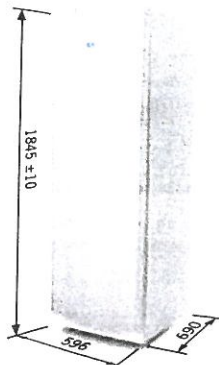


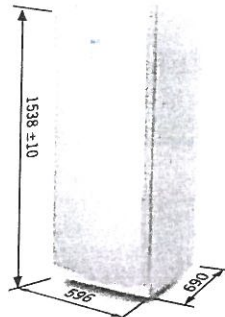
Technical data iTec

RETAILER



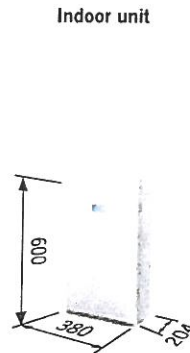
TOTAL

- Intelligent Controller
- Hot water tank, 180 litre
- Optimum controlled circulation pump Class A
- Immersion heater (3/6/9/12/15 kW 3–400 V; 1,5/3/4,5 kW 1–230 V)
- Three way valve for heating or hot water production
- Additional free space in the lower part of the unit might be used for the extra 60 liters volume tank (available as an accessory) or for the expansion vessel or/and hydraulic connections



TOTAL COMPACT

- Intelligent Controller
- Hot water tank, 180 litre
- Optimum controlled circulation pump Class A
- Immersion heater (3/6/9/12/15 kW 3–400 V; 1,5/3/4,5 kW 1–230 V)
- Three way valve for heating or hot water production



STANDARD

- Intelligent Controller

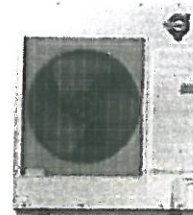
Connection

- Supply line heating system: R25, steel, external thread (rear side of the heat pump)
- Return line heating system: R25, steel, external thread (rear side of the heat pump)
- Power and communication wiring conduits (iTec 5 right upper side of the heat pump, iTec 9 and iTec 16 bottom right side of the heat pump)



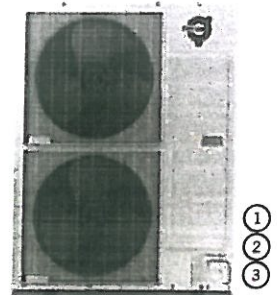
iTec 5

1,06 - 5 kW
1–230 V



iTec 9

2,14 - 9 kW
1–230 V
3–400 V



iTec 16

3,8 - 16 kW
1–230 V
3–400 V

iTec			1–230 V, 50 Hz			3–400 V, 50 Hz	
Refrigerant	Type		5	9	16	9	16
	Amount ¹⁰	kg	R410A	R410A	R410A	R410A	R410A
	Test pressure	MPa	12,3	12,3	12,3	12,3	12,3
	Design pressure	MPa	4,1	4,1	4,1	4,1	4,1
Compressor	Type		BLDC Twin Rotary	BLDC Twin Rotary	BLDC Twin Rotary	BLDC Twin Rotary	BLDC Twin Rotary
	Oil		POE	POE	PVE	PVE	PVE
Electrical data	Main supply	Volt	230	230	230	400	400
	Rated power, cooling	kW	1,21	1,95	3,84	1,92	3,84
	Rated power, heating	kW	1,06	2,14	3,8	2,14	3,8
	Fuse	A	16	16	25	10	16
Performance	COP ¹		4,72	4,21	4,21	4,21	4,21
	Heating capacity ¹	kW	5,0	9,0	16,0	9,0	16,0
	Power input – heating ¹	kW	1,06	2,14	3,8	2,14	3,8
	EER ²		4,13	3,85	3,65	3,65	3,65
	Cooling capacity ²	kW	5,0	7,5	14,0	7,0	14,0
	Power input – cooling ²	kW	1,21	1,95	3,84	1,92	3,84
	SCOP 14825 (Average climate) Low temp		4,50	4,41	4,41	4,41	4,41
	SCOP 14825 (Cold climate) Low temp		3,74	3,96	3,99	3,91	3,99
	SCOP 14825 (Average climate) High temp		3,13	3,15	2,80	3,13	2,80
	SCOP 14825 (Cold climate) High temp		2,51	2,83	2,68	2,66	2,68
Energy class - system ⁴			Floor heating (35°C)/Radiator (55°C)	A+++ / A++	A+++ / A+	A+++ / A++	A+++ / A+
Energy class - product ⁵			Floor heating (35°C)/Radiator (55°C)	A++ / A++	A++ / A++	A++ / A++	A++ / A++
			Domestic hot water	A	A	A	A
Nominal flow ³	Heating circuit	l/s	0,12	0,22	0,39	0,22	0,39
Operating range (outdoor)	Heating	°C	-25~+35	-25~+35	-25~+35	-25~+35	-25~+35
	Cooling	°C	+10~+46	+10~+46	+10~+46	+10~+46	+10~+46
	Domestic hot water	°C	-25~+43	-25~+43	-25~+43	-25~+43	-25~+43
Max temperature ⁴	Heating circuit	°C	55	55	55	55	55
Sound power level	Regular mode ⁵	dB(A)	61	63	66	63	66
Sound pressure level	1m ⁶	dB(A)	46	48	51	48	51
	4m ⁷	dB(A)	44	46	49	46	49
Weight	Outdoor unit	kg	59	76	108	76	108
	Standard	kg	18	18	18	18	18
	Total Compact	kg	100	100	100	100	100
	Total	kg	106	106	106	106	106
Dimensions (Width x Depth x Height)			880 x 310 x 798	940 x 330 x 998	940 x 330 x 1420	940 x 330 x 998	940 x 330 x 1420

The measurements are performed on a limited number of heat pumps which can cause variations in the results. Tolerances in the measuring methods can also cause variations.

1) At A7W35 according to EN 14511.

2) At A35/W7 according to EN 14511.

3) Nominal flow: heating circuit 10K.

4) At minimum outdoor temperature 0°C.

5) According to EN 12102, nominal operation A7W35.

6) According to EN 11203, nominal operation A7W35.

7) Quarter spherical sound propagation in free field.

8) nominal operation A7W35, heat pump ground mounted against building facade

9) When the heat pump is part of an integrated system. According to Eco-design Directive 811/2013

10) When the heat pump is the sole heat generator and the built-in controller is not included

According to Eco-design Directive 811/2013

11) The refrigerant circuit is hermetically sealed and subject to the F-gas directive. Global Warming Potential (GWP) for R410A according to EC 517/2014 is 2088, giving a GWP equivalent corresponding to 5kW SP 2401 kg, 9 kW SP 2923 kg, 16 kW SP 5429 kg, 16 kW SP 5429 kg.

Thermia Heat Pumps reserves the right to make changes without further notice.