

TECHNICAL SPECIFICATION

Bulletin	: DRI-TFA-018-03
Effective	: July 8th, 2016
Supersedes	: DRI-TFA-018-02



TREATED FRESH AIR UNIT TFA SERIES (FLEXAIR-S-060 to 600)



TREATED FRESH AIR UNIT (TFA) CABINET TYPE TWO TIER SYSTEM COMES WITH FOLLOWING OUTSTANDING FEATURES

- MADE OF ANODISED EXTRUDED ALUMINIUM PROFILE FRAME WORK
- DOUBLE SKIN CASING-MADE OF 0.8mm THK. THE OUTER SKIN SHALL BE PRE COATED PLASTICIZED AND INNER SKIN SHALL BE GALVANIZED STEEL SHEET.
- 50MM THICK PANEL INSULATED WITH FIBER GLASS INSULATION CROWN-300 HAVING DENSITY OF 40 kg/cubic meter.
- THE CASING MEETS THE EUROVENT TIGHTNESS CLASS B AS PER EN 1886.
- MODULAR CONSTRUCTION SUCH AS FAN SECTIONS, HEAT RECOVERY SECTION, FILTER SECTIONS (COARSE FILTER -G3), SUPPLY AIR VOLUME CONTROL DAMPER.
- AVAILABLE IN 9 SIZES, WITH AIR FLOW RANGE OF 0.2-7.0 m³/s
- FORWARD CURVED DOUBLE INLET DOUBLE WIDTH CENTRIFUGAL FANS.
- THE FAN WHEEL & HOUSING IS FABRICATED FROM HEAVY GAUGE GALVANISED STEEL SHEET.
- FEATHER TOUCH BRUSH SEALS, MINIMISING CROSS CONTAMINATION & ENSURE LONG LIFE.
- DUCT CONNECTION FRAME.
- ROTARY HEAT EXCHANGER MADE OF MOLECULAR SIEVE COATED DESICCANT COATED ALUMINIUM FOIL.
- THE ROTOR IS MADE OF ALTERNATE AND CORRUGATED ALUMINIUM FOIL OF UNIFORM WIDTH.
- THE ROTOR HONEYCOMB MATRIX - FOIL IS WOUND AND ADHERED AS TO MAKE A STRUCTURALLY STRONG AND RIGID MEDIA WHICH DOES NOT GET CRACKED, DEFORMED ETC. DUE TO CHANGE OF TEMPERATURE OR HUMIDITY.
- THE MEDIA IS CLEANABLE WITH COMPRESSED AIR, OR LOW PRESSURE STEAM WITHOUT DEGRADING THE LATENT RECOVERY.
- ROTOR DEPTH 270mm. OPTIONALLY A 200 DEEP ROTORS ARE ALSO PROVIDED.

FLEXAIR S (TFA's) - AIR HANDLING UNITS CONSISTS OF A NUMBER OF COMPLETE FUNCTIONAL SECTIONS. A STANDARD UNIT COMES WITH 5 MODULES. ADDITIONAL MODULE/SECTIONS CAN BE SELECTED AS COMPLETE FUNCTIONS UNIT DEPENDING ON REQUIREMENT & DIMENSIONAL RESTRICTIONS FOR ON-SITE TRANSPORT AND ASSEMBLY LIMITATIONS.



ALL DATA SUBJECT TO CHANGE WITHOUT NOTICE

OPTION AVAILABILITY

THE TREATED FRESH AIR UNIT (TFA) ARE AVAILABLE WITH VARIETY OF OPTIONS i.e. TYPE OF UNIT, ADD ON BLOCKS & UNIT CONSTRUCTION ETC.

UNIT SERIES/SIZES	FLEXAIR-S (060 to 600)
CASING EI 30 (WITH SPECIAL INSULATION) FIRE RETARDENT	AVAILABLE
OUT DOOR VERSION	AVAILABLE ON REQUEST
EXHAUST AIR DAMPER	AVAILABLE
SOUND ATTENUATOR	AVAILABLE
SPACER SECTION	AVAILABLE
ELECTRICAL CONNECTION	
1) TO PROVIDE TERMINAL BOX	AVAILABLE ON REQUEST
2) COMPLETE WIRING	AVAILABLE ON REQUEST
VIEWING GLASS IN INSPECTION HATCH	AVAILABLE ON REQUEST
PLUG FAN	AVAILABLE ON REQUEST
BACKWARD CURVED FAN	AVAILABLE
FILTER SECTION AVAILABLE WITH FOLLOWING CLASS	AVAILABLE
FILTER CLASS - G3, F6, F7	AVAILABLE
FILTER CLASS - F8	AVAILABLE
FILTER CLASS - ALUMINIUM	AVAILABLE
HEATING COIL SECTION	AVAILABLE
COOLING COIL SECTION	AVAILABLE
RECIRCULATED AIR SECTION	AVAILABLE
INSPECTION SECTION	AVAILABLE
FILTER SECTION	AVAILABLE
INTAKE SECTION	AVAILABLE
MIXING SECTION	AVAILABLE
HUMIDIFIRE SECTION	AVAILABLE
ANGLE SECTION	AVAILABLE

Air Flow Range for FLEXAIR-S

S.No.	Model	Air Flow, m3/s		Power Requirement
1	FILEXAIR-S-060	0.28	0.57	415V/3PH/50Hz.
2	FILEXAIR-S-100	0.42	0.84	415V/3PH/50Hz.
3	FILEXAIR-S-150	0.74	1.47	415V/3PH/50Hz.
4	FILEXAIR-S-190	0.98	1.94	415V/3PH/50Hz.
5	FILEXAIR-S-240	1.20	2.37	415V/3PH/50Hz.
6	FILEXAIR-S-300	1.38	2.74	415V/3PH/50Hz.
7	FILEXAIR-S-360	1.71	3.41	415V/3PH/50Hz.
8	FILEXAIR-S-480	2.19	4.58	415V/3PH/50Hz.
9	FILEXAIR-S-600	2.75	5.48	415V/3PH/50Hz.