

Thermia iTec Eco



The air source heat pump that delivers maximum performance and comfort, year round.

Thermia iTec Eco is an air source heat pump with inverter technology. The inverter-controlled compressor adjusts the heat load constantly according to the current heat demand. You never use more energy than is needed, and this of course reduces your energy bills further energy is collected from the outdoor air, and is used to heating of hot water and hydronic heating systems, delivering efficient energy savings at temperatures as low as -25 °C.

With iTec Eco you can save a lot of money with reduced environmental impact. iTec Eco uses refrigerant R32 which is a more environmentally friendly alternative than traditional refrigerants for air heat pumps. iTec Eco provides up to 23%* more hot water than its predecessor with a generally higher water comfort.

The cooling function assures a pleasant indoor climate also during the hottest period of the year. And if you have a swimming pool, you can reduce the heating cost significantly as Thermia iTec is prepared for heating of pools. With a high seasonal performance Thermia iTec allows you to reduce your energy consumption by up to 75%.

Thermia iTec Eco is available in four output sizes: 5 kW, 8 kW, 12 kW & 16 kW. It consists of two parts: the heat pump itself, which is installed outdoors, and an indoor unit. You can choose from five versions of the indoor unit, each with different features. The choice of unit depends on the set-up of your heating system, to ensure you never pay for more than you actually need.

With the help of a calendar function, you can program and control the heat pump according to your own needs. Additionally, with the Thermia Online accessory, you can remotely control and monitor your heat pump.

*applies to iTec Eco 5



A+++ energy class when the heat pump is part of an integrated system A+++ energy class when the heat pump is the sole heat generator Energy class according to Eco-design Directive 811/2013



Technical data iTec Eco

RETAILER:

Connection

- 1 Supply line heating system: R25, steel, external thread (rear side of the heat pump)
- 2 Return line heating system: R25, steel, external thread (rear side of the heat pump)
- 3 Power and communication wiring conduits

Indoor unit







iTec Eco

Refrigerant

▶ STANDARD ▶ PLUS

W:420 mm D: 260 mm

 Intelligent Controller

- Intelligent Controller • Immersion heater (3/6/9/12/15 kW 3~400V; 3/6/9 kW 1~230 V)
- Optimum controlled circulation pump Class A
- Three way valve for
- heating or hot water production

4	4			
W:596 mm D: 690 mm H: 1845 mm	W:596 mm D: 690 mm H: 1538 mm			
 TOTAL TOTAL EQ 	TOTAL COMPACT			

- Intelligent Controller
- Hot water tank, 180 litre Optimum controlled circulation pump
- Class A Three way valve for heating
- or hot water production Immersion heater (3/6/9/12/15 kW 3~400 V; 3/6/9 kW 1~230 V
- Total EQ feature extra 60 liters volume tank, 12 liters expansion vessel and an additional circulation pump.



3,4–12 kW

12

1~230 V 3~400 V

1,7–8 kW

1~230 V 3~400 V

Outdoor unit

1,1-5 kW

1~230 V



ITec 16

3,4–16 kW 1~230 V 3~400 V

16

Kenigerant	iyhe		1.52	1.52	1102	INDE	
	Amount	kg	1	1.15	2.2	2.2	
	GWP Design prossure	tCO2e MPa	0.68	0.78	1.49	1.49	
	Time	IVII d	4.7	4.7 DI DO T.	+./	4.7	
ompressor	Oil		BLDC Twin Rotary POE				
Electrical data	Main supply	Volt	230	400/230	400/230	400/230	
	Rated power, cooling A35/W18	kW	1.14	1.50	2.77	3.28	
	Rated power, neating		2.79	4.13	6.87 10/30	8.47	
			15	10/20	10/30	10/40	
Performance	COP/Heating capacity/Power input-heating A 7/W35	KW kW	4.85/5/1.03	4.52/8/1.77	4.53/12/2.65	4.42/16/3.62	
	COP/Heating capacity/Power input-heating A-15/W35	kW	2.32/4.3/2.32	2.29/6.31/2.75	2.22/10.6/4.78	2.17/13/6	
	SEER		3.98	4.52	5.22	5.31	
	Cooling capacity		5.00	7.90	12.00	14.00	
	Power input – cooling A35/W18		1.14	1.50	2.77	3.28	
	SCOP 14825 (Warm climate) Low temp		6,06	6,02	6,36	6,13	
	SCOP 14825 (Average climate) Low temp		4.46	4.45	4.69	4.48	
	SCOP 14825 (Cold climate) Low temp		3.6	3.62	3.66	3.44	
	SCOP 14825 (Warm climate) High temp		3,71	3,77	3,85	3,8	
	SCOP 14825 (Average climate) High temp		3.2	3.23	3.52	3.53	
	SCOP 14825 (Cold climate) High temp		2.47	2.53	2.63	2.55	
iergy class - system	Floor heating (35°C)/Radiator (55°C)		A+++/A++	A+++/A++	A+++/A++	A+++/A++	
nergy class - product 2	Domestic hot water / Declared load profile		A+++/A++ A+/L	A+++/A++ A+/L	A+++/A++ A/L / A+/L	A+++/A++ A/L / A+/L	
ot water performance	Volume 40°C hot water	I	261*	248*	249**/251*	245**/252*	
Operating range	Heating	°C	-25~+35	-25~+35	-25~+35	-25~+35	
utdoor)	Cooling	°C	+10~+46	+10~+46	+10~+46	+10~+46	
	Domestic hot water	°C	-25~+43	-25~+43	-25~+43	-25~+43	
lax temperature ³	Heating circuit	°C	65	65	65	65	
ound power level	Normal drift - EN12102 - A7/W35	dB(A)	61	63	64	66	
ound pressure level	4m ⁴	dB(A)	44	46	47	49	
	8m ⁴	dB(A)	38	40	41	43	
Weight	Outdoor unit	kg	58.5	76	111	111	
	Standard	kg	18	18	18	18	
	Plus	kg	21	21	21	21	
	Total	kg	106	106	106	106	
	Total EQ	kg	142	142	142	142	
	Total Compact	kg	100	100	100	100	
aximum distance betwe	een outdoor and indoor unit:	m	15	15	15	15	
imensions (WxDxH)	Outdoor unit	mm	880 x 310 x 798	940 x 330 x 998	940 x 330 x 1420	940 x 330 x 1420	

Thermia AB | Box 950 | SE-671 29 Arvika