Aertesi airpower

SOFFIO HP

DUCTABLE UNIT 150 PA

SOMETHING DIFFERENT

GB

SOFFIO HP

DUCTABLE UNIT 150 PA

The units of the “SOFFIO HP” series with high head, modular sections are ideal for small centralized air conditioning systems where air distribution in the environment takes place through special ducts.
The new range has heights from 370 to 635 mm and has been developed with quality components, with an eye to ease of installation, accessibility and maintenance by the end installer.
The high head fans are sized to provide 150 Pa of pressure at the rated flow.
SOFFIO HP is available in the standard version without filter with single horizontal panel with AC and EC motor; other double panel configurations are available on request.
A wide range of accessories is available with the base units.

LOW-NOISE

HIGH THICKNESS GALVANISED SHEET PANELS. 1.00-1.50 mm.
INSULATION MADE WITH 10 mm THICK CROSS-LINKED POLYETHYLENE FOAM, CLASS B-S2D0 BL-S1D0 ACCORDING TO THE EN13501-1 STANDARD.

ADVANCED CONTROL

ADVANCED CONTROL ENABLES TO MANAGE MASTER/SLAVE COMBINATIONS OF UP TO 24 UNITS AND TO USE WALL MOUNTED OR REMOTE CONTROLS.

EASY MAINTENANCE

THE FILTER IS REMOVABLE FROM THE BOTTOM OR FROM THE SIDES, WITHOUT HAVING TO USE TOOLS.
INTERNAL COMPONENTS AND ELECTRICAL AND ELECTRONIC DEVICES ARE EASILY ACCESSIBLE WITHOUT HAVING TO DISCONNECT DUCTING.

EXCHANGER WITH HIGH EFFICIENCY

THE EXCHANGERS ARE OF THE CU/AL 3/8” DIAMETER TYPE WITH HIGHLY EFFICIENT CORRUGATED ALUMINIUM FINS AND EASILY ACCESSIBLE AIR VENT VALVES.
NOMINAL PRESSURE PN8.

FLEXIBILITY

POSSIBILITY OF CHANGING THE HYDRAULIC CONNECTIONS SIDE ON SITE.

BMS COMPATIBLE

POSSIBILITY OF CONTROLLING UP TO 240 UNITS WITHOUT DATA LOGGER WITH TOP3, SP3 AND BMS-SP3 WITH MODBUS PROTOCOL.

ENERGY SAVING

THE EC MOTOR ALLOWS THE SPEED OF THE FAN UNIT TO BE ACCURATELY MODULATED AND LIMITS THE ENERGY INPUT TO THE ACTUAL WORKLOAD REQUIRED, WITHOUT UNNECESSARY WASTE.

COOLING

4.0/69.0kw

HEATING

5.0/74.0kw

AIR FLOW

857-8800m³/h

CONSUMPTION REDUCED UP TO

35%

SOLUTIONS FOR COMPLETE AIR TREATMENT

THE SOFFIO SERIES WITH ITS 70PA HEAD IS IDEALLY SUITABLE FOR MEDIUM-LARGE ENVIRONMENTS SUCH AS OFFICE BUILDINGS, STORES, PRACTICES, CLINICS.
FOR LARGER-SURFACE INSTALLATIONS, THE 150 PA SOFFIO HP VERSION IS AVAILABLE.
WIDE RANGE OF ACCESSORIES SUPPLIED WITH THE MACHINE.

SOFFIO HP HORIZONTAL VERSION STANDARD

HC

HORIZONTAL INTAKE
IN LINE WITH THE DELIVERY
(STANDARD)

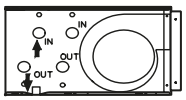
MODEL IDENTIFICATION

SHP	91	HC	SP	4	RX*	EC
MODEL	SIZE	VERSION	PANEL	ROWS	CONNECTION SIDE	MOTOR

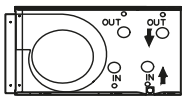
SP - SINGLE PANEL / DP - DOUBLE PANEL
RX - RIGHT-HAND / LX - LEFT-HAND
FRONT, AIR DELIVERY
*** STANDARD CONNECTION ON THE RIGHT**

CONNECTORS FOR COIL

LEFT-HAND



RIGHT-HAND



The arrows indicate the IN and OUT ends of the main coil.

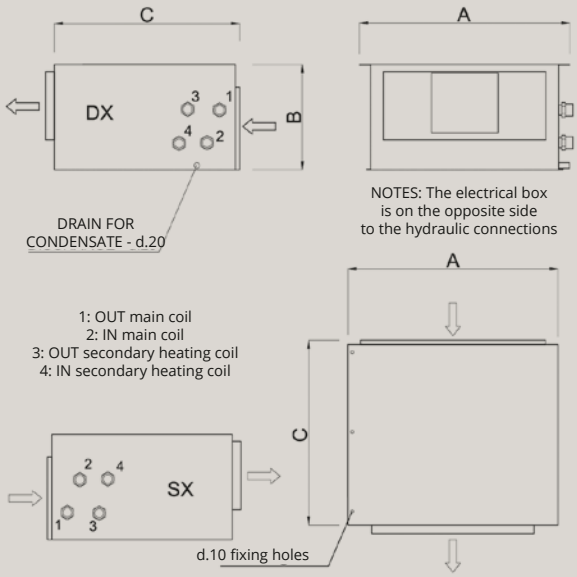
DIMENSIONAL DWGS

SINGLE PANEL

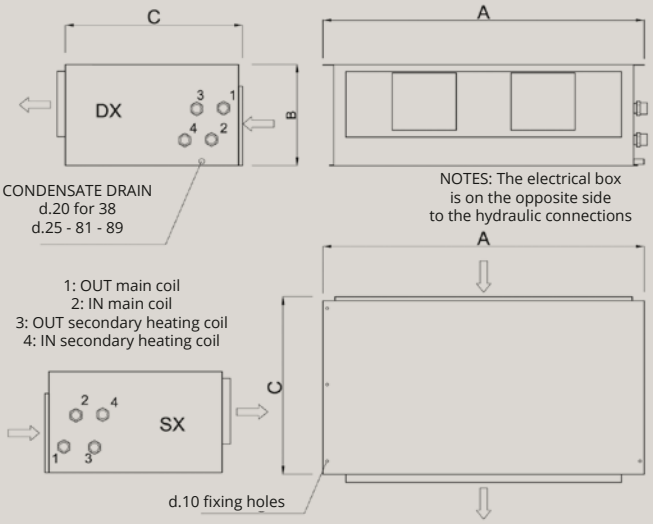
SIZE	A	B	C	**WEIGHT** 3 ROWS	**WEIGHT** 4 ROWS	**WEIGHT** 6 ROWS	**WEIGHT** + COIL 2 ROWS
21	738	370	650	48	50	54	4
38	1178	370	650	65	68	74	6
81	1178	435	750	100	104	112	8
91	1178	485	795	-	135	145	10
101	2028	485	795	-	150	160	10
101	2178	635	915	-	198	208	10

A = length mm
B = height mm
C = depth mm

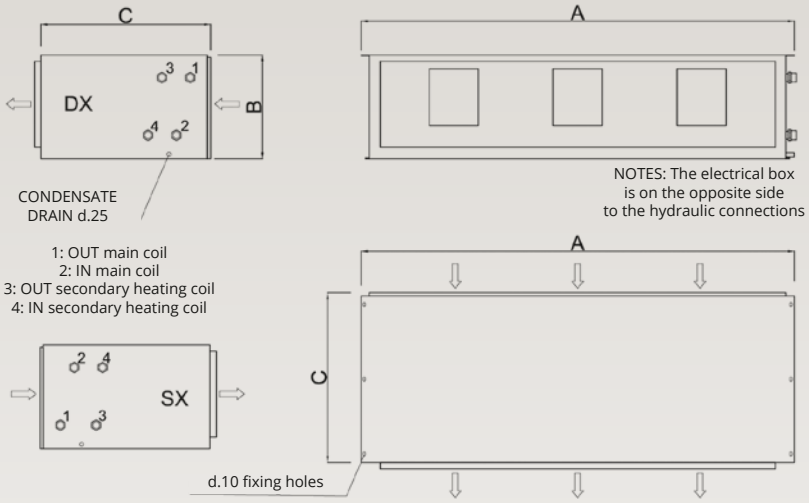
SHP
SIZE 21



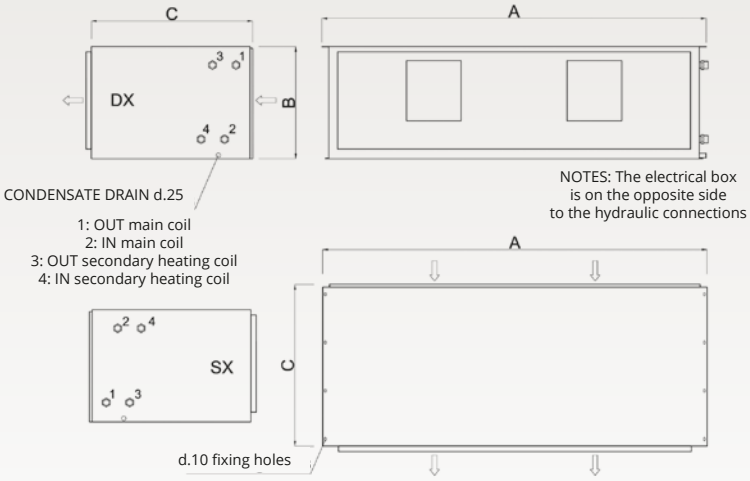
SHP
SIZE 38 - 81 - 91



SHP
SIZE 101



SHP
SIZE 121



SOFFIO HP AC

AC MOTOR
2-PIPE SYSTEM WITH 4-ROW COIL

		21			38			81		
SPEED		min	med	max	min	med	max	min	med	max
Air flow	m3/h	857	1080	1257	1643	2000	2330	2725	3598	4510
Head	Pa	150	150	150	150	150	150	150	150	150
COOLING - air 27°C dry bulb, 19°C wet bulb - water inlet 7°C, outlet 12°C										
Total capacity	kW	4.76	5.52	5.98	9.00	10.16	11.13	15.91	19.03	21.74
Sensitive capacity	kW	3.88	4.60	5.10	7.35	8.46	9.42	12.75	15.70	18.42
Water flow rate	l/h	818	948	1028	1548	1746	1909	2738	3269	3742
Δp (water)	kPa	11.3	14.7	22.5	15.0	18.6	21.8	15.4	21.0	26.7
HEATING - air 20°C - water inlet 45°C, outlet 40°C										
Capacity	kW	5.50	6.53	7.26	10.45	12.10	13.41	18.09	22.35	26.27
Water flow rate	l/h	953	1129	1257	1808	2088	2327	3136	3864	4542
Δp (water)	kPa	15.0	20.3	24.4	15.1	19.4	23.5	15.0	21.6	28.7
MOTOR ELECTRIC POWER DRAW										
Power draw	W	276	220	261	310	350	420	859	983	1258
Max power draw	A		1.9			3.8			7.0	
SOUND DATA										
Return + radiated sound power	dB(A)	62	66	67	67	68	68	69	72	75
Delivery sound power	dB(A)	67	68	70	70	71	73	74	74	78
Return + radiated sound pressure (*)	dB(A)	53	57	58	58	59	59	60	63	66
Delivery sound pressure (*)	dB(A)	58	59	61	61	62	64	65	65	69

AC MOTOR
2-PIPE SYSTEM WITH 4-ROW COIL

		91			101			121		
SPEED		min	med	max	min	med	max	min	med	max
Air flow	m3/h	2638	3570	4980	3955	5400	6828	5900	7100	8800
Head	Pa	150	150	150	150	150	150	150	150	150
COOLING - air 27°C dry bulb, 19°C wet bulb - water inlet 7°C, outlet 12°C										
Total capacity	kW	17.06	20.90	25.90	24.02	29.43	34.01	35.88	40.56	46.38
Sensitive capacity	kW	13.41	16.79	21.36	19.08	23.98	28.34	28.34	32.48	37.93
Water flow rate	l/h	2935	3598	4445	4138	5066	5838	6173	6971	9152
Δp (water)	kPa	6.0	11.6	16.9	17.0	24.3	31.1	22.2	27.5	34.9
HEATING - air 20°C - water inlet 45°C, outlet 40°C										
Capacity	kW	18.75	23.76	30.52	26.81	33.90	40.11	39.79	45.78	53.63
Water flow rate	l/h	3246	4113	5276	4633	5863	6941	6880	7920	9277
Δp (water)	kPa	7.4	11.2	17.4	15.8	23.9	32.2	20.5	26.3	34.7
MOTOR ELECTRIC POWER DRAW										
Power draw	W	758	993	1327	1297	1400	1822	1500	1600	2240
Max power draw	A		7.0			10.5			15	
SOUND DATA										
Return + radiated sound power	dB(A)	63	67	71	70	74	77	74	77	79
Delivery sound power	dB(A)	68	69	74	75	76	80	78	81	83
Return + radiated sound pressure (*)	dB(A)	54	58	62	61	65	68	65	68	70
Delivery sound pressure (*)	dB(A)	59	60	65	66	67	71	69	72	74

(*) = the sound pressure levels are lower than power levels by 9 dB(A) for a 100 m3 space and a reverberation time of 0.5 sec.
The human hearing is more perceivable to frequencies above 2000 Hz while the sound data here declared include all the band middle frequencies. For more details, refer to the technical manual.

SOFFIO HP EC

EC MOTOR
2-PIPE SYSTEM WITH 4-ROW COIL

		21			38			81		
SPEED (DRIVE VOLTAGE)	V	6V	8V	10V	6V	8V	10V	5V	7V	10V
Air flow	m3/h	494	906	1211	976	1719	2290	1867	3054	4447
Head	Pa	150	150	150	150	150	150	150	150	150
COOLING - air 27°C dry bulb, 19°C wet bulb - water inlet 7°C, outlet 12°C										
Total capacity	kW	3.27	4.94	5.84	6.35	9.26	11.02	12.27	17.16	21.63
Sensitive capacity	kW	2.54	4.04	4.95	4.96	7.59	9.31	9.58	13.95	18.20
Water flow rate	l/h	562	850	1006	1093	1591	1891	2111	2948	3711
Δp (water)	kPa	5.7	12.1	21.7	6.0	15.8	21.4	7.2	17.6	26.3
HEATING - air 20°C - water inlet 45°C, outlet 40°C										
Capacity	kW	3.59	5.73	7.07	6.99	10.81	13.30	13.52	19.73	26.05
Water flow rate	l/h	619	993	1224	1208	1869	2298	2329	3420	4498
Δp (water)	kPa	7.0	16.1	23.4	7.4	16.0	23.0	8.8	17.4	28.1
MOTOR ELECTRIC POWER DRAW										
Power draw	W	71	140	240	126	262	447	226	470	1086
Max power draw	A		1.7			3.4			4.2	
SOUND DATA										
Return + radiated sound power	dB(A)	54	57	60	63	67	69	64	70	76
Delivery sound power	dB(A)	58	61	64	65	71	73	66	74	80
Return + radiated sound pressure (*)	dB(A)	45	48	51	54	58	60	55	61	67
Delivery sound pressure (*)	dB(A)	49	52	55	56	62	64	57	65	71

EC MOTOR
2-PIPE SYSTEM WITH 4-ROW COIL

		91			101			121		
SPEED (DRIVE VOLTAGE)	V	5V	7V	10V	5V	7V	10V	5V	7V	10V
Air flow	m3/h	1911	3147	4530	2800	4516	6637	5200	6900	8050
Head	Pa	150	150	150	150	150	150	150	150	150
COOLING - air 27°C dry bulb, 19°C wet bulb - water inlet 7°C, outlet 12°C										
Total capacity	kW	13.42	19.24	24.44	18.93	26.31	33.38	32.97	39.83	43.89
Sensitive capacity	kW	10.31	15.26	19.95	14.61	21.04	27.69	25.72	31.83	35.64
Water flow rate	l/h	2312	3307	4193	3252	4519	5742	5665	6843	7546
Δp (water)	kPa	3.9	10.0	15.2	11.1	19.8	30.2	19.1	26.7	31.7
HEATING - air 20°C - water inlet 45°C, outlet 40°C										
Capacity	kW	14.39	21.58	28.45	20.38	29.65	39.35	36.08	44.80	50.25
Water flow rate	l/h	2505	3731	4921	3524	5128	6805	6237	7752	8695
Δp (water)	kPa	4.7	9.5	15.4	9.8	18.9	31.1	17.2	25.3	31.0
MOTOR ELECTRIC POWER DRAW										
Power draw	W	259	466	1034	387	726	1945	640	1020	1440
Max power draw	A		4.2			6.3			11	
SOUND DATA										
Return + radiated sound power	dB(A)	57	63	70	60	66	73	70	74	77
Delivery sound power	dB(A)	61	67	74	64	70	77	74	78	81
Return + radiated sound pressure (*)	dB(A)	48	54	61	51	57	64	61	65	68
Delivery sound pressure (*)	dB(A)	52	58	65	55	61	68	65	69	72

(*) = the sound pressure levels are lower than power levels by 9 dB(A) for a 100 m3 space and a reverberation time of 0.5 sec.
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