MITSUBISHI ELECTRIC

AW-HT

Air Source Heat Pump - Designed for Heating Only

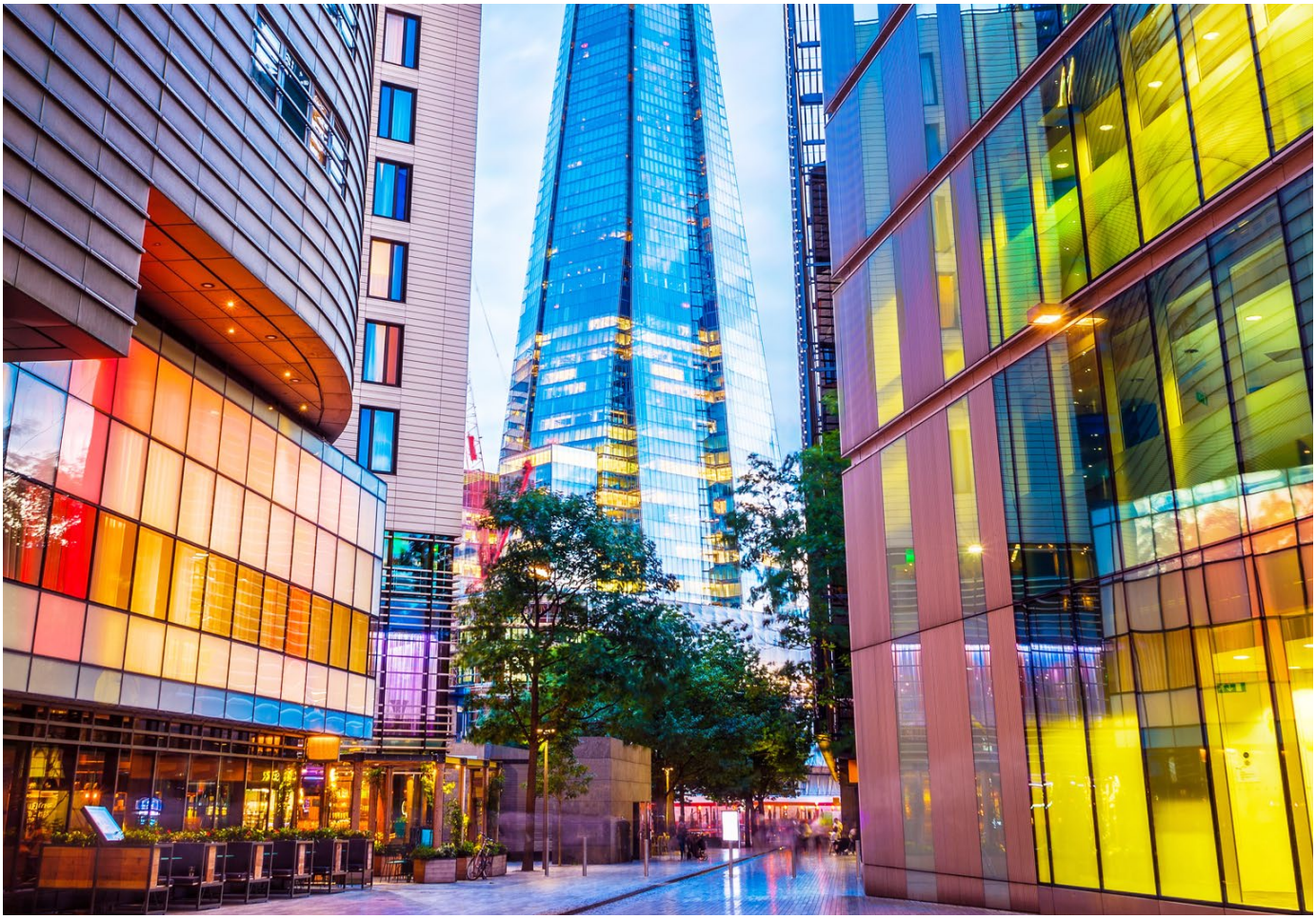
Designed for medium capacity commercial applications, the Climaveneta AW-HT heat pump system is the ideal solution for a wide range of applications requiring both LTHW and DHW.

CLIMAVENETA
SUSTAINABLE COMFORT

R407C

Key Features & Benefits:

- Maximum operating reliability
- Cascade control
- Scroll compressors



AW-HT Air Source Heat Pump
High Efficiency Version

R407C

CLIMAVENETA
SUSTAINABLE COMFORT

MODEL		122	152	202	262	302	404	524	604
Power Supply	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE									
Heating Capacity[*3]		38	51.3	68.8	84.9	102	135	171	205
Total Power Input (unit)[*3]		10.7	14.4	19.4	23.6	27.7	39.6	48.1	58.9
COP[*3]		3.6	3.6	3.6	3.6	3.7	3.4	4	3
HEATING ONLY (EN14825 VALUE - AVERAGE CLIMATE)									
Rated Heating Capacity at Tdesign,h[*11*12]	kW	28.4	33.8	47.5	58.5	70.6	92.6	117	139
Bivalent Temperature[*11*12]	°C	-6	-7	-7	-7	-7	-7	-7	-7
SCOP[*11*12]	kW/kW	3.12	3.07	3.14	3.2	3.3	3.15	3.32	3.22
Seasonal Space Heating Energy Efficiency[*11*12]	%	122	120	123	125	129	123	130	126
EXCHANGERS									
Heat Exchanger Water Flow[*3]	l/s	1.8	2.48	3.3	4.11	4.92	6.5	8.25	9.89
Heat Exchanger Pressure Drop[*3]	kPa	10.2	12.9	14.6	18.3	22.9	25.4	28.6	31.3
REFRIGERANT CIRCUIT									
Compressors	No.	2	2	2	2	2	4	4	4
Number of Circuits	No.	2	2	2	2	2	4	4	4
Type of Regulation		STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS
Minimum Capacity Steps	%	50	50	50	50	50	25	25	25
Type of Refrigerant		R407C	R407C	R407C	R407C	R407C	R407C	R407C	R407C
Refrigerant Charge	kg	18	26	30	33	40	66	108	108
Oil Charge	kg	3.8	8.0	8.0	8.2	8.2	16	16.4	16.4
FANS									
Number	No.	4	6	8	8	8	4	4	6
Air Flow	l/s	1.43	2.09	2.89	2.94	2.89	4.39	5	6.58
Single Power Input	kW	0.25	0.25	0.25	0.25	0.25	1.2	1.2	1.2
NOISE LEVEL									
Sound Power Level[*9]	dB(A)	84	86	87	87	87	92	93	94
Sound Pressure Level[*9]	dB(A)	-	-	-	-	-	73	73	74
DIMENSIONS AND WEIGHT									
L[*10]	mm	1695	2195	2745	2745	2745	3110	4110	4110
W[*10]	mm	1120	1120	1120	1120	1120	2220	2220	2220
H[*10]	mm	1420	1420	1420	1620	1620	2150	2150	2150
Operating Weight[*10]	kg	510	750	870	940	1030	1950	2400	2530

1. Plant (side) cooling exchanger water (in/out) 12.00°C/7.00°C; Source (side) heat exchanger air (in) 35.0°C.
2. Values in compliance with EN14511.
3. Plant (side) heat exchanger water (in/out) 40.00°C/45.00°C; Source (side) heat exchanger air (in) 7.0°C - 87% R.H.
4. Plant (side) cooling exchanger water (in/out) 12.00°C/7.00°C; Plant (side) heat exchanger water (in/out) 40.00°C/45.00°C.
5. Rated in accordance with AHRI Standard 550/590.
6. Average sound pressure level at 10m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
7. Parameter calculated according to [REGULATION (EU) N. 2016/2281].
8. Seasonal energy efficiency ratio.
9. Seasonal space cooling energy efficiency.
10. Sound power on the basis of measurements made in compliance with ISO 9614.
11. Sound power level in cooling, outdoors.
12. Sound power level in heating, outdoors.
13. Unit in standard configuration/execution, without optional accessories.

- Not available

AW-HT Air Source Heat Pump
Low Noise & High Efficiency Version

R407C

CLIMAVENETA
SUSTAINABLE COMFORT

MODEL		122	152	202	262	302	404	524	604
Power Supply	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE									
Heating Capacity[*3]		38.4	51	69.4	85.8	100	135	171	205
Total Power Input (unit)[*3]		10.7	14.3	19.4	23.7	27.6	39.6	48.1	58.9
COP[*3]		3.59	3.57	3.58	3.62	3.63	3.4	4	3
HEATING ONLY (EN14825 VALUE - AVERAGE CLIMATE)									
Rated Heating Capacity at Tdesign,h[*11*12]	kW	28.7	34.4	47.8	59.3	70.3	92.6	117	139
Bivalent Temperature[*11*12]	°C	-6	-7	-7	-7	-7	-7	-7	-7
SCOP[*11*12]	kW/kW	3.15	3.07	3.17	3.2	3.3	3.15	3.32	3.22
Seasonal Space Heating Energy Efficiency[*11*12]	%	123	120	124	126	129	123	130	126
EXCHANGERS									
Heat Exchanger Water Flow[*3]	l/s	1.85	2.46	3.36	4.14	4.83	6.5	8.25	9.89
Heat Exchanger Pressure Drop[*3]	kPa	10.5	12.7	14.8	18.7	22.2	25.40	28.60	31.30
REFRIGERANT CIRCUIT									
Compressors	No.	2	2	2	2	2	4	4	4
Number of Circuits	No.	2	2	2	2	2	4	4	4
Type of Regulation		STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS
Minimum Capacity Steps	%	50	50	50	50	50	25	25	25
Type of Refrigerant		R407C	R407C	R407C	R407C	R407C	R407C	R407C	R407C
Refrigerant Charge	kg	18	26	30	33	40	66	108	108
Oil Charge	kg	3.8	8	8.0	8.2	8.2	16	16.4	16.4
FANS									
Number	No.	4	6	8	8	8	4	4	6
Air Flow	l/s	1.2	1.7	2.34	2.41	2.41	4.4	5	7
Single Power Input	kW	0.25	0.25	0.25	0.25	0.25	1.2	1.2	1.2
NOISE LEVEL									
Sound Power Level[*9]	dB(A)	80	82	83	83	84	86	86	87
Sound Pressure Level[*9]	dB(A)	-	-	-	-	-	67	66	67
DIMENSIONS AND WEIGHT									
L[*10]	mm	1695	2195	2745	2745	2745	3110	4110	4110
W[*10]	mm	1120	1120	1120	1120	1120	2220	2220	2220
H[*10]	mm	1420	1420	1420	1620	1620	2150	2150	2150
Operating Weight[*10]	kg	530	760	910	980	1030	1960	2410	2540

1. Plant (side) cooling exchanger water (in/out) 12.00°C/7.00°C; Source (side) heat exchanger air (in) 35.0°C.
2. Values in compliance with EN14511.
3. Plant (side) heat exchanger water (in/out) 40.00°C/45.00°C; Source (side) heat exchanger air (in) 7.0°C - 87% R.H.
4. Plant (side) cooling exchanger water (in/out) 12.00°C/7.00°C; Plant (side) heat exchanger water (in/out) 40.00°C/45.00°C.
5. Rated in accordance with AHRI Standard 550/590.
6. Average sound pressure level at 10m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
7. Parameter calculated according to [REGULATION (EU) N. 2016/2281].
8. Seasonal energy efficiency ratio.
9. Seasonal space cooling energy efficiency.
10. Sound power on the basis of measurements made in compliance with ISO 9614.
11. Sound power level in cooling, outdoors.
12. Sound power level in heating, outdoors.
13. Unit in standard configuration/execution, without optional accessories.

- Not available

MITSUBISHI ELECTRIC
Changes for the Better

Telephone: **01707 282880**
email: **air.conditioning@meuk.mee.com**
les.mitsubishielectric.co.uk

@meuk_les
@green_gateway

Mitsubishi Electric Living Environmental Systems UK

Mitsubishi Electric Cooling and Heating UK

mitsubishielectricuk_les

Mitsubishi Electric Living Environmental Systems UK

BLOG thehub.mitsubishielectric.co.uk

UNITED KINGDOM Mitsubishi Electric Europe Living Environment Systems Division, Travellers Lane, Hatfield, Hertfordshire, AL10 8XB, England. Telephone: 01707 282880 Fax: 01707 278881
IRELAND Mitsubishi Electric Europe, Westgate Business Park, Ballymount, Dublin 24, Ireland. Telephone: (01) 419 8800 Fax: (01) 419 8890 International code: (003531)

Note: The fuse rating is for guidance only. Please refer to the relevant databook for detailed specification. It is the responsibility of a qualified electrician/electrical engineer to select the correct cable size and fuse rating based on current regulation and site specific conditions. Mitsubishi Electric's air conditioning equipment and heat pump systems contain a fluorinated greenhouse gas, R410A (GWP:2088), R32 (GWP:675), R407C (GWP:1774), R134a (GWP:1430), R513A (GWP:631), R454B (GWP:466), R1234ze (GWP:7) or R1234yf (GWP:4). *These GWP values are based on Regulation (EU) No 517/2014 from IPCC 4th edition. In case of Regulation (EU) No.626/2011 from IPCC 3rd edition, these are as follows. R410A (GWP:1975), R32 (GWP:550), R407C (GWP:1650) or R134a (GWP:1300).

Effective as of June 2021

Green Gateway greengateway.mitsubishielectric.co.uk