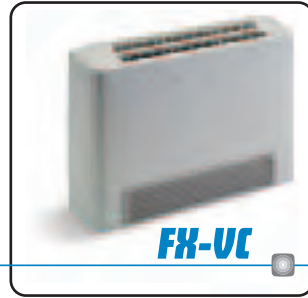
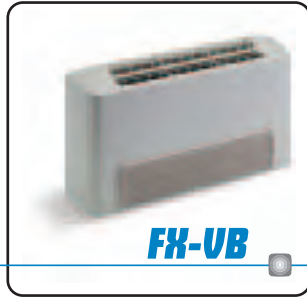
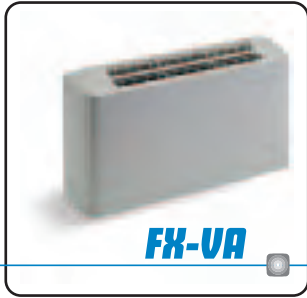
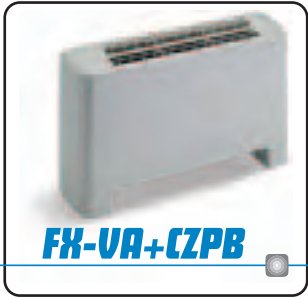




# **FX** Fan-coil units

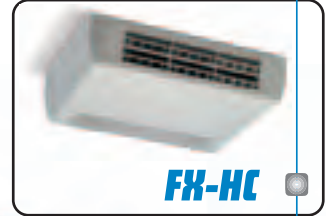
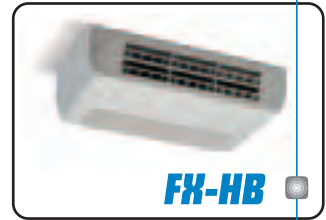
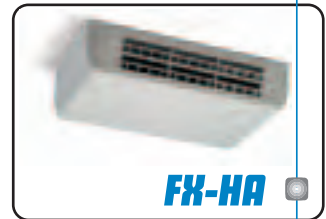




**HORIZONTAL  
WITH CABINET**

**VERTICAL  
WITH CABINET**

... STYLE AND HARMONY,  
IN SHAPES AND COLOURS...



**MAXIMUM CARE IN DETAILS  
RESULT OF THE MOST ADVANCED EXPERIENCE**



Double bank singularly adjustable louvers  
to send the air-flow in any direction



Opposite Louvers  
= Induction Effect

Some louvers Closed  
= Increased Air Throw

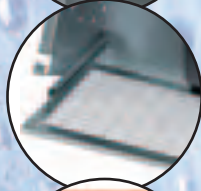
Ceiling/Wall Tangential Louvers  
= Coanda Effect



6 speeds Autotransformer  
maximum performances flexibility



Condensation drain funnel  
fast connection to the condensation drain pipe

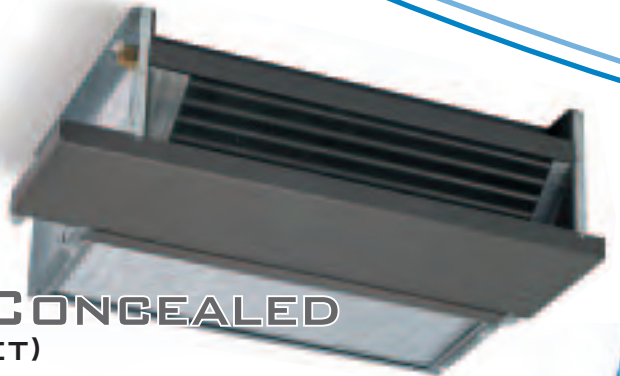
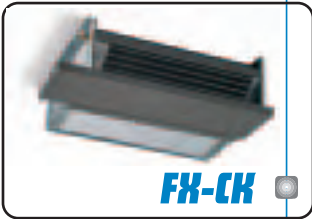
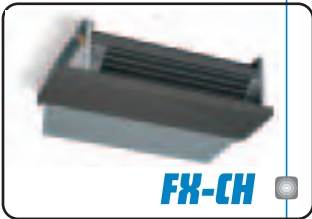
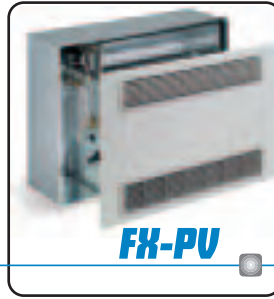
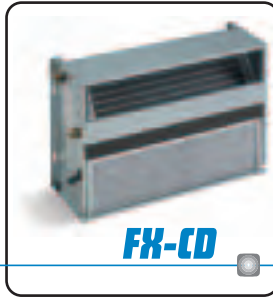
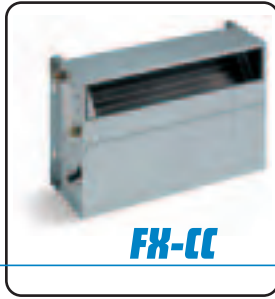


Filter on turning slides  
For an easy maintenance

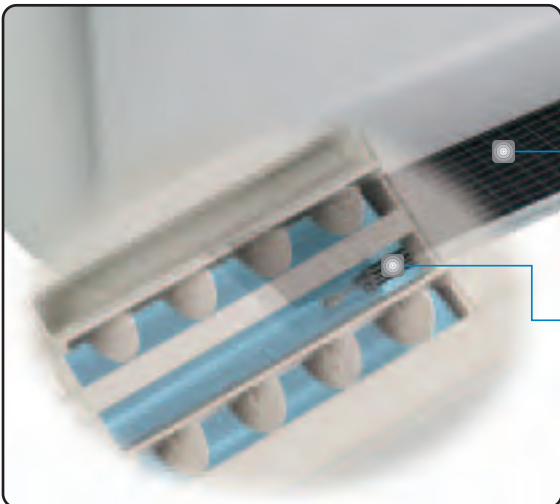


Steel parts with pre-punched and pre-cut holes  
to realise many different versions and for the  
application of huge range of accessories

# WINNING DESIGN WITH VANGUARD LOOK



## EXCLUSIVE ACCESSORIES



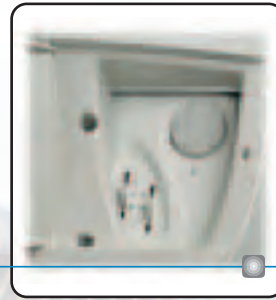
Active carbons filter to STOP bad smells

The ion generator for high class comfort



- Multi-functions microprocessor controls, programmable with Display, Automatic Speeds, dirty filter Alert, Economy Function, De-stratification, ...
- HTN & HTR Regulation: Control by Infrared control & Network system

**Wide range 3 and 6 speed control panel:**  
electromechanical, electronic, with microprocessor,  
programmable, I.R. control ...



**Mech-Elec**

**Cabinet** with beautiful and modern style, well proportioned smoothed outline to perfectly match with any interior. Standard made of pre-painted steel white colour (similar to RAL 9010), or any other RAL colour on request. Well-balanced proportions, just 220 mm thick.

Air delivery grill is in white ABS (similar to RAL 9002, slightly in contrast with the cabinet white colour) with sliding side doors to easily access to the internal control panel.

**Bearing structure** made of extremely thick galvanized steel-sheet with holes for mounting on wall/ceiling + Internal thermal-acoustic insulation (class M1).

**Drain pan** provided with condensation drain and thermal insulation (class M1).

**Coil** with high efficiency (**Turbolenced Fins** with a high number of Reynolds) made of copper pipes and aluminium fins fixed by mechanical expansion. Coil connections provided with anti-torsion system, manual air vent valves, manual water drain valves. Standard connections on the left side; on request connections on the right side, anyway can be easily reversed even on working site.

**Fan section** including 1, 2 or 3 centrifugal fans with double air inlet **Last Generation Plastic Blades** directly coupled to the electric motor. Mounted on elastic and anti vibration supports. Fan section statically and dynamically balanced. Extensive diameter fans (= high air flow and high static pressure) with low revolutions (= low noise level).

Electric motor provided with heat protection (Klixon), running capacitor permanently switched on, IP 42, Class B, electric cables protected by double insulation.

Manufactured according with international standards, 230V - 1 Ph - 50Hz.

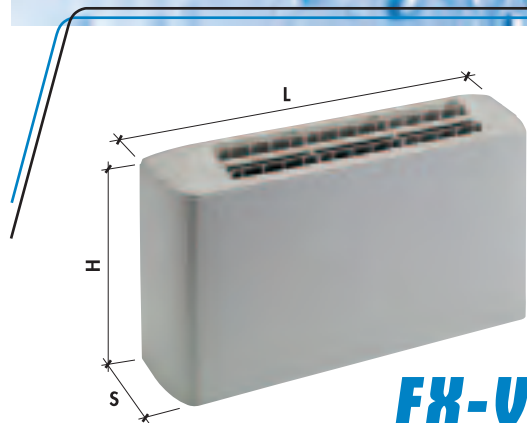
**Air filter** made of acrylic polyester fabric, highly efficient. It can be regenerated by water wash, blowing, suction.

**FAN-COILS CERTIFIED BY 3 EXCLUSIVE PATENTS ...AND A HUGE ACCESSORIES RANGE ALWAYS ABLE TO WARRANTY A SOLUTION FOR ANY NEED/REQUIREMENT...**

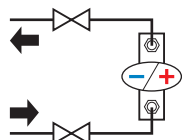


**Wide 2 and 3 way valves range (230V & 24V): ON/OFF ; Floating 3 point ; Modulating 0-10V**

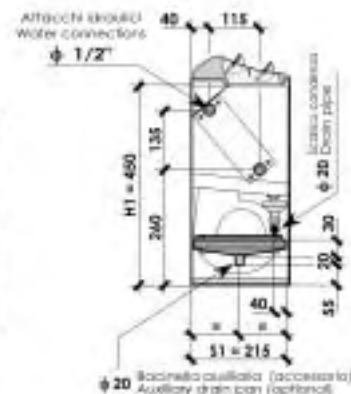
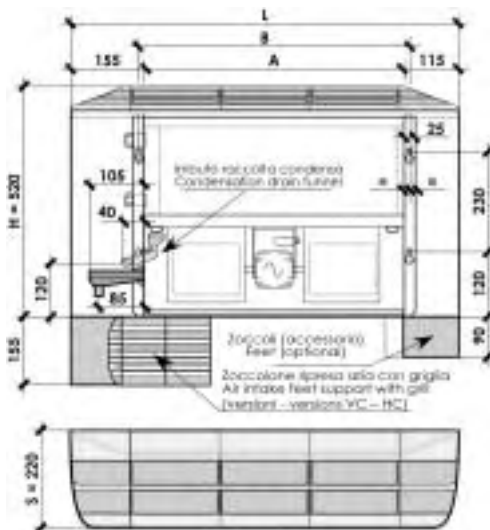
# TECHNICAL DATA



**FX-VA**



**2 PIPE (1 coil)**



Versioni con mobile: Versions with cabinet  
**H = 520 mm**  
**S = 220 mm**

Versioni senza mobile: Versions without cabinet  
**H1 = 450 mm**  
**S1 = 215 mm**

SIZE		FX 130	FX 230	FX 330	FX 430	FX 530	FX 630	FX 730	FX 830	FX 930	FX 1030	FX 1130	FX 1230
Cooling capacity	Total (1) W	1.500	2.000	2.530	3.020	3.750	4.250	5.520	6.420	7.530	9.020	9.600	10.710
	Sensible (1) W	1.290	1.620	2.070	2.380	3.080	3.440	4.600	5.200	6.430	7.300	8.200	8.740
Heating capacity (2)	W	3.430	4.330	5.510	6.140	7.980	9.210	12.160	13.620	17.020	19.070	21.110	24.200
Air flow (3)	m <sup>3</sup> /h	350	360	435	447	647	665	975	1.003	1.431	1.472	1.908	1.962
Water flow (4)	Cooling l/h	258	344	435	520	645	732	950	1.105	1.296	1.552	1.652	1.844
	Heating l/h	296	373	475	528	687	792	1.046	1.172	1.464	1.640	1.816	2.081
Water pressure drops (5)	Cooling kPa	13,1	16,3	18,5	28,2	35,0	15,6	29,4	24,7	36,1	40,8	40,0	30,7
	Heating kPa	13,4	14,9	17,2	22,7	31,0	14,3	27,8	21,7	35,9	35,6	37,7	30,5
Sound levels (Min-Med-Max)	dB(A)	28 - 34 - 38		29 - 35 - 40		30 - 36 - 42		32 - 38 - 43		37 - 44 - 49		38 - 45 - 50	
Speed number	No. (*)	6		6		6		6		6		5	
Current input	MAX(7) W - A	58W - 0,25A		83W - 0,36A		108W - 0,49A		147W - 0,65A		159W - 0,71A		270W - 1,20A	
<b>Power supply</b>		<b>230 V - 1 Ph - 50 Hz</b>											
Dimensions	L mm	670		870		1.070		1.270		1.470		1.670	
	H mm	520		520		520		520		520		520	
	S mm	220		220		220		220		220		220	
	A mm	400		600		800		1.000		1.200		1.400	
	B mm	425		625		825		1.025		1.225		1.425	
Water connections	ø (**)	1/2"		1/2"		1/2"		1/2"		1/2"		1/2"	
- Drain pipe	ø (mm)	20		20		20		20		20		20	

Available speed (only 3 connected)  
 Female gas water coil connections



(8) AIR FLOW REDUCTION (coefficients defining the "Air flow / Static pressure diagrams")

Model	Speed	External static pressure			
		0 Pa	20 Pa	40 Pa	60 Pa
FX 130 - FX 230 FX 330 - FX 430	Max	1	0,88	0,61	/
	Med	0,83	0,69	0,26	/
	Min	0,57	0,40	/	/
FX 530 - FX 630 FX 730 - FX 830	Max	1	0,92	0,78	0,50
	Med	0,85	0,77	0,59	/
	Min	0,60	0,52	0,30	/
FX 930 - FX 1030 FX 1130 - FX 1230	Max	1	0,95	0,87	0,73
	Med	0,87	0,82	0,74	0,56
	Min	0,65	0,61	0,53	0,32

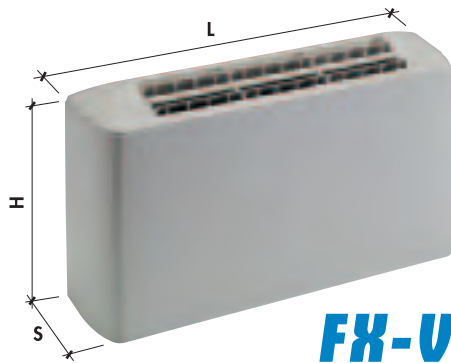


(9) COOLING/HEATING CAPACITY REDUCTION (depending on air flow reduction)

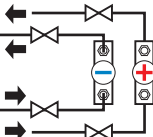
Air flow		1,00	0,95	0,90	0,85	0,80	0,75	0,70	0,65	0,60	0,55	0,50	0,45	0,40	0,35	0,30	0,25
Cooling capacity	Total	1,00	0,97	0,95	0,92	0,89	0,87	0,84	0,81	0,77	0,74	0,71	0,67	0,63	0,59	0,55	0,50
	Sensible	1,00	0,97	0,93	0,90	0,86	0,83	0,79	0,76	0,72	0,68	0,64	0,60	0,55	0,51	0,46	0,41
Heating capacity		1,00	0,97	0,94	0,91	0,87	0,84	0,81	0,77	0,74	0,70	0,66	0,62	0,58	0,53	0,49	0,44

Technical data refer to the following conditions: Standard unit - Atmospheric pressure 1013 mbar - Power supply 230V/1Ph/50Hz. (1) - (2) - (3) - (4) - (5): Nominal technical data refer to the maximum speed and unit with free air flow (External static pressure = 0 Pa).  
 (1) Cooling: Environment air temperature: 27°C d.b., 19°C w.b. - Entering water temp. 7°C, leaving water temp. 12°C - Max speed (nominal). For Med and Min fan speed and/or static pressure > 0 Pa see (8) + (9) (ref. entering water temp. 7°C and water flow as for the Max speed (4)).  
 (2) Heating: Environment air temperature: 20°C - Entering water temperature 70°C, leaving water temperature 60°C - Max speed (nominal). For Med and Min fan speed and/or static pressure > 0 Pa see (8) + (9) (ref. entering water temp. 70°C and water flow as for the Max speed (4)).  
 (3) (4) (5) Cooling and Heating capacities: Data calculated based on measurements made in calorimetric room ref. UNI 6552, UNI 6552/A242 standards. (3) (8) Air flow and Static pressure: Measurements made with casing ref. AMCA 210-74 fig. 11 standards and plenum + diaphragm ref. CNR-UNI 10023 standards.  
 (4) (5) Sound levels: Free field sound pressure; 2m distance. Data calculated based on sound power measured in reverberation room ref. ISO 3741 - ISO 3742 standards. (7) Electrical data: Measurements with Wattmeter Jokogawa WT 110.

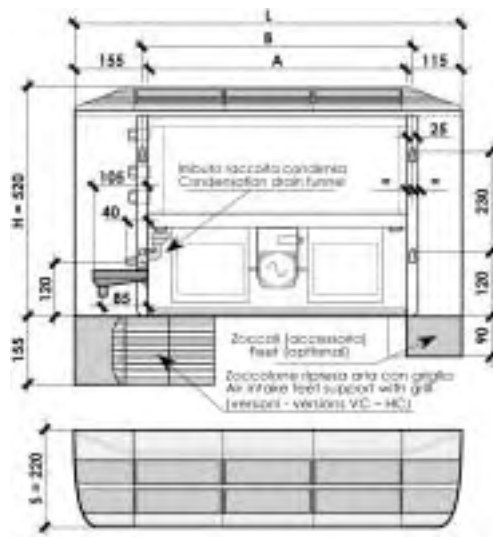
# TECHNICAL DATA



**FX-UA**



**4 PIPE (2 coils)**



SIZE		FX 131	FX 231	FX 331	FX 431	FX 531	FX 631	FX 731	FX 831	FX 931	FX 1031	FX 1131	FX 1231
Cooling capacity	Total (1) W	1.530	2.030	2.590	3.050	3.840	4.300	5.660	6.460	7.720	9.050	9.840	10.750
	Sensible (1) W	1.320	1.650	2.130	2.410	3.150	3.490	4.710	5.240	6.600	7.330	8.410	8.780
Heating capacity (2) W		1.790	1.820	3.010	3.050	4.280	4.340	6.370	6.420	8.440	8.470	10.260	10.300
Air flow (3) m <sup>3</sup> /h		360	370	447	455	665	680	1.003	1.015	1.472	1.480	1.962	1.975
Water flow (4)	Cooling l/h	265	349	446	524	661	739	974	1.111	1.328	1.556	1.693	1.848
	Heating l/h	154	156	259	262	369	373	548	552	726	728	883	886
Water pressure drops (5) kPa	Cooling	13,8	16,8	19,4	28,6	36,8	15,9	30,9	25,0	37,9	41,0	42,0	30,8
	Heating	8,1	8,4	11,7	11,9	21,3	21,8	43,4	44,0	56,8	57,1	40,3	40,6
Sound levels (Min-Med-Max) dB(A)		28 - 34 - 38		29 - 35 - 40		30 - 36 - 42		32 - 38 - 43		37 - 44 - 49		38 - 45 - 50	
Speed number	No. (*)	6		6		6		6		6		5	
Current input	MAX(7) W - A	58W - 0,25A		83W - 0,36A		108W - 0,49A		147W - 0,65A		159W - 0,71A		270W - 1,20A	
<b>Power supply</b>		<b>230 V - 1 Ph - 50 Hz</b>											
Dimensions	L mm	670		870		1.070		1.270		1.470		1.670	
	H mm	520		520		520		520		520		520	
	S mm	220		220		220		220		220		220	
	A mm	400		600		800		1.000		1.200		1.400	
	B mm	425		625		825		1.025		1.225		1.425	
Water connections	Cooling coil ø (**)	1/2"		1/2"		1/2"		1/2"		1/2"		1/2"	
	Heating coil ø (**)	1/2"		1/2"		1/2"		1/2"		1/2"		1/2"	
Drain pipe	ø (mm)	20		20		20		20		20		20	

Available speed (only 3 connected)  
Female gas water coil connections



**(8) AIR FLOW REDUCTION (coefficients defining the "Air flow / Static pressure diagrams")**

Model	Speed	External static pressure			
		0 Pa	20 Pa	40 Pa	60 Pa
FX 131 - FX 231 FX 331 - FX 431	Max	1	0,88	0,61	/
	Med	0,83	0,69	0,26	/
	Min	0,57	0,40	/	/
FX 531 - FX 631 FX 731 - FX 831	Max	1	0,92	0,78	0,50
	Med	0,85	0,77	0,59	/
	Min	0,60	0,52	0,30	/
FX 931 - FX 1031 FX 1131 - FX 1231	Max	1	0,95	0,87	0,73
	Med	0,87	0,82	0,74	0,56
	Min	0,65	0,61	0,53	0,32



**(9) COOLING/HEATING CAPACITY REDUCTION (depending on air flow reduction)**

Air flow		1,00	0,95	0,90	0,85	0,80	0,75	0,70	0,65	0,60	0,55	0,50	0,45	0,40	0,35	0,30	0,25
Cooling capacity	Total	1,00	0,97	0,95	0,92	0,89	0,87	0,84	0,81	0,77	0,74	0,71	0,67	0,63	0,59	0,55	0,50
	Sensible	1,00	0,97	0,93	0,90	0,86	0,83	0,79	0,76	0,72	0,68	0,64	0,60	0,55	0,51	0,46	0,41
Heating capacity		1,00	0,97	0,94	0,91	0,87	0,84	0,81	0,77	0,74	0,70	0,66	0,62	0,58	0,53	0,49	0,44

Technical data refer to the following conditions: Standard unit - Atmospheric pressure 1013 mbar - Power supply 230V/1Ph/50Hz. (1) - (2) - (3) - (4) - (5): Nominal technical data refer to the maximum speed and unit with free air flow (External static pressure = 0 Pa).  
 (1) Cooling: Environment air temperature: 27°C d.b., 19°C w.b. - Entering water temp. 7°C, leaving water temp. 12°C - Max speed (nominal). For Med and Min fan speed and/or static pressure > 0 Pa see (8) + (9) (ref. entering water temp. 7°C and water flow as for the Max speed (4)).  
 (2) Heating: Environment air temperature: 20°C - Entering water temperature 70°C, leaving water temperature 60°C - Max speed (nominal). For Med and Min fan speed and/or static pressure > 0 Pa see (8) + (9) (ref. entering water temp. 70°C and water flow as for the Max speed (4)).  
 (3) (4) (5) Cooling and Heating capacities: Data calculated based on measurements made in calorimetric room ref. UNI 6552, UNI 6553/A242 standards. (3) (8) Air flow and Static pressure: Measurements made with casing ref. AMCA 210-74 fig.11 standards and plenum + diaphragm ref. CNR-UNI 10023 standards.  
 (4) (5) Sound levels: Free field sound pressure; 2m distance. Data calculated based on sound power measured in riverbaration room ref. ISO 3741 - ISO 3742 standards. (7) Electrical data: Measurements with Wattmeter Jokogawa WT 110.