

FNL



Low noise series



The fan coil units FNL are designed for being installed in hotels, hospitals, prestigious offices and houses where high level of comfort are at a must.

They are realized with components resistant to bacterial growth and mould. Their easy installing and inspection grant the long term high quality performances without needing extraordinary cleaning.

The noise level is exceptionally low, at the lowest in its category.

- Cooling capacity ranging from 1,0 kW to 8 kW
- Air flow ranging from 170 m³/h to 1600 m³/h
- Heating capacity ranging from 1.4 to 10 kW



Italian comfort in your room

The fancoils of the series FNL are suitable for installations where silence and comfort are a primary demand. This fancoil is the ideal solution for hotel rooms, where the people can rest without perceiving the presence of a functioning conditioning unit.

The comfort can even be enhanced by the optimal use of the thermostats of the series I-DIGIT and I-BASIC. The structure is designed to offer easy access to the components for inspection and cleaning so to grant hygiene and a reliable functioning for long time. The pans for collecting the condensates are made of stainless steel to prevent from oxidation and are shaped in order to grant the evacuation of the condensates without stagnation into the unit.





Structure

- Structure is made of galvanized metal sheet and the drain pan is realized in INOX or painted with epoxy powders in function of extra protection against corrosion.

Insulation

- In aphonics Polyester class BS1d0, fire proof with the norms UNI EN-13501-4:2009. Ecological compatible.
- Recycled and recyclable 100%.
- Its very low reverberating time. assures a high phono-absorbing effect.

Fan

- Direct drive fan, forward blades made in galvanized steel or plastic, impeller dynamically and statically balanced.

Filter

- Panel filter type class G1, washable and renewable.

Option

- Class G3 also available.

Heat exchanger

- Standard heating/cooling coil made in copper pipes and aluminum fins.
- Air vent valve included.

Control of the unit

- The fancoil can be equipped with two different type of control systems.
- Controlled in room by thermostat.
- Controlled by PLC, remote, through a bus line.

Valves

- The fancoil can be equipped with 3way valve complete with actuator for ON-OFF or proportional control.
- All models are equipped with terminal box.

Option

- The following option are available:
- Auxiliary coil : ACHPS special system with high performance
- Electric heating coil.
- Suction and discharge plenum with spigots and flange for circular or rectangular duct.
- Alarm signal detecting eventual motor failing.

Eco-friendly

- The FNL series is made of recycled materials recyclable

Energy Saving

- Electronic motor available



new

Auxiliary Coil

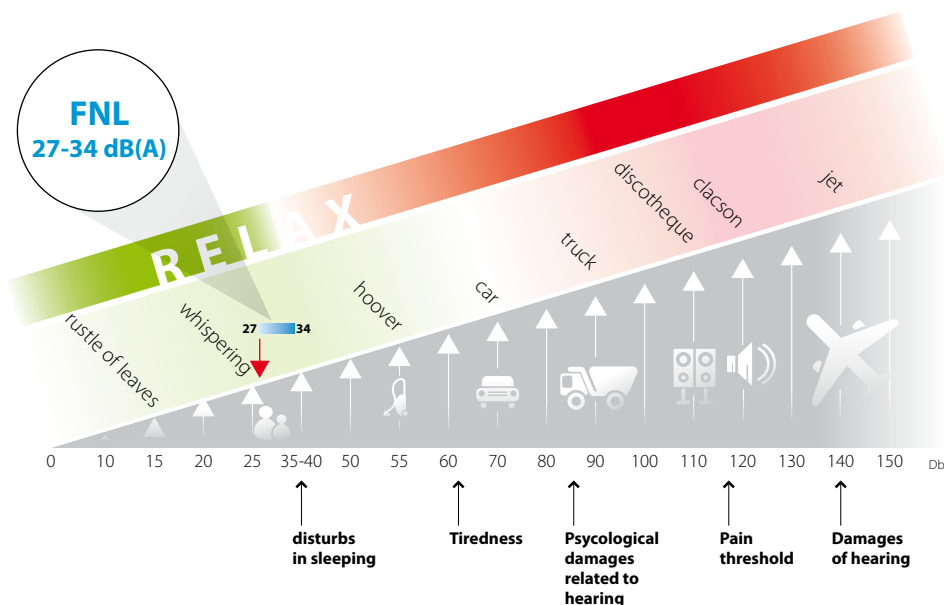
High Performance System

This innovative system gives the possibility to use the fancoil of the FNL series with one single coil in a 4 pipe system.

By this way the main coil with 4 rows can receive water from the system at lower temperature than usual for getting an equivalent or even higher capacity.

For instance the feeding water temperature can be 45°C instead of the usual 70-60°C with a relevant energy saving.

The system **ACHPS**, with its combination of special valves and thermostat, provides also the by-pass of the water in the fancoil maintaining a constant pressure in the system.



TECHNICAL DATA		speed	FNL93	FNL94	FNL95	FNL96	FNL97
Air flow	1	m ³ /h	370	600	980	1330	1600
	2 _{max}	m ³ /h	335	550	780	1250	1516
	3 _{med}	m ³ /h	290	480	705	1100	1324
	4	m ³ /h	260	385	640	950	1100
	5 _{min}	m ³ /h	210	330	470	690	916
	6	m ³ /h	170	310	420	635	780
Total cooling Capacity (a)	1	kW	2,15	3,6	5,8	7,25	8
	2 _{max}	kW	2	3,1	4,9	6,8	7,2
	3 _{med}	kW	1,8	2,97	4,5	6,3	6,9
	4	kW	1,7	2,46	4,15	5,62	5,8
	5 _{min}	kW	1,33	2,15	3,25	4,36	5
	6	kW	1,15	2	3,1	4	4,3
Sensible capacity (a)	1	kW	1,7	2,8	4,5	5,65	6
	2 _{max}	kW	1,62	2,6	3,6	5,5	5,86
	3 _{med}	kW	1,4	2,3	3,5	4,95	5,28
	4	kW	1,2	1,84	3	4,32	4,9
	5 _{min}	kW	1	1,7	2,2	3,4	3,8
	6	kW	0,8	1,6	2	3	3,5
Pressure drop (a)	1	kPa	13,5	15	20	30	32
Heating capacity (b)	1	kW	2,9	4,55	7,45	9,6	10,2
	2 _{max}	kW	2,5	4	6	9	10
	3 _{med}	kW	2,1	3,5	5,5	8,1	9,2
	4	kW	2	3	5	7,3	8
	5 _{min}	kW	1,7	2,6	3,7	5,3	6
	6	kW	1,42	2,5	3,4	5	5,8
Pressure drop (b)	1	kPa	12	13	18	27	29,2
new ACHPS Auxiliary Coil High Performance System (b)	1	kW	2,9	4,55	7,45	9,6	10,2
	2 _{max}	kW	2,5	4	6	9	10
	3 _{med}	kW	2,1	3,5	5,5	8,1	9,2
	4	kW	2	3	5	7,3	8
	5 _{min}	kW	1,7	2,6	3,7	5,3	6
	6	kW	1,42	2,5	3,4	5	5,8
1 row auxiliary coil (c)	1	kW	2,2	3,8	5,7	7,2	8,3
1 row auxiliary coil pressure drop (c)	1	kPa	9	20	10	11	15
Sound power (d)	6	dB(A)	27,1	30,2	31,1	42,1	46,1
Sound pressure (e)	6	dB(A)	18,7	21,8	22,7	33,7	37,7
Fan absorption power	1	W	41	56	110	169	195
	1	A	0,19	0,24	0,47	0,75	0,81

Standard speeds are n. max-med-min, in the case of different requests, please to specify when ordering

(a) Capacity in accordance with EUROVENT specifications. Cooling with air: 27°C -47%rH and water: 7-12°C

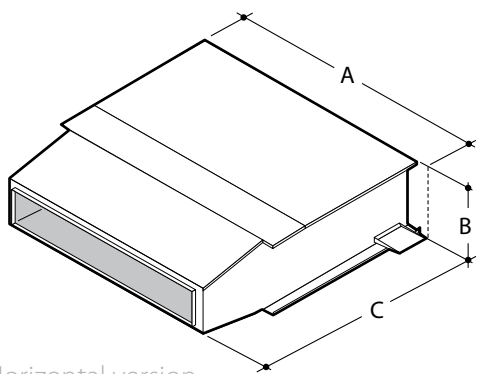
(b) Capacity in accordance with EUROVENT specifications. Heating with air: 20°C and water: 50°C. Same water flow of conditioning.

(c) Capacity in accordance with EUROVENT specifications. Heating with air: 20°C and water: 70/60°C.

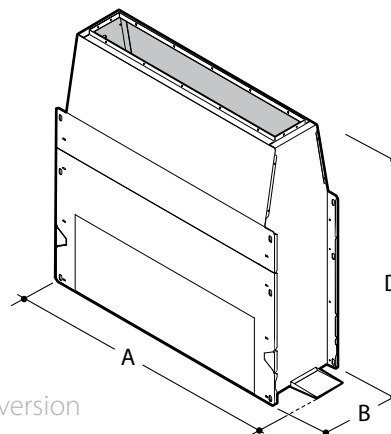
(d) Sound power at 6 speed.

(e) Sound pressure at 6 speed: reflective surface at 1,5m, in a 100m³ room with reverberation time of 0,3s

(f) The voltage is standard 230V-50Hz

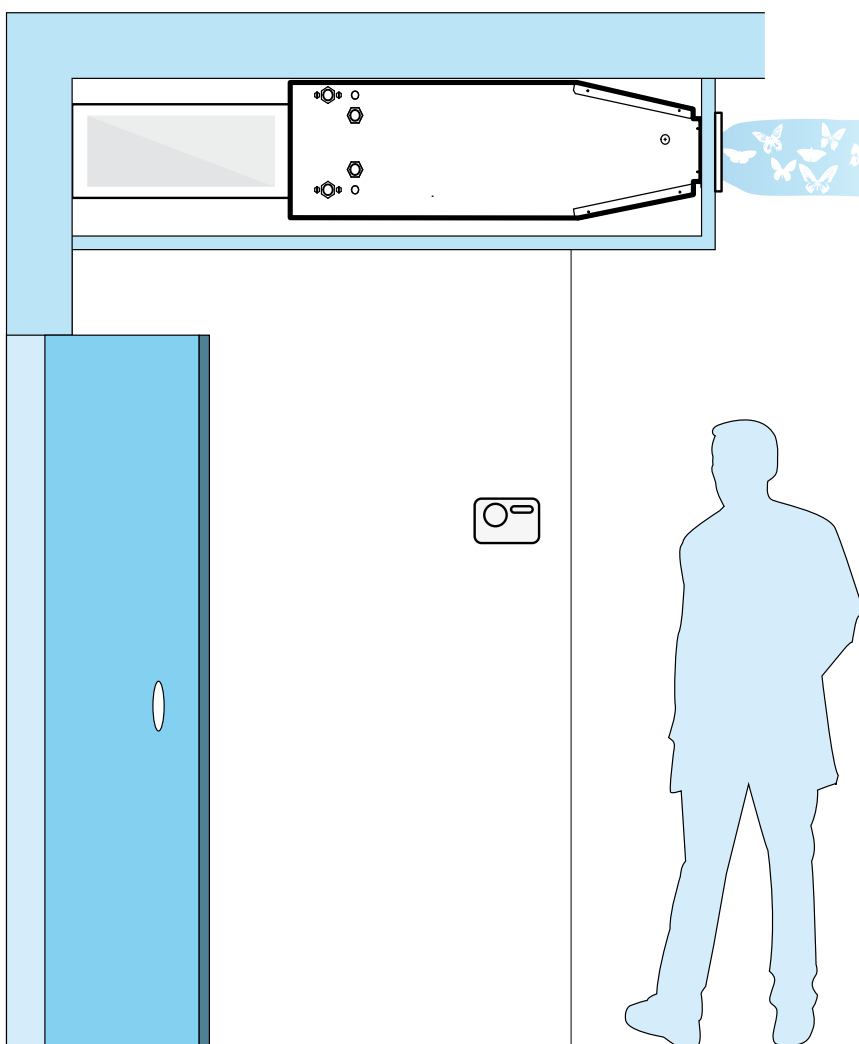


Horizontal version



Vertical version

	SIZE	FNL93	FNL94	FNL95	FNL96	FNL97
Dimensions	A mm	680	940	1200	1200	1460
	B mm	250	250	250	250	250
	C mm	849	849	849	849	849
	D mm	869	869	869	869	869
Weight H	Kg	25	33	41	43	46
Weight V	Kg	28	36	44	46	49



The fan coil low-noise series FNL are the result of decades of experience in the field and summarize the technical solutions adopted, all the suggestions and demands of installers and end-users.

They are therefore the ideal answer for a lot of requests in the field of airconditioning.

A wide range of accessories make them perfectly adaptable to your needs.

The technical staff is focused to the constant search for the highest quality components looking for high reliability and durability.

On request it is available to make customizations to each type of plant.



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