

Hawair

Chilled Water Wall Mounted Units
Models HAW 007-009-018-022

1.8 to 5.5kW



1.3 to 4.2kW



Specifications

The **Hawair** chilled water wall mounted units offer several advantages for air-conditioning applications in residential, hotel and small service sectors :

- Very compact line.
- Esthetic that blends in with the decor.
- Silent unit for optimum acoustic comfort.
- Infrared remote control.
- Motorized and adjustable discharge louver.
- Compact and light for easy installation.
- Washable air filter easily accessible for maintenance.

Presentation

Hawair units operate in the following modes :

- 2-pipe version.
- Reversible 2-pipe version.

And available in **4 sizes** and **3 versions** :

- IR version without valve (IR SV) - Sizes 007 - 009 - 018 - 022.
- IR version with valve (IR AV) - Sizes 009 and 022.
- Terminal block version without valve (TB SV) - Sizes 007 - 009 - 018 - 022.

All chilled water wall mounted units have been designed for easy maintenance via removable front panel.

Casing

Made from a plastic structure with high mechanical properties and resistance to aging.

Coil

Consists of copper tubes of diameter 5/16 "and louvered aluminum fins with hydrophilic coating for better condensate drainage and increased longevity.

Hydraulic fittings are straight, of 12 mm diameter, and provided with an extension equipped with a female 1/2 " gas type connector.

Filter

Electrostatic and anti-bacterial synthetic type air filter accessible after opening the front panel.

Ventilation

3-speed motor equipped with internal thermal protection, with high efficiency tangential wheel ensuring quiet operation.

Power supply

Power supply : 230 V / 1 Phase / 50 Hz + Earth.

Condensate drain pan

Plastic with Ø 16 mm connection.

Installation

Drilling template provided.

Controls

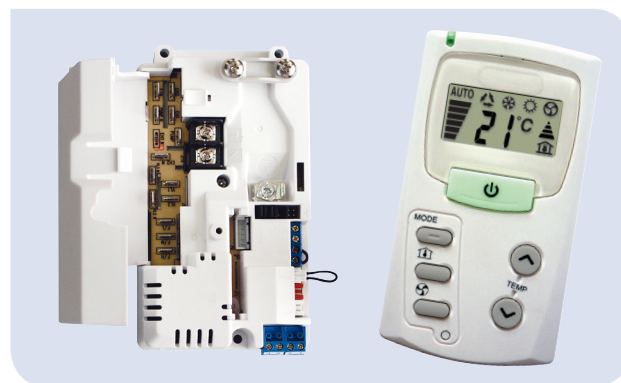
- RC-08A IR remote control supplied with IR version.



- Terminal block for connecting a wall thermostat (accessory).

Accessories

- Aqu@Net controller (mounted outside the unit).



- Wall thermostat : Aqu@Simp or TRM.




Operating limits

Entering water temperature min.	+5 °C
Entering water temperature max.	+60 °C
Maximum operating hydraulic pressure	15 bars
Min. operating temperature (room/return/around the unit)	6 °C/15% HR
Max. operating temperature (room/return/around the unit)	40 °C/70% HR

Technical Data

Hawair 2-pipe - With and without IR - Without valve

Hawair		HAW007	HAW009	HAW018	HAW022
					
capacities					
Total cooling capacity (1) - LS	W	1340	1490	1710	2790
Total cooling capacity (1) - MS	W	1540	1680	2160	3210
Total cooling capacity (1)	W	1710	1870	2400	3570
Total cooling capacity (1) - HS	W	1730	2180	2810	3780
Total cooling capacity (1)	W	1920	2420	3120	4200
Sensible capacity - LS	W	1000	1100	1190	1970
Sensible capacity - MS	W	1210	1320	1670	2260
Sensible capacity	W	1370	1500	1900	2570
Sensible capacity- HS	W	1280	1710	2110	2710
Sensible capacity	W	1450	1940	2400	3080
Water pressure drop - LS	kPa	14.4	23.3	51.6	50.9
Water pressure drop - MS	kPa	16.3	26.1	57.4	58.5
Water pressure drop - HS	kPa	18.8	35	66.3	70
Heating capacity (2) - LS	W	1780	1840	2130	3350
Heating capacity (2) - MS	W	2030	2180	2980	3860
Heating capacity (2)	W	2390	2570	3510	4540
Heating capacity (2) - HS	W	2150	2710	3500	4710
Heating capacity (2)	W	2530	3190	4120	5540
sound levels					
Sound power level - LS	dB(A)	45	47	53	56
Sound power level - MS	dB(A)	49	52	56	59
Sound power level - HS	dB(A)	51	57	59	63
Sound pressure level (3) - LS	dB(A)	37	39	45	48
Sound pressure level (3) - MS	dB(A)	41	44	48	51
Sound pressure level (3) - HS	dB(A)	43	49	51	55
NR (3) - LS	dB(A)	32	34	40	43
NR (3) - MS	dB(A)	36	39	43	46
NR (3) - HS	dB(A)	38	44	46	50
ventilation					
Number		1	1	1	1
Air flow - LS	rpm / m ³ /h	750 / 252	800 / 243	900 / 450	1000 / 531
Air flow - MS	rpm / m ³ /h	850 / 288	900 / 369	1000 / 522	1150 / 612
Air flow - HS	rpm / m ³ /h	950 / 306	1200 / 459	1150 / 581	1380 / 729
electrical characteristics					
Power supply	V/Ph/Hz	230V / 1~ / 50Hz			
Consumption - LS	W	39	45	46.2	51
Consumption - MS	W	42	47	52.8	59
Consumption - HS	W	59	59	65	71
FCEER - Energy class		E	E	E	E
FCCOP - Energy class		E	E	E	E
water connection					
Type		Gas female			
Coupling	inch	1/2"			
dimensions					
Length x Width x Height	mm	845 x 275 x 180	845 x 275 x 180	940 x 298 x 200	940 x 298 x 200
weight					
Weight	kg	11	11	13	13


(1) According to Eurovent : Air = 27 °C dry bulb / 19 °C wet bulb - Water = 7 °C / 12 °C.

(2) According to Eurovent : Air = 20 °C, same flow as in cooling mode.

(3) Sound pressure levels considering a room having a volume of 100 m³, with a reverberation time of 0.5 seconds and a distance of 1 meter.

Technical Data (continued)

Hawair 2-pipe - With IR - With valve

Hawair		HAW007	HAW009	HAW018	HAW022
					
capacities					
Total cooling capacity (1) - LS	W	-	960	-	2390
Total cooling capacity (1) - MS	W	-	1200	-	2250
Total cooling capacity (1) - HS	W	-	1500	-	2810
Sensible capacity - LS	W	-	680	-	1850
Sensible capacity - MS	W	-	960	-	1540
Sensible capacity - HS	W	-	1120	-	2030
Water pressure drop - LS	kPa	-	31.5	-	84.3
Water pressure drop - MS	kPa	-	37.4	-	96.3
Water pressure drop - HS	kPa	-	44	-	111
Heating capacity (2) - LS	W	-	1250	-	3020
Heating capacity (2) - MS	W	-	1750	-	2850
Heating capacity (2) - HS	W	-	1980	-	3620
sound levels					
Sound power level - LS	dB(A)	-	49	-	58
Sound power level - MS	dB(A)	-	52	-	61
Sound power level - HS	dB(A)	-	56	-	66
Sound pressure level (3) - LS	dB(A)	-	32	-	39
Sound pressure level (3) - MS	dB(A)	-	36	-	42
Sound pressure level (3) - HS	dB(A)	-	42	-	46
NR (3) - LS	dB(A)	-	27	-	34
NR (3) - MS	dB(A)	-	31	-	37
NR (3) - HS	dB(A)	-	37	-	41
ventilation					
Number		-	1	-	1
Air flow - LS	rpm / m3/h	-	900 / 246.4	-	1050 / 490
Air flow - MS	rpm / m3/h	-	1070 / 323	-	1200 / 560
Air flow - HS	rpm / m3/h	-	1260 / 390.6	-	1380 / 705
electrical characteristics					
Power supply	V/Ph/Hz	230V / 1~ / 50Hz			
Consumption - LS	W	-	36	-	46
Consumption - MS	W	-	42	-	52
Consumption - HS	W	-	50	-	60
FCEER		-	E	-	E
FCCOP		-	E	-	E
water connection					
Type	Gas female				
Coupling	inch	1/2"			
dimensions					
Length x Width x Height	mm	-	845 x 275 x 180	-	940 x 298 x 200
weight					
Weight	kg	-	11	-	13

(1) According to Eurovent : Air = 27 °C dry bulb / 19 °C wet bulb - Water = 7 °C / 12 °C.

(2) According to Eurovent : Air = 20 °C, same flow as in cooling mode.

(3) Sound pressure levels considering a room having a volume of 100 m³, with a reverberation time of 0.5 seconds and a distance of 1 meter.

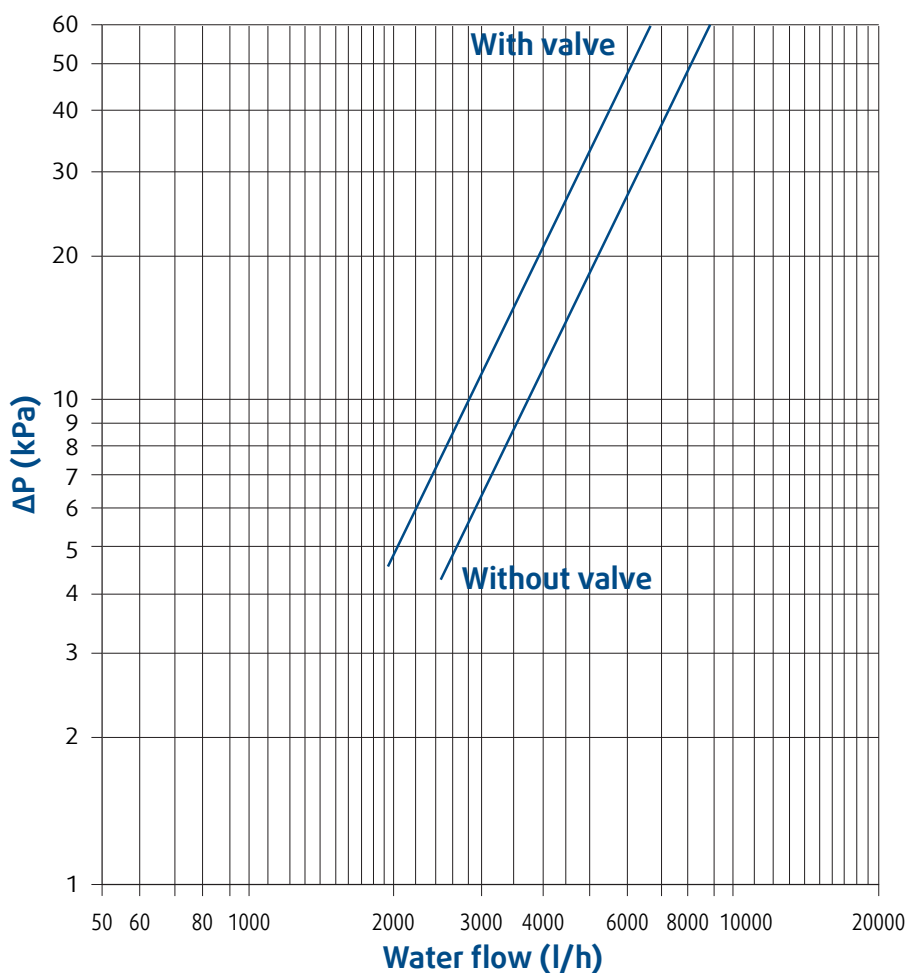
Cooling Capacities

Hawair				HAW007			HAW009			HAW018			HAW022		
Water in/out	Entering air temperature			Air flow (m ³ /h)			Air flow (m ³ /h)			Air flow (m ³ /h)			Air flow (m ³ /h)		
				LS	MS	HS	LS	MS	HS	LS	MS	HS	LS	MS	HS
				252	288	306	243	369	459	450	522	581	531	612	729
6 / 11 °C	27 °C	Total capacity	W	1820	2100	2410	1900	2250	3250	3215	3610	4000	3800	4390	5190
	47%	Sensible capacity	W	1450	1745	1900	1600	1800	2550	2500	2750	3100	2950	3490	4020
	25 °C	Total capacity	W	1590	1835	2110	1620	1970	2780	2775	3140	3500	3180	3600	4250
	50%	Sensible capacity	W	1240	1500	1700	1400	1590	2250	2225	2450	2750	2580	3000	3450
	23 °C	Total capacity	W	1250	1460	1680	1300	1530	2170	2190	2460	2740	2500	2900	3350
	50%	Sensible capacity	W	1115	1340	1510	1250	1430	2025	1980	2200	2480	2300	2680	3000
7 / 12 °C	27 °C	Total capacity	W	1340	1540	1730	1490	1680	2180	1710	2160	2810	2790	3210	3780
	47%	Sensible capacity	W	1000	1210	1280	1100	1320	1710	1190	1670	2110	1970	2260	2710
	25 °C	Total capacity	W	1430	1650	1900	1430	1730	2450	2460	2780	3100	2800	3240	3800
	50%	Sensible capacity	W	1200	1410	1600	1330	1500	2130	2090	2340	2620	2400	2830	3170
	23 °C	Total capacity	W	1150	1330	1530	1200	1390	1960	1920	2200	2460	2250	2600	3000
	50%	Sensible capacity	W	1060	1280	1440	1190	1360	1920	1830	2100	2350	2150	2500	2800
8 / 13 °C	27 °C	Total capacity	W	1510	1740	2000	1500	1800	2560	2600	2930	3250	2960	3470	4000
	47%	Sensible capacity	W	1310	1540	1720	1420	1615	2280	2250	2500	2800	2640	3100	3560
	25 °C	Total capacity	W	1280	1470	1700	1260	1530	2160	2190	2470	2750	2500	2900	3350
	50%	Sensible capacity	W	1120	1320	1510	1260	1430	2025	1980	2200	2480	2300	2680	3000
	23 °C	Total capacity	W	1045	1210	1400	1100	1260	1780	1770	1990	2220	2000	2300	2700
	50%	Sensible capacity	W	980	1190	1355	1100	1260	1775	1760	1950	2180	1950	2280	2600
10 / 15 °C	27 °C	Total capacity	W	1250	1440	1660	1300	1490	2100	2050	2320	2650	2370	2800	3300
	47%	Sensible capacity	W	1140	1350	1570	1300	1470	2080	2020	2290	2570	2340	2750	3160
	25 °C	Total capacity	W	1090	1240	1440	1080	1250	1775	1750	1980	2220	2000	2900	3350
	50%	Sensible capacity	W	970	1160	1370	1080	1230	1750	1740	1940	2180	2000	2330	2650
	23 °C	Total capacity	W	870	1010	1170	880	1020	1440	1420	1590	1780	1600	1880	2100
	50%	Sensible capacity	W	840	1000	1160	880	1020	1440	1420	1590	1780	1600	1880	2100

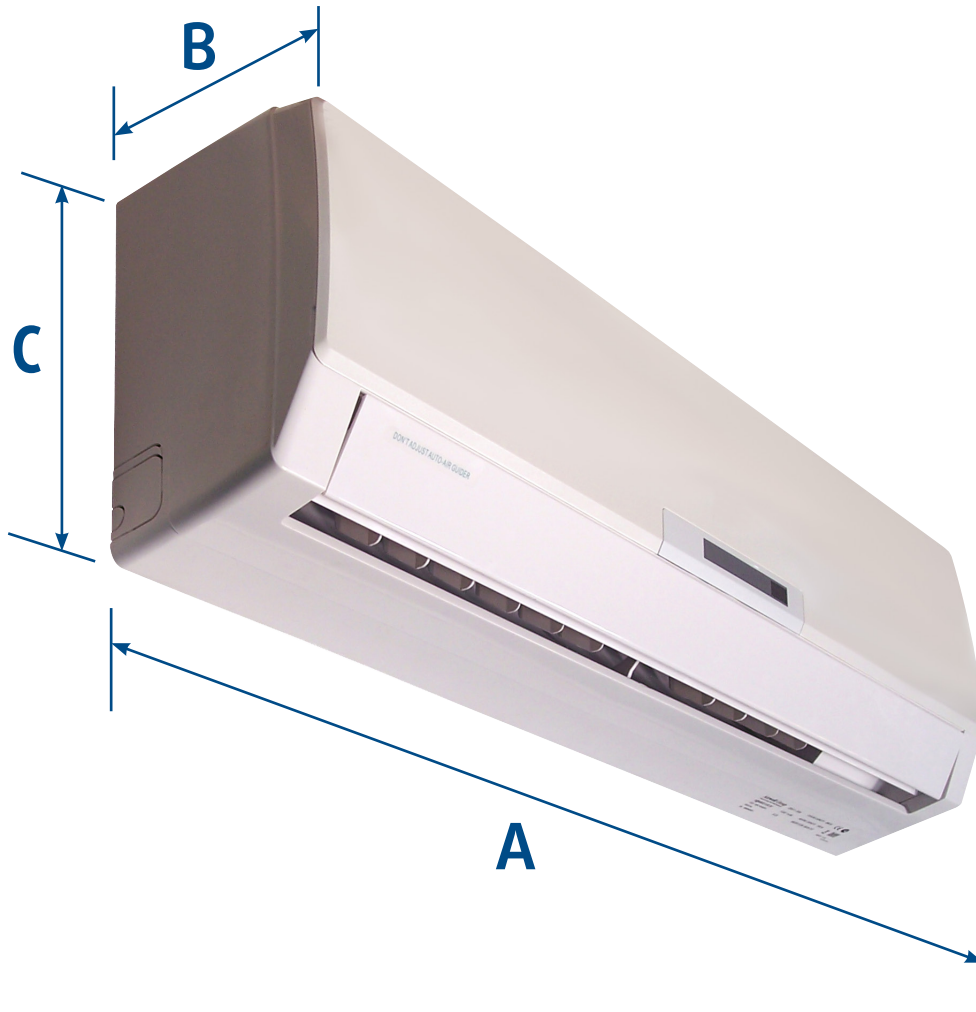
Heating Capacities

Hawair				HAW007			HAW009			HAW018			HAW022		
Water in/out	Entering air temperature			Air flow (m ³ /h)			Air flow (m ³ /h)			Air flow (m ³ /h)			Air flow (m ³ /h)		
				LS	MS	HS	LS	MS	HS	LS	MS	HS	LS	MS	HS
				252	288	306	243	369	459	450	522	581	531	612	729
40 °C	19 °C	Heating capacity	W	1090	1250	1450	1050	1200	1890	1950	2150	2450	2250	2550	3000
45 °C	19 °C	Heating capacity	W	1780	2030	2150	1840	2180	2710	2130	2980	3500	3350	3860	4710
50 °C	19 °C	Heating capacity	W	2000	2300	2900	2050	2350	3700	3800	4300	4800	4250	4900	5850

Pressure Drop Curves

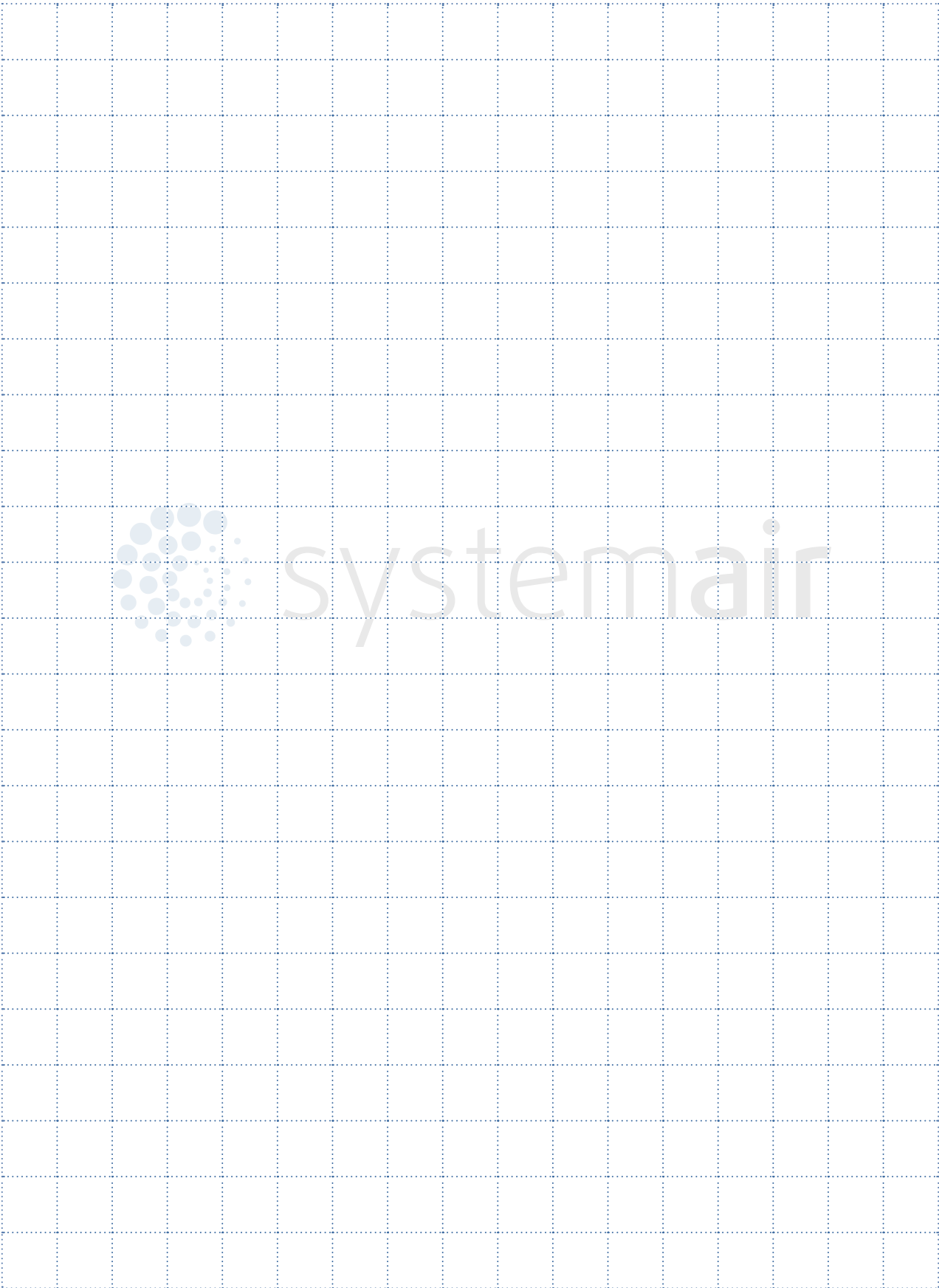


Dimensions and Weight

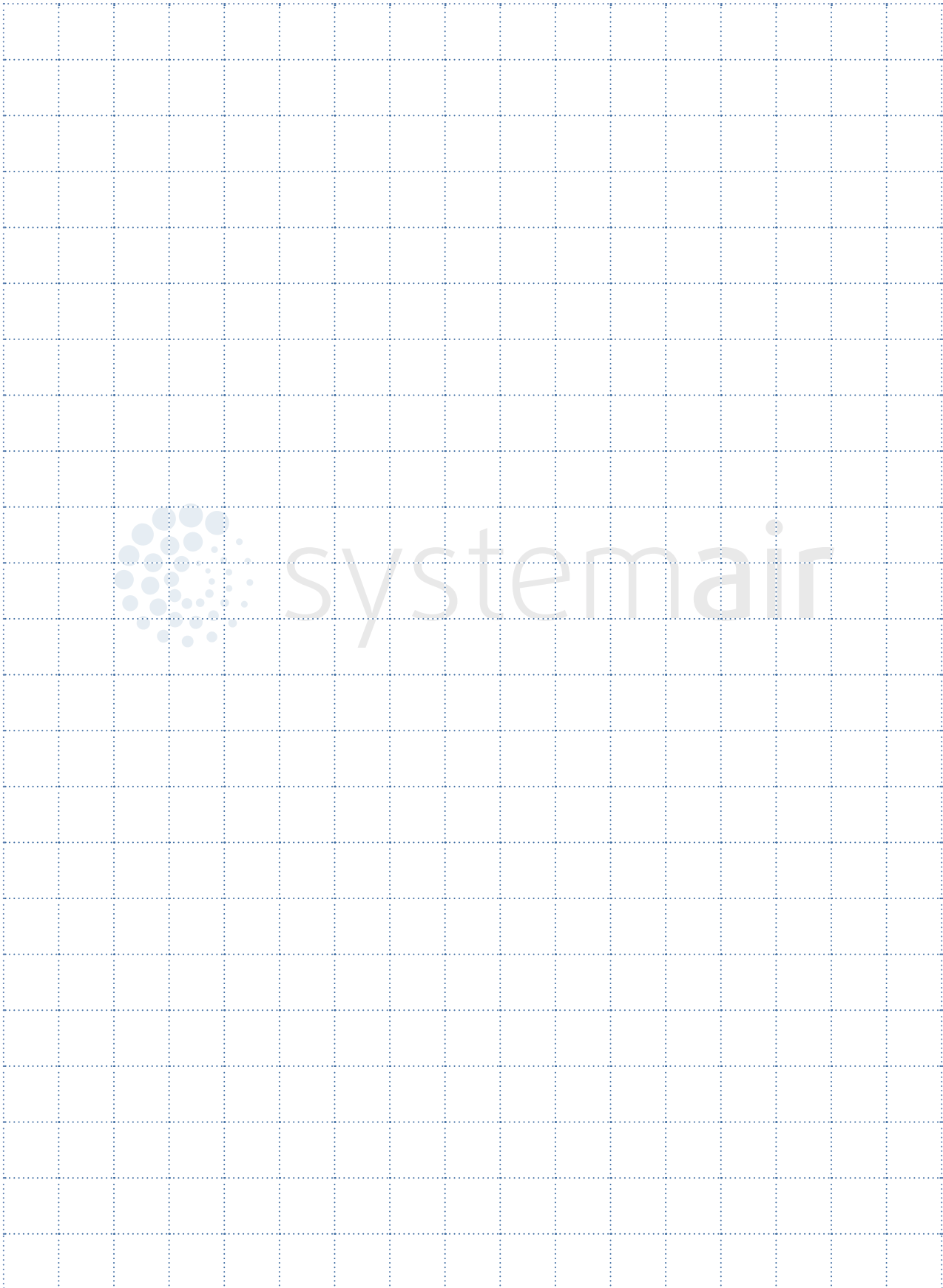


Hawair	HAW007	HAW009	HAW018	HAW022
A (mm)	845	845	940	940
B (mm)	180	180	200	200
C (mm)	275	275	298	298
Weight (kg)	11	11	13	13

Notes



Notes



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