



Content

4 HEAT PUMPS

6 MONOBLOCK HEAT PUMPS

10 SPLIT TYPE HEAT PUMPS

Heat pumps

Heat pumps are devices with very high efficiency, which draw energy from the environment. The energy pumped by the heat pump is provided by nature almost free of charge. 1 kW of electricity it provides 3 to 5 kW of heat energy.

The heat pump is independent from fossil fuels and helps reduce CO2, and save the natural environment. Heat pumps can heat, cool and prepare hot sanitary water which makes them universal. There is no need to build a chimney, and for installation you only need 1 m².

Our heat pumps are available in monoblock (from 10 kW to 32 kW) and split versions (from 10 kW to 19 kW).

It is recommended to connect to low-temperature heating systems (floor, ceiling, wall) because it is the most efficient system.

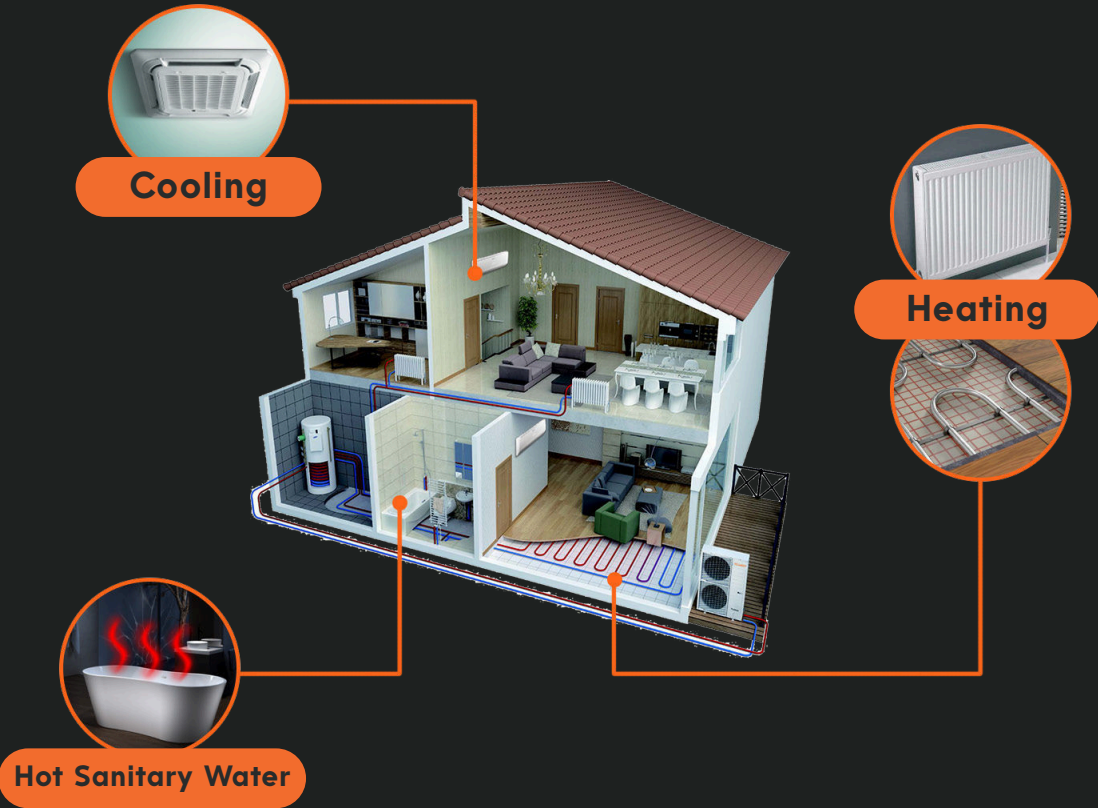
Using

Mission

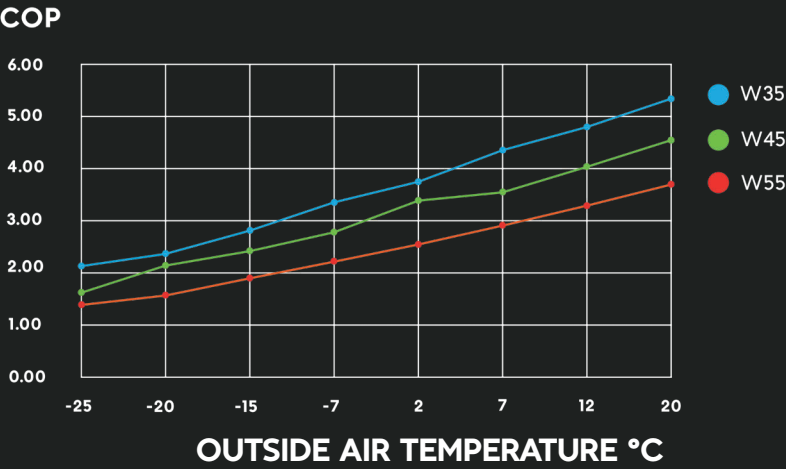
Equip every home with energy efficient products.

Vision

Offer the customer a product that harmonizes environmental protection, reduces consumption and maximizes energy.



Efficiency



Outside air temperature	COP		
-25	2.11	1.71	1.56
-20	2.48	2.13	1.77
-15	2.92	2.48	1.97
-7	3.44	2.82	2.24
2	3.74	3.32	2.49
7	4.45	3.60	2.96
12	4.85	4.00	3.28
20	5.43	4.60	3.77
Flow temperature °C	35	45	55

DC Inverter

Heat Pump - Monoblock

Compact design

Quick and easy installation in one day. It can be installed on the floor, wall or roof. Nice look and quality production. Great value for money.

Models

Monoblock heat pumps come in eight different powers from 9.6 kW to 32 kW and the power supply can be single-phase or three-phase.

Quiet operation

With Panasonic rotary compressor and DC inverter brushless fans, our DC inverter heat pumps adopt new noise reduction measures so that the sound of the unit is controlled at a satisfactory level. ThermoFLUX Inverter Heat Pump Series can realize low noise running of 59dB(A) when testing at sound power, equivalent to 45dB when testing at 1 meter.

Smart Control

The intelligent CAREL controller with RS485 is adopted to realize the linkage control between the heat pump unit and the terminal application end. With the Cascade function, multiple heat pumps can be controlled at once for greater operating efficiency.

Intelligent Defrosting

ThermoFLUX DC inverter heat pump series adopt the intelligent defrosting technology to make optimal decisions on whether it is time to defrost or not. In this way, the unit is able to minimize energy consumption and improve customer satisfaction.

WI-FI Smart upravljanje

The WIFI APP enables users to operate their units through a smart phone wherever and whenever they are.

-20°C

**Max.
COP 5.60**

R410A

A+++



		TF10DC 230	TF13DC 230V	TF17DC 230	TF17DC 380	TF19DC 230	TF19DC 380	TF26DC 380	TF32DC 380
Power Supply	V/Hz/Ph	220-240/50/1	220-240/50/1	220-240/50/1	380-420/50/3	220-240/50/1	380-420/50/3	380-420/50/3	380-420/50/3
Refrigerant		R 410 A							
Max. Heating Capacity	kW	9.5	12.5	16.5	16.6	18.5	18.6	26	32
COP		4.45	4.45	4.48	4.52	4.39	4.42	4.52	4.42
Heating Capacity min./max.	kW	4,37 / 9,5	5,75 / 12,5	7,59 / 16,5	7,636 / 16,6	8,51 / 18,5	8,556 / 18,6	11,96 / 26	14,72 / 32,00
Heating Power Input min./max.	W	786 / 2135	1034 / 2809	1355 / 3683	1352 / 3673	1551 / 4214	1549 / 4208	2117 / 5752	2664 / 7240
COP min./max.		4,45 / 5,56	4,45 / 5,56	4,48 / 5,6	4,52 / 5,65	4,39 / 5,49	4,42 / 5,53	4,52 / 5,65	4,42 / 5,53
Max. Heating Capacity	kW	8.9	11.8	15.5	15.6	17.4	17.5	24.4	30.1
COP (2)		3.6	3.6	3.58	3.62	3.4	3.43	3.62	3.43
Heating Capacity min./max.	kW	4,11 / 8,93	5,41 / 11,75	7,13 / 15,51	7,18 / 15,6	8,00 / 17,39	8,04 / 17,48	11,24 / 24,44	13,84 / 30,08
Heating Power Input min./max.	W	972 / 2508	1279 / 3301	1676 / 4328	1672 / 4315	1918 / 4952	1915 / 4945	2618 / 6759	3295 / 8507
COP min./max.		3,56 / 4,23	3,56 / 4,23	3,58 / 4,28	3,62 / 4,29	3,51 / 4,17	3,54 / 4,2	3,62 / 4,29	3,54 / 4,20
Max. Heating Capacity	kW	8.5	11.2	14.7	14.8	16.5	16.6	23.2	28.6
EER		3.5	3.5	3.48	3.51	3.3	3.32	3.51	3.32
Cooling Capacity min./max.	kW	3,9 / 8,48	5,13 / 11,16	6,78 / 14,73	6,82 / 14,82	7,60 / 16,52	7,64 / 16,61	10,68 / 23,22	13,14 / 28,58
Cooling Power Input min./max.	W	942 / 2871	1239 / 3778	1625 / 4953	1620 / 4939	1859 / 5667	1875 / 5659	2538 / 7736	3194 / 9737
EER min./max.		2,95 / 4,14	2,95 / 4,14	2,97 / 4,17	3,00 / 4,21	2,91 / 4,09	2,93 / 4,12	3,00 / 4,21	2,93 / 4,12
Max. Heating Capacity	kW	6.7	8.8	11.6	11.7	13	13.1	18.3	22.6
EER		2.62	2.62	2.61	2.63	2.48	2.49	2.63	2.49
Cooling Capacity min./max.	kW	3,08 / 6,7	4,05 / 8,81	5,35 / 11,63	5,38 / 11,7	6,00 / 13,04	6,03 / 13,11	8,43 / 18,33	10,38 / 22,56
Cooling Power Input min./max.	W	845 / 2667	1112 / 3509	1458 / 4601	1454 / 4587	1668 / 5264	1666 / 5256	2277 / 7185	2866 / 9043
EER min./max.		2,51 / 3,65	2,51 / 3,65	2,53 / 3,67	2,55 / 3,7	2,48 / 3,60	2,49 / 3,62	2,55 / 3,70	2,49 / 3,62
Rated Current	A	10.2	13.4	17.6	7.8	20.2	8.9	12.1	15.3
Max. Current	A	14.81	19.49	25.55	11.24	29.24	12.88	17.6	22.15
Type Compressor - Quantity		Twin Rotary -1							
Fan - Quantity		1	1	2	2	2	2	2	1
Fan - Airflow	m3/h	3000	3500	5000	5000	5500	5500	7500	10,000
Fan - Rated Power	W	100	110	200	200	210	210	250	500
Water Side Heat Exchanger - Type		Pločasti izmjenjivač toplote							
Water Side Heat Exchanger - Water Pressure Drop	kPa	20	22	23	23	25	25	23	25
Water Side Heat Exchanger - Piping Connection	Inch	G1"	G1"	G1"	G1"	G1"	G1"	G1"	G5/4"
Allowed Water Flow	lit/sec	0,25 / 0,45 / 0,76	0,37 / 0,60 / 1,00	0,49 / 0,79 / 1,31	0,5 / 0,79 / 1,32	0,55 / 0,88 / 1,47	0,56 / 0,89 / 1,48	0,78 / 1,24 / 2,07	0,96 / 1,53 / 2,55
Noise Level	dB(A)	59	59	62	62	63	63	62	63
Net Dimension (LxDxH)	mm	1110*475*810	1110*475*910	1110*475*1355	1110*475*1355	1110*475*1355	1110*475*1355	1237*480*1410	1000*1000*1855
Packing Dimension(LxDxH)	mm	1220*540*970	1220*540*1070	1220*540*1400	1220*540*1400	1220*540*1400	1220*540*1400	1300*540*1580	1220*1220*2100
Net Weight	kg	88	98	124	124	124	124	200	300
Gross Weight	kg	116	126	161	161	161	161	220	320

Note:

- (1)Heating condition: water inlet/outlet temperature: 30°C/35°C, Ambient temperature: DB 7°C/WB 6°C
- (2)Heating condition: water inlet/outlet temperature: 40°C/45°C, Ambient temperature: DB 7°C/WB 6°C
- (3)Cooling condition: water inlet/outlet temperature: 23°C/18°C, Ambient temperature: DB35°C/WB24°C;
- (4)Cooling condition: water inlet/outlet temperature: 12°C/7°C, Ambient temperature: DB35°C/WB24°C;

DC Inverter heat pump - technologies

