

YWH

Super-high temperature water to water scroll heat pumps

Heating capacities from 37.6 kW to 301.2 kW



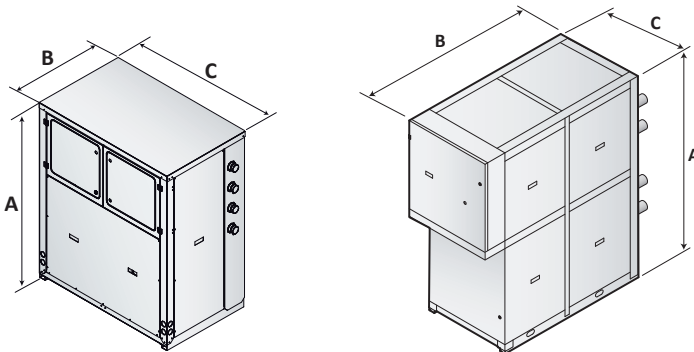
NEW



Features

YWH heat pumps are designed with braze welded stainless steel AISI 316 heat exchangers and are particularly suitable for applications that use source energy at medium or high temperatures.

These units have been designed to produce water at high or very high temperature for applications where it is necessary to have maximum efficiency in heating. The units are available in heating only mode and can produce water up to 78°C (HT version).



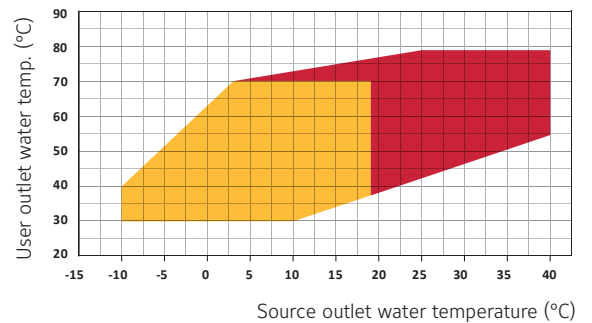
Mod.	A (mm)	B (mm)	C (mm)	Kg
302	1600	800	1150	660
402	1600	800	1150	680
602	1600	800	1150	700
702	1600	800	1150	730
902	1600	800	1150	740
1202	1600	800	1150	760
1402	1600	800	1150	790

Mod.	A (mm)	B (mm)	C (mm)	Kg
1804	1900	3120	800	1320
2304	1900	3120	800	1390
2604	1900	3120	800	1430

Options

- HT** High source water temperature up to 40°C, water temperature production up to 78°C.
- LT** Medium source water temperature up to 20°C, water temperature production up to 70°C.
- XL** Floating frame and super low noise version, up to 12 dBA attenuation
- HK** Hydraulic kit, single or dual pump, for mod. 1804, 2304, 2604 only

Operation limits



- Heating
- Heating with HT version

Super-high temperature water to water scroll heat pumps

YWH 302 to 2604



Nominal capacity

YWH LT/XL		302	402	602	702	902	1202	1402	1804	2304	2604
Heating capacity (EN14511) (1)	kW	38.8	46.0	58.4	70.3	88.4	109.9	136.5	176.9	219.5	273.2
Input power (EN14511) (1)	kW	8.2	9.4	11.8	14.8	18.8	23.1	27.9	37.2	45.7	55.3
COP (EN14511) (1)	W/W	4.73	4.85	4.93	4.76	4.70	4.75	4.88	4.75	4.80	4.94
Energy Class in low temperature (2)		A++	A++	A++	A++	A++	A++	A++	A++	A++	A++
SCOP low temperature (2)	kWh/kWh	4.85	5.00	5.16	5.00	5.08	5.17	5.36	5.29	5.38	5.56
$\eta_{s,h}$ low temperature (2)	%	185.9	192.1	198.2	191.8	195.3	198.9	206.3	203.4	207.0	214.4
Energy Class in medium temperature (2)		A++	A++	A++	A++	A++	A++	A++	A++	A++	A++
SCOP medium temperature (2)	kWh/kWh	4.07	4.19	4.28	4.18	4.16	4.22	4.35	4.27	4.34	4.47
$\eta_{s,h}$ medium temperature (2)	%	154.8	159.6	163.0	159.0	158.3	160.9	165.9	162.8	165.6	170.7
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	400/3/50	400/3/50
Maximum input current	A	128.7	137.6	168.0	209.0	266.0	324.0	372.5	348.0	428.0	497.5
Peak current	A	35.4	39.2	56.0	70.0	82.0	104.0	125.0	164.0	208.0	250.0
Compressors / Circuits	n°/n°	2-1	2-1	2-1	2-1	2-1	2-1	2-1	4-2	4-2	4-2
Capacity steps	n°	2	2	2	2	2	2	2	4	4	4
Refrigerant		R134a	R134a	R134a	R134a	R134a	R134a	R134a	R134a	R134a	R134a
Global warming potential (GWP)		1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
Refrigerant charge	Kg	2	2	3	3	4	5	6	8.5	10.5	13
Equivalent CO2 charge	t	2.9	2.9	4.3	4.3	5.7	7.2	8.6	12.2	15.0	18.6
Sound power LS version (3)	dB(A)	--	--	--	--	--	--	--	88	89	91
Sound pressure LS version (4)	dB(A)	--	--	--	--	--	--	--	72	73	75
Sound power XL version (3)	dB(A)	65	65	70	73	74	76	78	--	--	--
Sound pressure XL version (4)	dB(A)	49	49	54	57	58	60	62	--	--	--

(1) Heating: user water temperature 30/35°C, source water temperature 10/7°C.

(2) Ratings in accordance with Ecodesign regulation 813/2013, average climatic profile and variable water outlet temperature.

(3) Sound power level in accordance with ISO 3744.

(4) Sound pressure level at 1 m from the unit in free field conditions in accordance with ISO 3744.

Nominal capacity

YWH HT/XL		302	402	602	702	902	1202	1402	1804	2304	2604
Heating capacity (EN14511) (1)	kW	37.6	43.6	64.1	75.1	97.8	121.7	150.5	195.6	243.9	301.2
Input power (EN14511) (1)	kW	6.7	7.5	11.1	13.7	17.6	21.7	26.2	35.0	43.1	52.2
COP (EN14511) (1)	W/W	5.65	5.83	5.79	5.48	5.56	5.62	5.74	5.59	5.65	5.77
Energy Class in low temperature (2)		A++	A++	A++	A++	A++	A++	A++	A++	A++	A++
SCOP low temperature (2)	kWh/kWh	5.71	5.83	5.91	5.81	5.85	5.94	6.09	5.95	6.01	6.20
$\eta_{s,h}$ low temperature (2)	%	220.2	225.3	228.2	224.5	226.0	229.4	235.6	230.0	232.4	239.9
Energy Class in medium temperature (2)		A++	A++	A++	A++	A++	A++	A++	A++	A++	A++
SCOP medium temperature (2)	kWh/kWh	4.62	4.73	4.78	4.76	4.67	4.74	4.85	4.73	4.79	4.91
$\eta_{s,h}$ medium temperature (2)	%	176.9	181.1	183.2	182.2	178.7	181.5	186.1	181.0	183.6	188.3
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	400/3/50	400/3/50
Maximum input current	A	111.4	128.7	167.1	208.3	267.9	324.8	372.9	353.7	430.4	498.7
Peak current	A	32.8	35.4	54.2	68.6	85.8	105.6	125.8	171.6	211.2	251.6
Compressors / Circuits	n°/n°	2-1	2-1	2-1	2-1	2-1	2-1	2-1	4-2	4-2	4-2
Capacity steps	n°	2	2	2	2	2	2	2	4	4	4
Refrigerant		R134a	R134a	R134a	R134a	R134a	R134a	R134a	R134a	R134a	R134a
Global warming potential (GWP)		1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
Refrigerant charge	Kg	4	4	5	6	8	10	10	21	26	33
Equivalent CO2 charge	t	5.7	5.7	7.2	8.6	11.4	14.3	14.3	30.0	37.2	47.2
Sound power LS version (3)	dB(A)	--	--	--	--	--	--	--	88	89	91
Sound pressure LS version (4)	dB(A)	--	--	--	--	--	--	--	72	73	75
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Manufacturer reserves the rights to change specifications without prior notice.