



# ThermoFLUX

**Heat pumps**  
Air - Water

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## 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 CO<sub>2</sub>, 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 m<sup>2</sup>.

**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.

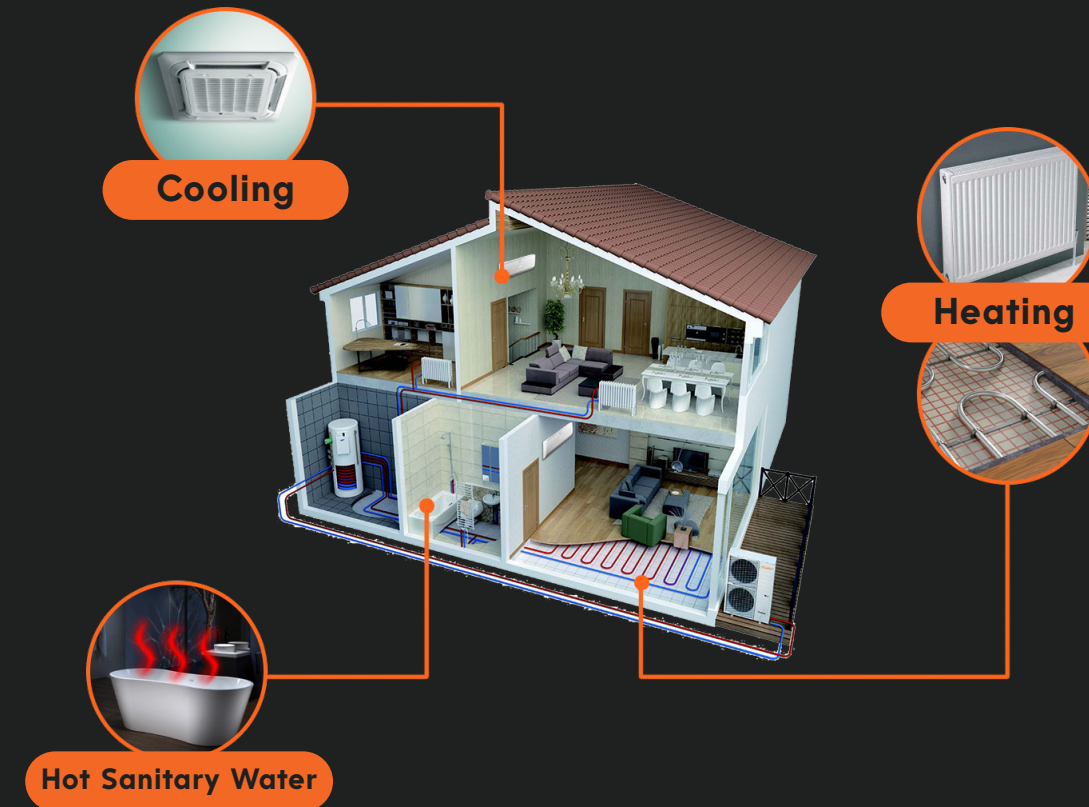
## Using

### Mission

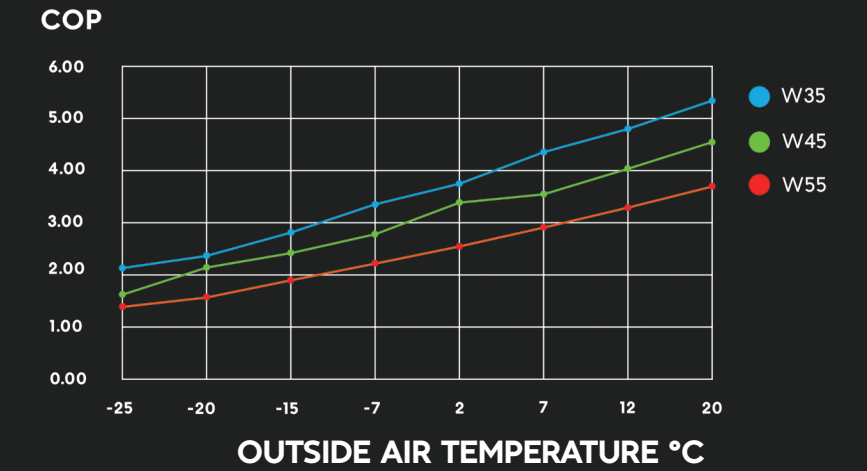
Equip every home with energy efficient products.

### Vision

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



## Efficiency



Outside air temperature	COP		
	W35	W45	W55
-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+++**

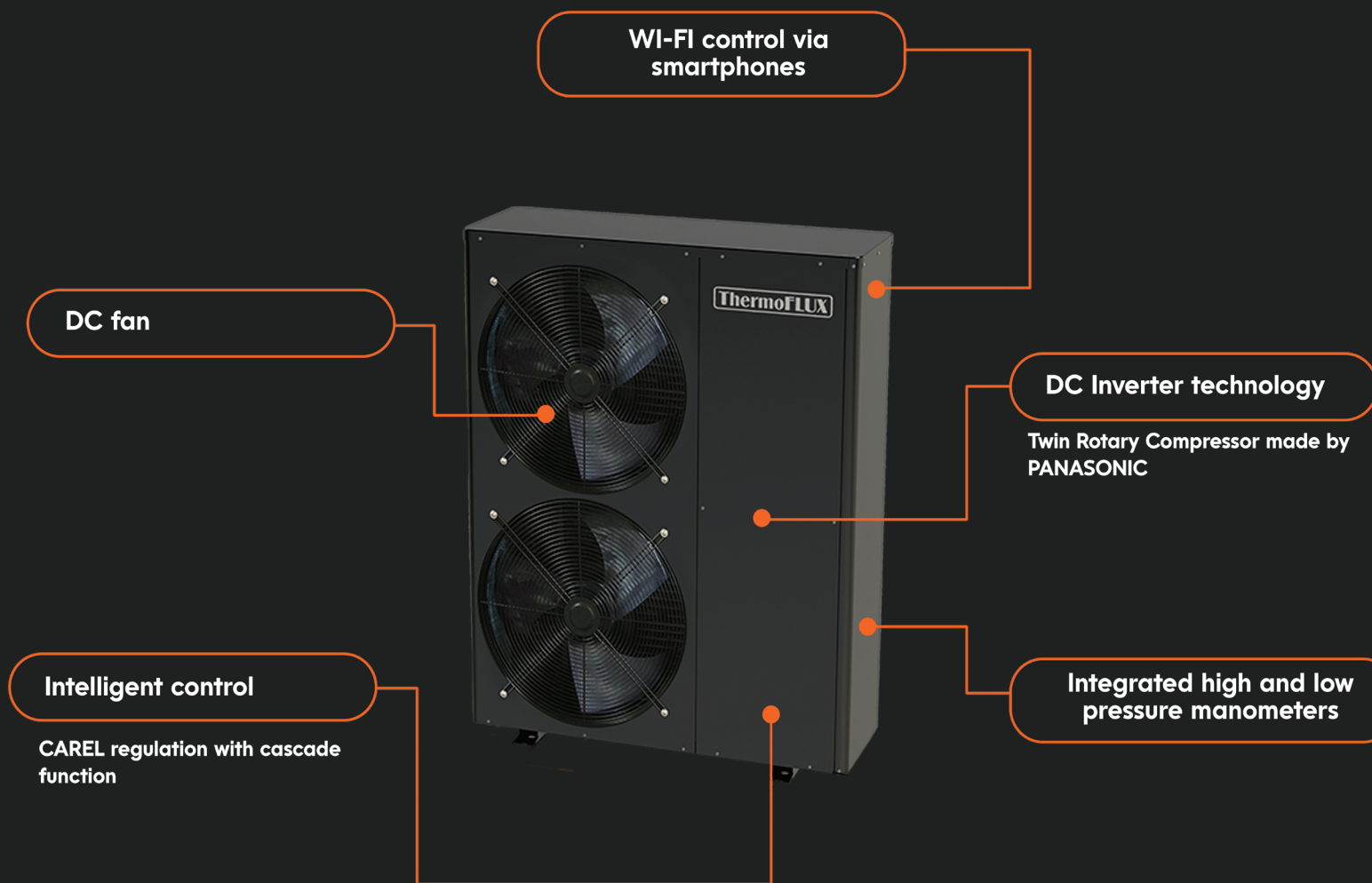


		TF10DC 230	TF13DC 230V	TF17DC 230	TF17DC 380	TF19DC 230	TF19DC 380	TF26DC 380	TF32DC 380
Power Supply	V/Hz/Ph	220-240/50/1	220-240/50/1	220-240/50/1	380-420/50/3	220-240/50/1	380-420/50/3	380-420/50/3	380-420/50/3
Refrigerant		R 410 A							
Max. Heating Capacity	kW	9.5	12.5	16.5	16.6	18.5	18.6	26	32
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



# EVI DC INVERTER

## Heat pump - Split system

### Split system

The heat pump consists of outdoor and indoor units. The indoor unit is equipped with a circulation pump, electric heater and expansion vessel.

### Working temperature from -25 ° C to 45 ° C

Twin rotary compressor by PANASONIC with improved flash injection technology (EVI), works stably at temperatures down to -25 ° C.

### Increased heating efficiency

To save energy, it automatically switches to a lower frequency mode when the temperature reaches the set value

### Super Low Noise

Thanks to DC Inverter "brushless" fans, our heat pumps operate with very low noise levels.

### Intelligent defrosting

ThermoFLUX EVI DC inverter split type 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.

### Models

We offer the split version of heat pumps in three rated powers (10 kW, 17 kW and 19 kW) and the power supply can be single-phase or three-phase.

### WI-FI Smart Management

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

**-25°C**

**Max. COP 5.60**

**R410A**

**A+++**

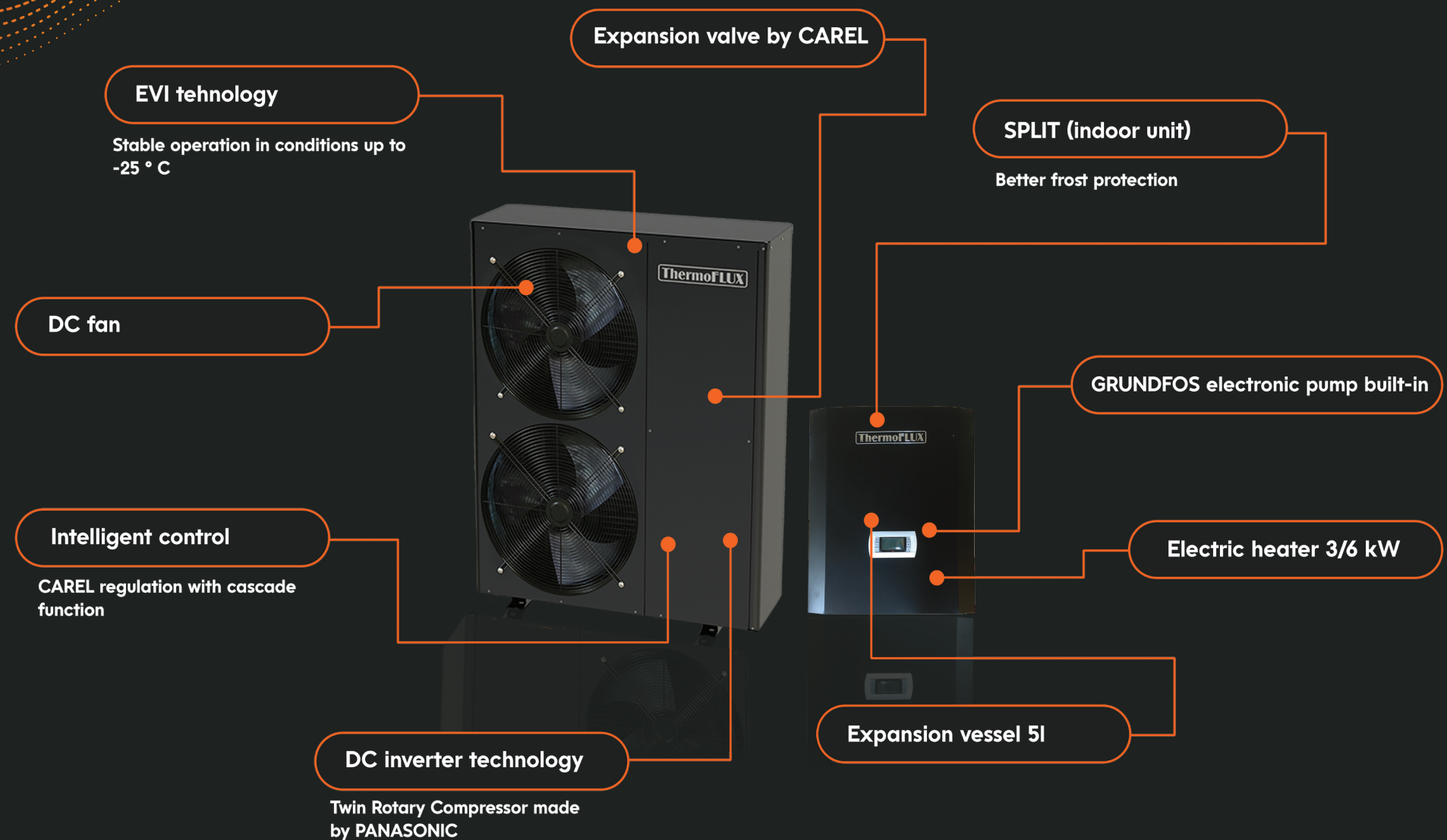


		TF10EVI 230	TF17EVI 230	TF17EVI 380	TF19EVI 230	TF19EVI 380
Power Supply	V/Hz/Ph	220-240/50/1	220-240/50/1	380-420/50/3	220-240/50/1	380-420/50/3
Refrigerant		R 410 A				
Max. Heating Capacity	kW	9.6	16.8	16.9	18.8	18.9
COP		4.45	4.48	4.48	4.39	4.39
Heating Capacity min./max.	kW	4,41 / 9,60	7,72 / 16,80	7,77 / 16,9	8,64 / 18,8	8,69 / 18,90
Heating Power Input min./max.	W	794 / 2157	1380 / 3750	1388 / 3772	1576 / 4282	1584 / 4305
COP min./max.		4,45 / 5,56	4,48 / 5,60	4,48 / 5,60	4,39 / 5,49	4,39 / 5,49
Max. Heating Capacity	kW	9	15.8	15.9	17.7	17.8
COP (2)		3.6	3.58	3.58	3.4	3.4
Heating Capacity min./max.	kW	4,15 / 9,02	7,26 / 15,79	7,31 / 15,89	8,13 / 17,67	8,17 / 17,77
Heating Power Input min./max.	W	982 / 2535	1707 / 4406	1717 / 4432	1949 / 5032	1960 / 5059
COP min./max.		3,56 / 4,23	3,58 / 4,26	3,58 / 4,26	3,51 / 4,17	3,51 / 4,17
Max. Heating Capacity	kW	7.9	13.9	14	15.6	15.6
EER		3.5	3.48	3.48	3.3	3.3
Cooling Capacity min./max.	kW	3,65 / 7,94	6,39 / 13,90	6,43 / 13,98	7,15 / 15,55	7,19 / 15,63
Cooling Power Input min./max.	W	919 / 2688	1598 / 4672	1607 / 4699	1825 / 5335	1834 / 5363
EER min./max.		2,95 / 3,97	2,97 / 4,00	2,97 / 4,00	2,91 / 3,92	2,91 / 3,92
Max. Heating Capacity	kW	6.3	11.1	11.1	12.4	12.4
EER (4)		2.62	2.61	2.61	2.48	2.48
Cooling Capacity min./max.	kW	2,91 / 6,32	5,09 / 11,05	5,12 / 11,12	5,69 / 12,37	5,72 / 12,44
Cooling Power Input min./max.	W	831 / 2672	1444 / 4645	1453 / 4673	1649 / 5305	1658 / 5333
EER min./max.		2,36 / 3,50	2,38 / 3,52	2,38 / 3,52	2,33 / 3,45	2,33 / 3,45
Rated Current	A	10.3	17.9	8	20.5	9.1
Max. Current	A	14.97	26.02	11.54	29.71	13.17
Type Compressor - Quantity		Twin Rotary -1				
Working temperature		od -25°C do +45°C				
Fan - Quantity		1	2	2	2	2
Fan - Airflow	m3/h	3000	5000	5000	5500	5500
Fan - Rated Power	W	100	200	200	210	210
Water Side Heat Exchanger - Type		Plate Heat Exchanger				
Water Side Heat Exchanger - Water Pressure Drop	kPa	20	23	23	25	25
Water Side Heat Exchanger - Piping Connection	Inch	G1"	G1"	G1"	G1"	G1"
Allowed Water Flow	lit/sec	0,29 / 0,46 / 0,76	0,50 / 0,80 / 1,34	0,5 / 0,81 / 1,35	0,56 / 0,90 / 1,50	0,56 / 0,90 / 1,50
Noise Level	dB(A)	59	62	62	63	63
Expansion vessel	lit	5	5	5	5	5
Electric heater	kW	3	3	3	3	3
Circulating pump	tip	ELECTRONIC GRUNDFOS UPM GEO 25-85 130				
Outdoor unit of net dimensions (LxDxH)	mm	1110*475*810	1110*475*1355	1110*475*1355	1110*475*1355	1110*475*1355
Outdoor unit of packing dimensions (LxDxH)	mm	1235*540*970	1235*540*1400	1235*540*1400	1235*540*1400	1235*540*1400
Indoor unit of net dimensions (LxDxH)	mm	550*325*650	550*325*650	550*325*650	550*325*650	550*325*650
Indoor unit of packing dimensions (LxDxH)	mm	650*450*840	650*450*840	650*450*840	650*450*840	650*450*840
Outdoor unit net weight	kg	74	110	110	110	110
Outdoor unit gross weight	kg	104	149	149	149	149
Indoor unit net weight	kg	38	42	42	42	42
Indoor unit gross weight	kg	52	56	56	56	56
Refrigerant connections	mm	19/12,7	19/12,7	19/12,7	19/12,7	19/12,7



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;



## THERMOFLUX - PELLET STOVES

Along with heat pumps, we recommend our hot air pellet stoves as an alternative heating. Provide yourself with an additional source of heating and at the same time beautify your living space with a top-designed pellet stoves.



## HEAT PUMPS





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