



## PANEL COOLER

- Two Independent Air Circuits
- Energy Efficient Sealed Compressor
- Microprocessor Controller With LED / LCD Display
- Air Conditioner Manufactured With ISO 9001:2008 Procedures
- 1 Year Warranty

One Stop Solution For Industrial Cooling Needs



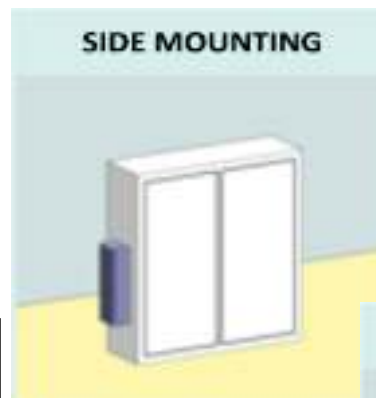
## Specification For Side Mounted/Door Mounted / Stand Alone Panel Cooler

Model	DTAS500	DTAS600	DTAS800	DTAS1000	DTAS1500	DTAS2000	DTAS2500	DTAS3000	DTAS3500	DTASSP	DTAS5200		
Capacity (W)	500	600	800	1000	1500	2000	2500	3000	3500	1200	5200		
Voltage(V/Hz)	230/50	230/50	230/50	230/50	230/50	230/50	230/50	230/50	230/50	230/50	230/50		
Refrigerant	R-134												
Work temp. range (c)	20°C-55°C												
Weight(kg)	25	27	29	31	46	51	54	60	66	33	77		
Noise(db)	56	56	58	60	64	68	68	69	69	58	69		
colour	RAL7035												
Dimension	length	325	285	310	305	475	553	553	505	505	514(odu)	230(du)	505
	width	252	232	234	243	360	240	240	275	275	380	172	275
	height	495	605	720	760	705	1600	1600	1170	1170	320	500	1325

For any other capacity, please contact us. Specifications are subject to change without notification.

### Notes :

- **Capacity & Power Consumption based on conditions :**  
Evaporating temperature -7.2deg. C, Condensing Temp. -54 deg C & Amb. Temp. 38 deg C
- **Refrigerants :**  
R134a : DTAS 500 to 5200
- **Mounting :**  
Side / Door & Stand Alone Panel cooler



### Corrections Factor

#### Load calculation:

#### Formula for calculating required cooling capacity:

$$Q = Q1+Q2$$

Q = Total heat load (watts)

Q1 = Heat load due to exposed area of panel (watts)

Q2 = Internal heat load due to electrical / electronics devices (watts)

$$Q1 = \text{Area (sqm)} \times 5.5 \times \Delta T (OC)$$

Area – Exposed surface area of enclosure in square meter

5.5 Heat transfer co-efficient for metal surface  
Temperature difference between Max. ambient and Max. allowable panel temperature

#### Conversion:

$$1KW = 1000 W$$

$$1KW = 860 Kcal/h$$

$$1TR = 3000 Kcal/h$$

$$1TR = 12000 BTU/h$$



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