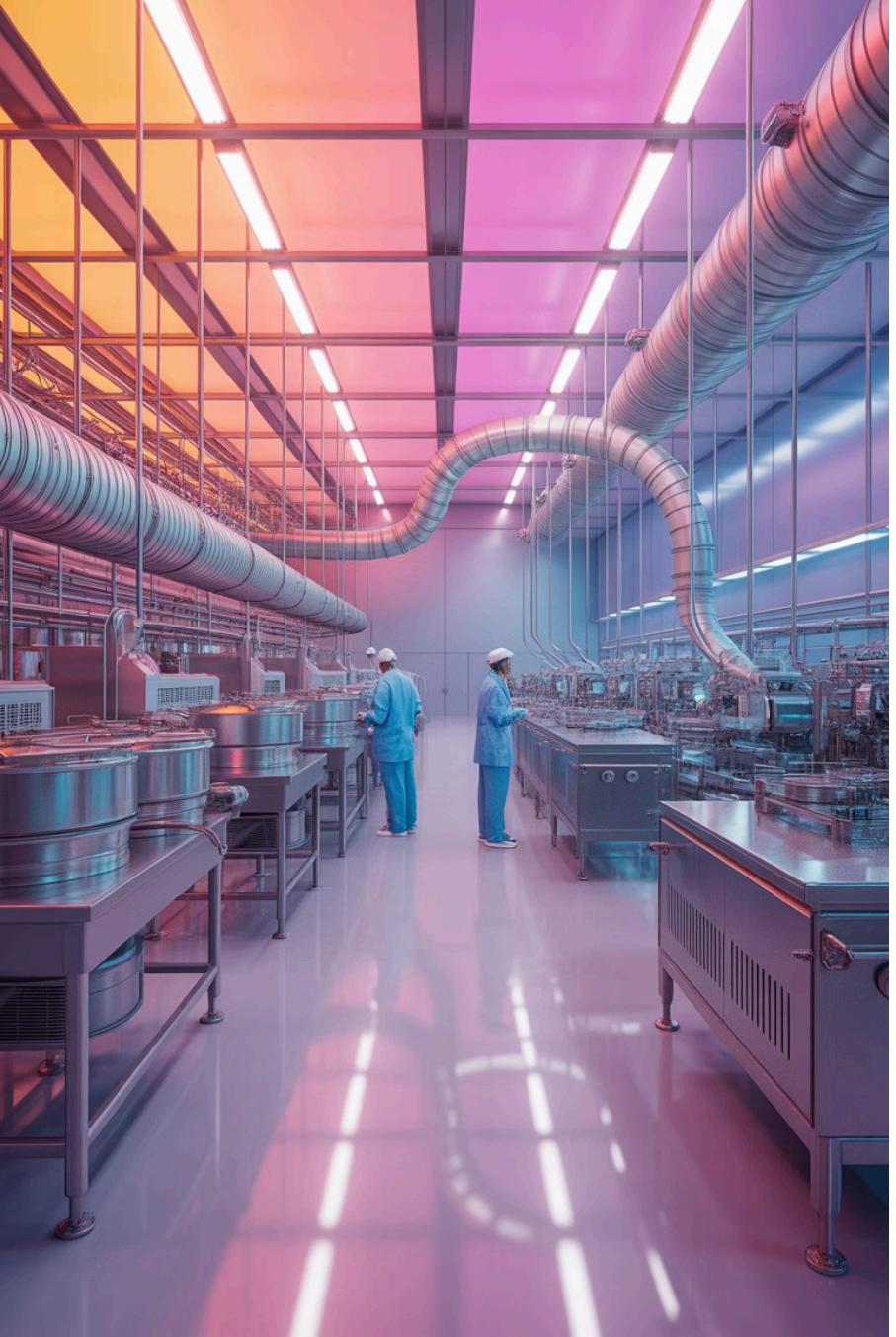




Comprehensive HVAC & MEP Solutions – Service Comparison Chart



Food Industry HVAC Solutions (Main USP)

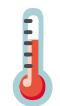
Our specialized food industry HVAC solutions represent our core expertise, delivering industry-leading systems designed specifically for food processing environments. From snacks processing to cleanroom packaging, we provide comprehensive solutions that meet the highest hygiene and safety standards.

Comprehensive Guide to Food HVAC System Sub-Segments				
Sub-Segment / Application	Key Deliverables	Timeline (Avg.)	Cost Range	Special Notes / USPs
Snacks Processing	Heat load design, humidity & temperature control, oil mist extraction, hygiene ducting	16-24 weeks	₹₹₹	Designed for high grease load and hygiene standards
Beverages & Juices (Clean Packaging Rooms)	Cleanroom-grade positive pressure HVAC, filtration (HEPA/ULPA), fabric ducts	20-28 weeks	₹₹₹₹	ISO cleanroom-compliant; contamination-free packaging
Sauces, Gravies & Pastes	Moisture & odor control, anti-corrosive ducting, washdown design	20-24 weeks	₹₹₹	Custom stainless-steel finishes; hygienic design
Namkeen Production	Heat recovery, oil fume capture, temperature balance	16-20 weeks	₹₹₹	Optimized for frying and spice environments
Kitchen Ventilation Systems	Exhaust & fresh air system, hoods (tandoor, frying, steam), oil mist filtration	12-16 weeks	₹₹	Balanced airflow and odor-free environment
Half Frozen & RTE/RTS Products	Zoned temperature control, low-temp AHUs, dehumidification	20-28 weeks	₹₹₹₹	Product quality retention & shelf life optimization
Powder Handling (Spices, Dairy, Additives)	Dust-free HVAC, HEPA filtration, ATEX safety where needed	20-24 weeks	₹₹₹	Hygienic air distribution; safety for fine powders
Specialty Features	Hygienic Design, Positive Pressure, Fabric Ducts, Clean Packaging Integration	—	—	★ Core USP — Industry-leading expertise in Food HVAC systems



Industrial Ventilation & Cooling

Sub-Segment / Application	Key Deliverables	Timeline (Avg.)	Cost Range	Special Notes / USPs
Large-Scale Single Stage Cooling	High-volume evaporative cooling, ducting, exhaust	12–20 weeks	₹₹	Energy-efficient cooling for factories & warehouses
Two-Stage (Indirect + Direct) Cooling	Combined system for temperature & humidity control	16–24 weeks	₹₹₹	Up to 40% energy savings vs. conventional
High ACH Ventilation Systems	Fresh air supply, exhaust, filtration	12–16 weeks	₹₹	For kitchens, industrial zones, and warehouses
Energy Efficient Ventilation Systems	EC fans, automation, VFD integration	16–20 weeks	₹₹₹	Lower running cost, optimized performance
Case Studies	Documented large-scale projects	—		Proven expertise with real-world performance data



HVAC Turnkey Systems

Sub-Segment / Application	Key Deliverables	Timeline (Avg.)	Cost Range	Special Notes / USPs
VRF Systems	Complete design, supply, install & testing	12–20 weeks	₹₹₹	Ideal for hotels, offices, towers
Chiller Plants (Air/Water Cooled)	Design, pipeline, cooling towers, automation	20–32 weeks	₹₹₹₹	Centralized comfort & process cooling
DX AHUs	Packaged HVAC with precision control	12–16 weeks	₹₹₹	Cost-effective cooling with flexibility
Precision Air Conditioning	High-accuracy systems for data centers & labs	16–20 weeks	₹₹₹₹	±0.5°C temp and humidity control
Cleanroom HVAC	ISO 5–8 classified design, validation	24–32 weeks	₹₹₹₹	Pharma/food grade systems
Cold Storage HVAC	Low-temp control, defrost cycles, insulation	20–28 weeks	₹₹₹	For frozen and perishable goods



MEP Solutions

Sub-Segment / Application	Key Deliverables	Timeline (Avg.)	Cost Range	Special Notes / USPs
Electrical	Panels (HT/LT), cabling, earthing, lighting	16–24 weeks	₹₹₹	Integrated electrical + HVAC execution
Plumbing	Water supply, drainage, STP/ETP tie-ins	16–20 weeks	₹₹	Sustainable flow systems
Fire Fighting & Suppression	Hydrant, sprinkler, gas suppression	16–24 weeks	₹₹₹	NFPA-compliant safety systems
Integrated BMS & Controls	Central monitoring, energy management	20–28 weeks	₹₹₹	Smart, automated plant control
Turnkey EPC Contracts	Design + supply + installation + testing	Variable (as per scope)	₹₹₹₹	One-stop solution for MEP+HVAC



Turnkey Execution Flow (All Categories)

01

Design & Consultancy

Site survey, layout planning, technical design

Deliverables: Detailed project report, drawings

Revised Duration (Avg.): 4–6 weeks

02

Heat Load Calculation & Technical Sizing

Software-based load analysis

Deliverables: Equipment sizing & selection

Revised Duration (Avg.): 4–6 weeks

03

Supply & Installation

Procurement, erection, and system setup

Deliverables: On-site installation & supervision

Revised Duration (Avg.): 12–20 weeks

04

Commissioning & Validation

Testing, balancing, performance checks

Deliverables: Handover documents & performance certificate

Revised Duration (Avg.): 4–6 weeks

05

AMC & After Sales Support

Preventive maintenance, emergency support

Deliverables: Annual service contracts, uptime assurance

Duration: Ongoing / Annual