



# Technical Data

## CTC Product catalogue



## Speed-controlled heat pumps for ground source, lake or geothermal heating with DHW

<b>CTC GSi (400V / 230V)</b>		<b>608</b>	<b>612</b>	<b>616</b>	<b>12 (230V)</b>
Weight	kg	275	275	278	252
Dimensions (depth x width x height)	mm	673 x 596 x 1876			673 x 596 x 1910
Required ceiling height	mm	1940			1940
Electrical Data, connection		400V 3N~ 50Hz			230V 1N~ 50Hz
Energy efficiency class in heating system @ 35/55 °C (A+++ to G)		A+++ / A+++			A+++ / A+++
Energy efficiency class @ 35/55 °C (A+++ to D)		A+++ / A+++			A++ / A++
Energy efficiency class – DHW (A+ to F)/ charge profile (EN16147)		A / XL			A / XL
DHW performance $V_{40}$ @ Economy/ Normal/ Comfort (EN 16147)	litres	210 / 235 / 304			210 / 235 / 304
Output range immersion heater	kW	0.3 - 5.8	0.3 - 9		0.3 - 5.5
Max. immersion heater output @ group fuse 10/13/16/20/25 A	kW	2.1 / 2.1 / 2.9 / 5.8 / 5.8	0.3 / 0.9 / 2.1 / 7.2 / 9	- / 0.3 / 0.9 / 2.1 / 9*	-
Max. immersion heater output @ group fuse 32/35/50/63 A	kW	-	-	-	0.9/ 2.3/ 5.5/ 5.5
Output range min. – max	kW	2.5 - 7.7	2.5 - 11.8	4 - 16	1.6 - 12.5
Specified output W35 & B0/5/10 @ 50 rps (EN14511)	kW	4.78 / 5.62 / 6.45	4.78 / 5.62 / 6.45	4.5 / 5.07 / 5.46	5.75 / 5.46 / 5.22
COP W35 & B0/5/10 @ 50 rps (EN14511)		5.62 / 4.26 / 3.57	5.62 / 4.26 / 3.57	5.07 / 3.87 / 3.14	4.49 / 3.49 / 2.79
SCOP cold climate @ 0/35   0/55		5.5 / 4.3	5.5 / 4.3	5.5 / 4.2	5.3 / 4.0
SCOP moderate climate @ 0/35   0/55		5.4 / 4.1	5.4 / 4.1	5.2 / 4.0	5.1 / 3.9
Refrigerant quantity (R407C, GWP 1774)	kg	2.4	2.4	2.2	2.3
Sound power $L_{WA}$ @ 0/35   0/55 (EN12102)	dB(A)	34 / 34	39 / 41	36 / 40	38 / 43

\* Max. 6 kW electric heater output in combination with compressor operation.

## Heat pumps for ground source, lake or geothermal heating with DHW

<b>CTC GS (400V)</b>		<b>606</b>	<b>608</b>	<b>606 (230V)</b>	<b>608 (230V)</b>
Weight	kg	254	252	256	254
Dimensions (depth x width x height)	mm	673 x 596 x 1876			673 x 596 x 1876
Required ceiling height	mm	1940			1940
Electrical Data, connection		400V 3N~ 50Hz			230V 1N~ 50Hz
Energy efficiency class in heating system @ 35/55 °C (A+++ to G)		A+++ / A++	A+++ / A+++	A+++ / A++	A+++ / A+++
Energy efficiency class @ 35/55 °C (A+++ to D)		A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++
Energy efficiency class – DHW (A+ to F)/ charge profile (EN16147)		A / XL	A / XL	A / XL	A / XL
DHW performance $V_{40}$ @ Economy/ Normal/ Comfort (EN 16147)	litres	210 / 239 / 304			210 / 239 / 304
Output range immersion heater	kW	0.3 - 9			0.3 - 5.5
Max. immersion heater output @ group fuse 10/13/16/20/25 A	kW	2.1 / 2.1 / 6.9 / 9 / 9	0.9 / 2.1 / 6.9 / 7.8 / 9	0.9 / 2.6 / 3.2 / 4.9 / 5.5 / 5.5	0.3 / 0.9 / 3.2 / 3.2 / 5.5 / 5.5
Specified output: W35 & B0/5/10 (EN14511)	kW	6.04 / 6.8 / 7.54	8.29 / 9.52 / 10.9	6.04 / 6.8 / 7.54	8.29 / 9.52 / 10.9
COP: W35 & B0/5/10 (EN14511)		4.52 / 5.11 / 5.36	4.77 / 5.4 / 5.93	4.52 / 5.11 / 5.36	4.77 / 5.4 / 5.93
SCOP cold climate @ 0/35   0/55		4.8 / 3.8	5.0 / 4.0	4.8 / 3.8	5.0 / 4.0
SCOP moderate climate @ 0/35   0/55		4.7 / 3.7	5.0 / 3.9	4.7 / 3.7	5.0 / 3.9
Refrigerant quantity (R407C, GWP 1774)	kg	1.9	1.9	1.9	1.9
Sound power $L_{WA}$ @ 0/55 (EN12102)	dB(A)	41	39	41	39

## Heat pumps for ground source, lake or geothermal heating with DHW

<b>CTC EcoHeat (400V)</b>		<b>406 / Inox</b>	<b>408 / Inox</b>	<b>410 / Inox</b>	<b>412 / Inox</b>
Weight	kg	273 / 262	274 / 263	278 / 267	291 / 280
Dimensions (depth x width x height)	mm	673 x 596 x 1904			
Required ceiling height	mm	1925			
Electrical Data, connection		400V 3N~ 50 Hz			
Energy efficiency class in heating system @ 35/55 °C (A+++ to G)		A++ / A+	A++ / A++	A++ / A++	A++ / A++
Energy efficiency class @ 35/55 °C (A+++ to D)		A++ / A+	A++ / A++	A++ / A++	A++ / A+
Energy efficiency class – DHW (A+ to F)/ charge profile (EN16147)		A / L	A / L	A / L	A / L
Output range immersion heater	kW	0.3 - 9.0			
Max. immersion heater output @ group fuse 16/20/25 A	kW	6.0 / 9.0 / 9.0	5.1 / 8.4 / 9.0	4.5 / 7.5 / 9.0	3.6 / 6.9 / 9.0
Max. immersion heater output @ group fuse 32/35/50/63 A	kW	-	-	-	-
Specified output @ W35 & B0/B5 (EN14511)	kW	5.9 / 6.81	8.19 / 9.44	9.97 / 11.42	11.75 / 13.53
COP @ W35 & B0/B5 (EN14511)		4.57 / 5.24	4.58 / 5.02	4.60 / 5.20	4.60 / 5.11
SCOP cold climate @ 0/35   0/55		4.3/3.3	4.2/3.4	4.2/3.4	4.1/3.3
SCOP moderate climate @ 0/35   0/55		4.3/3.2	4.2/3.3	4.1/3.3	4.1/3.3
Refrigerant quantity (R407C, GWP 1774)	kg	1.9	1.9	1.9	2.3
Sound power L <sub>WA</sub> @ 0/55 (EN12102)	dB(A)	43	46	49	50

<b>CTC EcoHeat (230V)</b>		<b>406</b>	<b>408</b>	<b>410</b>	<b>412</b>
Weight	kg	282	270	272	279
Dimensions (depth x width x height)	mm	673 x 596 x 1904			
Required ceiling height	mm	1925			
Electrical Data, connection		230V 1N~ 50 Hz			
Energy efficiency class in heating system @ 35/55 °C (A+++ to G)		A++ / A+	A++ / A++	A++ / A++	A++ / A++
Energy efficiency class @ 35/55 °C (A+++ to D)		A++ / A+	A++ / A++	A++ / A++	A++ / A+
Energy efficiency class – DHW (A+ to F)/ charge profile (EN16147)		A / L	A / L	A / L	A / L
Output range immersion heater	kW	0.3 - 9.0			
Max. immersion heater output @ group fuse 16/20/25 A	kW	- / 1.8 / 3.0	- / 0.9 / 1.8	- / - / 1.2	- / -/0.6
Max. immersion heater output @ group fuse 32/35/50/63 A	kW	4.5/5.1/8.7/9	3.6/4.2/7.8/9	3.0/3.6/6.9/9	2.1/2.7/6.3/9
Specified output @ W35 & B0/B5 (EN14511)	kW	5.9 / 6.81	8.19 / 9.44	9.97 / 11.42	11.75 / 13.53
COP @ W35 & B0/B5 (EN14511)		4.57 / 5.24	4.58 / 5.02	4.60 / 5.20	4.60 / 5.11
SCOP cold climate @ 0/35   0/55		4.3/3.3	4.2/3.4	4.2/3.4	4.1/3.3
SCOP moderate climate @ 0/35   0/55		4.2/3.2	4.2/3.3	4.1/3.3	4.1/3.3
Refrigerant quantity (R407C, GWP 1774)	kg	1.9	1.9	1.9	2.3
Sound power L <sub>WA</sub> @ 0/55 (EN12102)	dB(A)	45	44	49	48

## Compact heat pumps for ground source, lake or geothermal heating

<b>CTC EcoPart (400V)</b>		<b>406</b>	<b>408</b>	<b>410</b>	<b>412</b>
Weight	kg	148	145	151	165
Dimensions (depth x width x height)	mm	673x596x775			
Electrical Data, connection		400V 3N~ 50Hz			
Energy efficiency class in heating system @ 35/55 °C (A+++ to G)		A+++ / A++			
Energy efficiency class @ 35/55 °C (A+++ to D)		A+++ / A++			
Specified output @ W35 & B0/B5 (EN14511)	kW	5.9 / 6.81	8.19 / 9.44	9.97 / 11.42	11.75 / 13.53
COP W35 & B0/B5 (EN14511)		4.57 / 5.24	4.58 / 5.02	4.60 / 5.20	4.60 / 5.11
SCOP cold climate @ 0/35   0/55		4.8 / 3.5	4.8 / 3.7	4.8 / 3.7	4.8 / 3.7
SCOP moderate climate @ 0/35   0/55		4.7 / 3.5	4.7 / 3.6	4.7 / 3.7	4.7 / 3.6
Refrigerant quantity (R407C, GWP 1774)	kg	2.1	2.1	2.1	2.5
Sound power L <sub>WA</sub> (EN 12102)	dB(A)	43.0	42.5	48.5	50.3

<b>CTC EcoPart (400V)</b>		<b>414</b>	<b>417</b>
Weight	kg	171	172
Dimensions (depth x width x height)	mm	673x596x775	
Electrical Data, connection		400V 3N~ 50Hz	
Energy efficiency class in heating system @ 35/55 °C (A+++ to G)		A+++ / A++	
Energy efficiency class @ 35/55 °C (A+++ to D)		A+++ / A++	
Specified output @ W35 & B0/B5 (EN14511)	kW	14.47 / 16.48	16.24 / 19.25
COP W35 & B0/B5 (EN14511)		4.54 / 5.13	4.36 / 5.02
SCOP cold climate @ 0/35   0/55		4.6 / 3.7	4.8 / 3.7
SCOP moderate climate @ 0/35   0/55		4.6 / 3.6	4.7 / 3.6
Refrigerant quantity (R407C, GWP 1774)	kg	2.9	2.9
Sound power L <sub>WA</sub> (EN 12102)	dB(A)	53	55.5

<b>CTC EcoPart (230V)</b>		<b>406</b>	<b>408</b>	<b>410</b>	<b>412</b>	<b>414</b>
Weight	kg	150	146	152	166	167
Dimensions (depth x width x height)	mm	673x596x775				
Electrical Data, connection		230V 1N~ 50Hz				
Energy efficiency class in heating system @ 35/55 °C (A+++ to G)		A+++ / A++				
Energy efficiency class @ 35/55 °C (A+++ to D)		A+++ / A++				
Specified output @ W35 & B0/B5 (EN14511)	kW	5.9 / 6.81	8.19 / 9.44	9.97 / 11.42	11.75 / 13.53	14.47 / 16.48
COP W35 & B0/B5 (EN14511)		4.57 / 5.24	4.58 / 5.02	4.60 / 5.20	4.60 / 5.11	4.54 / 5.13
SCOP cold climate @ 0/35   0/55		4.8 / 3.5	4.8 / 3.7	4.7 / 3.7	4.8 / 3.7	4.6 / 3.7
SCOP moderate climate @ 0/35   0/55		4.7 / 3.5	4.7 / 3.6	4.7 / 3.7	4.7 / 3.6	4.6 / 3.6
Refrigerant quantity (R407C, GWP 1774)	kg	2.1	2.1	2.1	2.5	2.9
Sound power L <sub>WA</sub> (EN 12102)	dB(A)	43	42.5	48.5	50.3	53

## Speed-controlled compact heat pumps for ground source, lake or geothermal heating

CTC EcoPart (400V)		612M	616M
Weight	kg	170	172
Dimensions (depth x width x height)	mm	673 x 596 x 1760	
Electrical Data, connection		400V 3N~ 50Hz	
Energy efficiency class in heating system @ 35/55 °C (A+++ to G)		A+++ / A+++	
Energy efficiency class @ 35/55 °C (A+++ to D)		A+++ / A+++	
Output range min. – max	kW	2.5 - 11.8	4 - 16
Specified output @ 0/35   0/45   0/55 (EN14511) @ 50 rps	kW	6.08 /7.10 /8.10	10.52 /12.26 /13.95
COP 0/35   0/45   0/55 (EN14511) @ 50 rps		4.78 /5.62 /6.45	4.5 /5.07 /5.46
SCOP cold climate @ 0/35   0/55		5.5 / 4.3	5.5 / 4.2
SCOP moderate climate @ 0/35   0/55		5.4 / 4.1	5.2 / 4.0
Refrigerant quantity (R407C, GWP 1774)	kg	2.4	2.2
Sound power L <sub>WA</sub> (EN 12102)	dB(A)	39	36

## Compact heat pumps for ground source, lake or geothermal heating with built in control

CTC EcoPart Pro/Basic (400V)		425	430	435
Cooling module (bottom/top)		417 + 408	417 + 412	417 + 417
Integrated control system model: Pro / Basic		EcoLogic Pro / Basic display		
Weight: Pro / Basic	kg	328 / 323	346 / 344	352 / 349
Dimensions (depth x width x height)	mm	673 x 596 x 1760		
Electrical Data, connection		400V 3N~ 50Hz		
Energy efficiency class in heating system @ 35/55 °C (A+++ to G)		A+++ / A++		
Energy efficiency class @ 35/55 °C (A+++ to D)		A+++ / A++		
Specified output @ W35 & B0/B5 (EN14511)	kW	24.43 /28.66	27.99 /32.78	32.48 /38.50
COP @ W35 & B0/B5 (EN14511) (Cooling module bottom)		4.43 /5.01	4.46 /5.05	4.37 /5.03
COP @ W35 & B0/B5 (EN14511) (Cooling module top)		4.8 / 3.7	4.6 / 3.7	4.8 / 3.7
SCOP cold climate @ 0/35   0/55		4.8 / 3.7	4.6 / 3.6	4.7 / 3.6
SCOP moderate climate @ 0/35   0/55		2.7 + 1.9	2.7 + 2.3	2.7 + 2.7
Refrigerant quantity (R407C, GWP 1774)	kg	45.6	45.4	45.6
Sound power L <sub>WA</sub> (EN 12102)	dB(A)			

CTC EcoPart Pro/Basic (230V)		425	430
Cooling module (bottom/top)		414 + 410	414 + 414
Integrated control system model: Pro / Basic		EcoLogic Pro / Basic display	
Weight: Pro / Basic	kg	339 / 334	357 / 355
Dimensions (depth x width x height)	mm	673 x 596 x 1760	
Electrical Data, connection		230V 1N~ 50Hz	
Energy efficiency class in heating system @ 35/55 °C (A+++ to G)		A+++ / A++	
Energy efficiency class @ 35/55 °C (A+++ to D)		A+++ / A++	
Specified output @ W35 & B0/B5 (EN14511)	kW	24.44 /27.90	28.94 /32.96
COP @ W35 & B0/B5 (EN14511) (Cooling module bottom)		4.56 /5.16	4.54 /5.13
COP @ W35 & B0/B5 (EN14511) (Cooling module top)		4.8 / 3.7	4.6 / 3.7
SCOP cold climate @ 0/35   0/55		4.8 / 3.7	4.6 / 3.6
SCOP moderate climate @ 0/35   0/55		2.7 + 1.9	2.7 + 2.7
Refrigerant quantity (R407C, GWP 1774)	kg	45.6	45.4
Sound power L <sub>WA</sub> (EN 12102)	dB(A)		

## Air-to-water heat pumps

<b>CTC EcoAir (400V)</b>		<b>406</b>	<b>408</b>	<b>410</b>	<b>415</b>	<b>420</b>
Weight	kg	130	150	180	187	190
Dimensions (depth x width x height)	mm	545 x 1245 x 1080		645 x 1375 x 1180		
Electrical Data, connection		400V 3N~ 50Hz				
Rated current	A	4.0	4.9	7.5	10.0	11.8
Energy efficiency class in heating system @ 35/55 °C (A+++ to G)		A++ / A+	A++ / A+	A++ / A++	A++ / A+	A+ / A+
Energy efficiency class @ 35/55 °C (A+++ to D)		A++ / A+	A++ / A+	A++ / A+	A++ / A+	A+ / A+
Specified output @ °C W 35 & A +7/+2/-7 (EN14511)	kW	6.2/4.8/3.8	7.8/6.0/4.7	11.5/8.8/7.3	15.9/12.0/10.0	17.6/13.9/11.5
COP @ °C W 35 & A +7/+2/-7 (EN14511)		4.78/3.69/3.10	4.83/3.76/3.02	4.86/3.83/3.19	4.76/3.57/3.03	4.62/3.54/3.02
SCOP moderate climate @ 0/35   0/55		3.9 / 3.0	3.9 / 3.0	3.9 / 3.1	3.8 / 3.1	3.7 / 3.0
SCOP cold climate @ 0/35   0/55		3.5 / 2.7	3.4 / 2.7	3.5 / 2.8	3.3 / 2.8	3.3 / 2.8
Refrigerant quantity (R407C, GWP 1774)	kg	2.2	2.2	2.7	3.4	3.5
Airflow rate / silent mode	m3/h	2500	2800	4100	5400 / 4000	6200 / 5400
Sound power L <sub>WA</sub> /silent mode @ A7 W35 (EN12102)	dB(A)	56	58	58	64 / 61	66 / 64
Sound pressure L <sub>pA</sub> /silent mode 5 m @ A7 W35	dB(A)	37	39	39	45 / 42	47 / 45
Sound pressure L <sub>pA</sub> /silent mode 10 m @ A7 W35	dB(A)	31	33	33	39 / 36	41 / 39

<b>CTC EcoAir (230V)</b>		<b>406</b>	<b>408</b>	<b>410</b>
Weight	kg	130	150	180
Dimensions (depth x width x height)	mm	545 x 1245 x 1080		645 x 1375 x 1180
Electrical Data, connection		230V 1N~ 50Hz		
Rated current	A	10.3	12.4	18.8
Energy efficiency class in heating system @ 35/55 °C (A+++ to G)		A++ / A+	A++ / A+	A++ / A+
Energy efficiency class @ 35/55 °C (A+++ to D)		A++ / A+	A++ / A+	A++ / A+
Specified output @ W 35 °C and A +7/+2/-7	kW	6.2/4.8/3.8	7.8/6.0/4.7	11.5/8.8/7.3
COP @ W 35 °C and A +7/+2/-7		4.78/3.69/3.10	4.83/3.76/3.02	4.86/3.83/3.19
SCOP moderate climate @ 0/35   0/55		3.9 / 3.0	3.9 / 3.0	3.9 / 3.1
SCOP cold climate @ 0/35   0/55		3.5 / 2.7	3.4 / 2.7	3.5 / 2.8
Refrigerant quantity (R407C, GWP 1774)	kg	2.2	2.2	2.7
Airflow rate / silent mode	m3/h	2500	2800	4100
Sound power L <sub>WA</sub> /silent mode @ A7 W35 (EN12102)	dB(A)	56	58	58
Sound pressure* L <sub>pA</sub> 5 m /silent mode @ A7 W35	dB(A)	37	39	39
Sound pressure* L <sub>pA</sub> 10 m /silent mode @ A7 W35	dB(A)	28-31	30-33	30-33

## Speed-controlled air-to-water heat pumps

<b>CTC EcoAir (230V)</b>		<b>510M</b>
Weight	kg	119
Dimensions (depth x width x height)	mm	545 x 1245 x 1080
Electrical Data, connection		230V 1N~ 50Hz
Rated current (with speed limiter in control unit)	A	20.8
Energy efficiency class in heating system @ 35/55 °C (A+++ to G)		A+++ / A++
Energy efficiency class @ 35/55 °C (A+++ to D)		A+++ / A++
Specified output @ W 35 & A +7 @ min. rps / A -7 @ max. rps (EN14511)	kW	2.52 / 6.60
Output range min. – max.	kW	2 - 10
COP @ W 35 & A +7 @ min. rps / A -7 @ max. rps (EN14511)		4.67 / 2.73
SCOP moderate climate 35/55 °C (EN14825)		4.3 / 3.2
SCOP cold climate 35/55 °C (EN14825)		3.9 / 3.0
Refrigerant quantity (R410A, GWP 2088)	kg	2.8
Airflow, max.	m3/h	3800
Sound power L <sub>WA</sub> @ A7 W35 (EN12102)	dB(A)	56
Sound pressure L <sub>pA</sub> 5 m @ A7 W35	dB(A)	37
Sound pressure L <sub>pA</sub> 10 m @ A7 W35	dB(A)	31

## Speed-controlled air-to-water heat pumps

<b>CTC EcoAir (400V)</b>		<b>610M</b>	<b>614M</b>	<b>622M</b>
Weight	kg	174	174	192
Dimensions (depth x width x height)	mm	545 x 1245 x 1080		645 x 1375 x 1180
Electrical Data, connection		400V 3N~ 50Hz		
Rated current (with speed limiter in control unit)	A	7.1 / 6.6	10.2 / 9.4	16.9 / 15.5
Energy efficiency class in heating system @ 35/55 °C (A+++ to G)		A+++ / A++	A+++ / A+++	A+++ / A+++
Energy efficiency class @ 35/55 °C (A+++ to D)		A+++ / A++	A+++ / A++	A+++ / A++
Specified output @ W 35 & A +7 @ min. rps / A -7 @ max. rps (EN14511)	kW	2.55 / 6.20	2.55 / 8.69	4.75 / 13.99
Output range min. – max.	kW	2.5 - 10	2.5 - 14	4.5 - 22
COP @ W 35 & A +7 @ min. rps / A -7 @ max. rps (EN14511)		4.71 / 2.82	4.71 / 2.21	5.07 / 2.32
SCOP moderate climate 35/55 °C (EN14825)		4.8 / 3.6	4.9 / 3.8	4.9 / 3.8
SCOP cold climate 35/55 °C (EN14825)		3.8 / 3.2	3.9 / 3.1	4.3 / 3.5
Refrigerant quantity (R407C, GWP 1774)	kg	2.2	2.2	2.7
Airflow, maximum	m <sup>3</sup> /h	3129	3129	5457
Sound power L <sub>WA</sub> @ A7 & W35/55 according to EN12102 (appendix A.4)	dB(A)	53 / 53	51 / 52	55 / 55
Sound pressure L <sub>pA</sub> 5 m (@ A7 & W35/W55)	dB(A)	34 / 34	32 / 33	36 / 36
Sound pressure L <sub>pA</sub> 10 m (@ A7 & W35/W55)	dB(A)	28 / 28	26 / 27	30 / 30

## Indoor modules with heat pump control and DHW

<b>CTC EcoZenith (400V / 230V)</b>		<b>i255 L / Inox</b>	<b>i255 H</b>	<b>i255 L (230V)</b>
Weight	kg	165 / 154	182	167
Dimensions (depth x width x height)	mm	673x596x1652	673x596x1886	673x596x1652
Required ceiling height	mm	1659	1901	1659
Electrical Data, connection		400V 3N~ 50Hz		230V 1N~ 50Hz
Output range immersion heater (with optional addition)	kW	0.3-9 + 0.3-6 (0.3-9 + 0.3-9)		3-12
Maximum immersion heater output @ Group fuse 16/20/25/32/50 A	kW	3+6 / 6+6 / 9+6 / - / -		- / - / - / 6 / 9 / 12
Energy efficiency class in heating system* @ 35/55 °C		A++ / A++		A++ / A++
Energy efficiency class DHW* (A+ to F)/ charge profile (EN16147)		B / L		B / L
DHW performance V <sub>40</sub> (EN 16147)	litres	>200		>200

<b>CTC EcoZenith (400V / 230V)</b>		<b>i555 Pro</b>	<b>i555 Pro (230V)</b>
Weight	kg	260	260
Dimensions (depth x width x height)	mm	1067 x 886 x 1700	1067 x 886 x 1700
Required ceiling height	mm	1950	1950
Electrical Data, connection		400V 3N~ 50Hz	230V 1N~ 50Hz
Output range immersion heater, upper (optional addition)	kW	0.3-9 (+ 0.3-9)	0.3-9
Output range immersion heater, lower	kW	3-9	3-9
Energy efficiency class in heating system* @ 35/55 °C (A+++ to G)		A++ / A+	A++ / A+
Energy efficiency class		A / XXL	A / XXL
Energy efficiency class DHW* (A+ to F)/ charge profile (EN16147)		>600	>600
DHW performance V <sub>40</sub> (EN 16147)	litres		

## Indoor modules with heat pump control and DHW

CTC EcoZenith (400V / 230V)		i360 L	i360 H	i360 L (230V)
Weight	kg	143	155	143
Dimensions (depth x width x height)	mm	673x596x1657	673x596x1867	673x596x1657
Required ceiling height	mm	1669	1928	1669
Electrical Data, connection		400V 3N~ 50Hz		230V 1N~ 50Hz
Output range immersion heater	kW	0.5-11.9		0.3-9.0
Maximum immersion heater output @ Group fuse 16/20/25/32/50 A	kW	8.9 / 11.9 / 11.9 / - / -		2.9 / 4.6 / 5.8 / 7.5 / 9
Energy efficiency class in heating system* @ 35/55 °C (A+++ to G)		A+++ / A++		A+++ / A++
Energy efficiency class DHW* (A+ to F)/ charge profile (EN16147)		A / XL		A / XL
DHW performance $V_{40}$ @ Economy/Normal/Comfort (EN 16147)	litres	210 / 235 / 304		210 / 235 / 304

## Indoor module with heat pump control, DHW and ventilation

CTC EcoVent (400V)		i360F	+ CTC EcoAir 406	+ CTC EcoAir 408	+ CTC EcoAir 614M
Weight	kg	184	120	126	174
Dimensions (depth x width x height)	mm	673 x 596 x 2223	545 x 1245 x 1080		
Electrical Data, connection		400V 3N~ 50Hz	400V 3N~ 50Hz		
Output range (@ W 35 °C & A +7/+2/-7)* / (minimum – maximum)**	kW	-	6.2 / 4.8 / 3.8*	7.8 / 6.0 / 4.7*	2.5 - 14**
Maximum immersion heater output @ Group fuse 16/20/25 A		8.9 / 11.9 / 11.9	-		
Output range immersion heater	kW	0.5-11.9	-		
Energy efficiency class in heating system* @ 35/55 °C (A+++ to G)		se VP	A++ / A+		A+++ / A++
Energy efficiency class DHW* (A+ to F)/ charge profile (EN16147)		A / XL	-		
DHW performance ( $V_{40}$ ) (Volume 40 °C @ Economy/Normal/Comfort EN 16147)	liter	210 / 235 / 304	-		

Ventilation			
Specific energy usage class (EU) No 1254 / Annex II		B	
Specific energy use (SEC) @ cold/medium/hot climate	kWh/m²/år	-54.4 / -27.4 / -11.9	
Airflow ventilation (min/reference/max)	l/s	28 / 56 / 80	
Maximum flow	l/s (m³/h)	80 (288)	
Reference Flow (SEC), (EU) No. 1254	l/s (m³/s)	56 (0.056)	
Sound power @ maximum flow / reference flow ( $L_{WA}$ )	dB(A)	42 / 35	

## Advanced heat pump control for heating systems

Control of:	CTC EcoLogic L	CTC EcoLogic M
Heat pump 1-2	x	x
Heat pump 3-10	x	
Heating system 1-2	x	x
Heating system 3-4	x	
Solar heating	x	
Pool	x	
Cooling	x	
Hot water circulation	x	
Ventilation	x	x



## Ultra-efficient hot water heaters for nearly all needs

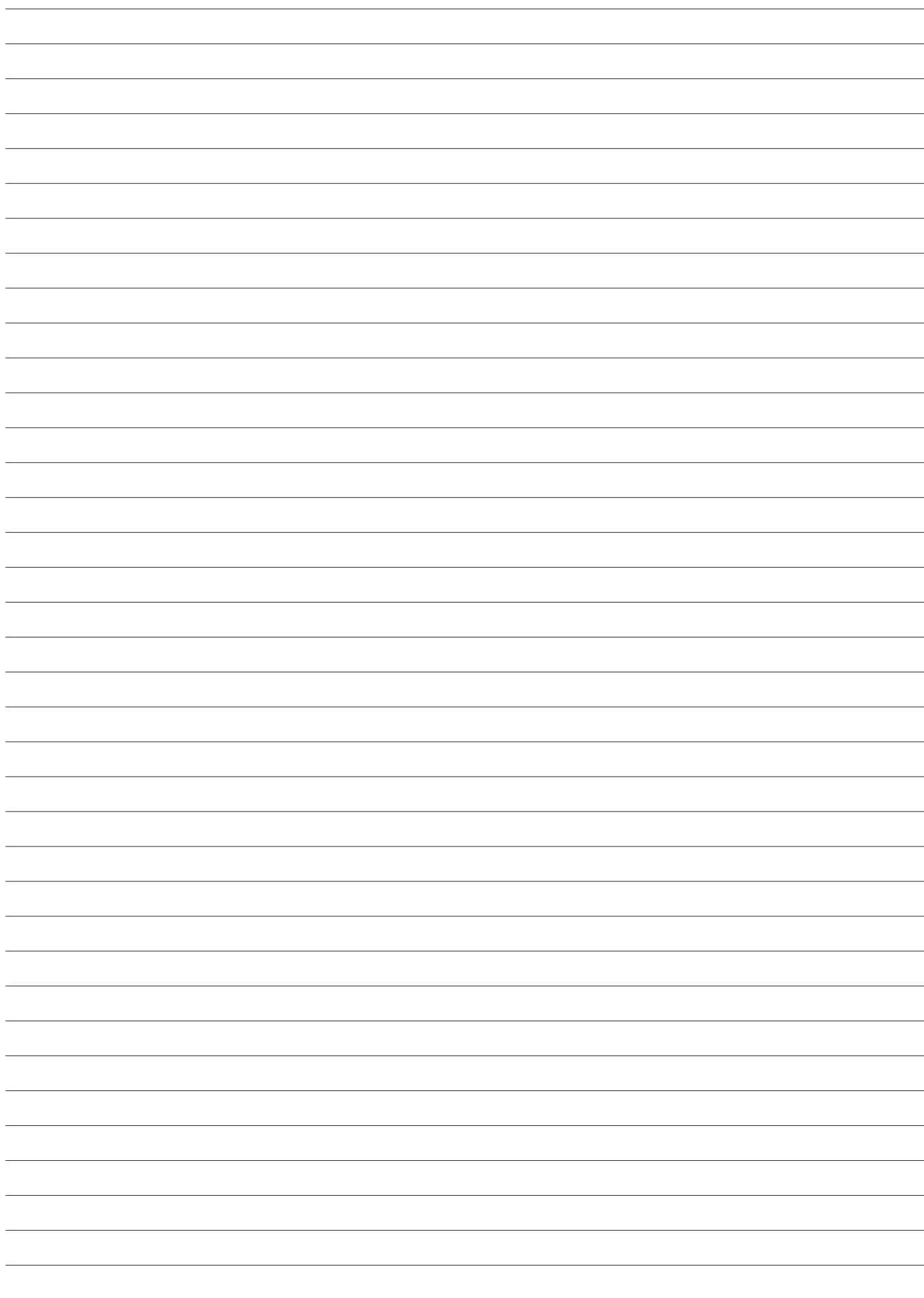
<b>CTC Brilliant (400V / 230V)</b>		<b>60</b> (230V)	<b>110</b> (230V)	<b>200</b>	<b>300</b>
Type		Wall mounted		Floor standing	
Weight	kg	20	38	66	84
Dimensions (depth x width x height)	mm	458x444x730	458x444x1120	620x596x1486	620x596x1872
Electrical data		1x230V 50/60 Hz		2x400V 50/60Hz	
Immersion heater 1" 230V Immersion length: 317 mm	kW	2		-	
Immersion heater 1" 400V Immersion length: 445mm	kW	-		3	
Tank volume - DHW	litres	56	100	190	282
Max. operating pressure	bar	10			
Ingress protection class		IP 22		IP 44	
Load profile - DHW (EN16147)		M	M	XL	XL
Energy efficiency class - DHW (A+ to F, EN16147)		C	B	C	C
DHW performance $V_{40}$ (EN 16147)	litres	71	146	281	392
Energy efficiency DHW $\eta_{WH}$	%	38.6	39.0	39.1	38.9
Annual energy consumption [AEC]	kWh	1331	1318	4282	4473
Sound power indoors $L_{WA}$	dB	15			

## Coil tanks and volume tanks of 300-750 litres

<b>CTC Hot Water Storage Tanks</b>		<b>300</b>	<b>300/20</b>	<b>500</b>	<b>500/25</b>
Weight	kg	91	116	113	138
Dimensions (depth x width x height)	mm	634x600x1575		696x695x1750	
Supply / Return heat source		DN32 (1 ¼")		DN50 (2")	
Supply / Return heating system		DN32 (1 ¼")		DN50 (2")	
Immersion heater outlet		DN50 (2")			
Connection thermometer		DN20 (¾")			
Hot water coil connection	mm	-	Ø22	-	Ø22
Water volume tap water system / heating system		- / 300	4.5 / 292.5	500	5 / 490.5
Energy efficiency class tank (A + to F, EN16147)		C			
Sound effect indoors $L_{WA}$	dB	15			

<b>CTC Hot Water Storage Tanks</b>		<b>500/50</b>	<b>750</b>	<b>750/50</b>	<b>750/75</b>
Weight	kg	163	120	166	191
Dimensions (depth x width x height)	mm	696x695x1750	Ø960 x 1845		
Supply / Return heat source		DN32 (1 ¼")	DN50 (2")		
Supply / Return heating system		DN32 (1 ¼")			
Immersion heater outlet		DN50 (2")			
Connection thermometer			DN20 (¾")		
Hot water coil connection	mm	-	Ø22	-	Ø22
Water volume tap water system / heating system		11.3 / 481	- / 750	11.3 / 731	16.9 / 721.5
Energy efficiency class tank (A + to F, EN16147)		C			
Sound effect indoors $L_{WA}$	dB	15			





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