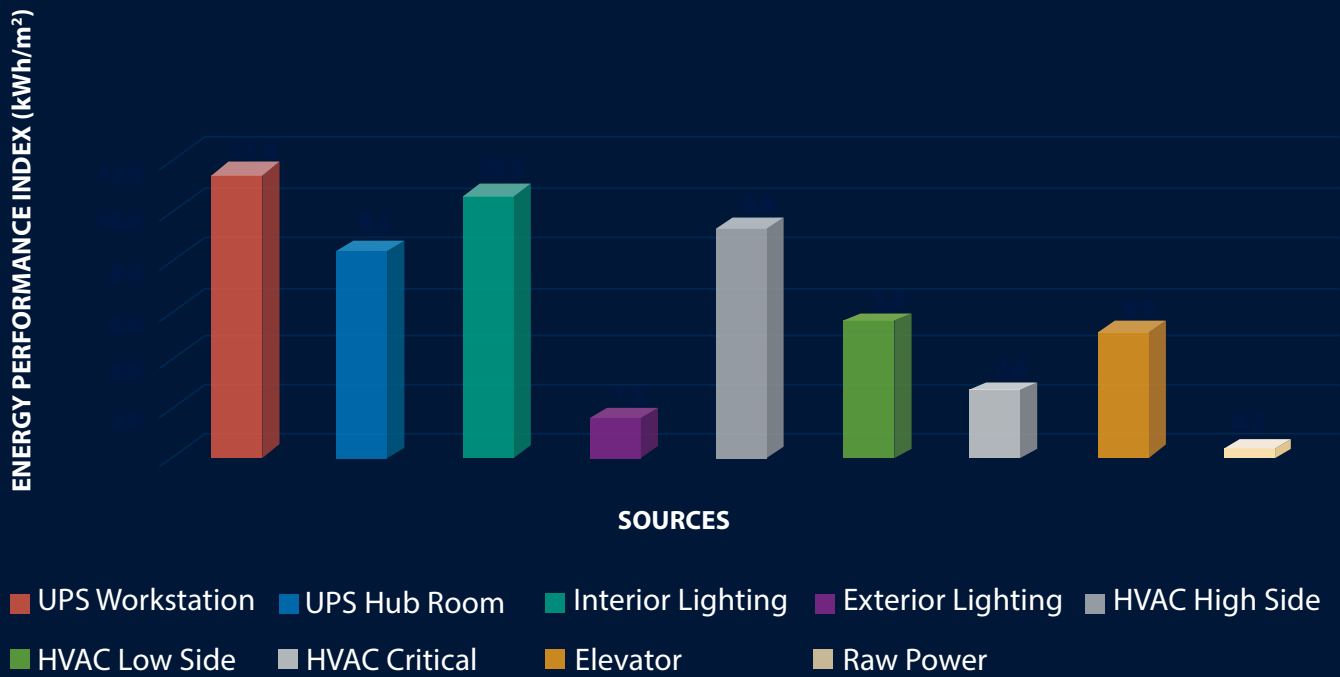
PROVEN IMPACT AT SCALE

The Infosys Radiflux Radiant Baffles System is a field-tested solution powering some of the most energy-efficient campuses in India.

Its success across locations proves that when innovation is backed by performance, scale is never a barrier.

Graph 2: Electrical end-use EPI

Energy Performance Index (EPI): **54 kWh/m²-year**



RECOGNITIONS & PUBLICATIONS



Global CSR Excellence & Leadership Awards 2017

Best Environment-friendly Project



Shortlisted: The Energy Awards 2015, London, UK

Innovative Technology of the Year



Featured Publication

Technology Transformation in Cooling Buildings: A Case Study in Radiant Cooling - ISHRAE Journal

Get Ready to Redefine Your
Sustainability Strategy.

INFOSYS RADIFLUX RADIANT BAFFLES SYSTEM

A smart cooling technology delivering sustainable transformation at scale.

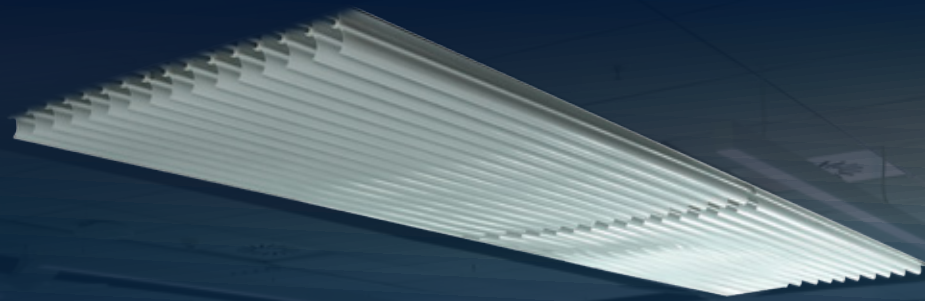
Design and Installation Partner:
KNND Associates Private Limited



Knowledge Partner:
RSP Design Consultants (India) Private Limited



Manufacturing Partner:
Bhoruka Fabcons Private Limited



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