

AVS

SERVICE BROCHURE

SERVICE LINE 04

# HVAC & Cleanroom Turnkey

Air handling, ducting, filtration and cleanrooms – manufactured by ABS Air Tech Pvt Ltd and delivered turnkey by AVS.

| 01 | 02 | 03 | 04 |
|---|---|---|---|
| AHUs up to 1,00,000 CFM | Ducting to SMACNA and DW-144 | HEPA and ULPA filtration | Cleanrooms, Class 100 to 1,00,000 |

AVS GLOBAL INNOVATION PRIVATE LIMITED · IMT MANESAR, GURUGRAM

+91 95998 81192 / 88260 90978 avsglobalpvtltd@gmail.com avsglobalpvtltd.com

# One partner for the whole plant.

AVS Global Innovation Private Limited is an engineering company at IMT Manesar, Gurugram, incorporated on 26 August 2025. We started as an authorised Voltas dealer for VRV/VRF air-conditioning and have supplied about ₹1 crore of Voltas systems.

Air-conditioning never works alone. Every system needs a power feed, a control panel and a plan for what it will cost to run. So we widened our scope to the utilities around it, and today work in four service lines: power panels, industrial automation, solar energy, and HVAC & cleanroom turnkey projects.

Panels are built through type-tested fabrication partners. HVAC and cleanroom products are manufactured by ABS Air Tech Pvt Ltd – an ISO 9001:2015 certified company with factories at IMT Manesar and Rewari, in business since 2012 – and delivered turnkey by AVS.

> Quality is our foundation, and customer trust is our greatest achievement.
>
> **Chaitanya Rao**
> Director · B.Tech, Electrical Engineering

**2025**
Incorporated on 26 August 2025

**~₹1 Cr**
Voltas VRV/VRF systems supplied

**4**
Service lines under one team

**65,000 sq ft**
Partner manufacturing – ABS Air Tech, IMT Manesar and Rewari

### Power Panels
PCC, MCC, APFC, VFD and distribution panels

### Industrial Automation
PLC, SCADA, drives, BMS and energy monitoring

### Solar Energy
On-grid rooftop solar with net-metering

### HVAC & Cleanroom
AHUs, ducting, filtration and cleanrooms

THIS BROCHURE

# Manufactured by ABS Air Tech. Delivered turnkey by AVS.

Air handling, ducting, air distribution, filtration and cleanroom products come from our manufacturing partner's factories at IMT Manesar and Rewari. AVS designs, installs, validates and maintains the system.



WHAT WE DELIVER

01 **Air handling**
AHUs up to 1,00,000 CFM, ASU, TFA, FFU and air washers with EC fans.

02 **Ducting**
Rectangular, spiral and spiral-oval, with on-site leak testing.

03 **Air distribution**
Diffusers, jet nozzles, grilles and dampers.

04 **Filtration**
Pre, fine, bag, HEPA, ULPA, metallic and carbon filters.

05 **Cleanrooms**
Panels, doors, flooring, equipment, validation and AMC.

06 **Central HVAC**
Chillers, Voltas VRV/VRF, pumps, piping and plant ventilation.

**Factory-direct**
Products straight from ABS Air Tech's ISO 9001:2015 certified factories.

**One team for the air side**
Equipment, ducting, electrical and BMS from one partner.

**Validated before handover**
Leak tests, balancing and cleanroom validation where required.

# Air handling and distribution



## Air handling

- AHUs up to 1,00,000 CFM – single or double skin; floor, ceiling, vertical and double-decker
- ASU, TFA and FFU
- Energy-efficient air washers with EC fans; evaporative cooling (FDV)
- Central HVAC – chillers, Voltas VRV/VRF, pumps and piping
- Plant ventilation and spot cooling

## Ducting

- Rectangular, spiral and spiral-oval
- GI, PPGI, aluminium, SS, MS, PP and FRP
- Built to SMACNA, DW-142/144 and ASHRAE, with on-site leak testing
- Attenuators, dampers and insulation

## Air distribution

- Diffusers, jet nozzles and grilles
- Volume-control, butterfly, opposed-blade and fire dampers

## Filtration

- Pre, fine, bag, HEPA, ULPA, metallic and carbon filters
- HEPA: deep-pleat, mini-pleat and gel-seal
- Grades G1 to U17



Air handling unit



Rectangular ducting



Spiral-oval ducting



Bag filters

# Cleanrooms, Class 100 to 1,00,000

## Construction

- PUF, PIR, Rockwool and honeycomb panels, 40–100 mm
- Swing, sliding, automatic and interlocked doors
- View panels
- Epoxy, PVC, antistatic and PU flooring

## Equipment

- Air showers
- Static and dynamic pass boxes
- Laminar air flow units
- Sterile garment cabinets
- Dispensing booths
- ESD check machines

## Services

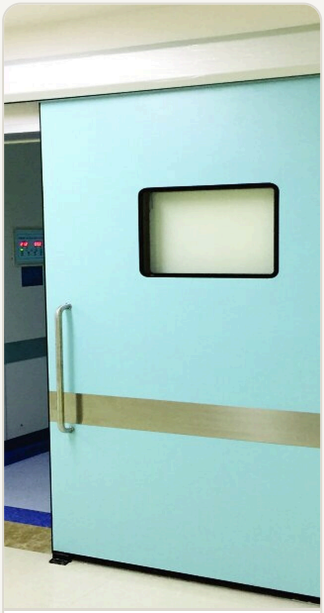
- Humidity control
- Cleanroom electrical, fire alarm and PA
- BMS
- Validation and training
- AMC

## Special environments

- Cold rooms down to -20 °C
- Acoustic rooms and emission labs
- Oil-mist, fume and dust collectors
- Electrostatic precipitators (ESPs)



Air showers



Cleanroom door



Laminar flow bench



View panels

# Products from our manufacturing partner



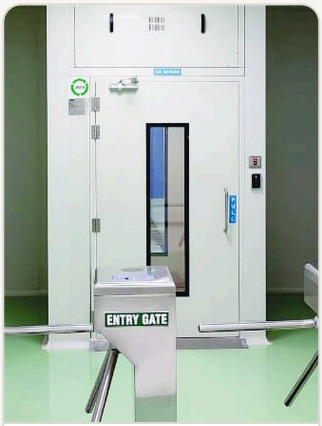
AHU access doors and fan section



Ducting in a plant



Electronics assembly cleanroom




Air shower with entry gates



Laminar air flow unit



Spiral duct with grilles



Volume-control damper



Cleanroom interior

Product photographs courtesy of ABS Air Tech Pvt Ltd, our manufacturing partner. Images are representative of the product range.

HOW WE DELIVER

# Five steps. One accountable team.

HOW WE WORK

01
### Survey and heat load
Site visit, conditions, heat-load and air-change study.

02
### Design and drawings
Equipment selection, duct layout and BOQ for approval.

03
### Manufacture
AHUs, ducting, filters and panels built at ABS Air Tech.

04
### Install and test
Installation, leak testing and air balancing.

05
### Validate and maintain
Validation where required, handover and AMC.

QUALITY COMMITMENTS

- ✓ **Built to recognised standards**
  Ducting to SMACNA, DW-142/144 and ASHRAE.
- ✓ **Leak-tested on site**
  Duct leak tests before handover.
- ✓ **Certified manufacturing partner**
  ABS Air Tech holds ISO 9001:2015 – AVS does not hold it in its own name.
- ✓ **Validated cleanrooms**
  Validation and training where your process needs it.

HANDED OVER WITH EVERY JOB

- As-built drawings
- Leak-test and air-balancing reports
- Cleanroom validation reports (where required)
- Equipment manuals
- AMC schedule




INDUSTRIES WE SERVE

Pharma | Food & beverage | Electronics / ESD | Automotive & engineering | Paint, glass & chemicals | Commercial buildings



AVS

CONTACT

# Let's talk about your plant.

Send us your load list, drawings or electricity bills, or invite us for a site visit. We reply with a clear scope and a quotation.


PHONE
+91 95998 81192 / 88260 90978

EMAIL
avsglobalpvtltd@gmail.com

WEBSITE
avsglobalpvtltd.com

REGISTERED OFFICE
Plot No. 348, Sector 6, IMT Manesar, Gurugram, Haryana 122050

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