



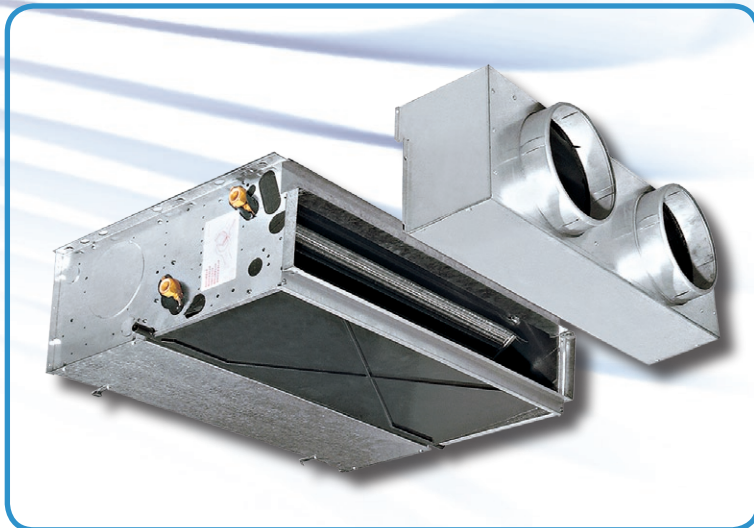
Slim Ducted Fan Coils

The *SLIM ducted fan coils*

can be used to economically heat and/or cool small and medium-sized civil, commercial, industrial and sporting facilities. They have been designed and built for horizontal concealed installation. The range features 4 sizes, each with 5 speed fans, 3 of which connected on the terminal block. Numerous wired controllers are available, as well as infrared remote control.

Each size can be fitted with a 3 or 4 row coil, or two 3 + 1 row coils (special 4 + 1 configurations available on request).

A complete series of accessories ensures the solution to all system requirements.



Main components:

- **CASING**

Consists of self-supporting panels in hot dip galvanized steel, which are insulated with class 1 anticondensating lining.

- **FILTER**

The filtration medium is a washable synthetic fibre, efficiency of 73% and the filter frame is made of galvanized steel. Special plastic sliding guides allow for easy insertion and removal of the filter.

- **FAN SECTION**

Consists of extremely noiseless centrifugal fans in galvanized steel with two impellers and a directly coupled single phase, five speed motor, 230V 50Hz with permanently installed condenser, insulation class B.

- **HEAT EXCHANGER**

Constructed in 3/8" diameter expanded copper tubes with aluminium fins. The steel headers have 1/2" female connections and extra 1/8" tapping for drain and air vent. The connections are on the left hand side looking from the air outlet of the unit. On request or easily on site the connections can be moved to the other side.

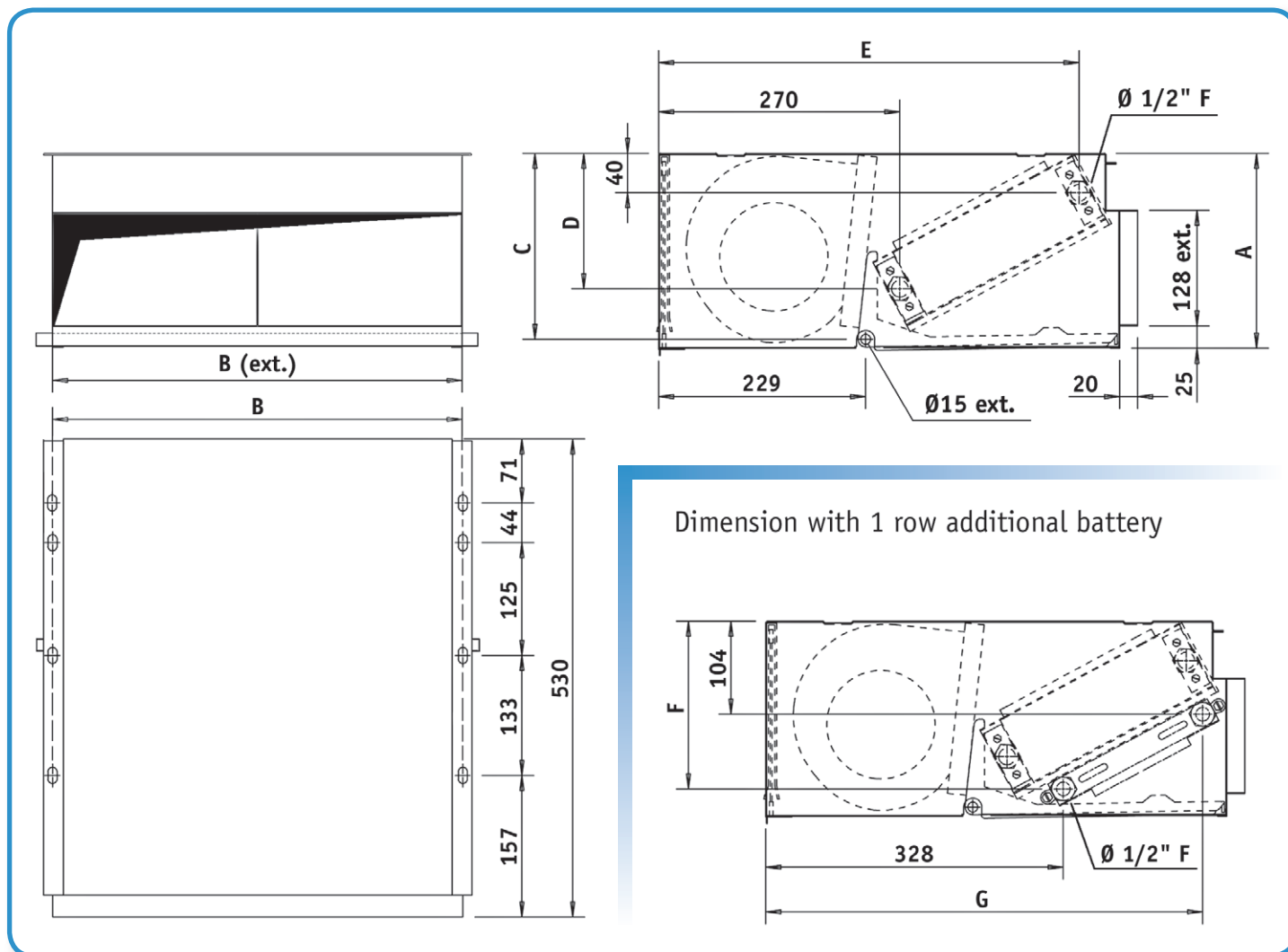
- **CONDENSATE COLLECTION TRAY**

Made from plastic with an "L" shape fitted on the inner casing. The outside diameter of the condensate discharge pipe is 15mm.





Dimensions, weight and water contents



MODEL	A	B	C	D	E	F	G	WEIGHT		WATER CONTENT		1 ROW ADDITIONAL BATTERY	
								3 row battery	4 row battery	3 row battery	4 row battery	Weight	Content
								kg	kg	litres	litres	kg	litres
FSL 1	218	669	206	149	413	186	483	16	17	1.0	1.3	1.4	0.4
FSL 2	248	884	236	176	449	210	467	24	26	1.7	2.3	1.7	0.5
FSL 3	248	1099	236	176	449	210	467	29	32	2.0	2.9	2.0	0.6
FSL 4	248	1550	236	176	449	210	467	45	48	3.2	4.2	2.7	0.9



Certifications

2 pipe units

The following standard rating conditions are used:

COOLING

Entering air temperature +27°C d.b. +19°C w.b.
Water temperature +7/12°C

HEATING

Entering air temperature +20°C
Water temperature +50°C
water flow rate as for the cooling conditions

AVAILABLE PRESSURE: 50 Pa working at medium speed

MODELLO		FSL 13			FSL 23			FSL 33			FSL 43		
		1	2	3	1	2	3	1	2	3	1	2	3
Speed													
Air flow	m ³ /h	260	290	315	440	480	540	730	820	930	950	1100	1200
Available pressure	Pa	40	50	65	40	50	65	40	50	65	40	50	65
Cooling total emission	kW	1,46	1,59	1,71	2,68	2,87	3,14	4,27	4,65	5,10	5,81	6,51	6,95
Cooling sensible emission	kW	1,11	1,22	1,32	2,00	2,15	2,36	3,24	3,56	3,94	4,34	4,90	5,26
Heating	kW	1,87	2,05	2,21	3,24	3,49	3,84	5,30	5,78	6,39	7,07	8,00	8,52
Δp Cooling	kPa	7,4	8,8	10,0	12,0	13,8	16,2	14,4	16,8	19,8	12,0	14,4	16,8
Δp Heating	kPa	6,2	7,4	8,6	10,0	11,4	13,7	13,0	15,0	17,6	10,4	13,0	15,0
Fan	W	50	55	63	92	99	110	140	160	190	175	195	210
Sound power outlet	dB(A)	46	49	51	47	49	51	51	55	57	52	56	58
Sound power inlet + radiated	dB(A)	52	56	59	53	55	58	57	60	63	58	61	64
Sound pressure level outlet	dB(A)	37	40	42	38	40	42	42	46	48	43	47	49
Sound pressure level inlet + radiated dB(A)		43	47	50	44	46	49	48	51	54	49	52	55

MODELLO		FSL 14			FSL 24			FSL 34			FSL 44		
		1	2	3	1	2	3	1	2	3	1	2	3
Speed													
Air flow	m ³ /h	260	290	315	440	480	540	730	820	930	950	1100	1200
Available pressure	Pa	40	50	65	40	50	65	40	50	65	40	50	65
Cooling total emission	kW	1,67	1,83	1,98	2,95	3,16	3,48	4,81	5,28	5,84	6,45	7,28	7,81
Cooling sensible emission	kW	1,23	1,35	1,47	2,15	2,32	2,57	3,55	3,93	4,38	4,72	5,36	5,78
Heating	kW	2,04	2,25	2,46	3,55	3,84	4,25	5,84	6,43	7,17	7,72	8,79	9,43
Δp Cooling	kPa	11,6	13,8	16,0	9,0	10,2	12,0	8,4	10,2	12,0	8,4	10,8	12,0
Δp Heating	kPa	9,8	11,7	13,7	7,8	9,1	10,4	7,2	9,1	10,4	7,8	9,8	11,1
Fan	W	50	55	63	92	99	110	140	160	190	175	195	210
Sound power outlet	dB(A)	46	49	51	47	49	51	51	55	57	52	56	58
Sound power inlet + radiated	dB(A)	52	56	59	53	55	58	57	60	63	58	61	64
Sound pressure level outlet	dB(A)	37	40	42	38	40	42	42	46	48	43	47	49
Sound pressure level inlet + radiated dB(A)		43	47	50	44	46	49	48	51	54	49	52	55

4 pipe units

The following standard rating conditions are used:

COOLING

Entering air temperature +27°C d.b. +19°C w.b.
Water temperature +7/12°C

HEATING

Entering air temperature +20°C
Water temperature +70/60°C

AVAILABLE PRESSURE: 50 Pa working at medium speed

MODEL		FSL 13 + 1			FSL 23 + 1			FSL 33 + 1			FSL 43 + 1		
		1	2	3	1	2	3	1	2	3	1	2	3
Speed													
Air flow	m ³ /h	260	290	315	440	480	540	730	820	930	950	1100	1200
Available pressure	Pa	40	50	65	40	50	65	40	50	65	40	50	65
Cooling total emission	kW	1,46	1,59	1,71	2,68	2,87	3,14	4,27	4,65	5,10	5,81	6,51	6,95
Cooling sensible emission	kW	1,11	1,22	1,32	2,00	2,15	2,36	3,24	3,56	3,94	4,34	4,90	5,26
Heating	kW	1,73	1,87	2,00	2,81	2,98	3,24	4,38	4,75	5,16	6,02	6,68	7,09
Δp Cooling	kPa	7,4	8,8	10,0	12,0	13,8	16,2	14,4	16,8	19,8	12,0	14,4	16,8
Δp Heating	kPa	6,0	7,0	8,0	2,5	3,0	3,5	7,0	8,0	9,0	15,0	18,0	20,0
Fan	W	50	55	63	92	99	110	140	160	190	175	195	210
Sound power outlet	dB(A)	46	49	51	47	49	51	51	55	57	52	56	58
Sound power inlet + radiated	dB(A)	52	56	59	53	55	58	57	60	63	58	61	64
Sound pressure level outlet	dB(A)	37	40	42	38	40	42	42	46	48	43	47	49
Sound pressure level inlet + radiated dB(A)		43	47	50	44	46	49	48	51	54	49	52	55

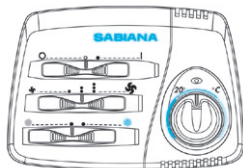
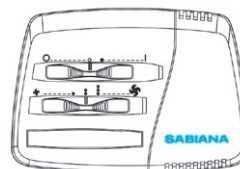
The sound pressure levels apply to the reverberant field of 100m³ room and a reverberation time of 0.5 sec.



Main controls

MO - 3V

ON-OFF switch and 3 speed switch without thermostatic control.

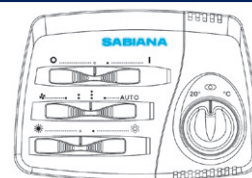


TMO - T

ON-OFF switch, 3 speed switch and summer / winter switch. Electronic room thermostat for fan or valves control (ON-OFF).

TMO - T - AU

ON-OFF switch, 3 speed switch or automatic speed selection and summer / winter switch. Electronic room thermostat for fan or valves control (ON-OFF).



TMO - 503 - SV

Designed to be installed in a series 503 wall box. ON-OFF switch, 3 speed switch or automatic speed selection and summer / winter switch. Electronic room thermostat for fan or valve control (ON-OFF). This control can be used only for 2 pipe systems (with one valve only).

TMO - DI

LCD technology. ON-OFF switch, 3 speed switch or automatic speed selection and summer / winter switch. Electronic room thermostat for fan or valves control (ON-OFF).



Infra-red remote control

All the Slim fan coils can be supplied with a micro-processor managing system operated by an infra-red remote control with liquid crystall display.



PCR-DI control panel

Used to manage a series of appliances, (up to a maximum of 60) from one single control point. The PCR-DI control communicates via a serial line with all the units connected, with the possibility of controlling them all together or individually.



Main accessories

- TME low temperature cut-out thermostat
- TMM low temperature cut-out thermostat
- Change-Over CH 15-25
- BEL electric resistance
- BSO extension condensate collection tray to cover valve assembly
- SCR plastic condensate drain pipe with fast connection
- FRD straight inlet flange
- FR 90 90° inlet flange

- GRAP and GRAG air inlet grid
- FMD straight outlet flange
- FM 90 90° outlet flange
- BMA air outlet grid
- PRC air inlet spigot plenum
- PMC spigot diffuser
- VBP main battery 3 way valve
- VBA auxiliary battery 3 way valve