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Summary of	CTA Aeroheat CM 18a	Reg. No.	012-SC0321-18
Certificate Holder	-		-
Name	Enertech CTC AB		
Address	Box 309, Näsvägen	Zip	SE-381 26
City	Ljungby	Country	Sweden
Certification Body	RISE CERT		·
Name of testing laboratory	DTI		
Subtype title	CTA Aeroheat CM 18a		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R407c		
Mass Of Refrigerant	2.7 kg		



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## **Model: CTA Aeroheat CM 18a**

General Data	
Power supply	3x400V 50Hz

### Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	11.38 kW	9.35 kW	
El input	2.25 kW	2.84 kW	
СОР	5.06	3.29	
Indoor water flow rate	1.94 m³/h	1.01 m³/h	

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

### **Average Climate**



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EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825		
	Low temperate	ure Medium temperature
$\eta_{s}$	193 %	147 %
Prated	8.50 kW	8.50 kW
SCOP	4.92	3.77
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.76 kW	7.52 kW
COP Tj = -7°C	3.53	2.41
Pdh Tj = +2°C	4.49 kW	4.61 kW
COP Tj = +2°C	4.97	3.81
Pdh Tj = +7°C	4.81 kW	4.72 kW
COP Tj = +7°C	5.94	4.76
Pdh Tj = 12°C	5.56 kW	5.55 kW
COP Tj = 12°C	7.35	6.15
Pdh Tj = Tbiv	8.75 kW	8.66 kW
COP Tj = Tbiv	3.04	1.99

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	-	
Pdh Tj = TOL	8.75 kW	8.66 kW
COP Tj = TOL	3.04	1.99
Cdh	0.98	0.99
WTOL	65 °C	65 °C
Poff	12 W	12 W
РТО	12 W	12 W
PSB	12 W	12 W
PCK	o w	o w
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	3567 kWh	4656 kWh

#### Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{S}$	167 %	136 %
Prated	12.50 kW	11.50 kW





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TDiv	SCOP	4.26	3.47
Pdh Tj = -7°C	Tbiv	-17 °C	-18 °C
COP Tj = -7°C 3.67 2.91  Pdh Tj = +2°C 4.70 kW 4.63 kW  COP Tj = +2°C 5.49 4.53  Pdh Tj = +7°C 4.87 kW 4.76 kW  COP Tj = +7°C 6.70 5.28  Pdh Tj = 12°C 5.58 kW 5.55 kW  COP Tj = 12°C 7.77 6.44  Pdh Tj = Tbiv 1.35 kW 10.87 kW  COP Tj = Tbiv 1.99 1.46  Pdh Tj = TOL 4.92 kW 4.57 kW  COP Tj = TOL 1.99 0.99  WTOL 65 °C 65 °C  Poff 12 W 12 W  PSB 12 W 12 W	TOL	-22 °C	-22 °C
Pdh Tj = +2°C       4.70 kW       4.63 kW         COP Tj = +2°C       5.49       4.53         Pdh Tj = +7°C       4.87 kW       4.76 kW         COP Tj = +7°C       6.70       5.28         Pdh Tj = 12°C       5.58 kW       5.55 kW         COP Tj = 12°C       7.77       6.44         Pdh Tj = Tbiv       11.35 kW       10.87 kW         COP Tj = Tbiv       1.99       1.46         Pdh Tj = TOL       4.92 kW       4.57 kW         COP Tj = TOL       1.99       1.51         Cdh       0.98       0.99         WTOL       65 °C       65 °C         Poff       12 W       12 W         PTO       12 W       12 W         PSB       12 W       12 W	Pdh Tj = -7°C	7.60 kW	7.29 kW
COP Tj = +2°C       5.49       4.53         Pdh Tj = +7°C       4.87 kW       4.76 kW         COP Tj = +7°C       6.70       5.28         Pdh Tj = 12°C       5.58 kW       5.55 kW         COP Tj = 12°C       7.77       6.44         Pdh Tj = Tbiv       11.35 kW       10.87 kW         COP Tj = Tbiv       1.99       1.46         Pdh Tj = TOL       4.92 kW       4.57 kW         COP Tj = TOL       1.99       1.51         Cdh       0.98       0.99         WTOL       65 °C       65 °C         Poff       12 W       12 W         PTO       12 W       12 W         PSB       12 W       12 W	$COP Tj = -7^{\circ}C$	3.67	2.91
Pdh Tj = +7°C       4.87 kW       4.76 kW         COP Tj = +7°C       6.70       5.28         Pdh Tj = 12°C       5.58 kW       5.55 kW         COP Tj = 12°C       7.77       6.44         Pdh Tj = Tbiv       11.35 kW       10.87 kW         COP Tj = Tbiv       1.99       1.46         Pdh Tj = TOL       4.92 kW       4.57 kW         COP Tj = TOL       1.99       1.51         Cdh       0.98       0.99         WTOL       65 °C       65 °C         Poff       12 W       12 W         PTO       12 W       12 W         PSB       12 W       12 W	Pdh Tj = $+2$ °C	4.70 kW	4.63 kW
COP Tj = +7°C	COP Tj = +2°C	5.49	4.53
Pdh Tj = 12°C       5.58 kW       5.55 kW         COP Tj = 12°C       7.77       6.44         Pdh Tj = Tbiv       11.35 kW       10.87 kW         COP Tj = Tbiv       1.99       1.46         Pdh Tj = TOL       4.92 kW       4.57 kW         COP Tj = TOL       1.99       1.51         Cdh       0.98       0.99         WTOL       65 °C       65 °C         Poff       12 W       12 W         PTO       12 W       12 W         PSB       12 W       12 W	Pdh Tj = $+7^{\circ}$ C	4.87 kW	4.76 kW
COP Tj = 12°C 7.77 6.44  Pdh Tj = Tbiv 11.35 kW 10.87 kW  COP Tj = Tbiv 1.99 1.46  Pdh Tj = TOL 4.92 kW 4.57 kW  COP Tj = TOL 1.99 1.51  Cdh 0.98 0.99  WTOL 65 °C 65 °C  Poff 12 W 12 W  PSB 12 W 12 W	COP Tj = +7°C	6.70	5.28
Pdh Tj = Tbiv       11.35 kW       10.87 kW         COP Tj = Tbiv       1.99       1.46         Pdh Tj = TOL       4.92 kW       4.57 kW         COP Tj = TOL       1.99       1.51         Cdh       0.98       0.99         WTOL       65 °C       65 °C         Poff       12 W       12 W         PTO       12 W       12 W         PSB       12 W       12 W	Pdh Tj = 12°C	5.58 kW	5.55 kW
COP Tj = Tbiv  1.99  1.46  Pdh Tj = TOL  4.92 kW  4.57 kW  COP Tj = TOL  1.99  1.51  Cdh  0.98  0.99  WTOL  65 °C  65 °C  Poff  12 W  12 W  PTO  12 W  12 W  PSB	COP Tj = 12°C	7.77	6.44
Pdh Tj = TOL       4.92 kW       4.57 kW         COP Tj = TOL       1.99       1.51         Cdh       0.98       0.99         WTOL       65 °C       65 °C         Poff       12 W       12 W         PTO       12 W       12 W         PSB       12 W       12 W	Pdh Tj = Tbiv	11.35 kW	10.87 kW
COP Tj = TOL       1.99       1.51         Cdh       0.98       0.99         WTOL       65 °C       65 °C         Poff       12 W       12 W         PTO       12 W       12 W         PSB       12 W       12 W	COP Tj = Tbiv	1.99	1.46
Cdh       0.98       0.99         WTOL       65 °C       65 °C         Poff       12 W       12 W         PTO       12 W       12 W         PSB       12 W       12 W	Pdh Tj = TOL	4.92 kW	4.57 kW
WTOL       65 °C       65 °C         Poff       12 W       12 W         PTO       12 W       12 W         PSB       12 W       12 W	COP Tj = TOL	1.99	1.51
Poff       12 W       12 W         PTO       12 W       12 W         PSB       12 W       12 W	Cdh	0.98	0.99
PTO 12 W 12 W 12 W 12 W	WTOL	65 °C	65 °C
PSB 12 W 12 W	Poff	12 W	12 W
	РТО	12 W	12 W
PCK 0.W	PSB	12 W	12 W
	PCK	o w	o w



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Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	12.50 kW	11.50 kW
Annual energy consumption Qhe	7225 kWh	8159 kWh