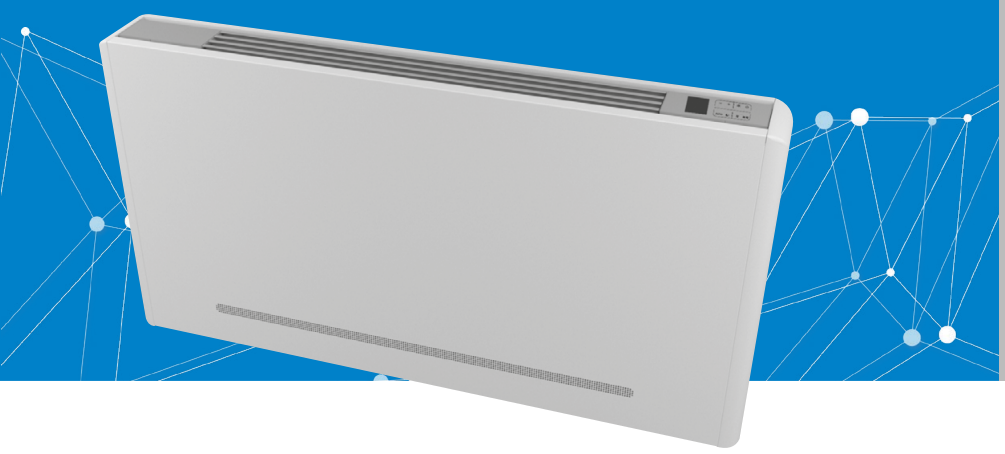
PRODUCT SELECTION DATA

EXTRA SLIM



Extra slim (129 mm depth 370mm height)

Easy installation

Elegant design and reduced dimensions

Low energy consumption

Low noise level

42SI

Cooling capacity : 0.55 kW to 2.9 kW
Heating capacity : 0.57 kW to 2.5 kW

The 42SI is an hydronic slim wall fan coil available in 4 models (with or without cabinet - standart or low height) and 5 sizes

The slim cabinet version can be installed in any ambient thanks to its elegant design and reduced dimensions (depth is only 129 mm).

All the models perform very low electric consumption and extremely quite sound levels according to the request of today's new projects.

The range consists of the following versions:

SIC - standard version with cabinet

SIR - compact version with cabinet

SIN - standard version without cabinet

SIL - compact version without cabinet

EUROVENT CERTIFIED PERFORMANCE
www.eurovent-certification.com

CARRIER participates in the ECP programme for FC/FCP
Check ongoing validity of certificate:
www.eurovent-certification.com

Original document

RANGE

The 42SI range includes 4 models and 5 sizes .

It covers a range of cooling capacity from 0.55 kW to 2.9 kW at Eurovent conditions

The 42SI is available in :

- 2 pipe system heating or cooling
- 4 pipes system heating/cooling

CODIFICATION

Range				Casing- motor	Size& type		Coil Type	Control	Body Valve	Electrical heater	Actuators	Modification index
4	2	S	I	C	2	9	F	-	-	-	A	
1	2	3	4	5	6	7	8	9	10	11	12	13

Digit 12
' - = without
A = ON/OFF 230V ACTUATOR

Digit 11
- = without

Digit 10
‘ - = without
G = 2 WAYS VALVE GROUP
H = 3 WAYS VALVE GROUP

Digit 9
- = without
A = With Electronic control & user interface built-in
B = With Electronic control & command built-in with Wifi
C= With Electronic control (witout wall user interface)

Digit 8
F = 2 pipes Left
G = 2 pipes Right
C = 4 pipes Left
D = 4 pipes Right

Digit 5 - 6 - 7			
C	2	9	Size 2 _ Standard Height with cabinet_ EC motor
C	4	9	Size 4 _ Standard Height with cabinet_ EC motor
C	6	9	Size 6 _ Standard Height with cabinet_ EC motor
C	8	9	Size 8 _ Standard Height with cabinet_ EC motor
C	9	9	Size 9_ Standard Height with cabinet_ EC motor
R	2	9	Size 2 _ Low Height (370 mm) with cabinet EC motor
R	4	9	Size 4 _ Low Height (370 mm) with cabinet_ EC motor
R	6	9	Size 6 _ Low Height (370 mm) with cabinet_ EC motor
R	8	9	Size 8 _ Low Height (370 mm) with cabinet_ EC motor
R	9	9	Size 9_ Low Height (370 mm) with cabinet_ EC motor
N	2	9	Size 2 _ Standard Height without cabinet_ EC motor
N	4	9	Size 4 _ Standard Height without cabinet_ EC motor
N	6	9	Size 6 _ Standard Height without cabinet_ EC motor
N	8	9	Size 8 _ Standard Height without cabinet_ EC motor
N	9	9	Size 9_ Standard Height without cabinet_ EC motor
L	2	9	Size 2 _ Low Height without cabinet_ EC motor
L	4	9	Size 4 _ Low Height without cabinet_ EC motor
L	6	9	Size 6 _ Low Height without cabinet_ EC motor
L	8	9	Size 8 _ Low Height without cabinet_ EC motor
L	9	9	Size 9_ Low Height without cabinet_ EC motor

TECHNICAL DESCRIPTION

Frame

Made with high-resistance electrolytically zinc-coatted metal.

Casing (for 42SIC & 42SIR version)

Air intake grid made with electrolytically zinc-coated sheet metal painted with oven-dried epoxy powders, with quick-release device to clean the filters.

Reversible air outlet grid made with aluminium painted with oven-dried epoxy powders (metallic siver paint). Its generous size enhances its high mechanical strength

For 42SIC 2 pipes :

Lateral made in plastic (RAL9003)

Front panel made with electrolytically zinc-coated sheet metal painted with oven-dried epoxy powders

For 42SIC 4 pipes & 42SIR (low height) :

Sides and front panel made with electrolytically zinc-coated sheet metal painted with oven-dried epoxy powders (RAL 9003)

Air Filter

Polypropylene filter, washable or regenerable.

Fan Motor

Tangential fan made from synthetic material with staggered fins mounted on EPDM anti-vibration supports. Statically and dynamically balanced rotor, assembled directly on the motor's shaft.

Sigle phase electric motor fitted on anti-vibration EPDM supports.

Heat exchange coil

It is made with copper pipes and aluminium fins with high efficency coils . 3/4 Eurokonus threaded fittings compliant with the requirements of the new EU Standards.

Condensate drip Tray

Made in ABS the outside diameter of the condensate discharge pipe is 14mm.

Options fitted in factory

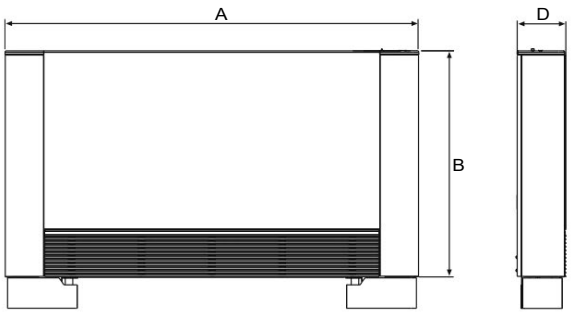
- 2 ways valve
- 3 ways valve
- ON/OFF 230V actuator
- electronic control with user interface built-in

Accessoiries available in kit

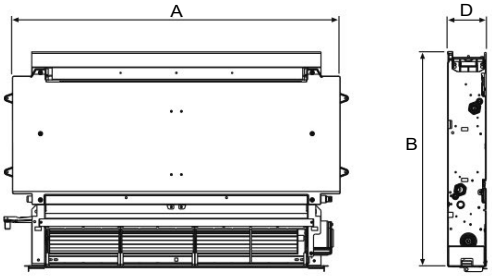
- Kit 2 ways valve
- Kit 3 ways valve
- Back panel RAL9010 for cabinet version (42SIC or 42SIR)
- White color feet for covering floor pipes
- White color support feet
- In-wall box for vertical concealed version (42SIN or 42SIL)
- Front panel RAL90032 'equipped with return grill and supply adjustable blade for vertical concealed version (42SIN or 42SIL)
- LCD TOUCH electronic wall mounted control panel with or without WIFI module color black or white

DIMENSION, WEIGHT

With cabinet version : 42SIC 2 PIPES - 42SIC 4 PIPES - 42SIR 2 PIPES



Without cabinet version : 42SIN 2-PIPE - 42SIN 4-PIPE - 42SIL 2 PIPE



42SIC 2 PIPES

DIMENSIONS		42SIC29F/G	42SIC49F/G	42SIC69F/G	42SIC89F/G	42SIC99F/G
A	mm	735	935	1135	1335	1535
B	mm	579	579	579	579	579
D	mm	129	129	129	129	129
WEIGHT						
Net weight	kg	17	20	23	26	29

42SIC 4 PIPES

DIMENSIONS		42SIC29C/D	42SIC49C/D	42SIC69C/D	42SIC89C/D	42SIC99C/D
A	mm	737	937	1137	1337	1537
B	mm	639	639	639	639	639
D	mm	131	131	131	131	131
WEIGHT						
Net weight	kg	18	21	25	28	32

42SIR 2 PIPES

DIMENSIONS		42SIR29F/G	42SIR49F/G	42SIR69F/G	42SIR89F/G	42SIR99F/G
A	mm	735	935	1135	1335	1535
B	mm	379	379	379	379	379
D	mm	129	129	129	129	129
WEIGHT						
Net weight	kg	12	14	16	19	23

42SIN 2-PIPES

DIMENSIONS		42SIN29F/G	42SIN49F/G	42SIN69F/G	42SIN89F/G	42SIN99F/G
A	mm	525	725	925	1125	1325
B	mm	576	576	576	576	576
D	mm	126	126	126	126	126
WEIGHT						
Net weight	kg	9	12	15	18	21

DIMENSION, WEIGHT

42SIN 4-PIPE

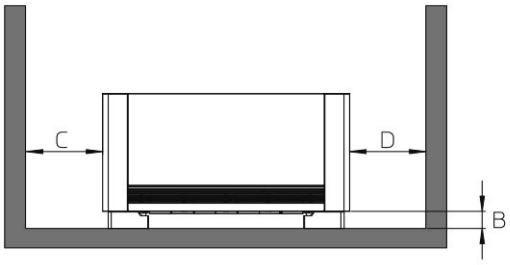
DIMENSIONS		42SIN29C/D	42SIN49C/D	42SIN69C/D	42SIN89C/D	42SIN99C/D
A	mm	479	679	879	1079	1279
B	mm	639	639	639	639	639
D	mm	126	126	126	126	126
WEIGHT						
Net weight	kg	10	13	17	20	24

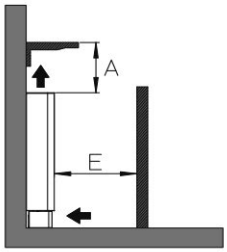
42SIL 2 PIPES

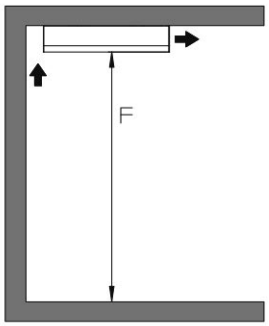
DIMENSIONS		42SIL29C/D	42SIL49C/D	42SIL69C/D	42SIL89C/D	42SIL99C/D
A	mm	525	725	925	1125	1325
B	mm	376	376	376	376	376
D	mm	126	126	126	126	126
Weight						
Net Weight	kg	7	8	9	10	12

POSITIONING

DISTANCES		29	49	69	89	99
A	mm	140	140	140	140	140
B	mm	80	80	80	80	80
C	mm	20	20	20	20	20
D	mm	20	20	20	20	20
E	mm	400	400	400	400	400
F	mm	2500	2500	2500	2500	2500







THERMAL PERFORMANCES

2 PIPES

PERFORMANCE			42SIC29F/G 42SIN29F/G	42SIR29F/G 42SIL29F/G	42SIC49F/G 42SIN49F/G	42SIR49F/G 42SIL49F/G	42SIC69F/G 42SIN69F/G
Total cooling capacity	a	kW	0,91	0,51	2,12	1,21	2,81
Sensible cooling capacity	a	kW	0,73	0,43	1,72	1,01	2,11
Water flow rate	a	L/h	157	88	365	208	483
Water pressure drop	a	kPa	12,1	4,1	8,2	11,2	17,1
Heating capacity	b	kW	1,02	0,61	2,21	1,51	3,02
Water flow rate	b	L/h	175	105	380	260	519
Water pressure loss	b	kPa	9,1	5,2	9,2	16,1	19,1
HYDRAULIC FEATURES							
Coil water content		L	0,47	0,28	0,8	0,5	1,13
Maximum operating pressure		bar	10	10	10	10	10
Hydraulic connections		EK	3/4				
AERAULIC DATA							
Maximum airflow	d	m^3/h	146	113	294	228	438
Airflow at medium speed (AUTO mode)"		m^3/h	90	63	210	155	318
Airflow at minimum ventilation speed		m^3/h	49	35	118	84	180
Maximum static pressure available		Pa	10	10	10	10	13
ELECTRICAL DATA							
Power supply voltage		V/ph/Hz	230/1/50				
Maximum electrical power consumption		W	11	11	19	19	20
Maximum current input		A	0,11	0,11	0,16	0,16	0,18
Abs. Electrical power at minimum speed		W	5	3	4	4	6
SOUND LEVEL							
Sound Power at maximum speed		db(A)	51	51	53	53	54
Sound pressure at maximum airflow	e	db(A)	41	39	42	40	44
Sound pressure at average airflow	e	db(A)	33	33	34	33	34
Sound pressure at minimum airflow	e	db(A)	24	24	25	25	26

(a) Inlet water temperature 7°C, outlet water temperature 12°C, ambient air temperature 27°C dry bulb and 19°C wet bulb (UNI EN 1397).
(b) Inlet water temperature 45°C, outlet water temperature 40°C, air temperature 20°C (UNI EN 1397 standard).
(c) Inlet water temperature 65°C, outlet water temperature 55°C, ambient air temperature 20°.
(d) Airflow measured with clean filters.
(e) Sound pressure measuredat a distance of 1 metre according to ISO7779

THERMAL PERFORMANCES

2 PIPES

PERFORMANCE			42SIR69F/G 42SIL69F/G	42SIC89F/G 42SIN89F/G	42SIR89F/G 42SIL89F/G	42SIC99F/G 42SIN99F/G	42SIR99F/G 42SIL99F/G
Total cooling capacity	a	kW	1,62	3,30	2,12	3,71	2,60
Sensible cooling capacity	a	kW	1,44	2,71	1,99	2,90	2,34
Water flow rate	a	L/h	279	568	365	638	447
Water pressure drop	a	kPa	5,1	18,0	5,3	21,2	7,2
Heating capacity	b	kW	2,03	3,81	2,62	4,32	3,11
Water flow rate	b	L/h	349	655	451	743	535
Water pressure loss	b	kPa	7,3	21,2	8,1	23,3	10,2
HYDRAULIC FEATURES							
Coil water content		L	0,61	1,46	0,77	1,8	0,9
Maximum operating pressure		bar	10	10	10	10	10
Hydraulic connections		EK	3/4				
AERAULIC DATA							
Maximum airflow	d	m^3/h	331	567	440	663	489
Airflow at medium speed (AUTO mode)		m^3/h	229	410	283	479	344
Airflow at minimum ventilation speed		m^3/h	124	247	138	262	167
Maximum static pressure available		Pa	10	13	10	13	10
ELECTRICAL DATA							
Power supply voltage		V/ph/Hz	230/1/50				
Maximum electrical power consumption		W	20	29	29	33	33
Maximum current input		A	0,18	0,26	0,26	0,28	0,28
Abs. Electrical power at minimum speed		W	4	5	4	5	5
SOUND LEVEL							
Sound Power at maximum speed		dB(A)	54	55	55	57	57
Sound pressure at maximum airflow	e	dB(A)	41	46	42	47	43
Sound pressure at average airflow	e	dB(A)	34	35	34	38	36
Sound pressure at minimum airflow	e	dB(A)	25	26	26	28	27

(a) Inlet water temperature 7°C, outlet water temperature 12°C, ambient air temperature 27°C dry bulb and 19°C wet bulb (UNI EN 1397).
(b) Inlet water temperature 45°C, outlet water temperature 40°C, air temperature 20°C (UNI EN 1397 standard).
(c) Inlet water temperature 65°C, outlet water temperature 55°C, ambient air temperature 20°.
(d) Airflow measured with clean filters.
(e) Sound pressure measuredat a distance of 1 metre according to ISO7779

THERMAL PERFORMANCES

4 PIPES

PERFORMANCE			42SIC29C/D 42SIN29C/D	42SIC49C/D 42SIN49C/D	42SIC69C/D 42SIN69C/D	42SIC89C/D 42SIN89C/D	42SIC99C/D 42SIN99C/D
Total cooling capacity	a	kW	0,71	1,42	2,01	2,43	2,92
Sensible cooling capacity	a	kW	0,55	1,11	1,50	1,92	2,26
Water flow rate	a	L/h	122	244	346	418	502
Water pressure drop	a	kPa	8,1	6,2	13,1	10,3	8,1
Heating capacity	b	kW	0,51	1,10	1,52	2,21	2,50
Water flow rate	b	L/h	88	189	261	380	430
Water pressure loss	b	kPa	3,0	5,1	7,2	5,2	6,1
HYDRAULIC FEATURES							
Cooling Coil water content		L	0,47	0,80	1,13	1,46	1,80
Heating Coil water content		L	0,16	0,30	0,38	0,49	0,60
Maximum operating pressure		bar	10	10	10	10	10
Hydraulic connections		EK	3/4				
AERAULIC DATA							
Maximum airflow	d	m^3/h	132	260	370	476	542
Airflow at medium speed (AUTO mode)		m^3/h	91	207	291	367	416
Airflow at minimum ventilation speed		m^3/h	46	124	194	302	364
Maximum static pressure available		Pa	8	8	11	11	11
ELECTRICAL DATA							
Power supply voltage		V/ph/Hz	230/1/50				
Maximum electrical power consumption		W	11	19	20	29	33
Maximum current input		A	0,11	0,16	0,18	0,26	0,28
Abs. Electrical power at minimum speed		W	4	4	4	4	5
SOUND LEVEL							
Sound Power at maximum speed		dB(A)	51	53	54	55	57
Sound pressure at maximum airflow	e	dB(A)	41	42	44	46	47
Sound pressure at average airflow	e	dB(A)	33	34	34	35	37
Sound pressure at minimum airflow	e	dB(A)	24	25	25	26	27

(a) Inlet water temperature 7°C, outlet water temperature 12°C, ambient air temperature 27°C dry bulb and 19°C wet bulb (UNI EN 1397).
(b) Inlet water temperature 45°C, outlet water temperature 40°C, air temperature 20°C (UNI EN 1397 standard).
(c) Inlet water temperature 65°C, outlet water temperature 55°C, ambient air temperature 20°.
(d) Airflow measured with clean filters.
(e) Sound pressure measuredat a distance of 1 metre according to ISO7779