Aertesi airpower

SHS-B EVO

FAN COIL - HYDRONIC WITH OUTER CASING FOR HOTELS, SILENCED

SOMETHING DIFFERENT

GB

SHS-B EVO

FAN COIL HYDRONIC WITH OUTER CASING FOR HOTELS

SHS-B belongs to the silenced hydronic fan coil family; it was developed for recessed installation in confined spaces - e.g. in hotels.

SHS-B has a single grille for the delivery and return of ambient air and does not require an inspection hatch. Ordinary maintenance of all components (filter, valves, electrical panel, drain pump, EC motor driver) is possible by removing the front grille. In case of unscheduled maintenance, fancoil units will slide on rails fixed inside a special sheet metal case. This specific construction leaves free space on the ceiling and facilitates the installation of lighting fixtures. The brushless motor guarantees optimised performance and comfort. Extremely low-noise and easy to install, it is also ideal for renovations.

CONCEALED INSTALLATION

THE SHS-B EVO FAN COILS ALLOW BETTER MANAGEMENT OF AVAILABLE SPACES AND HAVE A VERY LOW IMPACT ON THE INTERNAL DECORATION LAYOUT.
THEY ALSO DO NOT NEED INSPECTION HATCHES.

FOR FALSE CEILING

SHS-B EVO IS AN "ALL IN ONE" SOLUTION FOR INSTALLATION IN FALSE CEILINGS WITH A SINGLE AERAULIC TERMINAL FOR AMBIENT AIR INLET AND OUTLET. SIMPLY REMOVING THE GRILL ALLOWS MAINTENANCE TO BE CARRIED OUT. THE UNIT IS FULLY INSPECTABLE AND MAINTAINABLE.

SILENCE AND COMFORT

IT IS THE IDEAL SOLUTION FOR HOLIDAY ACCOMMODATION FACILITIES AND WHEREVER REST IS A MAJOR REQUIREMENT.
THANKS TO AN ACCURATE DESIGN, SHS-B EVO IS IN FACT THE LOWEST-NOISE HYDRONIC TERMINAL!
THE BEST RECIPE FOR COMFORT NEEDS A PINCH OF SILENCE.

ADVANCED SOLUTION

BASED ON ACTUAL WORKING REQUIREMENTS, SHS-B EVO IS AN IDEAL ADVANCED SOLUTION FOR:

- ARCHITECTS
- HEATING SYSTEM DESIGNERS
- INVESTORS
- INSTALLERS
- MAINTENANCE ENGINEERS

2 OR 4-PIPE SYSTEMS

THESE PRODUCTS CAN BE SUPPLIED WITH 2- OR 4-PIPE COILS AND WITH VALVE UNITS AND FLEXIBLE PIPES SUITABLE FOR REAR OR SIDE WATER CONNECTIONS.

COOLING

0.6/6.7 kw

HEATING

0.6/7.1 kw

AIR FLOW

69-1206 /h

CONSUMPTION REDUCED UP TO

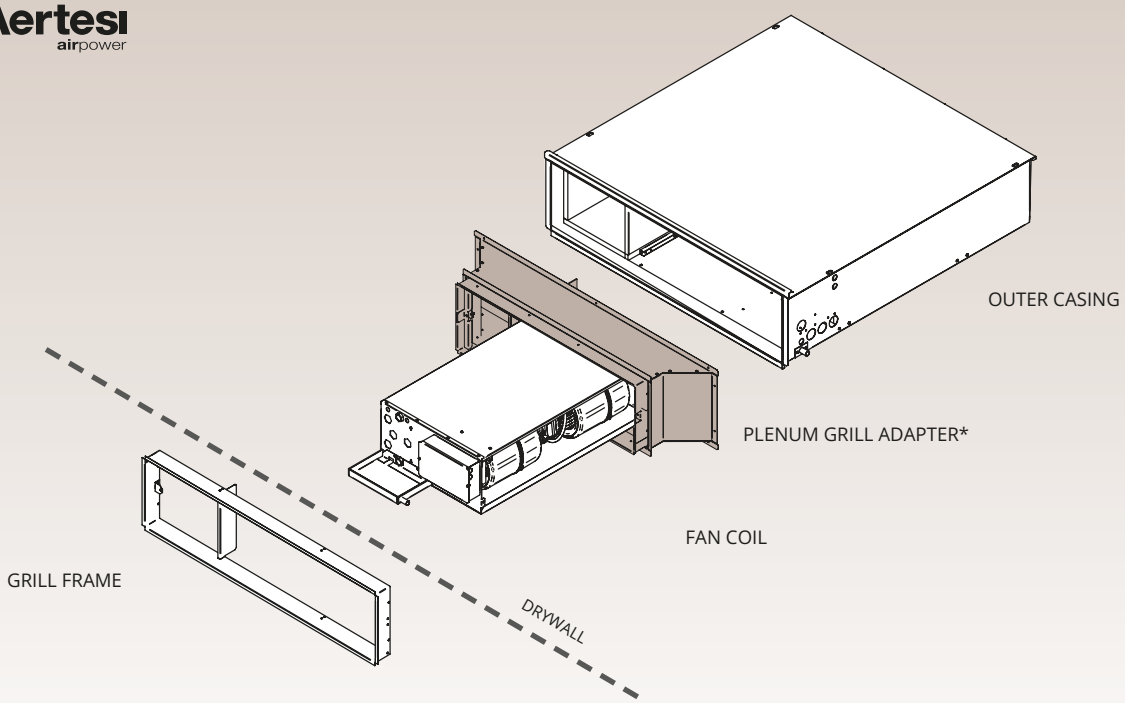
53%

SOUND POWER

15-47 dB(A)

ADAPTABILITY & DESIGN

SHS-B MAKES ON-SITE INSTALLATION/MAINTENANCE EASIER FOR BOTH RESIDENTIAL AND HOTEL USE.
ADAPTABLE TO PORT DIMENSIONS
THANKS TO PLENUMS.
TWO THIN GRILLES AVAILABLE IN CUSTOMISABLE COLOURS.



*OPTIONAL: Plenum to adapts the grill to door frame sizes (on request)

VERSIONS

ST
STANDARD VERSION

SUMMER Δt 5°C (H₂O 7°C/12°C)

C1
COOLING ONLY VERSION FOR 2-PIPE SYSTEM

SUMMER Δt 8°C (H₂O 10°C/18°C)

H1
VERSION FOR 4-PIPE SYSTEM

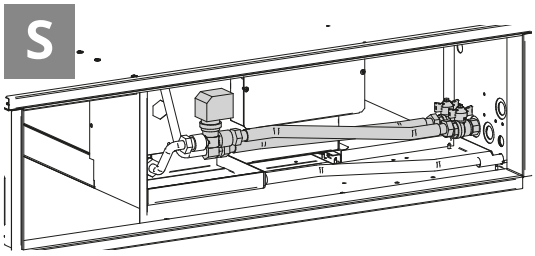
SUMMER Δt 8°C (H₂O 10°C/18°C)

VERSATILITY

SHS-B has a new set of S (Side) and B (Back) valve kits which include hoses and valves to make installation easier.

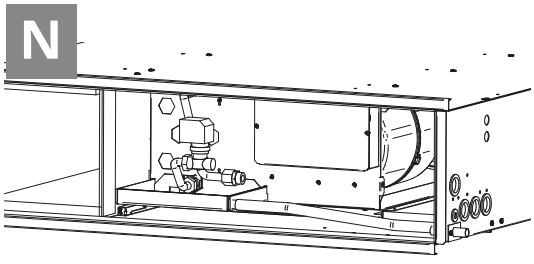
The valves can be supplied assembled in the unit in three different configurations:
with hydraulic connections inside the outer casing (N), with connections from the side (S) and from the back (B).
Servo-controlled valves should be used to prevent the formation of condensate on the surface of the unit when the fan stops.

S



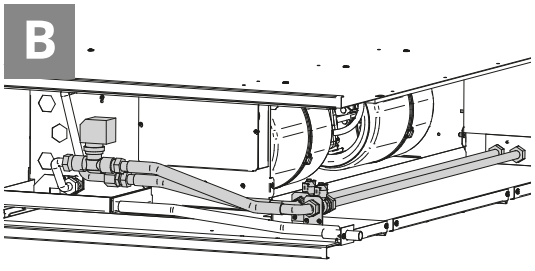
Valve assembly with connections from the side (the installer must connect the hydraulic system laterally).

N



Valve assembly with connections inside the outer casing (the installer must connect the hydraulic system inside the casing).

B

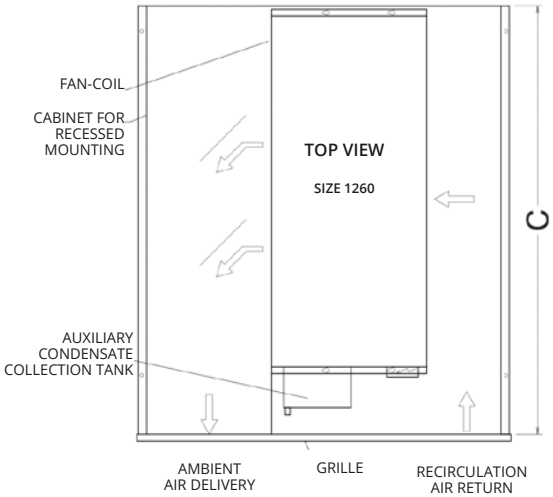


Valve assembly with connections from the back (the installer must connect the hydraulic system laterally on the back).

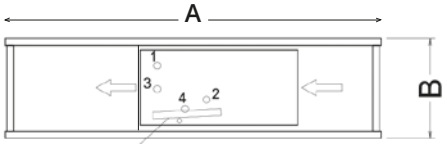
SHS-B DIMENSIONAL

SIZE SHS-B	A	B	C	WEIGHT 2 PIPES - Kg	WEIGHT 2 PIPES - Kg
320	1000	290	750	27	29
634	1000	290	1010	35	38
1260	1100	290	1270	43	47

A = width mm, B = height mm, C = depth mm



FRONT VIEW (WITHOUT GRILLE)



1 - MAIN COIL DELIVERY 1/2"
2 - MAIN COIL RETURN 1/2"
3 - AUX COIL DELIVERY 1/2"
4 - AUX COIL RETURN 1/2"

GRILLE DIMENSIONAL
(WITHOUT ADAPTER)

MODEL	SIZE SHS-B	A	B	C
S141	**320/634**	986	250	2
	1260	1086	250	2
S144	**320/634**	955	250	2
	1260	1055	250	2

A = width mm, B = height mm, C = depth mm

S141

S144

SHS-B

AC MOTOR
2-PIPE SYSTEM

		320			634		
		4 rows			4 rows		
SPEED		min	med	max	min	med	max
Air flow	m3/h	148	242	279	238	383	446
COOLING - air 27°C dry bulb, 19°C wet bulb - water inlet 7°C, outlet 12°C							
Total capacity	kW	1.11	1.64	1.82	1.61	2.36	2.66
Sensitive capacity	kW	0.77	1.17	1.32	1.13	1.69	1.93
Water flow rate	l/h	192	287	319	281	413	464
Δp (water)	kPa	5.3	11.1	13.4	2.2	4.5	5.5
HEATING - air 20°C - water inlet 45°C, outlet 40°C							
Capacity	kW	1.07	1.65	1.86	1.57	2.42	2.74
Water flow rate	l/h	182	281	317	268	412	467
Δp (water)	kPa	4.8	10.6	13.2	2.0	4.4	5.6
MOTOR ELECTRIC POWER DRAW							
Power draw	W	15	28	32	21	36	43
Max power draw	A		0.19			0.24	
SOUND DATA							
Sound power	dB(A)	30	37	40	28	35	39
Sound pressure (*)	dB(A)	21	28	31	19	26	30

AC MOTOR
4-PIPE SYSTEM

		320 + B1			634 + B1		
		4 rows + 1			4 rows + 1		
SPEED		min	med	max	min	med	max
Air flow	m3/h	148	242	279	238	383	446
COOLING - air 27°C dry bulb, 19°C wet bulb - water inlet 7°C, outlet 12°C							
Total capacity	kW	1.11	1.64	1.82	1.61	2.36	2.66
Sensitive capacity	kW	0.77	1.17	1.32	1.13	1.69	1.93
Water flow rate	l/h	192	287	319	281	413	464
Δp (water)	kPa	5.3	11.1	13.4	2.2	4.5	5.5
HEATING - air 20°C - water inlet 65°C, outlet 55°C							
Capacity	kW	1.02	1.46	1.61	1.57	2.24	2.50
Water flow rate	l/h	87	125	138	135	192	214
Δp (water)	kPa	2.3	4.6	5.5	6.5	12.5	15.3
MOTOR ELECTRIC POWER DRAW							
Power draw	W	15	28	32	21	36	43
Max power draw	A		0.19			0.24	
SOUND DATA							
Sound power	dB(A)	30	37	40	28	35	39
Sound pressure (*)	dB(A)	21	28	31	19	26	30

(*) = the sound pressure levels are lower than power levels by 9 dB(A) for a 100 m^3 space and a reverberation time of 0.5 sec.

EC MOTOR
2-PIPE SYSTEM

		320			634			1260		
		4 rows			4 rows			4 rows		
Speed (Drive voltage)	V	3	4	7	4	5	7	4	5	8
Air flow	m3/h	147	182	284	327	386	504	499	626	951
COOLING - air 27°C dry bulb, 19°C wet bulb - water inlet 7°C, outlet 12°C										
Total capacity	kW	1.10	1.32	1.87	2.12	2.41	2.95	3.51	4.19	5.66
Sensitive capacity	kW	0.77	0.93	1.36	1.51	1.74	2.16	2.50	3.01	4.18
Water flow rate	l/h	191	229	324	365	417	510	607	725	986
Δp (water)	kPa	5.2	7.2	13.8	3.5	4.55	6.55	10.9	17.0	29.8
HEATING - air 20°C - water inlet 45°C, outlet 40°C										
Capacity	kW	1.05	1.28	1.87	2.09	2.41	3.02	3.43	4.15	5.90
Water flow rate	l/h	181	220	322	359	415	519	589	713	1008
Δp (water)	kPa	4.7	6.7	13.6	3.4	4.5	6.7	10.2	14.4	27.2
MOTOR ELECTRIC POWER DRAW										
Power draw	W	7	8	13	10	13	19	18	28	74
Max power draw	A		0.19			0.27			0.67	
SOUND DATA										
Sound power	dB(A)	29	32	40	32	35	41	40	45	54
Sound pressure (*)	dB(A)	20	23	31	23	26	32	31	36	45

EC MOTOR
4-PIPE SYSTEM

		320 + B1			634 + B1			1260 + B1		
		4 rows + 1			4 rows + 1			4 rows + 1		
Speed (Drive voltage)	V	3	4	7	4	5	7	4	5	8
Air flow	m3/h	147	182	284	327	386	504	499	626	951
COOLING - air 27°C dry bulb, 19°C wet bulb - water inlet 7°C, outlet 12°C										
Total capacity	kW	1.10	1.32	1.87	2.12	2.41	2.95	3.51	4.19	5.66
Sensitive capacity	kW	0.77	0.93	1.36	1.51	1.74	2.16	2.50	3.01	4.18
Water flow rate	l/h	191	229	324	365	417	510	607	725	986
Δp (water)	kPa	5.2	7.2	13.8	3.5	4.6	6.6	10.9	17.0	29.8
HEATING - air 20°C - water inlet 65°C, outlet 55°C										
Capacity	kW	1.01	1.18	1.62	1.98	2.22	2.71	3.06	3.61	4.75
Water flow rate	l/h	87	102	140	171	193	234	265	312	408
Δp (water)	kPa	2.3	3.1	5.6	10.1	12.6	18.1	6.6	8.9	14.9
MOTOR ELECTRIC POWER DRAW										
Power draw	W	7	8	13	10	13	19	18	28	74
Max power draw	A		0.19			0.27			0.67	
SOUND DATA										
Sound power	dB(A)	29	32	40	32	35	41	40	45	54
Sound pressure (*)	dB(A)	20	23	31	23	26	32	31	36	45

(*) = the sound pressure levels are lower than power levels by 9 dB(A) for a 100 m^3 space and a reverberation time of 0.5 sec.

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