

FTA

Air conditioning units

Air flow rates from 900 to 5.000 m³/h

The air conditioning units of the FTA series are designed for domestic, commercial and hotel installations, for applications of small and medium dimensions.

Available both in vertical and horizontal version, **the frame is made from a double galvanized steel wall with polyurethane insulation**, in order to grant an elevate thermal insulation and extremely low noise level.

The FTA units are **characterized by compact design** (necessary requirement for suspended ceiling installations), low noise level and high available pressure. The **wide range of accessories** (such as bag filters and 3-ways mixing box) makes these units suitable for any applications.

Unit designed to operate with 100% recirculated air flow rate or max. 10% outside air flow rate.



>Versions

8 available sizes.

Configuration **horizontal (H) or vertical (V)**.

Version 4: with 4-rows water coil.

Version 6: with 6-rows water coil.

Version with **3-rows direct expansion coil** for R410A.

Version with **4-rows direct expansion coil** for R410A.

Version X: air extract unit only.

>Accessories

M2SxF 2-ways mixing box.

M3SxF 3-ways mixing box.

FTFxF section with soft bag filters.

B2RxF 2R water re-heating coil.

PBExF plenum with 2-stages electric battery.

SSLxF silencers.

S2ZxF 2-zones damper (70-30 %).

VRFxF return fan section with filter.

PMMxF plenum box with multiple circular spigots.

PMCxF completely closed supply plenum box.

SAPxF return air damper.

GMDxF supply grille with adjustable fins.

GAPxF intake grille.

FPIxF Coarse 55% filters for bottom intake.

PX Remote panel, only switches.

PCT2 remote panel complete with switches and thermostat.

All accessories are supplied not mounted.



> Main technical data

FTA Model		09	11	15	19	24	33	40	50
Nominal air flow rate	m ³ /h	800	1100	1500	1900	2400	3300	4000	5000
Maximum available pressure ¹	Pa	126	257	171	263	250	225	280	133
4R coil total cooling capacity ²	kW	4,2	5,7	8,7	12,4	17,3	21,7	27,2	31,8
4R coil sensible cooling capacity ²	kW	3,1	4,2	6,2	8,3	11,2	14,3	18,0	21,3
4R coil heating capacity ³	kW	12,6	16,6	23,9	30,8	40,6	52,2	65,8	78,3
6R coil total cooling capacity ²	kW	4,8	6,7	11,7	15,5	20,6	26,3	33,5	39,6
6R coil sensible cooling capacity ²	kW	3,5	4,7	7,5	9,8	12,8	16,6	20,9	25,0
6R coil heating capacity ³	kW	14,0	18,5	26,6	34,2	44,3	58,0	72,6	87,5
DX coil total cooling capacity ⁴	kW	5,9	7,3	11,0	14,2	19,2	23,0	30,5	34,5
DX coil sensible cooling capacity ⁴	kW	3,7	4,7	7,0	9,1	12,1	14,8	19,4	22,3
Re-heating coil heating capacity ⁵	kW	7,5	9,5	14,2	17,9	24,3	29,9	38,9	44,9
Sound power level ⁶	dB(A)	63	66	67	72	74	75	76	79
Max. absorbed power (1 fan)	kW	0,29	0,29	0,29	0,74	0,74	0,74	0,74	0,74
Max. absorbed current (1 fan)	A	1,28	1,28	1,28	3,40	3,40	3,40	3,40	3,40
Number of fans		1	2	2	1	1	2	2	2
Power supply		230/1/50							

- 1 At the nominal air flow with filter and 4-rows heat exchanger.
- 2 Capacities referred to: air inlet 27°C, 47% RH; water temperature 7-12°C.
- 3 Capacities referred to: air inlet 10°C; water temperature 70-60°C.
- 4 Capacities referred to: 4R coil; R410A; evap. temp 5°C; ari inlet 27°C, 47% RH.
- 5 Capacities referred to: 2R coil; re-heating coil air inlet 15°C; water temp. 70-60°C.
- 6 Sound power level according to the UNI EN ISO 9614

> Compatibility of accessories

	09	11	15	19	24	33	40	50
M2SxF	M2S1F	M2S1F	M2S2F	M2S3F	M2S4F	M2S4F	M2S5F	M2S5F
M3SxF	M3S1F	M3S1F	M3S2F	M3S3F	M3S4F	M3S4F	M3S5F	M3S5F
FTFxF	FTF1F	FTF1F	FTF2F	FTF3F	FTF4F	FTF4F	FTF5F	FTF5F
B2RxF	B2R1F	B2R1F	B2R2F	B2R3F	B2R4F	B2R4F	B2R5F	B2R5F
PBExF (Power supply 400/3+N/50)	PBE1F	PBE2F	PBE3F	PBE4F	PBE5F	PBE6F	PBE7F	PBE8F
SSLxF	SSL1F	SSL1F	SSL2F	SSL3F	SSL4F	SSL4F	SSL5F	SSL5F
S2ZxF	S2Z1F	S2Z1F	S2Z2F	S2Z3F	S2Z4F	S2Z4F	S2Z5F	S2Z5F
VRFxF	VRF1F	VRF2F	VRF3F	VRF4F	VRF5F	VRF6F	VRF7F	VRF8F
PMMxF	PMM1F	PMM1F	PMM2F	PMM3F	PMM4F	PMM4F	PMM5F	PMM5F
PMCxF	PMC1F	PMC1F	PMC2F	PMC3F	PMC4F	PMC4F	PMC5F	PMC5F
SAPxF	SAP1F	SAP1F	SAP2F	SAP3F	SAP4F	SAP4F	SAP5F	SAP5F
GMDxF	GMD1F	GMD1F	GMD2F	GMD3F	GMD4F	GMD4F	GMD5F	GMD5F
GAPxF	GAP1F	GAP1F	GAP2F	GAP3F	GAP4F	GAP4F	GAP5F	GAP5F
FPIxF	FPI1F	FPI1F	FPI2F	FPI3F	FPI4F	FPI4F	FPI5F	FPI5F
PX	PX							
PCT2	PCT2 (*)							

* operation with relay (not supplied)

Air handling units
FM

Air handling units for
specific sectors
ETAMAX - HYGROMAX
ALFAMINI - ALFAMAX

Heat recovery units
HRB - HRF - HRR
RCFA - RHE - HRT

Roof-top units
RFM - RFE

Air conditioning units
FTA - TFA

>Characteristics

Frame made from 15mm thick sandwich panels with injected polyurethane (density 45 kg/m³). The suction panel is equipped with a flange to connect to air ducts (if present). The horizontal or vertical installation on the wall is made easy by appropriate fixing brackets.

Air filtration performed by Coarse 55% class filters, according to EN ISO 16890 (50mm thickness), as standard, placed in the intake of the unit.

Centrifugal fans with double intake, forward-curved blades, with directly-coupled motors. The single phase, 230V-50Hz asynchronous motor, has several speeds, among which three may be selected with the control panel.

Internal insulated **condensate drain pan.**

Heat exchangers with 3, 4, 6 rows, for hot or cold water, made from copper pipes and aluminium fins, blocked by mechanical expansion of the pipes. They are equipped with threaded sleeves for the hydraulic connections and the air relief valve. It is possible to rotate the coils on site.

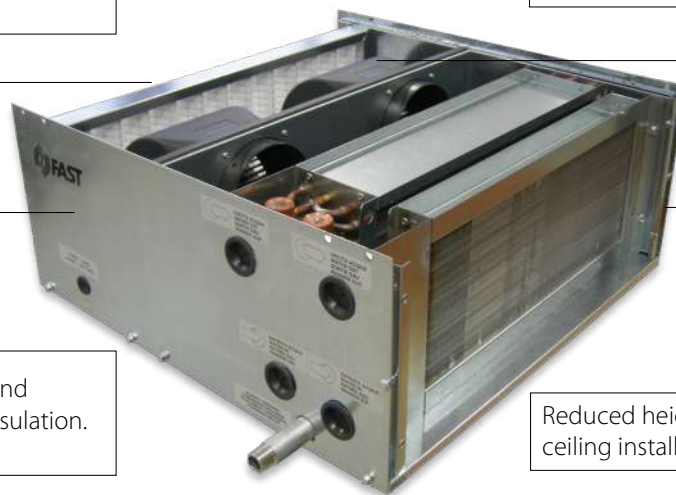
Direct expansion coils with 3 or 4 rows are also available, with refrigerant R410A, and re-heating coils with 1 or 2 rows with copper pipes and aluminium fins, blocked by mechanical expansion of pipes.

Standard intake filters class Coarse 55% according to EN ISO 16890 (50 mm thickness).

Fan-motor assemblies capable of granting high pressures

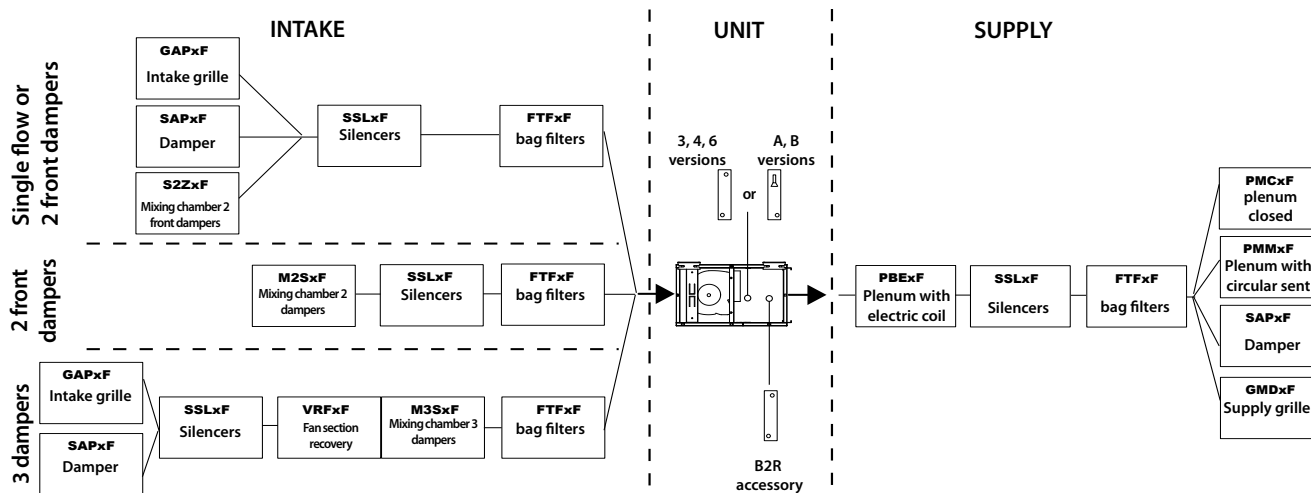
The sandwich panels grant and excellent thermo-acoustic insulation.

Reduced height for typical concealed ceiling installations.



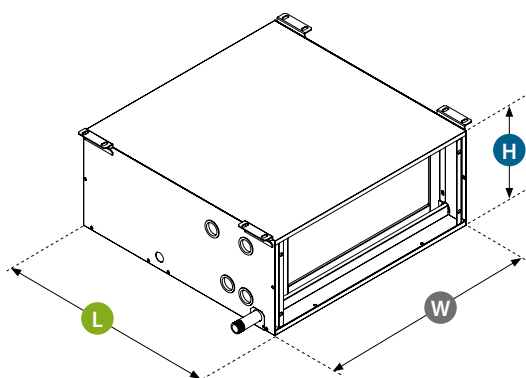


> Example of combination units horizontal FTA with various accessories

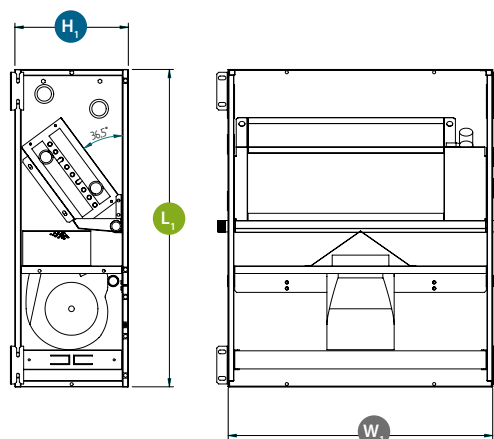


> Dimensions and weights

FTA H Model (horizontal)			09	11	15	19	24	33	40	50
Length	L	mm	700	700	700	850	850	850	1.000	1.000
Width	W	mm	700	700	1.050	1.050	1.475	1.475	2.100	2.100
Height	H	mm	300	300	300	390	390	390	390	390
Weight (4R water coil version)		kg	35	40	56	73	95	109	175	178
FTA V Model (vertical)			09	11	15	19	24	33	40	50
Length	L_1	mm	840	840	840	1.090	1.090	1.090	1.090	1.090
Width	W_1	mm	700	700	1.050	1.050	1.475	1.475	2.100	2.100
Height	H_1	mm	300	300	300	390	390	390	390	390
Weight (4R water coil version)		kg	45	48	60	81	98	112	185	190



Horizontal model



Vertical model