

Product data sheet (in accordance with EU regulation no. 811/2013, 812/2013, 813/2013 and 814/2013) .

Technical parameters for heat pump space heaters and heat pump combination heaters and temperature control packages		203239	203240 203241	203245	203243		
Model	Conditions	iTec Eco 5 230-1	iTec Eco 8 230-1 iTec Eco 8 400V	iTec Eco 16 400V	iTec Eco 12 400V	Symbol	Unit
harmonised standard	EN 14825, EN 16147, EN 12102						
Air to water heat pump		YES	YES	YES	YES		
Water-to-water heat pump		NO	NO	NO	NO		
Brine-to water heat pump		NO	NO	NO	NO		
Low Temperature Heat pump		NO	NO	NO	NO		
Equipped with supplementary heater		YES / NO *	YES / NO *	YES / NO *	YES / NO *		
Heat pump combination heater		YES / NO **	YES / NO **	YES / NO **	YES / NO **		
Built in temperature control class		II	II	II	II		
Built in temperature control contribution to energy efficiency		2,0	2,0	2,0	2,0		%
Rated heat output	(average climate conditions)	5	8	16	12	Prated	kW
Rated heat output	(colder climate conditions)	4	7	15	11	Prated	kW
Rated heat output	(warmer climate conditions)	5	8	16	12	Prated	kW
Rated heat output	(low temperature applications average climate conditions)	6	8	16	13	Prated	kW
Rated heat output	(low temperature applications colder climate conditions)	5	7	15	12	Prated	kW
Rated heat output	(low temperature applications warmer climate conditions)	5	8	16	13	Prated	kW
SCOP	(average climate conditions)	3,20	3,23	3,53	3,52		
SCOP	(colder climate conditions)	2,47	2,53	2,55	2,63		
SCOP	(warmer climate conditions)	3,71	3,77	3,80	3,85		
SCOP	(low temperature applications average climate conditions)	4,46	4,45	4,48	4,69		
SCOP	(low temperature applications colder climate conditions)	3,60	3,62	3,44	3,66		
SCOP	(low temperature applications warmer climate conditions)	6,06	6,02	6,13	6,36		
Seasonal space heating Energy efficiency	(average climate conditions)	125	126	138	138	ηs	%
Seasonal space heating Energy efficiency Built in temperature control	(average climate conditions)	127	128	140	140	ηs	%
Seasonal space heating Energy efficiency	(colder climate conditions)	96	98	99	102	ηs	%
Seasonal space heating Energy efficiency Built in temperature control	(colder climate conditions)	98	100	101	104	ηs	%
Seasonal space heating Energy efficiency	(warmer climate conditions)	145	148	149	151	ηs	%
Seasonal space heating Energy efficiency Built in temperature control	(warmer climate conditions)	147	150	151	153	ηs	%
Seasonal space heating Energy efficiency	(low temperature applications average climate conditions)	175	175	176	185	ηs	%
Seasonal space heating Energy efficiency Built in temperature control	(low temperature applications average climate conditions)	177	177	178	187	ηs	%
Seasonal space heating Energy efficiency	(low temperature applications colder climate conditions)	141	142	135	143	ηs	%
Seasonal space heating Energy efficiency Built in temperature control	(low temperature applications colder climate conditions)	143	144	137	145	ηs	%
Seasonal space heating Energy efficiency	(low temperature applications warmer climate conditions)	239	238	242	251	ηs	%
Seasonal space heating Energy efficiency Built in temperature control	(low temperature applications warmer climate conditions)	241	240	244	253	ηs	%
Energy efficiency class		A++	A++	A++	A++		
Energy efficiency class built in temperature control package		A++	A++	A++	A++		

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Energy efficiency class	(low temperature applications)	A+++	A+++	A+++	A+++		
Energy efficiency class built in temperature control package	(low temperature applications)	A+++	A+++	A+++	A+++		
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _J							
T _J = -7 °C	(average climate conditions)	4,4	7,1	14,2	10,6	Pdh	kW
T _J = -7 °C	(colder climate conditions)	2,4	3,9	8,8	6,7	Pdh	kW
T _J = -7 °C	(warmer climate conditions)	NA	NA	NA	NA	Pdh	kW
T _J = -7 °C	(low temperature applications average climate conditions)	4,9	7,1	14,2	11,5	Pdh	kW
T _J = -7 °C	(low temperature applications colder climate conditions)	2,7	3,9	8,8	7,3	Pdh	kW
T _J = -7 °C	(low temperature applications warmer climate conditions)	NA	NA	NA	NA	Pdh	kW
T _J = +2 °C	(average climate conditions)	2,7	4,3	8,6	6,5	Pdh	kW
T _J = +2 °C	(colder climate conditions)	2,8	2,4	5,3	4,1	Pdh	kW
T _J = +2 °C	(warmer climate conditions)	5,0	7,5	15,5	12,0	Pdh	kW
T _J = +2 °C	(low temperature applications average climate conditions)	3,0	4,3	8,6	7,0	Pdh	kW
T _J = +2 °C	(low temperature applications colder climate conditions)	2,2	2,4	5,3	4,4	Pdh	kW
T _J = +2 °C	(low temperature applications warmer climate conditions)	5,0	7,5	15,5	13,0	Pdh	kW
T _J = +7 °C	(average climate conditions)	1,7	2,8	5,5	4,2	Pdh	kW
T _J = +7 °C	(colder climate conditions)	1,8	2,5	4,3	4,3	Pdh	kW
T _J = +7 °C	(warmer climate conditions)	3,2	4,8	10,0	7,7	Pdh	kW
T _J = +7 °C	(low temperature applications average climate conditions)	1,9	3,1	5,5	5,6	Pdh	kW
T _J = +7 °C	(low temperature applications colder climate conditions)	1,9	2,5	4,4	4,4	Pdh	kW
T _J = +7 °C	(low temperature applications warmer climate conditions)	3,2	4,8	10,0	8,4	Pdh	kW
T _J = +12 °C	(average climate conditions)	1,7	2,4	4,5	4,4	Pdh	kW
T _J = +12 °C	(colder climate conditions)	1,7	2,4	4,4	4,4	Pdh	kW
T _J = +12 °C	(warmer climate conditions)	1,7	2,4	4,4	4,4	Pdh	kW
T _J = +12 °C	(low temperature applications average climate conditions)	1,9	2,6	5,2	4,8	Pdh	kW
T _J = +12 °C	(low temperature applications colder climate conditions)	1,9	2,6	4,8	4,8	Pdh	kW
T _J = +12 °C	(low temperature applications warmer climate conditions)	1,9	2,6	4,4	4,8	Pdh	kW
T _J = bivalent temperature	(average climate conditions)	4,4	7,1	14,2	12,0	Pdh	kW
T _J = bivalent temperature	(colder climate conditions)	4,0	6,5	14,5	11,0	Pdh	kW
T _J = bivalent temperature	(warmer climate conditions)	5,0	7,5	15,5	12,0	Pdh	kW
T _J = bivalent temperature	(low temperature applications average climate conditions)	4,9	7,1	14,2	13,0	Pdh	kW
T _J = bivalent temperature	(low temperature applications colder climate conditions)	4,5	6,5	14,5	12,0	Pdh	kW
T _J = bivalent temperature	(low temperature applications warmer climate conditions)	5,0	7,5	15,5	13,0	Pdh	kW
T _J = operation limit temperature	(average climate conditions)	4,2	6,8	14,0	12,0	Pdh	kW
T _J = operation limit temperature	(colder climate conditions)	4,0	6,5	14,5	11,0	Pdh	kW
T _J = operation limit temperature	(warmer climate conditions)	5,0	7,5	15,5	12,0	Pdh	kW

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Model	Conditions	iTec Eco 5 230-1	iTec Eco 8 230-1 iTec Eco 8 400V	iTec Eco 16 400V	iTec Eco 12 400V	Symbol	Unit
Tj = operation limit temperature	(low temperature applications average climate conditions)	4,6	7,0	13,8	13,0	Pdh	kW
Tj = operation limit temperature	(low temperature applications colder climate conditions)	4,5	6,5	14,5	12,0	Pdh	kW
Tj = operation limit temperature	(low temperature applications warmer climate conditions)	5,0	7,5	15,5	13,0	Pdh	kW
Tj = -15 °C	(colder climate conditions)	3,3	5,3	11,8	9,0	Pdh	kW
Tj = -15 °C	(low temperature applications colder climate conditions)	3,7	5,3	11,8	9,8	Pdh	kW
Bivalent temperature	(average climate conditions)	-7	-7	-7	-10	Tbiv	°C
Bivalent temperature	(colder climate conditions)	-22	-22	-22	-22	Tbiv	°C
Bivalent temperature	(warmer climate conditions)	2	2	2	2	Tbiv	°C
Bivalent temperature	(low temperature applications average climate conditions)	-7	-7	-7	-10	Tbiv	°C
Bivalent temperature	(low temperature applications colder climate conditions)	-22	-22	-22	-22	Tbiv	°C
Bivalent temperature	(low temperature applications warmer climate conditions)	2	2	2	2	Tbiv	°C
Degradation coefficient Tj= -7 °C	(average climate conditions)	0,9	0,9	0,9	0,9	Cdh	
Degradation coefficient Tj= -7 °C	(colder climate conditions)	0,9	0,9	0,9	0,9	Cdh	
Degradation coefficient Tj= -7 °C	(warmer climate conditions)	NA	NA	NA	NA	Cdh	
Degradation coefficient Tj= -7 °C	(low temperature applications average climate conditions)	0,9	0,9	0,9	0,9	Cdh	
Degradation coefficient Tj= -7 °C	(low temperature applications colder climate conditions)	0,9	0,9	0,9	0,9	Cdh	
Degradation coefficient Tj= -7 °C	(low temperature applications warmer climate conditions)	NA	NA	NA	NA	Cdh	
Degradation coefficient Tj= +2 °C	(average climate conditions)	0,9	0,9	0,9	0,9	Cdh	
Degradation coefficient Tj= +2 °C	(colder climate conditions)	0,9	0,9	0,9	0,9	Cdh	
Degradation coefficient Tj= +2 °C	(warmer climate conditions)	NA	NA	NA	NA	Cdh	
Degradation coefficient Tj= +2 °C	(low temperature applications average climate conditions)	0,9	0,9	0,9	0,9	Cdh	
Degradation coefficient Tj= +2 °C	(low temperature applications colder climate conditions)	0,9	0,9	0,9	0,9	Cdh	
Degradation coefficient Tj= +2 °C	(low temperature applications warmer climate conditions)	NA	NA	NA	NA	Cdh	
Degradation coefficient Tj= +7 °C	(average climate conditions)	0,9	0,9	0,9	0,9	Cdh	
Degradation coefficient Tj= +7 °C	(colder climate conditions)	0,9	0,9	0,9	0,9	Cdh	
Degradation coefficient Tj= +7 °C	(warmer climate conditions)	0,9	0,9	0,9	0,9	Cdh	
Degradation coefficient Tj= +7 °C	(low temperature applications average climate conditions)	0,9	0,9	0,9	0,9	Cdh	
Degradation coefficient Tj= +7 °C	(low temperature applications colder climate conditions)	0,9	0,9	0,9	0,9	Cdh	
Degradation coefficient Tj= +7 °C	(low temperature applications warmer climate conditions)	0,9	0,9	0,9	0,9	Cdh	
Degradation coefficient Tj= +12 °C	(average climate conditions)	0,9	0,9	0,9	0,9	Cdh	
Degradation coefficient Tj= +12 °C	(colder climate conditions)	0,9	0,9	0,9	0,9	Cdh	
Degradation coefficient Tj= +12 °C	(warmer climate conditions)	0,9	0,9	0,9	0,9	Cdh	
Degradation coefficient Tj= +12 °C	(low temperature applications average climate conditions)	0,9	0,9	0,9	0,9	Cdh	
Degradation coefficient Tj= +12 °C	(low temperature applications colder climate conditions)	0,9	0,9	0,9	0,9	Cdh	
Degradation coefficient Tj= +12 °C	(low temperature applications warmer climate conditions)	0,9	0,9	0,9	0,9	Cdh	

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Model	Conditions	iTec Eco 5 230-1	iTec Eco 8 230-1 iTec Eco 8 400V	iTec Eco 16 400V	iTec Eco 12 400V	Symbol	Unit
Declared coefficient of performance for part load at indoor temperature 20 °C and outdoor temperature Tj							
Tj = -7 °C	(average climate conditions)	2,16	1,90	2,06	2,16	COPd	
Tj = -7 °C	(colder climate conditions)	2,31	2,23	2,12	2,23	COPd	
Tj = -7 °C	(warmer climate conditions)	NA	NA	NA	NA	COPd	
Tj = -7 °C	(low temperature applications average climate conditions)	2,99	2,63	2,65	2,71	COPd	
Tj = -7 °C	(low temperature applications colder climate conditions)	3,46	3,42	2,98	3,23	COPd	
Tj = -7 °C	(low temperature applications warmer climate conditions)	NA	NA	NA	NA	COPd	
Tj = +2 °C	(average climate conditions)	3,17	3,11	3,31	3,45	COPd	
Tj = +2 °C	(colder climate conditions)	2,87	2,85	2,89	3,08	COPd	
Tj = +2 °C	(warmer climate conditions)	2,30	2,34	2,38	2,28	COPd	
Tj = +2 °C	(low temperature applications average climate conditions)	4,18	4,24	4,11	4,48	COPd	
Tj = +2 °C	(low temperature applications colder climate conditions)	3,73	3,68	3,68	4,02	COPd	
Tj = +2 °C	(low temperature applications warmer climate conditions)	3,36	3,20	3,16	3,32	COPd	
Tj = +7 °C	(average climate conditions)	4,03	4,55	5,23	4,57	COPd	
Tj = +7 °C	(colder climate conditions)	4,05	3,97	4,36	4,32	COPd	
Tj = +7 °C	(warmer climate conditions)	3,58	3,50	4,07	3,68	COPd	
Tj = +7 °C	(low temperature applications average climate conditions)	6,11	6,39	6,86	6,86	COPd	
Tj = +7 °C	(low temperature applications colder climate conditions)	6,08	6,10	6,77	6,77	COPd	
Tj = +7 °C	(low temperature applications warmer climate conditions)	5,85	5,49	6,04	5,73	COPd	
Tj = +12 °C	(average climate conditions)	4,73	5,77	6,57	6,12	COPd	
Tj = +12 °C	(colder climate conditions)	3,61	3,41	4,22	4,34	COPd	
Tj = +12 °C	(warmer climate conditions)	4,25	4,41	3,85	4,47	COPd	
Tj = +12 °C	(low temperature applications average climate conditions)	7,70	8,22	8,81	8,95	COPd	
Tj = +12 °C	(low temperature applications colder climate conditions)	7,23	7,49	8,03	8,03	COPd	
Tj = +12 °C	(low temperature applications warmer climate conditions)	7,23	7,49	6,88	8,03	COPd	
Tj = bivalent temperature	(average climate conditions)	2,16	1,90	2,06	1,96	COPd	
Tj = bivalent temperature	(colder climate conditions)	1,38	1,43	1,42	1,36	COPd	
Tj = bivalent temperature	(warmer climate conditions)	2,30	2,34	2,38	2,28	COPd	
Tj = bivalent temperature	(low temperature applications average climate conditions)	2,99	2,63	2,65	2,37	COPd	
Tj = bivalent temperature	(low temperature applications colder climate conditions)	2,05	2,03	1,77	1,76	COPd	
Tj = bivalent temperature	(low temperature applications warmer climate conditions)	3,36	3,20	3,16	3,32	COPd	
Tj = operation limit temperature	(average climate conditions)	2,00	1,66	1,82	1,96	COPd	
Tj = operation limit temperature	(colder climate conditions)	1,38	1,43	1,42	1,36	COPd	
Tj = operation limit temperature	(warmer climate conditions)	2,30	2,34	2,38	2,28	COPd	
Tj = operation limit temperature	(low temperature applications average climate conditions)	2,74	2,48	2,37	2,37	COPd	
Tj = operation limit temperature	(low temperature applications colder climate conditions)	2,05	2,03	1,77	1,76	COPd	

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Tj = operation limit temperature	(low temperature applications warmer climate conditions)	3,36	3,20	3,16	3,32	COPd	
Tj = -15 °C	(colder climate conditions)	1,65	1,68	1,65	1,62	COPd	
Tj = -15 °C	(low temperature applications colder climate conditions)	2,46	2,43	2,12	2,16	COPd	
For air-to-water heat pumps: Operation limit temperature	(average climate conditions)	-10	-10	-10	-10	TOL	°C
For air-to-water heat pumps: Operation limit temperature	(colder climate conditions)	-22	-22	-22	-22	TOL	°C
For air-to-water heat pumps: Operation limit temperature	(warmer climate conditions)	2	2	2	2	TOL	°C
For air-to-water heat pumps: Operation limit temperature	(low temperature applications average climate conditions)	-10	-10	-10	-10	TOL	°C
For air-to-water heat pumps: Operation limit temperature	(low temperature applications colder climate conditions)	-22	-22	-22	-22	TOL	°C
For air-to-water heat pumps: Operation limit temperature	(low temperature applications warmer climate conditions)	2	2	2	2	TOL	°C
Heating water operating limit temperature		65	65	65	65	WTOL	°C
Power consumption in other mode than active							
Off mode		0,022	0,022	0,022	0,022	POFF	kW
Thermostat off mode		0,022	0,022	0,022	0,022	PTO	kW
Standby mode		0,022	0,022	0,022	0,022	PSB	kW
Crankcase heater mode		0,000	0,000	0,000	0,000	PCK	kW
Supplementary heater							
Rated heat output	(average climate conditions)	0,8	1,2	2,0	0,0	Psup	kW
Rated heat output	(colder climate conditions)	0,0	0,0	0,0	0,0	Psup	kW
Rated heat output	(warmer climate conditions)	0,0	0,0	0,0	0,0	Psup	kW
Rated heat output	(low temperature applications average climate conditions)	0,9	1,0	2,2	0,0	Psup	kW
Rated heat output	(low temperature applications colder climate conditions)	0,0	0,0	0,0	0,0	Psup	kW
Rated heat output	(low temperature applications warmer climate conditions)	0,0	0,0	0,0	0,0	Psup	kW
Type of energy input		Electrical	Electrical	Electrical	Electrical		
Other items							
Capacity control		Capacity controlled	Capacity controlled	Capacity controlled	Capacity controlled		
Sound power levels outdoors		61	63	66	64	LWA	dB
Annual energy consumption	(average climate conditions)	3224	5113	9379	7051	QHE	kWh
Annual energy consumption	(colder climate conditions)	3992	6333	14017	10310	QHE	kWh
Annual energy consumption	(warmer climate conditions)	1801	2658	5449	4164	QHE	kWh
Annual energy consumption	(low temperature applications average climate conditions)	2548	3719	7385	5725	QHE	kWh
Annual energy consumption	(low temperature applications colder climate conditions)	3081	4426	10390	8082	QHE	kWh
Annual energy consumption	(low temperature applications warmer climate conditions)	1102	1664	3378	2731	QHE	kWh
For air-to-water heat pumps: Rated air flow rate, outdoors	(average climate conditions)	3060	3960	7080	5940		m ³ /h
For air-to-water heat pumps: Rated air flow rate, outdoors	(colder climate conditions)	3060	3960	7080	5940		m ³ /h
For air-to-water heat pumps: Rated air flow rate, outdoors	(warmer climate conditions)	3060	3960	7080	5940		m ³ /h
For air-to-water heat pumps: Rated air flow rate, outdoors	(low temperature applications average climate conditions)	3060	3960	7080	5940		m ³ /h

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For air-to-water heat pumps: Rated air flow rate, outdoors	(low temperature applications colder climate conditions)	3060	3960	7080	5940		m ³ /h
For air-to-water heat pumps: Rated air flow rate, outdoors	(low temperature applications warmer climate conditions)	3060	3960	7080	5940		m ³ /h
Possibility to run only during off peak hours		Yes	Yes	Yes	Yes		
For heat pump combination heater:							
Declared load profile (average conditions)		L	L	L	L		
Declared load profile cold conditions		L	L	L	L		
Declared load profile warmer conditions		L	L	L	L		
Daily electricity consumption (average conditions)		3,493	3,678	5,522	5,529	Qelec	kWh
Daily electricity consumption cold conditions		4,967	6,149	7,132	7,020	Qelec	kWh
Daily electricity consumption warmer conditions		3,441	3,703	4,775	4,748	Qelec	kWh
Annual electricity consumption (average conditions)		747	787	1179	1183	AEC	kWh/annum
Annual electricity consumption (cold conditions)		1069	1325	1528	1505	AEC	kWh/annum
Annual electricity consumption (warmer conditions)		740	795	1021	1022	AEC	kWh/annum
Water heater energy efficiency		137	130	87	87	η _{wh}	%
Water heater energy efficiency cold conditions		96	77	67	68	η _{wh}	%
Water heater energy efficiency warmer conditions		138	129	100	100	η _{wh}	%
Energy label water heater		A+	A+	A	A		
PRECAUTIONS	All specific precautions for assembly, installation and maintenance are described in the operating and installation instructions. Read and follow the operating and installation instructions.						