



### Thermo Electric Industrial Cooler

Cooling without compressor and refrigerant, suitable for small sensitive panels

| Model                | TEC075          | TEC150      |
|----------------------|-----------------|-------------|
| Cooling Capacity (W) | 75              | 150         |
| Operating Voltage    | 24V DC          |             |
| Power (W)            | 65              | 135         |
| Operating temp       | -10°C to + 60°C |             |
| Weight (Kg)          | 5.5             | 11          |
| Dimensions (W*D*H)   | 250*200*145     | 250*400*145 |

### Fan Filter Unit

Its simple and cost effective solutions for enclosure cooling.

| Model                   | PFF 205          | PFF 255 |
|-------------------------|------------------|---------|
| Power (W)               | 1Ph/230V/50-60Hz |         |
| Mounting Cutout (mm)    | 176*176          | 223*223 |
| Dimensions Outside (mm) | 204*204          | 255*255 |
| Fan                     | 4"               | 6"      |

### Drain Evaporator

Protect machine and floor by evaporating the panel air conditioner drain.

| Model                         | PDE100           |
|-------------------------------|------------------|
| Capacity of Evaporator (cc/h) | 1200             |
| Operating Voltage             | 1Ph/230V/50-60Hz |
| Rated Curser (A)              | 3.8              |
| Power (VA)                    | 836              |
| Dimensions (W*D*H)            | 180*115*150      |
| Weight (Kg)                   | 2.7              |

### Air Oil Cooler

Cooling a wide variety of oils with ambient air. Capable of cooling multiple circuits in a single cooler.

| MODEL                      | AOC 004       | AOC 007       | AOC 011 |
|----------------------------|---------------|---------------|---------|
| COOLING CAPACITY (Kcal/hr) | 750           | 1500/3000     | 6000    |
| INPUT VOLTAGE              | 1Ph/230V/50Hz | 3Ph/440V/50Hz |         |
| INPUT POWER (W)            | 50            | 550           | 1100    |
| WEIGHT (KG)                | 5             | 16            | 25      |
| DIMENSIONS W (mm)          | 250           | 365           | 440     |
| D (mm)                     | 145           | 510           | 510     |
| H (mm)                     | 259           | 395           | 470     |



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## Thermal Management



Industrial Cooler  
Process Chiller  
Heat Exchanger







## Air Industrial Cooler - Face Mount

Extended the life of systems by keeping cool. Turning centre, VMC and HMC CNC machine panel cooling.

| PAC 060 F     | PAC 090 F | TPA 135 F | PAC 200 F | PAC 300 F | TPA 300 F |
|---------------|-----------|-----------|-----------|-----------|-----------|
| 700           | 1050      | 1600      | 2325      | 3500      | 3600      |
| 1Ph/230V/50Hz |           |           |           |           |           |
| 350           | 620       | 900       | 1400      | 1750      | 1600      |
| R134a         |           |           |           | R22       | R134a     |
| 25            | 35        | 44        | 66        | 69        | 81        |
| 340           | 375       | 430       | 425       |           | 430       |
| 260           | 270       | 250       | 290       |           | 285       |
| 455           | 655       | 1005      | 1255      |           | 1540      |

## Air Water Industrial Cooler

Cooling Panels at hazzrdous environment like die casting and foundry panels using chilled water

| AWC 060 F      | AWC 090 F | AWC 200 F | AWC 300 F | AWC 450 F | AWC 600 F |
|----------------|-----------|-----------|-----------|-----------|-----------|
| 700            | 1050      | 2325      | 3500      | 5250      | 7000      |
| 1 Ph/230V/50Hz |           |           |           |           |           |
| 65             | 80        | 100       | 150       | 240       | 300       |
| 200            | 275       | 450       | 600       | 700       | 1435      |
| 4              | 4         | 7         | 10        | 15        | 20        |
| 10             | 15        | 20        | 22        | 30        | 45        |
| 300            | 390       | 420       |           | 420       | 420       |
| 100            | 200       | 200       |           | 200       | 300       |
| 470            | 655       | 755       |           | 1000      | 1250      |

## Water Chiller

Cools the critical components of machine to enhance the productivity. Higher capacity system-centralized cooling system for all kind of industry.

| WCB010        | WCB020       | WCB050         | WCB075            | WCB100 | WCB200         |
|---------------|--------------|----------------|-------------------|--------|----------------|
| 3.5           | 7            | 17             | 26                | 35     | 70             |
| 3Ph/415V/50Hz |              |                |                   |        |                |
| 2             | 4            | 7              | 10                | 13     | 22             |
| 0.33          | 0.55         | 1.1            | 1.5               | 1.5    | 4.0            |
| 10            | 20           | 50             | 70-80             | 90-100 | 200            |
| 1"x1" BSP     |              |                | 1 1/2"x1 1/2" BSP |        | 2"x2" BSP      |
| 130           | 160          | 300            | 400               | 600    | 900            |
| 650*700*1215  | 750*800*1300 | 1100*1190*1665 | 1000*1780*1660    |        | 1000*2200*1880 |
| 30            | 50           | 100            | 200               | 200    | 400            |

## Oil Chiller

Hydraulic, spindle & coolant oil cooling, ensures accuracy of job within the limit by keeping constant temperature.

| OCB 010       | OCB 020 | OCB 030 | OCB 050             | OCB 100 |
|---------------|---------|---------|---------------------|---------|
| 3.5           | 7       | 10      | 17                  | 35      |
| 3Ph/415V/50Hz |         |         |                     |         |
| 2             | 3       | 4       | 7                   | 13      |
| 0.55          | 0.75    | 4       | 3.7                 | 5.5     |
| 25            | 40      | 60      | 100                 | 200     |
| 1" X 1" BSP   |         |         | 1-1/2" X 1-1/2" BSP |         |
| 120           | 140     |         | 250                 | 450     |
| 650           | 750     |         | 1100                | 1000    |
| 700           | 800     |         | 1190                | 1780    |
| 1215          | 1300    |         | 1665                | 1660    |

\* Please contact us for detailed specification and panel cut-opening dimensions.

## Air Industrial Cooler - Top Mount

Suitable for Plasma/Gas Cutting machine panel cooling. It will be installed on top of panel.

| PAC 060 T      | PAC 090 T | PAC 135 T | PAC 200 T | PAC 300 T |
|----------------|-----------|-----------|-----------|-----------|
| 700            | 1050      | 1570      | 2325      | 3500      |
| 1 Ph/230V/50Hz |           |           |           |           |
| 350            | 620       | 900       | 1400      | 1750      |
| R134a          |           |           |           | R22       |
| 28             | 35        | 47        | 64        | 68        |
| 505            | 745       |           |           | 945       |
| 355            | 530       |           |           | 550       |
| 365            | 485       |           |           | 565       |

## Air Air Industrial Cooler

Low cost cooling where required temperature is higher than ambient, wind mill and telecom panels.

| Model                         | AAH 015       | AAH 050 | AAH 100 |
|-------------------------------|---------------|---------|---------|
| (w) Cooling Capacity (w/k)    | 15            | 50      | 100     |
| Power Input                   | 1Ph/230V/50Hz |         |         |
| Power (w)                     | 38            | 116     | 250     |
| Air Flow Rate (cfm)           | 94            | 335     | 770     |
| Water Flow (LPM)/Max Temp (C) | 55            |         |         |
| Weight (kg)                   | 6             | 12      | 25      |
| Dimensions W (mm)             | 211           | 315     | 625     |
| D (mm)                        | 66            | 95      | 90      |
| H (mm)                        | 460           | 785     | 780     |

## Laser Water Chiller

Single & Dual Water circuit Maintains water temperature, these chiller are equipped with tank & pump.

| Model                      | LWC 005         | LWC 010      | LWC 020 | LWC 050      |
|----------------------------|-----------------|--------------|---------|--------------|
| Cooling Capacity (kW)      | 1.5             | 3.5          | 7       | 17           |
| Operating Voltage          | 3Ph/415V/50Hz   |              |         |              |
| Power : Ref. system (kW)   | 1               | 2            | 4       | 7            |
| Pump (kW)                  | 0.33            | 0.55         |         | 0.80         |
| Required flow rate (l/min) | 10              | 30           | 40      | 30           |
| Water In/Out Size (inch)   | 1/2" X 1/2" BSP | 1" X 1" BSP  |         | 1" X 1" BSP  |
| Weight (kg)                | 160             | 180          | 200     | 250          |
| Dimensions (W*D*H)         | 650x700x1215    | 800x815x1105 |         | 800x900x1685 |
| Tank Capacity (lit)        | 10              | 20           | 50      | 50           |

## Spindle Oil Chiller

Ensure accuracy of the spindle at high speed by maintaining spindle oil temperature pressure & oil viscosity.

| Model                     | SOC 003         | SOC 005 | SOC 007         | SOC 010 |
|---------------------------|-----------------|---------|-----------------|---------|
| Cooling Capacity (kw)     | 1               | 1.75    | 2.9             | 3.5     |
| Operating Voltage         | 3Ph/220V/50Hz   |         | 1Ph/220V/50Hz   |         |
| Power Ref.system          | 0.6             | 1.5     | 2               | 3       |
| Pump (kw)                 | 0.250           | 0.33    | 0.55            |         |
| Required Flow Rate(l/min) | 6               | 10      | 17              |         |
| Oil In/out Size(inch)     | 1/2" X 1/2" BSP |         | 3/4" X 3/4" BSP |         |
| Weight (kg)               | 60              | 75      | 90              | 110     |
| Dimensions W (mm)         | 360             | 490     |                 |         |
| D (mm)                    | 440             | 460     |                 |         |
| H (mm)                    | 770             | 900     |                 |         |

\* Design and specification are subject to change without prior notice.

