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

control packages		086L4548	086L4549	086L4552		086L4572		
Model	Conditions	iTec 5	iTec 9 SP	iTec 16 SP	iTec 9	iTec 16	Symbol	Unit
Air to water heat pump		YES	YES	YES	YES	YES		
Water-to-water heat pump		NO	NO	NO	NO	NO		
Brine-to water heat pump		NO	NO	NO	NO	NO		
Low Temperature Heat pump		NO	NO	NO	NO	NO		
Equipped with supplementary heater		YES / NO *	YES / NO *	YES / NO *	YES / NO *	YES / NO *		
Heat pump combination heater		YES / NO **	YES / NO **	YES / NO **	YES / NO **	YES / NO **		
Built in temperature control class		II	II	II	II	II		
Built in temperature control contribution to energy efficiency		2	2	2	2	2		%
Danfoss Link temperature control class		VI	VI	VI	VI	VI		
Danfoss Link temperature control contribution to energy efficiency		4	4	4	4	4		%
Rated heat output	(average climate conditions)	5	6	10	5	10	Prated	kW
Rated heat output	(colder climate conditions)	4	6	10	5	10	Prated	kW
Rated heat output	(warmer climate conditions)	5	6	10	5	10	Prated	kW
Rated heat output	(low temperature applications average climate conditions)	5	7	13	6	13	Prated	kW
Rated heat output	(low temperature applications colder climate conditions)	4	6	13	6	13	Prated	kW
Rated heat output	(low temperature applications warmer climate conditions)	5	7	13	6	13	Prated	kW
SCOP	(average climate conditions)	3,19	3,19	2,82	3,26	2,82		
SCOP	(colder climate conditions)	2,54	2,88	2,74	2,73	2,74		
SCOP	(warmer climate conditions)	4,04	4,04	4,24	3,84	4,24		
SCOP	(low temperature applications average climate conditions)	4,56	4,39	4,41	4,47	4,41		
SCOP	(low temperature applications colder climate conditions)	3,78	3,99	3,90	3,97	3,90		
SCOP	(low temperature applications warmer climate conditions)	6,18	6,30	5,37	5,18	5,37		
Seasonal space heating Energy efficiency	(average climate conditions)	125	125	110	127	110	ηs	%
Seasonal space heating Energy efficiency Built in temperature control	(average climate conditions)	127	127	112	129	112	ηs	%
Seasonal space heating Energy efficiency Danfoss Link temperature control	(average climate conditions)	129	129	114	131	114	ηs	%
Seasonal space heating Energy efficiency	(colder climate conditions)	99	112	107	106	107	ηs	%
Seasonal space heating Energy efficiency Built in temperature control	(colder climate conditions)	101	114	109	108	109	ηs	%
Seasonal space heating Energy efficiency Danfoss Link temperature control	(colder climate conditions)	103	116	111	110	111	ηs	%
Seasonal space heating Energy efficiency	(warmer climate conditions)	159	159	167	151	167	ηs	%
Seasonal space heating Energy efficiency Built in temperature control	(warmer climate conditions)	161	161	169	153	169	ηs	%
Seasonal space heating Energy efficiency Danfoss Link temperature control	(warmer climate conditions)	163	163	171	155	171	ηs	%
Seasonal space heating Energy efficiency	(low temperature applications average climate conditions)	179	173	173	176	173	ηs	%
Seasonal space heating Energy efficiency Built in temperature control	(low temperature applications average climate conditions)	181	175	175	178	175	ηs	%
Seasonal space heating Energy efficiency Danfoss Link temperature control	(low temperature applications average climate conditions)	183	177	177	180	177	ηs	%
Seasonal space heating Energy efficiency	(low temperature applications colder climate conditions)	148	157	153	156	153	ηs	%
Seasonal space heating Energy efficiency Built in temperature control	(low temperature applications colder climate conditions)	150	159	155	158	155	ηs	%
Seasonal space heating Energy efficiency Danfoss Link temperature control	(low temperature applications colder climate conditions)	152	161	157	160	157	ηs	%

control packages		086L4548	086L4549	086L4552		086L4572		
Model	Conditions	iTec 5	iTec 9 SP	iTec 16 SP	iTec 9	iTec 16	Symbol	Unit
Seasonal space heating Energy efficiency	(low temperature applications warmer climate conditions)	244	249	212	204	212	ηs	%
Seasonal space heating Energy efficiency Built in temperature control	(low temperature applications warmer climate conditions)	246	251	214	206	214	ηs	%
Seasonal space heating Energy efficiency Danfoss Link temperature control	(low temperature applications warmer climate conditions)	248	253	216	208	216	ηs	%
Energy efficiency class		A++	A++	A+	A++	A+		
Energy efficiency class built in temperature control package		A++	A++	A+	A++	A+		
Energy efficiency class Danfoss Link temperature control package		A++	A++	A+	A++	A+		
Energy efficiency class	(low temperature applications)	A++	A++	A++	A++	A++		
Energy efficiency class built in temperature control package	(low temperature applications)	A+++	A+++	A+++	A+++	A+++		
Energy efficiency class Danfoss Link temperature control package	(low temperature applications)	A+++	A+++	A+++	A+++	A+++		
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj								
Tj = -7 °C	(average climate conditions)	4,2	5,5	8,4	4,4	8,4	Pdh	kW
Tj = -7 °C	(colder climate conditions)	2,2	3,4	5,8	3,0	5,8	Pdh	kW
Tj = -7 °C	(warmer climate conditions)	NA	NA	NA	NA	NA	Pdh	kW
Tj = -7 °C	(low temperature applications average climate conditions)	4,4	6,0	11,1	5,0	11,1	Pdh	kW
Tj = -7 °C	(low temperature applications colder climate conditions)	2,5	3,7	7,8	3,4	7,8	Pdh	kW
Tj = -7 °C	(low temperature applications warmer climate conditions)	NA	NA	NA	NA	NA	Pdh	kW
Tj = +2 °C	(average climate conditions)	2,5	3,3	5,1	2,7	5,1	Pdh	kW
Tj = +2 °C	(colder climate conditions)	1,4	2,1	3,8	1,8	3,8	Pdh	kW
Tj = +2 °C	(warmer climate conditions)	4,6	6,2	10,4	5,4	10,4	Pdh	kW
Tj = +2 °C	(low temperature applications average climate conditions)	2,7	3,7	6,7	3,0	6,7	Pdh	kW
Tj = +2 °C	(low temperature applications colder climate conditions)	1,7	2,3	4,8	2,1	4,8	Pdh	kW
Tj = +2 °C	(low temperature applications warmer climate conditions)	5,0	6,8	13,4	6,2	13,4	Pdh	kW
Tj = +7 °C	(average climate conditions)	1,6	2,1	3,3	3,3	3,3	Pdh	kW
Tj = +7 °C	(colder climate conditions)	1,4	2,2	3,3	2,2	3,3	Pdh	kW
Tj = +7 °C	(warmer climate conditions)	3,0	4,0	6,9	3,5	6,9	Pdh	kW
Tj = +7 °C	(low temperature applications average climate conditions)	1,7	2,4	4,3	2,9	4,3	Pdh	kW
Tj = +7 °C	(low temperature applications colder climate conditions)	1,5	2,4	3,7	2,4	3,7	Pdh	kW
Tj = +7 °C	(low temperature applications warmer climate conditions)	3,5	4,4	8,9	4,0	8,9	Pdh	kW
Tj = +12 °C	(average climate conditions)	0,9	1,1	1,8	3,1	1,8	Pdh	kW
Tj = +12 °C	(colder climate conditions)	1,7	2,2	4,1	2,7	4,1	Pdh	kW
Tj = +12 °C	(warmer climate conditions)	1,7	2,2	3,9	2,6	3,9	Pdh	kW
Tj = +12 °C	(low temperature applications average climate conditions)	2,2	2,7	4,8	3,3	4,8	Pdh	kW
Tj = +12 °C	(low temperature applications colder climate conditions)	2,0	2,5	4,7	2,8	4,7	Pdh	kW
Tj = +12 °C	(low temperature applications warmer climate conditions)	2,0	2,5	4,6	2,8	4,6	Pdh	kW
Tj = bivalent temperature	(average climate conditions)	4,2	5,5	8,4	4,4	8,4	Pdh	kW
Tj = bivalent temperature	(colder climate conditions)	3,6	5,6	9,5	4,9	9,5	Pdh	kW
Tj = bivalent temperature	(warmer climate conditions)	4,6	6,2	10,4	5,4	10,4	Pdh	kW
Tj = bivalent temperature	(low temperature applications average climate conditions)	4,4	6,0	11,1	5,0	11,1	Pdh	kW

control packages		086L4548	086L4549	086L4552		086L4572		
Model	Conditions	iTec 5	iTec 9 SP	iTec 16 SP	iTec 9	iTec 16	Symbol	Unit
Tj = bivalent temperature	(low temperature applications colder climate conditions)	4,0	6,1	12,5	5,6	12,5	Pdh	kW
Tj = bivalent temperature	(low temperature applications warmer climate conditions)	5,0	6,8	13,4	6,2	13,4	Pdh	kW
Tj = operation limit temperature	(average climate conditions)	4,7	6,2	9,5	5,0	9,5	Pdh	kW
Tj = operation limit temperature	(colder climate conditions)	3,6	5,6	9,5	4,9	9,5	Pdh	kW
Tj = operation limit temperature	(warmer climate conditions)	4,6	6,2	10,4	5,4	10,4	Pdh	kW
Tj = operation limit temperature	(low temperature applications average climate conditions)	5,1	6,8	12,5	5,6	12,5	Pdh	kW
Tj = operation limit temperature	(low temperature applications colder climate conditions)	4,0	6,1	12,5	5,6	12,5	Pdh	kW
Tj = operation limit temperature	(low temperature applications warmer climate conditions)	5,0	6,8	13,4	6,2	13,4	Pdh	kW
Tj = -15 °C	(colder climate conditions)	3,0	4,6	8,1	4,0	8,1	Pdh	kW
Tj = -15 °C	(low temperature applications colder climate conditions)	3,3	5,1	10,2	4,7	10,2	Pdh	kW
Bivalent temperature	(average climate conditions)	-7	-7	-7	-7	-7	Tbiv	°C
Bivalent temperature	(colder climate conditions)	-22	-22	-22	-22	-22	Tbiv	°C
Bivalent temperature	(warmer climate conditions)	2	2	2	2	2	Tbiv	°C
Bivalent temperature	(low temperature applications average climate conditions)	-7	-7	-7	-7	-7	Tbiv	°C
Bivalent temperature	(low temperature applications colder climate conditions)	-22	-22	-22	-22	-22	Tbiv	°C
Bivalent temperature	(low temperature applications warmer climate conditions)	2	2	2	2	2	Tbiv	°C
Degradation coefficient Tj= -7 °C	(average climate conditions)	0,9	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	0,9	Cdh	
Degradation coefficient Tj= -7 °C	(warmer climate conditions)	NA	NA	NA	NA	NA	Cdh	
Degradation coefficient Tj= -7 °C	(low temperature applications average climate conditions)	0,9	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	0,9	Cdh	
Degradation coefficient Tj= -7 °C	(low temperature applications warmer climate conditions)	NA	NA	NA	NA	NA	Cdh	
Degradation coefficient Tj= +2 °C	(average climate conditions)	0,9	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	0,9	Cdh	
Degradation coefficient Tj= +2 °C	(warmer climate conditions)	NA	NA	NA	NA	NA	Cdh	
Degradation coefficient Tj= +2 °C	(low temperature applications average climate conditions)	0,9	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	0,9	Cdh	
Degradation coefficient Tj= +2 °C	(low temperature applications warmer climate conditions)	NA	NA	NA	NA	NA	Cdh	
Degradation coefficient Tj= +7 °C	(average climate conditions)	0,9	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	0,9	Cdh	
Degradation coefficient Tj= +7 °C	(warmer climate conditions)	0,9	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	0,9	Cdh	
Degradation coefficient Tj= +7 °C	(low temperature applications colder climate conditions)	0,9	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	0,9	Cdh	
Degradation coefficient Tj= +12 °C	(average climate conditions)	0,9	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	0,9	Cdh	
Degradation coefficient Tj= +12 °C	(warmer climate conditions)	0,9	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	0,9	Cdh	
Degradation coefficient Tj= +12 °C	(low temperature applications colder climate conditions)	0,9	0,9	0,9	0,9	0,9	Cdh	

control packages		086L4548	086L4549	086L4552		086L4572		
Model	Conditions	iTec 5	iTec 9 SP	iTec 16 SP	iTec 9	iTec 16	Symbol	Unit
Degradation coefficient Tj= +12 °C	(low temperature applications warmer climate conditions)	0,9	0,9	0,9	0,9	0,9	Cdh	
Declared coefficient of performance for part load at indoor temperature 20 °C and outdoor temperature Tj								
Tj = -7 °C	(average climate conditions)	2,23	1,89	1,74	1,88	1,74	COPd	
Tj = -7 °C	(colder climate conditions)	2,09	2,27	2,15	2,39	2,15	COPd	
Tj = -7 °C	(warmer climate conditions)	NA	NA	NA	NA	NA	COPd	
Tj = -7 °C	(low temperature applications average climate conditions)	2,90	2,65	2,68	2,68	2,68	COPd	
Tj = -7 °C	(low temperature applications colder climate conditions)	3,25	3,29	2,92	3,45	2,92	COPd	
Tj = -7 °C	(low temperature applications warmer climate conditions)	NA	NA	NA	NA	NA	COPd	
Tj = +2 °C	(average climate conditions)	2,89	3,01	2,60	3,14	2,60	COPd	
Tj = +2 °C	(colder climate conditions)	2,78	3,66	3,44	3,14	3,44	COPd	
Tj = +2 °C	(warmer climate conditions)	2,15	2,17	2,19	2,02	2,19	COPd	
Tj = +2 °C	(low temperature applications average climate conditions)	4,41	4,08	4,03	4,23	4,03	COPd	
Tj = +2 °C	(low temperature applications colder climate conditions)	4,15	5,00	5,41	4,78	5,41	COPd	
Tj = +2 °C	(low temperature applications warmer climate conditions)	3,44	3,16	2,99	3,01	2,99	COPd	
Tj = +7 °C	(average climate conditions)	4,02	4,25	3,71	4,60	3,71	COPd	
Tj = +7 °C	(colder climate conditions)	4,28	4,53	4,17	3,97	4,17	COPd	
Tj = +7 °C	(warmer climate conditions)	3,36	3,37	3,83	3,60	3,83	COPd	
Tj = +7 °C	(low temperature applications average climate conditions)	6,24	6,10	6,43	6,44	6,43	COPd	
Tj = +7 °C	(low temperature applications colder climate conditions)	8,47	5,42	8,10	5,66	8,10	COPd	
Tj = +7 °C	(low temperature applications warmer climate conditions)	5,30	5,78	4,16	4,77	4,16	COPd	
Tj = +12 °C	(average climate conditions)	7,25	6,78	6,80	6,69	6,80	COPd	
Tj = +12 °C	(colder climate conditions)	5,35	5,35	5,96	5,19	5,96	COPd	
Tj = +12 °C	(warmer climate conditions)	5,24	5,35	5,18	4,62	5,18	COPd	
Tj = +12 °C	(low temperature applications average climate conditions)	6,65	9,60	9,24	9,25	9,24	COPd	
Tj = +12 °C	(low temperature applications colder climate conditions)	7,70	7,70	7,70	6,21	7,70	COPd	
Tj = +12 °C	(low temperature applications warmer climate conditions)	7,84	7,70	7,51	6,21	7,51	COPd	
Tj = bivalent temperature	(average climate conditions)	2,23	1,89	1,74	1,88	1,74	COPd	
Tj = bivalent temperature	(colder climate conditions)	1,33	1,37	1,27	1,38	1,27	COPd	
Tj = bivalent temperature	(warmer climate conditions)	2,15	2,17	2,19	2,02	2,19	COPd	
Tj = bivalent temperature	(low temperature applications average climate conditions)	2,90	2,65	2,68	2,68	2,68	COPd	
Tj = bivalent temperature	(low temperature applications colder climate conditions)	2,02	1,89	1,65	1,92	1,65	COPd	
Tj = bivalent temperature	(low temperature applications warmer climate conditions)	3,44	3,16	2,99	3,01	2,99	COPd	
Tj = operation limit temperature	(average climate conditions)	1,90	1,77	1,55	1,65	1,55	COPd	
Tj = operation limit temperature	(colder climate conditions)	1,33	1,37	1,27	1,38	1,27	COPd	
Tj = operation limit temperature	(warmer climate conditions)	2,15	2,17	2,19	2,02	2,19	COPd	
Tj = operation limit temperature	(low temperature applications average climate conditions)	2,68	2,60	2,16	2,77	2,16	COPd	
Tj = operation limit temperature	(low temperature applications colder climate conditions)	2,02	1,89	1,65	1,92	1,65	COPd	
Tj = operation limit temperature	(low temperature applications warmer climate conditions)	3,44	3,16	2,99	3,01	2,99	COPd	

control packages		086L4548	086L4549	086L4552		086L4572		
Model	Conditions	iTec 5	iTec 9 SP	iTec 16 SP	iTec 9	iTec 16	Symbol	Unit
Tj = -15 °C	(colder climate conditions)	1,56	1,63	1,53	1,66	1,53	COPd	
Tj = -15 °C	(low temperature applications colder climate conditions)	2,39	2,27	1,99	2,33	1,99	COPd	
For air-to-water heat pumps: Operation limit temperature	(average climate conditions)	-10	-10	-10	-10	-10	TOL	°C
For air-to-water heat pumps: Operation limit temperature	(colder climate conditions)	-22	-22	-22	-22	-22	TOL	°C
For air-to-water heat pumps: Operation limit temperature	(warmer climate conditions)	2	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	-10	TOL	°C
For air-to-water heat pumps: Operation limit temperature	(low temperature applications colder climate conditions)	-22	-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	2	TOL	°C
Heating water operating limit temperature		55	55	55	55	55	WTOL	°C
Power consumption in other mode than active								
Off mode		0,021	0,021	0,021	0,021	0,021	POFF	kW
Thermostat off mode		0,008	0,008	0,008	0,008	0,008	PTO	kW
Standby mode		0,021	0,021	0,021	0,021	0,021	PSB	kW
Crancase heater mode		0,000	0,000	0,000	0,000	0,000	PCK	kW
Supplementary heater								
Rated heat output	(average climate conditions)	0,0	0,0	0,0	0,0	0,0	Psup	kW
Rated heat output	(colder climate conditions)	0,0	0,0	0,0	0,0	0,0	Psup	kW
Rated heat output	(warmer climate conditions)	0,0	0,0	0,0	0,0	0,0	Psup	kW
Rated heat output	(low temperature applications average climate conditions)	0,0	0,0	0,0	0,0	0,0	Psup	kW
Rated heat output	(low temperature applications colder climate conditions)	0,0	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	0,0	Psup	kW
Type of energy input		Electrical	Electrical	Electrical	Electrical	Electrical		
Other items								
Capacity control		Capacity controlled	Capacity controlled	Capacity controlled	Capacity controlled	Capacity controlled		
Sound power levels outdoors		61	63	66	63	66	LWA	dB
Annual energy consumption	(average climate conditions)	2089	2778	4836	2171	4836	QHE	kWh
Annual energy consumption	(colder climate conditions)	3055	4200	7458	3883	7458	QHE	kWh
Annual energy consumption	(warmer climate conditions)	1620	2184	3487	2003	3487	QHE	kWh
Annual energy consumption	(low temperature applications average climate conditions)	1538	2201	3955	1762	3955	QHE	kWh
Annual energy consumption	(low temperature applications colder climate conditions)	2270	3264	6863	3015	6863	QHE	kWh
Annual energy consumption	(low temperature applications warmer climate conditions)	1148	1529	3540	1702	3540	QHE	kWh
For air-to-water heat pumps: Rated air flow rate, outdoors	(average climate conditions)	3060	3960	7080	3960	7080		m3/h
For air-to-water heat pumps: Rated air flow rate, outdoors	(colder climate conditions)	3060	3960	7080	3960	7080		m3/h
For air-to-water heat pumps: Rated air flow rate, outdoors	(warmer climate conditions)	3060	3960	7080	3960	7080		m3/h
For air-to-water heat pumps: Rated air flow rate, outdoors	(low temperature applications average climate conditions)	3060	3960	7080	3960	7080		m3/h
For air-to-water heat pumps: Rated air flow rate, outdoors	(low temperature applications colder climate conditions)	3060	3960	7080	3960	7080		m3/h
For air-to-water heat pumps: Rated air flow rate, outdoors	(low temperature applications warmer climate conditions)	3060	3960	7080	3960	7080		m3/h
Possibility to run only during off peak hours		Yes	Yes	Yes	Yes	Yes		
For heat pump combination heater:								
Declared load profile (average conditions)		XL	XL	XL	XL	XL		

control packages		086L4548	086L4549	086L4552		086L4572		
Model	Conditions	iTec 5	iTec 9 SP	iTec 16 SP	iTec 9	iTec 16	Symbol	Unit
Declared load profile cold conditions		XL	XL	XL	XL	XL		
Declared load profile warmer conditons		XL	XL	XL	XL	XL		
Daily electricity consumption (average conditions)		7,200	8,690	9,640	8,680	9,640	Qelec	kWh
Daily electricity consumption cold conditions		11,550	12,270	12,620	12,310	12,620	Qelec	kWh
Daily electricity consumption warmer conditons		6,490	7,350	8,650	7,360	8,650	Qelec	kWh
Annual electricity consumption (average conditions)		1510	1839	2050	1837	2050	AEC	kWh/annum
Annual electricity consumption (cold conditions)		2439	2599	2676	2605	2676	AEC	kWh/annum
Annual electricity consumption (warmer conditions)		1371	1559	1845	1558	1845	AEC	kWh/annum
Water heater energy efficiency		108	89	80	89	80	ηwh	%
Water heater energy efficiency cold conditions		67	63	61	63	61	ηwh	%
Water heater energy efficiency warmer conditons		119	105	89	105	89	ηwh	%
Energy label water heater		A	A	A	A	A		