

Heatsinks — Continued

Force Cooled Assemblies



Illustration shows complete assembly:
 2 1 station module kits
 1 2 station component kit
 1 119mm axial flow fan - (available separately)

Total Assembly
 H = 128, W = 171 (incl platforms)
 D (1 station) = 41, D (2 station) = 78
 D (3 station) = 114, D (4 station) = 151
 D (6 station) = 224
 Fixing centres (to fan) = 105 105 4 dia.

A (1 station) = 34.9
 A (2 station) = 71.4
 A (4 station) = 144.4

- Compact high thermal performance
- Force cooled or natural convection
- Module Kit comprises 4 aluminium extensions
- Component Kit contains necessary hardware gaskets, end plates and instructions
- Complete assemble comprises one or more module kits and corresponding component kit
- Electrically isolated extensions
- TO-3 Pre-drilled, or undrilled

Typical dissipation 1 station - 200W, 6 station - 800W
 Typical thermal resistance for station No 1
 (station nearest fan) per extrusion 1.16°C/W @ 10 cu ft/min
 1.02°C/W @ 15 cu ft/min

Mfrs. List No. FC-Mx = 148-449 to 148-451, FC-Mx-AC = 151-302 to 151-303
 FC-Cx = 148-452 to 148-457, where x = No of stations

	Order Code	1+	10+	30+
Module Kits (TO-3 drilled)				
2 station	151-302			
4 station	151-303			
Module Kits (undrilled)				
1 station	148-449			
2 station	148-450			
4 station	148-451			
Component Kits				
1 station	148-452 †			
2 station	148-453			
4 station	148-455			
6 station	148-457			

† Available until stocks are exhausted

Thermoelectric Modules

Low/Medium Power Heat Pumps marlow industries



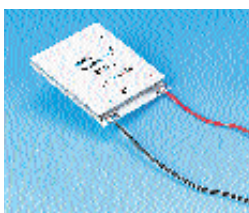
- Single stage, Peltier Effect coolers
- Metalized on both surfaces
- d.c. powered
- Polarity dependent heating/cooling
- Vibration and noise-free
- Small and light weight
- Precision temperature control <0.05°C
- Suitable for low temperature soldering (<120°C)
- Maintenance-free, reliable solid-state design

Heat Pump Capacity (W)	ΔT max °C	I max A	V max V	H	W	D	Mfrs. List No.
0.47	67	1	0.8	2.4	4	4	MI1010T-01AC
5	67	1.8	4.4	2.1	8.8	11	MI1025T-01AC

FOR SUITABLE HEATSINKS SEE ORDER CODE 936-881 PAGE 466

Mfrs. List No.	Order Code	1+	10+	25+
MI1010T-01AC	936-534			
MI1025T-01AC	936-625			

DuraTEC, High Power Heat Pumps marlow industries



- Single stage, Peltier-Effect coolers
- Reliable, solid-state design
- Sealed against condensation/moisture
- dc powered
- Vibration and noise-free
- Optional heatsinks available
- Small, lightweight package
- Precision temperature control to <0.05°C
- Maintenance free
- Polarity dependent heating/cooling
- 100mm leads

Heat Pump Capacity (W)	ΔT max °C	I max A	V max V	H	W	D	Mfrs. List No.
6	68	2.5	3.6	4.04	16.0	20.5	DT3-2.5-01LS
9	68	3.7	3.6	3.43	16.0	20.5	DT3-4-01LS
17	68	7.4	3.6	3.63	20.0	24.5	DT3-8-01LS
20	68	3.7	8.2	3.43	23.5	28.0	DT6-4-01LS
23	68	2.5	14.7	4.04	30.0	34.0	DT12-2.5-01LS
30	68	5.6	8.2	4.01	30.0	34.0	DT6-6-01LS
36	68	3.7	14.6	3.43	30.0	34.0	DT12-4-01LS
39	68	7.4	8.2	3.63	30.0	34.0	DT6-8-01LS
54	68	5.6	14.6	4.01	40.0	44.0	DT12-6-01LS
71	68	7.4	14.7	3.63	40.0	44.0	DT12-8-01LS

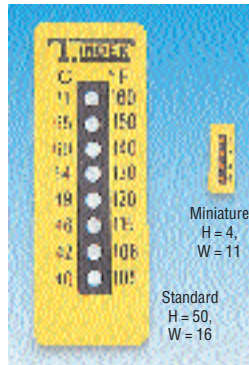
FOR SUITABLE HIGH PERFORMANCE MULTI-FIN HEATSINKS SEE PAGE 466

Mfrs. List No.	Order Code	1+	10+	25+
DT3-2.5-01LS	936-443			
DT3-4-01LS	936-455			
DT3-8-01LS	936-479			
DT6-4-01LS	936-492			
DT6-6-01LS	596-486			
DT6-8-01LS	936-509			
DT12-2.5-01LS	936-510			
DT12-4-01LS	936-522			
DT12-6-01LS	596-498			
DT12-8-01LS	596-504			

Temperature Indicators

Non Reversing Labels

THERMINDEX



- Self-adhesive
- Non-reversing-records peak temperatures
- Water and oil resistant
- 'Miniature' range has 4 sensing areas
- 'Standard' range has 8 sensing areas
- <1s response time
- ± 1°C accuracy (<100°C), ±1% (>100°C)

Mfrs. List No. SERIES 4M = 522-892 to 522-934, SERIES 8 = 522-958 to 522-995

°C temperature markings

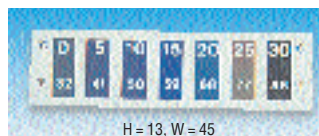
	Miniature				Standard			
	40	44	46	49	40	44	46	49
Order Code	522-892	522-909	522-910	522-922	522-958	522-960	522-971	522-983
Order Code	522-922	522-934	522-958	522-960	522-971	522-983	522-995	522-995

10 Strips Per Pack

Temperature Range	Order Code	1+	10+	25+	50+
Miniature					
40°C to 49°C	522-892				
54°C to 71°C	522-909				
77°C to 93°C	522-910				
99°C to 116°C	522-922				
121°C to 138°C	522-934				
Standard					
40.6°C to 71°C	522-958				
77°C to 116°C	522-960				
121°C to 160°C	522-971				
166°C to 204°C	522-983				
210°C to 260°C	522-995				

Reversible Strips

THERMINDEX



- Self-adhesive
- Thermochromic liquid crystal
- 7 sensing areas, at 5°C intervals
- Correct temperature is indicated in green
- <1s response time, ± 1°C accuracy

Temperature Range	Order Code	1+	10+	25+
0°C to 30°C	523-010			
+30°C to 60°C	523-021			
+60°C to 90°C	523-033			