

Subtype AEROTOP T26 / T26R

Certificate Holder	ELCO GmbH
Address	Hohenzollernstrasse 31
ZIP	72379
City	Hechingen
Country	DE
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	AEROTOP T26 / T26R
Registration number	011-1W0301
Heat Pump Type	Outdoor Air/Water
Refrigerant	R407c
Mass of Refrigerant	7.4 kg
Certification Date	04.05.2019

Model AEROTOP T26		
Model name	AEROTOP T26	
Application	Heating (medium temp)	
Units	Indoor, Outdoor	
Climate zone (for heating)	Warmer Climate, Colder Climate	
Cooling mode application (optional)	n/a	
Any additional heat sources	n/a	
General data		
Power supply	3x230V 50Hz	
Off-peak product	n/a	
Outdoor Air/Water		
EN 14511-4 Heating		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	
EN 14511-2 Heating		
	Low temperature	Medium temperature
Heat output	31.00 kW	29.00 kW
El input	7.56 kW	10.74 kW
COP	4.10	2.70
EN 12102-1 Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	59 dB(A)	59 dB(A)
Sound power level outdoor	70 dB(A)	70 dB(A)
EN 14825 Average Climate		
	Low temperature	Medium temperature
η_s	144 %	113 %
Prated	19.00 kW	19.00 kW
SCOP	3.68	2.89
Tbiv	-10 °C	-10 °C
TOL	-20 °C	-10 °C
Pdh Tj = -7°C	20.06 kW	18.65 kW
COP Tj = -7°C	2.75	2.00
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	22.46 kW	22.24 kW
COP Tj = +2°C	3.53	2.70
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	31.80 kW	30.90 kW

COP Tj = +7°C	4.82	4.01
Cdh Tj = +7 °C	1.000	1.000
Pdh Tj = 12°C	35.28 kW	34.75 kW
COP Tj = 12°C	5.78	5.09
Cdh Tj = +12 °C	1.000	1.000
Pdh Tj = Tbiv	19.00 kW	17.90 kW
COP Tj = Tbiv	2.50	1.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	19.00 kW	17.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.80
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	57 °C	57 °C
Poff	0 W	0 W
PTO	10 W	10 W
PSB	10 W	10 W
PCK	80 W	80 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	10667 kWh	13781 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	59 dB(A)	59 dB(A)
Sound power level outdoor	70 dB(A)	70 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
η_s	133 %	93 %
Prated	21.00 kW	26.90 kW
SCOP	3.39	2.39
Tbiv	-15 °C	-10 °C
TOL	-20 °C	-10 °C
Pdh Tj = -7°C	20.37 kW	19.28 kW
COP Tj = -7°C	2.94	2.29
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	22.52 kW	22.33 kW
COP Tj = +2°C	3.74	3.03
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	32.00 kW	31.30 kW
COP Tj = +7°C	5.00	4.37
Cdh Tj = +7 °C	1.000	1.000
Pdh Tj = 12°C	35.28 kW	34.92 kW
COP Tj = 12°C	5.78	5.32
Cdh Tj = +12 °C	1.000	1.000

Pdh Tj = Tbiv	17.09 kW	18.40 kW
COP Tj = Tbiv	2.35	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	17.10 kW	18.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.33	2.13
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	57 °C	57 °C
Poff	0 W	0 W
PTO	10 W	10 W
PSB	10 W	10 W
PCK	80 W	80 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	21.00 kW	26.90 kW
Annual energy consumption Qhe	15206 kWh	29030 kWh
Pdh Tj = -15°C (if TOL	0.01	0.01
COP Tj = -15°C (if TOL	0.01	0.01
Cdh Tj = -15 °C	0.900	0.900

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	59 dB(A)	59 dB(A)
Sound power level outdoor	70 dB(A)	70 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η_s	180 %	120 %
Prated	22.37 kW	22.00 kW
SCOP	4.56	3.06
Tbiv	2 °C	2 °C
TOL	-10 °C	-10 °C
Pdh Tj = +2°C	22.37 kW	22.00 kW
COP Tj = +2°C	3.17	2.40
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	31.40 kW	29.90 kW
COP Tj = +7°C	4.46	3.22
Cdh Tj = +7 °C	1.000	1.000
Pdh Tj = 12°C	35.10 kW	34.39 kW
COP Tj = 12°C	5.55	2.19
Cdh Tj = +12 °C	1.000	1.000
Pdh Tj = Tbiv	22.37 kW	22.00 kW
COP Tj = Tbiv	3.17	2.40
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	22.37 kW	22.00 kW

COP $T_j = TOL$ or COP $T_j = T_{designh}$ if $TOL < T_{designh}$	3.17	2.40
$C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	1.000	1.000
WTOL	57 °C	57 °C
P _{off}	0 W	0 W
PTO	10 W	10 W
PSB	10 W	10 W
PCK	80 W	80 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q_{he}	7142 kWh	11470 kWh

Model AEROTOP T26R

Model name	AEROTOP T26R
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	31.00 kW	29.00 kW
El input	7.56 kW	10.74 kW
COP	4.10	2.70

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	59 dB(A)	59 dB(A)
Sound power level outdoor	68 dB(A)	68 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	148 %	115 %
Prated	19.00 kW	19.00 kW
SCOP	3.78	2.96
Tbiv	-10 °C	-10 °C
TOL	-20 °C	-10 °C
Pdh Tj = -7°C	20.06 kW	18.65 kW
COP Tj = -7°C	2.75	2.00
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	22.46 kW	22.24 kW
COP Tj = +2°C	3.53	2.70
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	31.80 kW	30.90 kW

COP Tj = +7°C	4.82	4.01
Cdh Tj = +7 °C	1.000	1.000
Pdh Tj = 12°C	35.28 kW	34.75 kW
COP Tj = 12°C	5.78	5.09
Cdh Tj = +12 °C	1.000	1.000
Pdh Tj = Tbiv	19.00 kW	17.90 kW
COP Tj = Tbiv	2.50	1.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	19.00 kW	17.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.80
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	57 °C	57 °C
Poff	0 W	0 W
PTO	10 W	10 W
PSB	10 W	10 W
PCK	80 W	80 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	10373 kWh	13487 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	59 dB(A)	59 dB(A)
Sound power level outdoor	68 dB(A)	68 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
η_s	134 %	93 %
Prated	21.00 kW	26.90 kW
SCOP	3.43	2.41
Tbiv	-15 °C	-10 °C
TOL	-20 °C	-10 °C
Pdh Tj = -7°C	20.37 kW	19.28 kW
COP Tj = -7°C	2.94	2.29
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	22.52 kW	22.33 kW
COP Tj = +2°C	3.74	3.03
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	32.00 kW	31.30 kW
COP Tj = +7°C	5.00	4.37
Cdh Tj = +7 °C	1.000	1.000
Pdh Tj = 12°C	35.28 kW	34.92 kW
COP Tj = 12°C	5.78	5.32
Cdh Tj = +12 °C	1.000	1.000

Pdh Tj = Tbiv	17.09 kW	18.40 kW
COP Tj = Tbiv	2.35	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	17.10 kW	18.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.33	2.13
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	57 °C	57 °C
Poff	0 W	0 W
PTO	10 W	10 W
PSB	10 W	10 W
PCK	80 W	80 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	21.00 kW	26.90 kW
Annual energy consumption Qhe	15030 kWh	28853 kWh
Pdh Tj = -15°C (if TOL	0.01	0.01
COP Tj = -15°C (if TOL	0.01	0.01
Cdh Tj = -15 °C	0.900	0.900

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	59 dB(A)	59 dB(A)
Sound power level outdoor	68 dB(A)	68 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η_s	189 %	123 %
Prated	22.37 kW	22.00 kW
SCOP	4.80	3.16
Tbiv	2 °C	2 °C
TOL	-10 °C	-10 °C
Pdh Tj = +2°C	22.37 kW	22.00 kW
COP Tj = +2°C	3.17	2.40
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	31.40 kW	29.90 kW
COP Tj = +7°C	4.46	3.22
Cdh Tj = +7 °C	1.000	1.000
Pdh Tj = 12°C	35.10 kW	34.39 kW
COP Tj = 12°C	5.55	2.19
Cdh Tj = +12 °C	1.000	1.000
Pdh Tj = Tbiv	22.37 kW	22.00 kW
COP Tj = Tbiv	3.17	2.40
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	22.37 kW	22.00 kW

COP $T_j = TOL$ or COP $T_j = T_{designh}$ if $TOL < T_{designh}$	3.17	2.40
$C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	1.000	1.000
WTOL	57 °C	57 °C
P _{off}	0 W	0 W
PTO	10 W	10 W
PSB	10 W	10 W
PCK	80 W	80 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	6789 kWh	11117 kWh