# **FXS-FLEX**

#### **NEW 2022**

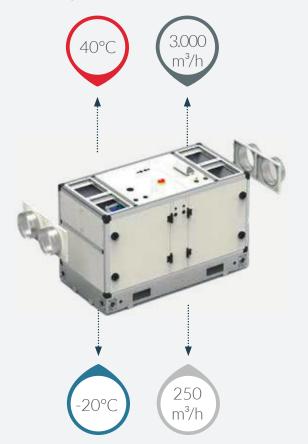
Heat recovery unit
WITH VERY HIGH EFFICIENCY
HEAT RECOVERY,
FLEXIBILITY AND VERSATILITY
DURING INSTALLATION
from 250 to 3,000 m³/h

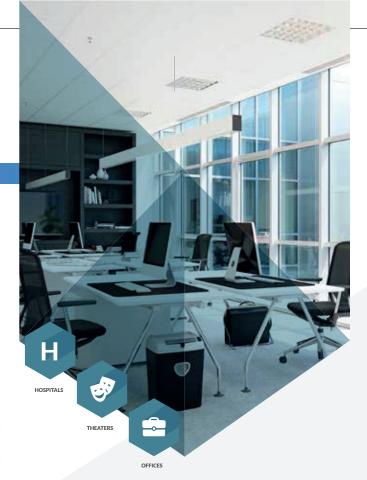
The FXS-FLEX series includes high efficiency heat recovery units for floor installation and high configuration flexibility. They are available in a vertical construction, and combine total freedom in the arrangement of air inlets/outlets in various positions (front/top/side), both a priori and on site. All this makes them an ideal product for internal installation in confined spaces or close to walls, with minimum obstruction.

The FXS-FLEX series comes in 5 models, with flow rates from 250 to 3,000 m3/h.

The FXS-FLEX range is equipped with an aluminium plate heat recovery unit, fans with EC motors and an integrated motorised by-pass system for free-cooling operation, in addition to the innovative KVir accessory for air sanitation with UV lamp and polyvinyl-amino matrix virus filter.

In the FXS-FLEX range, the KVir accessory can be installed fully integrated inside the unit.









PLATES



COMPLIANT ERP 2018



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**ADVANTAGES** 



Flexibility even on site. FXS-FLEX is designed to provide maximum flexibility and adaptability during installation. The air intakes can be adjusted by 90°, electric and water coils can also be inserted, also while on-site.

Moreover FXS-FLEX can integrate the Kvir sanitation system, fully inside the unit casing.

### **TECHNICAL SPECIFICATIONS AND ACCESSORIES**

- Supporting frame in extruded thermal break **aluminium profiles.**
- Sandwich panels th. 42 mm in internally galvanised sheet and pre-painted externally in RAL 9002 finish.
- Non-flammable thermal and acoustic insulation in high insulation mineral wool.
- Enthalpy rotor type high efficiency heat recuperator unit with aluminium exchanger and galvanised steel frame.
   Transmission to the electric motor by means of an adjustable tension belt. Dual central and circumferential seal for the reduction of air leaks.
- Rigid pocket filters with polystyrene frame with polyurethane seal and medium water-repellent fiberglass.
   Efficiency class ePM10 70% on room return and ePM1 50% on outdoor air intake
- Centrifugal fans with free-running impeller with backward blades directly coupled to EC technology electric motors

- Recessed type electrical panel with electronic adjustment and remote user interface for complete control of all the key functions and specifically:
- manual control of the EC fans
- automatic control of the EC fans (for pressure or air quality)
- water valve control
- electric heater management
- recovery unit defrosting management
- free-cooling management (by stopping the rotor)
- mixing/exhaust chamber management
- post-ventilation
- weekly programming
- alarm management
- remote on/off
- Remote summer/Winter
- timed activation via presence sensor
- fan management via fire alarm digital input
- BMS via Modbus protocol and RS485 connection

Sanitation modules with plasma technology and anti-vi- rus filter	KVir
Internal electric pre-heater	SKEp
Internal electric post-heater	SKEr
Internal electric post-heater	SKW
External water cooling module	SAF
Direct expansion external cooling module	SED
External flexible connection	GAT
Round fitting (for base unit)	BCC
Pressure sensor	DPS
CO2 sensor	AQS
Pre - filter	PF
High efficiency filter	FC9
Touch screen remote control panel	TMC



Fully integrated Kvir sanitation systema, totally including inside the unit casing

Multifunctional electronic regulation integrated in the unit

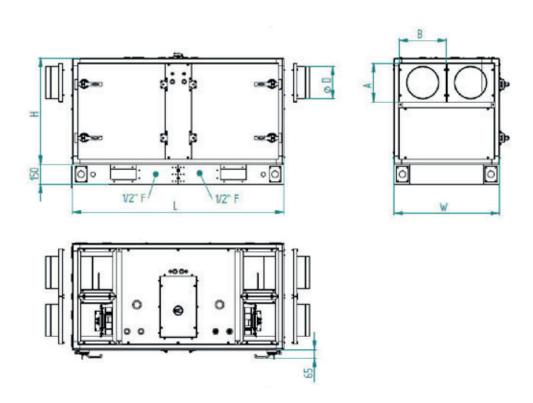
Very high efficiency heat recovery, with integrated motorised by-pass

# **MODELS AND TECHNICAL DATA**

XS-FLEX		500	750	1100	1700	2500					
Nominal airflow	m³/h	500	750	1100	1700	2500					
Useful static pressure (1)	Pa	350	250	270	210	320					
Sound pressure level	dB(A)	63	60	65	66	69					
Max. absorbed power	W	330	330 340 680			2000					
Maximum absorbed current	Α	2.8	2.8 2.9 5.6 6.								
Power supply	V-ph-Hz	230-1-50/60									
Recovery efficiency Erp 2018	%	79.7	79.4	79.7	79.8	79.7					
Power recovered	W	4840	7220	7220 10750		24700					
Conformity range ErP 2018	m³/h	≤ 700	≤ 980	≤ 1300	≤ 1790	≤ 2700					
Operating temperature limit	°C		- 20 ÷ 40								
INTERNAL PRE/POST HEATING ELECTRIC HEATI	NG ELEMENT A	CCESSORY - SKE									
Power	kW	1.5	2.5	3.0	5.0	7.5					
Current	А	6.5	10.9	13.0	21.7	10.8					
ΔΤ	°C	8.8	9.8	8.7	8.8						
Power supply	V-ph-Hz		400-3-50								
HEATING WATER INTERNAL COIL ACCESSORY - SKW											
Heating capacity delivered (2)	kW	2.66	4.19	5.50	7.94	12.28					
OUTDOOR SECTION ACCESSORY WITH COOLING/HEATING WATER COIL											
Cooling power delivered (3)	kW	2.56	4.06	5.57	8.14	13.78					

<sup>(1)</sup> outdoor air/inlet circuit
(2) at nominal airflow, inlet air temperature 15°, in/out water temperature 70/60°C
(3) at nominal airflow, inlet air 28°C 60% RH, in/out water temperature 7/12°C
(4) air inlet 29°C 65% RH, in/out cold water temperature 7/12°C, in/out

# **DIMENSIONS AND WEIGHTS**

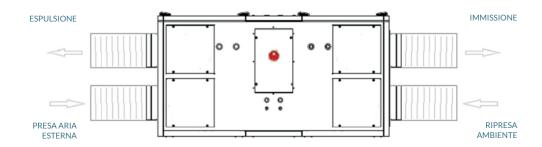


MODEL		500	750	1100	1700	2500
L	mm	1400	1540	1620	1840	2000
W	mm	635	810	810	885	1125
Н	mm	700	815	815	1025	1245
Weight	Kg	125	160	165	210	250

Circular duct A x B	mm	245 x 275	295 x 363	295 x 363	360 x 400	440 x 520
Circular duct D	mm	200	250	250	315	355

<sup>(1)</sup> unità base (2) dimensioni esterno flangia (valide anche per accessorio) (3) con accessorio BCC

### **CONFIGURATIONS AND NOISE LEVELS**

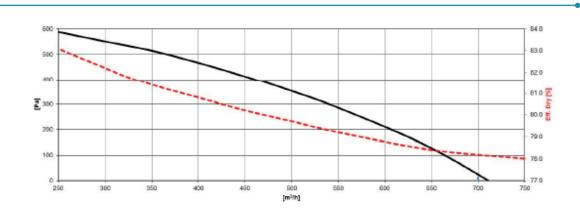


With reference to the nominal operating conditions, the following table shows the sound power values (SWL) in octave and total bands. The sound pressure levels (SPL) at 1m, 5m and 10m in supply, return and outside the unit are indicated.

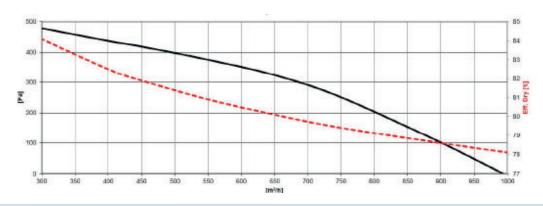
FXS-FLEX	SWL [dB] IN OCTAVE BAND [HZ]					SWL	SPL SUPPLY / EXHAUST			SPL RETURN			SPL EXTERNAL					
						1 m	5 m	10 m	1 m	5 m	10 m	1 m	5 m	10 m				
	63	125	250	500	1000	2000	4000	8000	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
500	56	59	63	65	66	65	61	59	71	63	49	43	57	43	37	43	29	23
750	59	63	66	64	63	60	57	52	68	60	46	40	54	40	34	40	26	20
1100	57	61	64	67	68	68	65	63	73	65	51	45	59	45	39	45	31	25
1700	64	62	69	69	67	67	67	62	74	66	52	46	60	46	40	46	32	26
2500	72	67	77	75	70	70	68	64	77	69	55	49	63	49	43	49	35	29

### **AERAULIC PERFORMANCE**

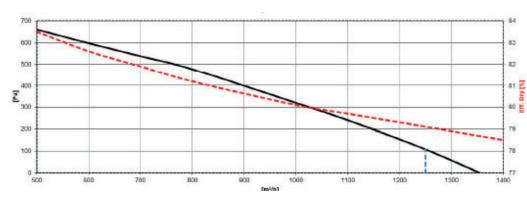
### **FXS-FLEX 500**



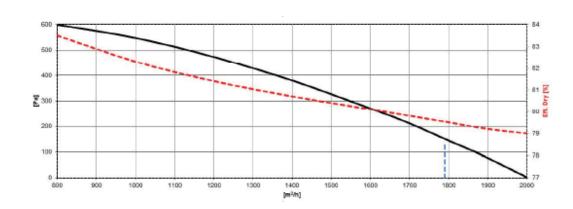
### **FXS-FLEX 750**



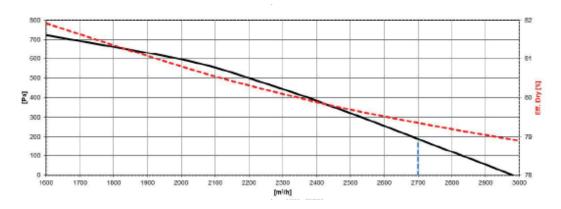
#### **FXS-FLEX 1100**



### **FXS-FLEX 1700**



### **FXS-FLEX 2500**



The graphs provide an indication of the useful static pressure (Pa) as the airflow [m 3/h] supplied by the base inlet unit varies. Consult the technical bulletin to check the specific data of the unit's aeraulic performance.