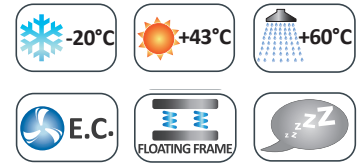


YHA

High efficiency air to water heat pumps (4 pipes)

Cooling capacities from 18.1 kW to 416 kW
 Heating capacities from 22.2 kW to 463.7 kW



Features

The **YHA** series of high efficiency heat pumps has been specifically designed for use with radiant floor heating systems or those applications where it is necessary to have maximum efficiency when heating.

They have been optimized on heating mode, are able to produce water up to 60°C and can operate down to -20°C ambient temperature.

All versions are supplied with reverse cycle valve (**RV**) used for winter defrost. The **RV** versions are also able to produce cold water.

The noise is extremely low thanks to the use of a special floating vibration damping system which allows a noise reduction of about 10-12 dB(A) (Optional).

Available versions

- SA** Standard efficiency AC fans
- SE** Standard efficiency EC fans
- HA** High efficiency AC fans
- HE** High efficiency EC fans
- RV** Reversible heating/cooling
- LS** Low noise
- XL** Super low noise
- P4U** 4 pipe systems heating/cooling
- P4S** 2+2 pipe systems with domestic hot water production

High efficiency air to water heat pumps (4 pipes)

YHA 242 to 5004



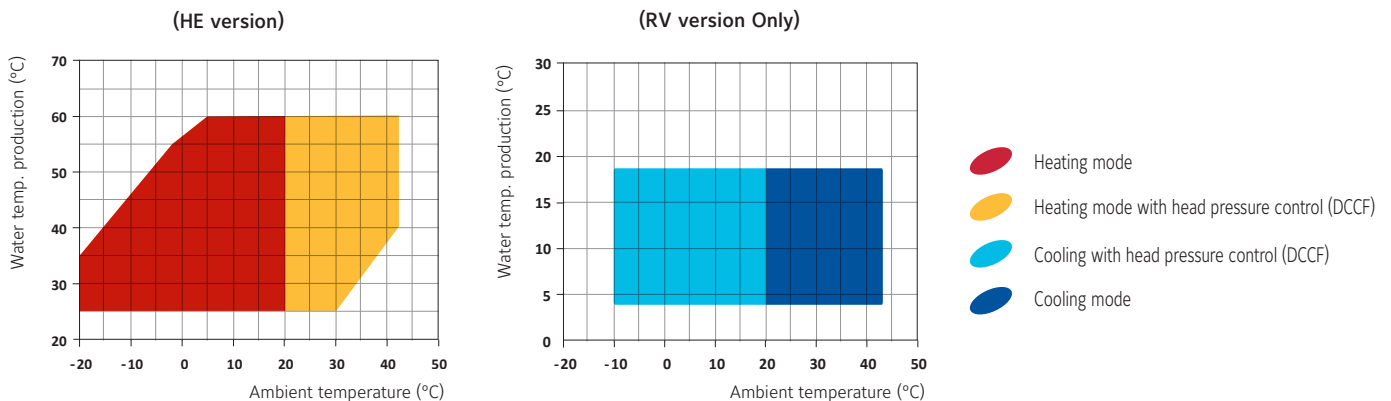
Nominal capacity

YHA HE/LS/RV - P4S version		242	292	412	432	492	602	702	802	902	1002	1202	1402
Heating capacity (EN14511) (1)	kW	22.2	29.6	37.3	47.1	50.8	61.2	67.3	74.9	93.2	104.9	114.9	137.1
Total input power (EN14511) (1)	kW	5.3	7.1	8.8	11.5	11.8	13.3	15.1	17.2	21.2	24.5	27.8	30.9
COP (EN14511) (1)		4.11	4.16	4.23	4.11	4.32	4.61	4.46	4.36	4.40	4.29	4.13	4.44
Energy Class (2)		A++	A++	A++	A++	A++	A++	A++	A++	A++	A++	A++	A++
SCOP (2)		3.83	3.86	3.85	3.85	3.92	4.13	4.04	3.97	3.87	3.85	3.83	3.85
η _{s,h} (2)		150.1	151.4	150.9	151.1	153.6	162.0	158.4	155.8	151.7	150.8	150.2	151.0
Cooling capacity (EN14511) (3)	kW	18.1	25.4	30.5	40.6	44.2	52.4	57.5	65.4	80.5	90.2	100.5	117.4
Total input power (EN14511) (3)	kW	6.9	8.4	11.0	14.5	16.1	18.3	21.3	22.8	26.6	31.2	35.1	38.6
EER (EN14511) (3)		2.62	3.02	2.78	2.81	2.74	2.87	2.70	2.87	3.03	2.89	2.86	3.04
TER (EN14511) (3)		9.05	9.63	9.56	9.54	10.41	10.48	10.42	10.50	9.84	9.63	9.46	9.91
Sound power (4)	dB (A)	78	79	79	80	79	80	81	82	86	87	88	89
Sound pressure (5)	dB (A)	46	47	47	48	47	48	49	50	54	55	56	57
Power supply	V/Ph/Hz	400/3/50											
Compressors / Circuits	n° / n°	2 / 1											
Fans	n°	1	1	2	2	2	2	2	2	2	2	2	3
Dimensions	Height	mm	1500	1500	1690	1690	1690	1880	1880	1880	1880	1880	1880
	Length	mm	1915	1915	2400	2400	2400	2905	2905	2905	2905	2905	2905
	Width	mm	875	875	1150	1150	1150	1150	1150	1150	1150	1150	1150
Weight	kg	560	560	670	690	720	1060	1060	1070	1120	1160	1240	1560

YHA HE/LS/RV - P4S version		1602	1802	2002	2302	2502	2504	3004	3204	3504	4004	4504	5004
Heating capacity (EN14511) (1)	kW	151.0	167.9	182.8	210.6	241.3	229.4	271.4	296.7	339.0	364.9	399.1	463.7
Total input power (EN14511) (1)	kW	34.4	40.2	45.5	49.4	54.8	55.8	63.9	71.5	83.7	88.8	102.1	115.1
COP (EN14511) (1)		4.39	4.18	4.02	4.26	4.40	4.11	4.25	4.15	4.05	4.11	3.91	4.03
Energy Class (2)		A++	A++	A++	A++	A++	A++	A++	A++	A++	A++	A++	A++
SCOP (2)		3.86	3.85	3.84	3.92	3.97	3.83	3.85	3.83	3.91	3.89	3.87	3.86
η _{s,h} (2)		151.3	150.9	150.4	153.6	155.6	150.2	151.1	150.3	153.5	152.4	151.9	151.5
Cooling capacity (EN14511) (3)	kW	129.5	146.8	159.2	180.4	202.1	198.5	231.0	259.7	289.4	322.6	368.5	416.0
Total input power (EN14511) (3)	kW	44.0	50.8	58.7	66.1	73.2	72.7	80.5	89.2	105.2	118.2	135.0	154.6
EER (EN14511) (3)		2.94	2.89	2.71	2.73	2.76	2.73	2.87	2.91	2.75	2.73	2.73	2.69
TER (EN14511) (3)		9.87	9.99	9.90	9.79	9.74	9.27	9.18	9.60	9.68	9.71	9.62	9.50
Sound power (4)	dB (A)	89	90	90	92	92	91	91	92	92	93	95	94
Sound pressure (5)	dB (A)	57	58	58	60	60	59	59	60	60	61	63	62
Power supply	V/Ph/Hz	400/3/50											
Compressors / Circuits	n° / n°	2 / 1											
Fans	n°	3	3	3	3	3	4	6	6	6	6	8	8
Dimensions	Height	mm	1880	1880	1880	2280	2280	2350	2350	2350	2380	2380	2380
	Length	mm	3965	3965	3965	3905	3905	4205	4205	4205	4205	4805	5250
	Width	mm	1150	1150	1150	1150	1150	1150	2210	2210	2210	2210	2210
Weight	kg	1580	1600	1620	1790	1820	3170	3220	3270	3320	3660	3720	3780

- (1) Heating: Ambient temperature 7°C DB, 6°C WB, water temperature 30/35°C.
 - (2) Average conditions, low temperature, variable - Reg EU 811/2013
 - (3) Cooling: ambient air temperature 35°C, evaporator water temperature in/out 12/7 °C.
 - (4) Sound power level in accordance with ISO 3744.
 - (5) Sound pressure level at 10 m from the unit in free field conditions in accordance with ISO 3744.
- For information about other YHA versions, contact your JCI representative.

Operating limits



Manufacturer reserves the rights to change specifications without prior notice.