Treated Fresh Air Unit (TFA)

SALLERIA SOLUTIONS

UP TO 50 % SAVING
IN POWER, Water

MAX AIR SERIES

MaxAir offers all the prerequisites for creating a ventilation system with the lowest running costs possible to suit your application with the added advantage of Energy Recovery which cuts down the aircon costs.

The new ***MaxAir*** Treated Fresh Air Units with added Molecular Sieve Coated Heat Wheel inside provides a complete solution for IAQ and Energy Saving in a single unit, with the option to add modules for cooling, heating, humidification, high efficiency filtration, mixing, sound attenuation, etc.

How Does the TFA Work ?

The heart of the ***MaxAir*** Treated Fresh Air Unit is the ***Fresh*** desiccant coated energy recovery wheel, which slowly rotates between its two sections. In one section, the stale, conditioned air is passed through the wheel, and exhausted in the atmosphere. During this process, the wheel absorbs sensible and latent energy from the conditioned air, which is used to condition (cool / heat) the incoming fresh Air in the other section, during the second half of its rotation cycle. Thus, you can have more fresh Air at lower humidity levels and energy costs inside your conditioned space.

TFAs are perfect for cold and dry climates as well as hot and humid climates. ***MaxAir*** TFAs helps to maintain IAQ and humidity in conditioned areas like :

- **Educational and Recreational Areas –** Schools, Auditoriums, Bowling alleys . . .
- **Hospitality –** Hotels, Restaurants, Pubs, Bars, Discotheques . . .
- **Healthcare –** Hospitals, Nursing Homes, Operation Theatres, Nurseries, Burn Wards . . .
- **Commercial Areas –** Supermarkets, Departmental Stores, Office Buildings, Conference Facility . . .

- Almost no cross contamination.
- Over 80% energy recovery both latent and sensible. Ideal for tropical climates where latent loads are 2-3 times the sensible load.
- Total energy recovery, recovers both latent and sensible energy.
- Specially, adjustable purge section rules out cross contamination of air stream. (less than .04%).
- Special labyrinth sealing arrangement ensure no cross leakage of air stream between the supply and exhaust section.
- Most advanced technology.
- Certified / Tested in international labs.
- Wheels edges hardened to suit marine / coastal application needs.
- Best LCC (Life Cycle Cost).

Ideal for Healthcare and Pharmaceutical industry

The requirement of fresh and clean air is very high in Healthcare and Pharmaceutical installations. The expression "Air handling unit in hygienic design" means that it must be possible in an easy and effective way, to clean these units' exterior and interior parts. It should be designed in a way that prevents growing of bacteria. It is also very important to design the complete unit to make it possible to inspect and clean between the different section parts like coils and heat exchangers.

MaxAir meets all the criteria as it is designed and manufactured using selection of materials to comply to Hytgiene needs !

Why TFA

- Ensures great Building IAQ
- Reduced Aircon and thus, Energy Costs
- Helps qualify for LEED Certification

Ensures good IAQ in Hotels, Auditoriums, Multiplexes and other large air-conditioned spaces !

TFAs are designed to provide IAQ plus Humidity Control

New Modular Design . . . More Model Options :

The new design allows for several functions to be placed in the same casing. The ***MaxAir*** series has a wider range to cover the flow range better making it possible for you to easily select the right unit with the lowest LCC.

Highly Reliable Operation :

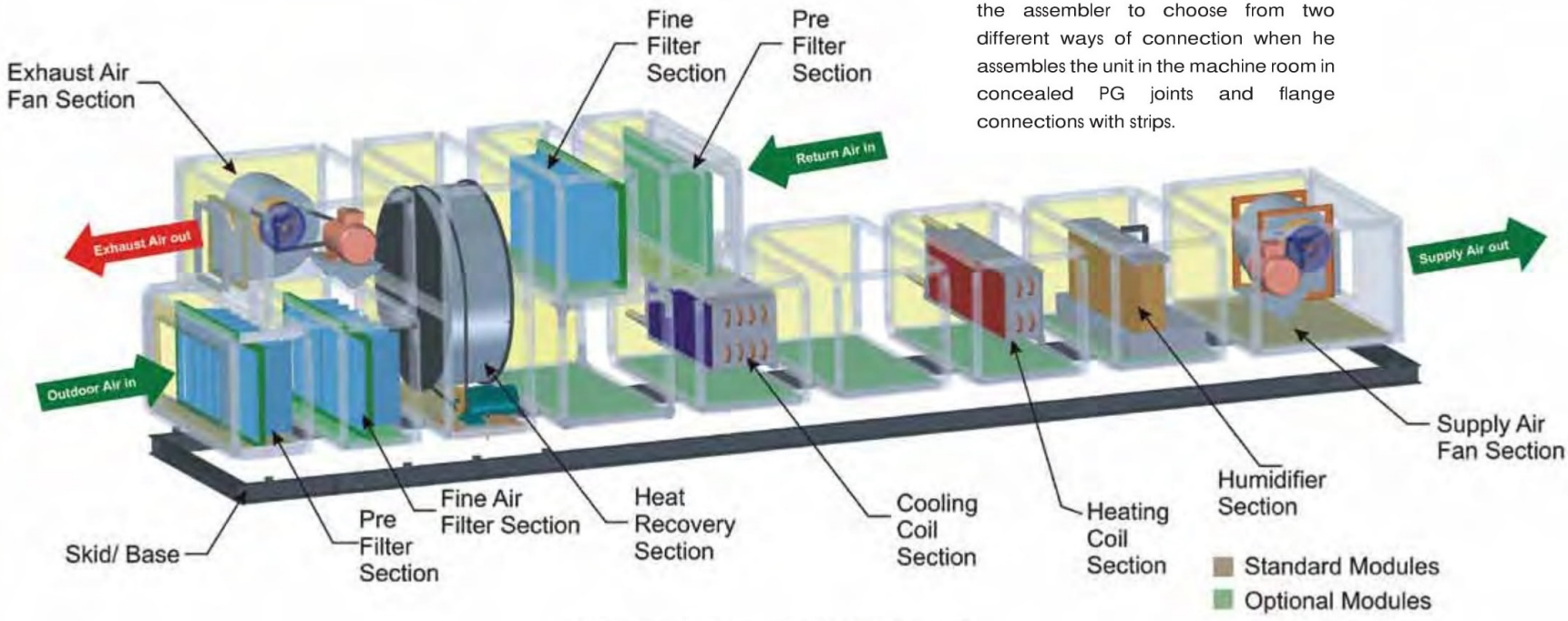
Assured problem free operations even under tough circumstances as a result of solid construction with tight sealing between supply and exhaust air ensures minimal leakage.

Best Technology in Casing Manufacturing :

MaxAir TFA is manufactured in accordance with the best technology incasing manufacturing. With 0.8 mm sheet on inside and out side, the design is very sturdy and results in better lower leakage class.

Uniquely Designed Connection system :

The unique design makes it possible for the assembler to choose from two different ways of connection when he assembles the unit in the machine room in concealed PG joints and flange connections with strips.



High Quality Standardised filters :

Deep folded bag filters with big filter areas and good sealing. The good tightness ensure clean air supply to the room is of high quality.Tool free access for easy cleaning.

Space Saving Design :

Compact design integreting all components in a single unit.

UNIT ASSEMBLY

Very Low Pressure drops :

All functions like coils, heat exchangers etc. are optimised to give lowest possible pressure drop in proportion to highest possible efficiency resulting in very low LCC.

Easy to Maintain Fan Assembly :

Tool free access to fan assembly. Fan assembly slides out for servicing with a quick disconnect system. Saves time and money !

Time tested Reliability :

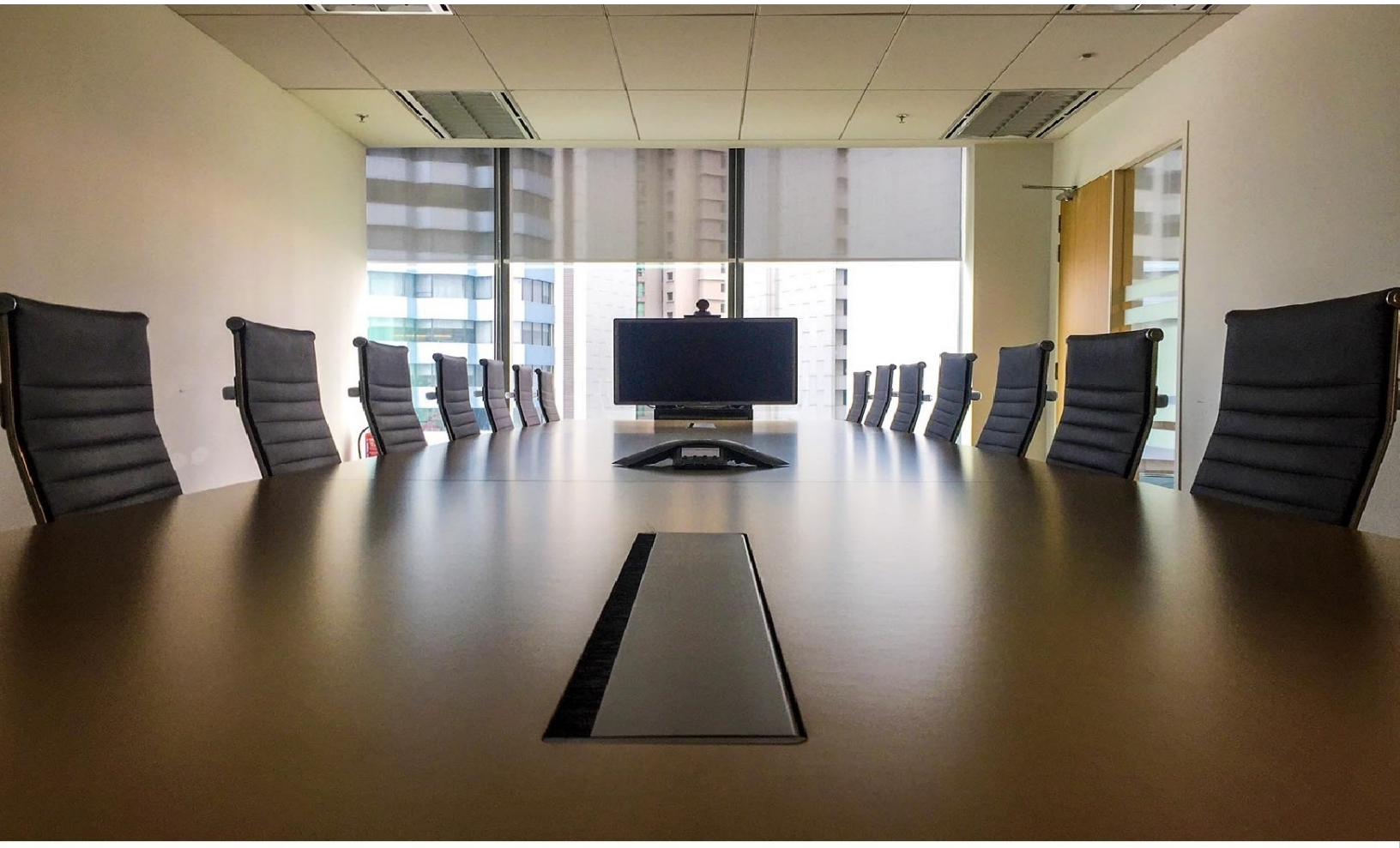
MaxAir TFA is the manifestation of experience in the field of air handling technology and over 200 man years of R&D and experience in manufacturing the world class Energy Recovery Wheels.

Meeting ASHRAE IAQ Standards means more Air-Conditioning Tonnage and more Energy...

Meeting ASHRAE* 62+, provides the necessary fresh air for building occupants; however presentsa tough challenge to the HVAC engineer. The outdoor air at a higher design level needs to be conditioned to the level of the indoor design condition, which increases the air conditioning tonnage considerably. The recurring energy expense is another matter of concern.

Thus, Cost Effective Ventilation i.e. Indoor Air Quality (IAQ) with energy conservation has become the fundamental design goal of HVAC Designers.

Today, almost all new projects are designed to include greater amounts of fresh air in the HVAC systems without a significant energy penalty by incorporating Energy Recovery.



The Air is Changing . . . Are you ?

IAQ ....

You can't ignore it any longer !

Salleria
WE CARE

SALLERIA SOLUTIONS

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