CLIMATE CONTROL SYSTEMS

TCU1002440IP55-7035

DC air-air

Thermoelectric units are solid state devices which operate as heat pumps to transfer heat using the Peltier effect. This cost-effective solution is ideal for the climate control of small enclosure. No compressor or moving part (except the fans), no hazardous gases and not sensitive to vibrations are the main advantages.

Technical data		
APPROVALS		
Approvals	CE	
PERFORMANCE		
Rated Cooling Power	101	W
	345	BTU/hr
ELECTRICAL DATA		
Rated Voltage	24	V d.c.
Rated Current	4.7	A
Rated Power	112.8	W
Operating Voltage	17-27	V d.c.
Max Current	5.7	A
GENERIC DATA		
Weight	7.41	Kg
	16.34	lb
Casing Material	PC/ABS	
RAL Number	7035	
Electrical Connection	Screwless Terminal Block	
Fixing System	Screws	
ENVIRONMENTAL AND THERMAL DATA		
IP Protection Degree	IP55	Warm Side Fan
Operating Temperature	-10÷70	°C
	14÷158	°F

Image is for illustrative purpose only. All specifications, data and drawing are subject to change without notice. Please refer to our terms of sales including our warranty and limited liabilities clauses.

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Technical data		
Storage Temperature	-20÷70	°C
	-4÷158	°F
ZZ - VECCHIA LISTA		
Weight (Kg)	6	

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Technical drawing   mm (in)

188 (7.40)

Warm side

Cabinet wall

Cold side

290 (11.42)
320 (12.60)

100 (3.94)

88 (3.46)

135 (5.31)
166 (6.54)

Mounting cut-out mm (in)

305 (12.01)
291 (11.46)
160 (6.30)
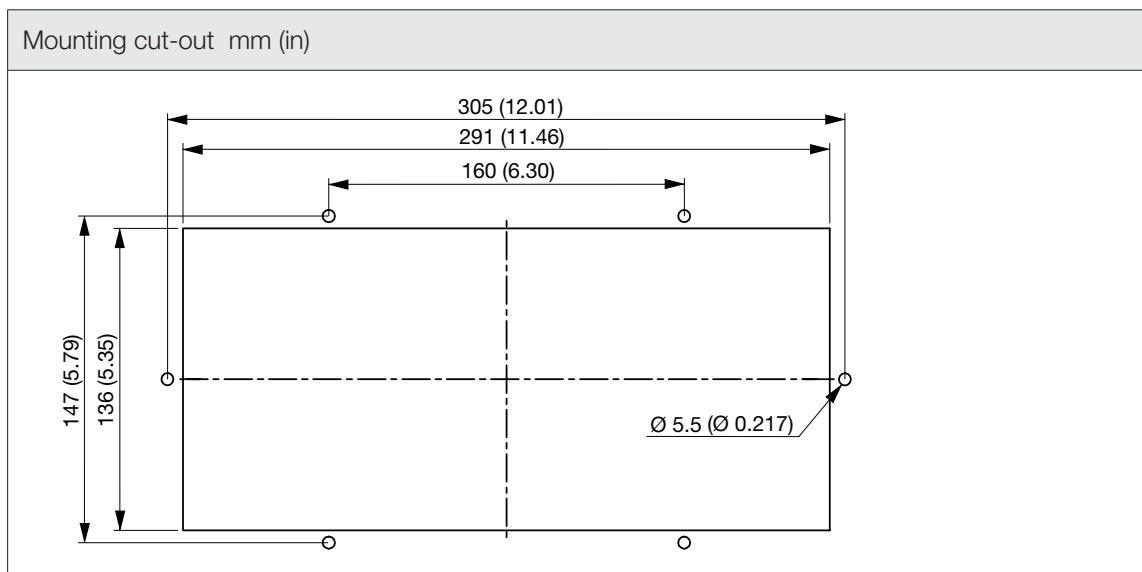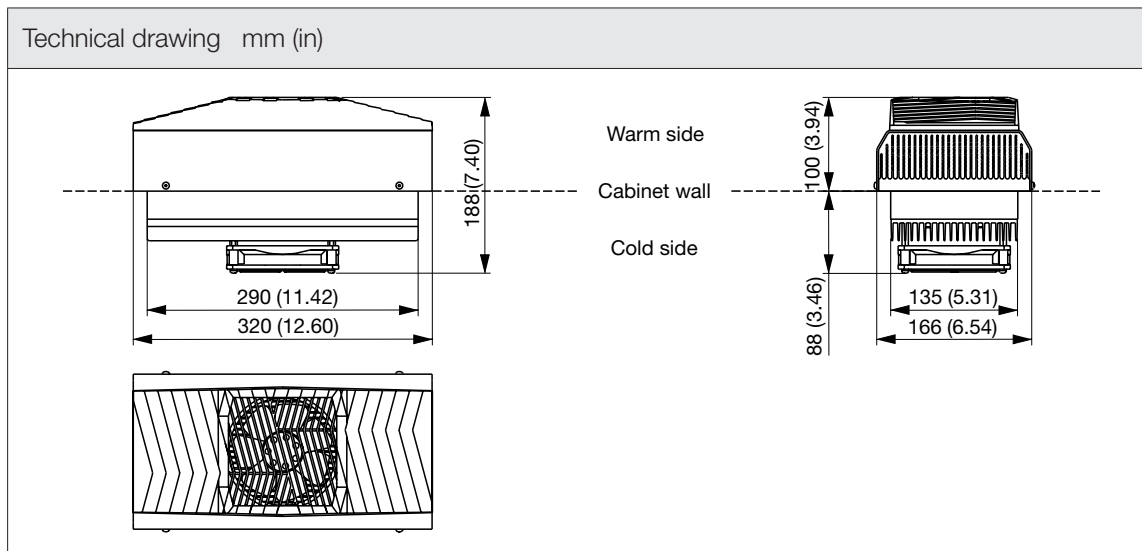
147 (5.79)
136 (5.35)

Ø 5.5 (Ø 0.217)

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Fandis

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Performance

ΔT=Tambient - Tenclosure **[°F]**

| 0.0 | 7.9 | 15.7 | 23.6 | 31.4 | 39.3 | 47.2 | 55.0 | 62.9 | 70.8 | 78.6 | 86.5 | 94.3 | 102.2 |

Te = 25°C - 77°F

$Qc = -2.881\ \Delta T + 101.4$

Cooling Power **[W]**

Cooling Power **[BTU/h]**

120	409.7
110	375.6
100	341.4
90	307.3
80	273.1
70	239.0
60	204.8
50	170.7
40	136.6
30	102.4
20	68.3
10	34.1
0	0.0

| 0 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 | 30 | 33 | 36 | 39 |

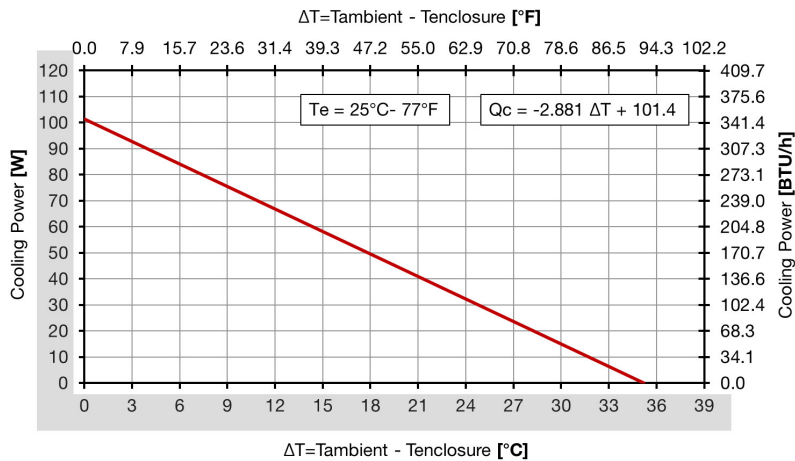ΔT=Tambient - Tenclosure **[°C]**

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