



*TECHNOLOGY FOR
COMFORT AND
CLEAN AIR*

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WELCOME TO NORTHER TECH

At **Norther Tech**, we specialize in cutting-edge HVAC solutions, with a core focus on Air Cooling, Ventilation, Air Distribution, Air Purification, and Smart BMS integration for commercial and industrial spaces. Backed by decades of expertise, we deliver energy-efficient, high-performance systems tailored to modern building needs.

Our product range-spanning from air washers to fan filter units to air distribution-is designed to ensure optimal indoor air quality, comfort, and long-term sustainability. Each solution reflects our dedication to engineering excellence and environmental responsibility.

Driven by innovation and guided by a commitment to quality, Norther Tech places customer satisfaction at the center of everything we do.

Norther Tech - Where Technology Meets Comfort and Clean Air.





AIR HANDLING UNIT

Advanced, Energy Efficient Double Skin Air Handling Unit

- External Pre coated and internal Galvanized steel cabinet
- Thermal Bridge Free Design
- Low Air leakage
- Better Heat Insulation
- High Efficiency Heat Exchanger
- High Mechanical Strength
- IAQ Solutions
- Face and by pass Dampers
- Different Filter Grade
- Variable fan selection includes Forward-curved, Backward inclined/curve, Plug fan, EC Fans
- Frequency inverter (VFD) and thermistor
- Electrical heater
- Energy Recovery section (heat recovery wheel)
- Filter-various options Pre, Fine, Electronic, Odor Control



AIR WASHERS AND FAN SECTIONS

Air Washer Single & Double Stage



CEILING SUSPENDED UNIT & FCU



VARIABLE AIR VOLUME BOX

- Single duct pressure independent VAV boxes
- Precise control of temperature and airflow for enhanced thermal comfort.
- Provides controls to individual user
- Maintain Indoor Air Quality and saves energy.
- Precise measurement of velocity pressure through multipoint center averaging calibrated flow sensor.
- Low sound level
- VAV controllers are easy to connect with building management system or independent wall mount controller to control floor-wise.
- Easy to commission and configure using Smart Phone NFC function
- Construction in Single Skin, Double Skin with Attenuation GI/SS304
- Suitable for Airflow 380 - 12750 CMH



CHILLED WATER CASSETTE UNIT (EC Motor)

- Chilled water 4 way cassette units with uniform distribution of air
- Low sound level meets the noise criteria
- Suitable for both new construction and renovation projects of hotels, apartments, retail centers, office, buildings, and education facilities.
- Cordless Remote Control



Capacity 1.0 / 1.5 / 2.1 / 2.6 / 3.0 / 3.5/4.0 Tr



CHILLED WATER HI - WALL UNIT (EC MOTOR)

- Best suited for new projects or renovation from small to large rooms.
- Easy to install without making any changes in interior.
- Highly efficient, low sound level and comes with cordless remote control.

Capacity 1.0 / 1.5 / 1.9 / 2.5 / 3.0 Tr





WATER COOLED PACKAGE

- Ceiling mounted ducted air-conditioner
- Low cost chilled water air conditioning solution System uses common cooling tower for all units installed in a building
- Saves by 25-30% in operating cost.
- Reliable, low noise and low vibration performance.
- Compact design to fit in ceiling space, helps in saving expensive floor space.
- Economical solution for office buildings, factories, hospitals supermarkets, high street malls and commercial office spaces
- Suitable for developers & builders



Capacity : 1.2 Tr to 11 Tr Ceiling Mount, 17 Tr to 35 Tr Floor Mounted



FAN FILTER UNITS

Description

- Backward curved fan
- Low power Consumption
- Low Sound
- Long Life bearings
- CE Certified
- Designed to operate for 24/7
- Motor Type - EC/ AC 220V/50Hz/1 Phase
- Filter Efficiency- H13, H14, U15, U16
- Media - Glass Fibre
- Speed Control - 5 Speed
- FFU Casing - 0.8mm Galvalume
- Walkable Top except electrical box and air intake area
- Size : 1200x600 / 1200x1200 mm



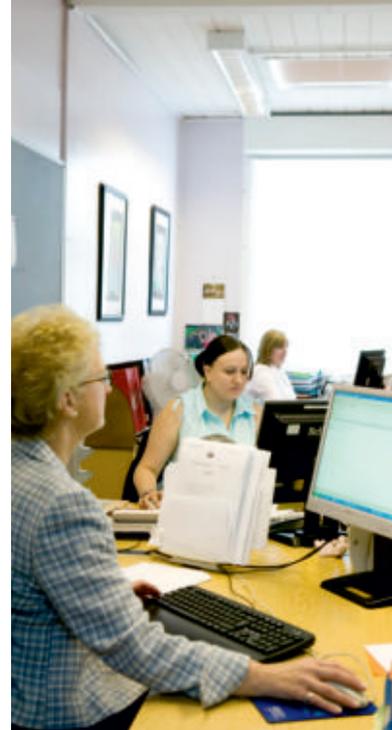
Optional

- Media paper : PTFE
- FFU casing : Aluminum , stainless steel
- Dry Contact Points for motor failure
- LED light for motor failure
- LED light for filter resistance
- Remote control operation with computer
- BMS compatibility



ELECTRONIC FILTER

- Modular design which enables them to handle 3400 to 48000 CMH or more.
- Suitable to remove particulate matter (PM2.5 and below) for commercial HVAC.
- These filters can capture particle size up to 0.01 micron.
- Capacity from 2000 CFM(3400m³/ hr)
- Multiple units can interconnect to meet system air flow requirement
- Solid-state, self-regulating power supply which maintains peak efficiency as loading occurs
- Indicator lights signal proper operation
- Capable of interfacing with building management systems
- Pre-filter screen protects cells from large dirt particles



CHEMICAL FILTRATION

- Suitable for removal of VOCs, SO₂, NO₂, Ozone, H₂S, Food Odor, tobacco smoke odor, ammonia, animal odor, acid, H₂SO₄, HCL etc.
- High removal efficiency
- Lower pressure drop
- Lower dust emission
- Low Volatile Gases
- Easy installation due to modular design
- Light weight
- Longer life span
- Size: 600x600mm, 600x300 mm
- Thickness: 100/150 / 300 mm



DRY SCRUBBER (STANDARD TYPE STA)

- Ideal for removal of smoke, fumes and oil / coolant, smoke and mist.
- Cleans contaminated indoor air and recirculate it back to the work area reducing energy costs by not having to exhaust conditioned air to the outside.
- Works on the principle of electrostatic precipitation.
- Air is drawn by the motor/blower through washable metal mesh pre-filter which traps large dust particles & we smaller practicals as 0.01 microns, pass into a strong electrical field (ionizing field) +12kV charge where particles receives an electrical charge.
- The charged particles then pass through collector plate section made up of series of equally spaced parallel plates which are negative charged. Each alternate plate is charged with the same polarity as the particles, which repels charged particles towards negatively charged plates, all charged particles are collected (stick) on plates. Collection efficiency 90-95% in single pass.





SMOKE ELIMINATOR / COMMERCIAL AIR CLEANER

- Specifically designed for rooms and areas where people work or relax, restaurant and smoking rooms
- Suitable for removal of PM2.5, VOCs, Food Odor, tobacco smoke
- The CEP600 is designed to be mounted to a solid or into a suspended ceiling
- When mounted from a suspended ceiling it extends less than 100mm into the room, dropping into one-half of a standard 600 x 600 mm ceiling tile
- The low profile design provides an appealing unit that does not require elaborate duct work or expensive installation

SOUND ATTENUATOR

- Dissipative Silencer has a tapered pod, with high dynamic insertion loss at a standard pressure drop.
- Solid Radius Nosepiece fully Tapered Pod Uniform Expansion angle for static regain.
- Superior Static Pressure performance, for acoustic performance measured dia holes are punched; splitter are filled with high density acoustic grade fibrous material.



Construction

- Outer Casing Acoustic Infill Splitter Airflow (GI or SS)
- Uni-directional



BI DIRECTIONAL SOUND ATTENUATORS

- Rectangular Dissipative Silencer has straight pod with medium dynamic insertion loss and medium pressure drop.

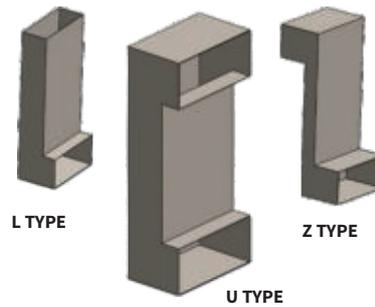
Construction

- Aerodynamically designed Solid Radius Nosepiece, bell mouth design on both sides of Attenuator
- Outer casing in Galvanised steel in various thickness and galvanisation coating as per project requirement Large size sound attenuators are constructed in modular design for easy handling Acoustic infill material is protected by perforated GI /SS sheet



CROSS TALK SILENCER

- Designed to stop sound travel between two adjoining rooms through airconditioning grilles diffuser and ducts.
- Constructed using Pittsburgh Lock Seam sheet metal.
- Capable of with standing air pressure & lined with acoustic material for sound control.



Type of Silencers

- **L-Shaped** : designed to reduce unwanted sound travel a space from a common plenum, shaft, or corridor.
- **Z-Shaped** : Designed to minimize sound transmission through a wall or ceiling.
- **U-Shaped** : Designed to prevent sound e transfer between rooms Construction
- Galvanised Steel, Infill material fibre glass or fibre free acoustic media

LOUVER

(Aluminium & Steel)

- Intake louver in Aluminum construction. The frame is of extruded Aluminum with 46 mm depth and 1.30 mm thick and blades in Aluminum with 40 mm depth and 1.00 mm thickness.
- The blade angle is at 45 degree and with free area of 53% of The Bird screen is provided in expanded aluminum construction.



Finish : Epoxy Powder Coating

ACOUSTIC LOUVER

- Used in building to prevent sound generated from various machines /chillers/ generators to other areas and still providing proper ventilation in space.



Construction

- Frame 1.6 mm galvanized steel channel.
- Blades 1.0 mm galvanized steel exterior surface 0.8mm perforated steel interior
- surface that covers insulation.
- Blade Angle To prevent ingress of water
- Screen 12mm mesh x 12 x 1.0 mm galvanized steel in removable frame

Finish Epoxy Powder coating

PRESSURE RELIEF DAMPER

- Aluminium Pressure Relief dampers are specifically designed for air intake and exhaust, and are also used for pressure relief. These are operated by gravity (when pressure increases it releases by opening the damper)





BACK DRAFT DAMPER

Made from light weight Aluminum / Galvanized Steel which are operated by gravity and stops back flow of air, used for air Exhaust and intake.



COLLAR DAMPER

- Opposed Blade Damper
- Construction : MS / Aluminum
- Control : Manual
- Size : Customized



VOLUME CONTROL DAMPER ALUMINIUM & GI

- Volume control damper opposed blade with 3V style blades regulates the flow of air inside a duct or air handler or other air handling equipment.
- Can be used to cut off the air to an unused room or to regulate the air in different parts of the building depending upon temperature, climate control, occupancy, etc.



Material of Construction

- Frame : Galvanised Steel / Stainless Steel
- Blade : Tripple V Groove Opposed Blade
- Operation : Manual / Motorised
- Frame / Blade Thickness : 1.6/1.6 mm - 1.2/1.2 mm - 1.0/1.0 mm



ROUND CONTROL DAMPER

- Construction : Galvanised Steel / SS
- Blade : Round with blade seal
- Beaded collar on both ends to provide leak free joint
- Diameter : 100 - 300 mm



FIRE DAMPER

Multi blade tripple V groove fire damper rated for 2 Hours. design Tested at CBRI tested as per UL555 for 1.5/2 hour

Frame : 1.6 mm C-channel GI, 150 mm wide with 30 mm fange

Blade : 1.6 mm GI Triple Groove, width 150 mm (optional : SS304)

Operation : Mechanical spring close

Option : with Sleeve, without Sleeve

Fusible Link : Thermal fusible link design to operate at 74 Deg C



MOTORISED FIRE DAMPER

A fire damper can be defined as “a device installed in ducts and air transfer opening of an air distribution system designed to close automatically upon detection of heat. It also serves to interrupt migratory airflow, resist the passage of flame, and maintain the integrity of the fire rated separation.

Its primary function is to prevent the passage of flame from one side of a fire-rated separation to the other.

Required by all buildings codes to maintain the required fire resistance rating of wall, partition and floor when they are penetrated by air ducts or other ventilation openings.

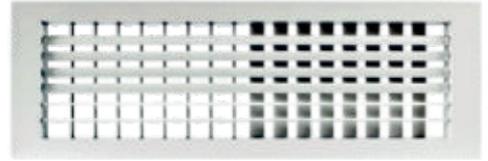
Basic requirements of building fire protection as required by all building codes is the compart mentation or division of building using fire rated walls, floor or other partitioning method.



GRILLES AND DIFFUSERS



LINEAR BAR GRILLE LINEAR



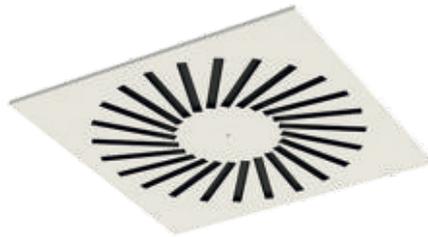
**ADJUSTABLE SINGLE/
DOUBLE LOUVER GRILLE**



SQUARE DIFFUSER



SQUARE PLAQUE DIFFUSER



SWIRL DIFFUSER



ROUND DIFFUSER



EYE BALL DIFFUSER



SPOT DIFFUSER



MULTI CONE JET DIFFUSER



EXHAUST AIR VALVE



LINEAR SLOT DIFFUSER
1/2/3/4 SLOT with Damper



PLENUM SLOT DIFFUSER
Length - 600 / 900 / 1200 / 1500 mm



DISPLACEMENT DIFFUSER ROUND





CABINET INLINE FANS

Cabinet Types

Model	: CF DD (Direct Drive Cabinet Fan)
Wheel Diameter	: 9" - 12" (228 - 300 mm)
Airflow	: 400 to 3200 CFM
Static Pressure	: 4.5 - 50 mm
Drive Options	: Direct Drive
Wheel Construction	: Highly reliable Forward curve DIDW wheel with Galvanizedsteel



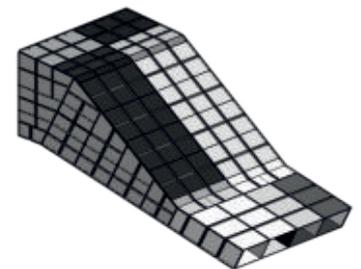
TUBE AXIAL FANS

Model	: NT -TAF
Wheel Diameter	: 300 - 1400 mm
Airflow	: 400 to 3200 CFM
Static Pressure	: 15 - 50 mm
Drive Options	: Direct Drive
Impeller	: Extruded Aluminum 6 blades
Casing	: Made in Cold Rolled Steel with Powder Coate
Safety	: Wire Mesh Protection Guard



NOZZLE

- Designed to achieve desired airflow.
- Nozzle are made of Stainless Steel (SS 304) in modular design for easy installation and handling at site.



Type of Nozzles

- Top down
- Side



METAL FABRICATION

- Transition piece suitable to connect round to square shapes constructed with heavy gauge mild steel of 4mm or more.
- Coated with high temp zinc rich paint.





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