



# coolenergy

TEMPERATURE RENTAL

Dry Air Blast Cooler

500kW Unit



## ABOUT THE DRY AIR COOLER

Cool Energy's 500kW Dry Air Cooler is designed to be installed quickly onsite and ready to hire. The unit requires a water source to the integral coil and has quick-release water connections, together with a 63amp 3-phase power connection.

The unit is supplied with a controller to manage the fan speed and temperature from the unit. This can be modified to link remotely with a local control room.

The unit is supplied with 2 x 2" Flange connectons on flow and return.

## Cool Energy Product Range

Cool Energy can also supply the following equipment:

- Air-cooled rental chiller range from 0.3kW - 1,000kW units.
- Water-cooled rental chiller range from 7.5kW - 1,280kW units.
- Air handling units & fan coils from 5kW - 500kW duties.
- Air conditioning units from 1.3kW - 350kW units.
- Low temperature chillers (-30oC) and fan coils (0oC air off).
- Dehumidifiers (desiccant & electric) 200-10,000m3/hr.
- Generator Power with 20KVA - 800KVA fuel tanks and managemen
- Air distribution (flexible ducting and perforated air socks).
- Hot water generators and boilers from 25kW - 500kW units.
- Heating (office/warehouse) from 3kW to 200kW electric/indirect/heat pump.



We also provide full installation, transportation, lifting and monitoring.

## TECHNICAL

### 500kW Dry Air Cooler

#### Performance data @ design conditions

Cooling Capacity	kW	500
Air Off Temperature	°C	57
Air On Temperature	°C	32
Water/Glycol mix in	°C	65
Water/Glycol mix out	°C	45

#### Cooling Operating limits

Min/Max Duty	kW	504
Min/Max Air Off Temperature	°C	-10/60
Fluid Pressure Drop	kPa	47
Max Working Pressure	bar	12
Evaporator Water Volume	l	200

#### Air Limits

Total Number Fans	5.0kW each	3
Fan	mm	910
Total Airflow	m <sup>3</sup> /hr	66,730
	m <sup>3</sup> /s	18.5

#### Electrical data

Electrical Supply Voltage 3 phase	V	400
Power Connections	A	63 C forme plug
Cable Connection (35mm <sup>2</sup> per phase)		3 core + earth, no neutral
Max Power Absorbed	kW	15
Max Current Absorbed	A	39.6
Starting Current (Max)	A	7.5
Recommended Generator Set	kVA	25
Control System		Carel pCO <sup>2</sup>

#### Sound Data

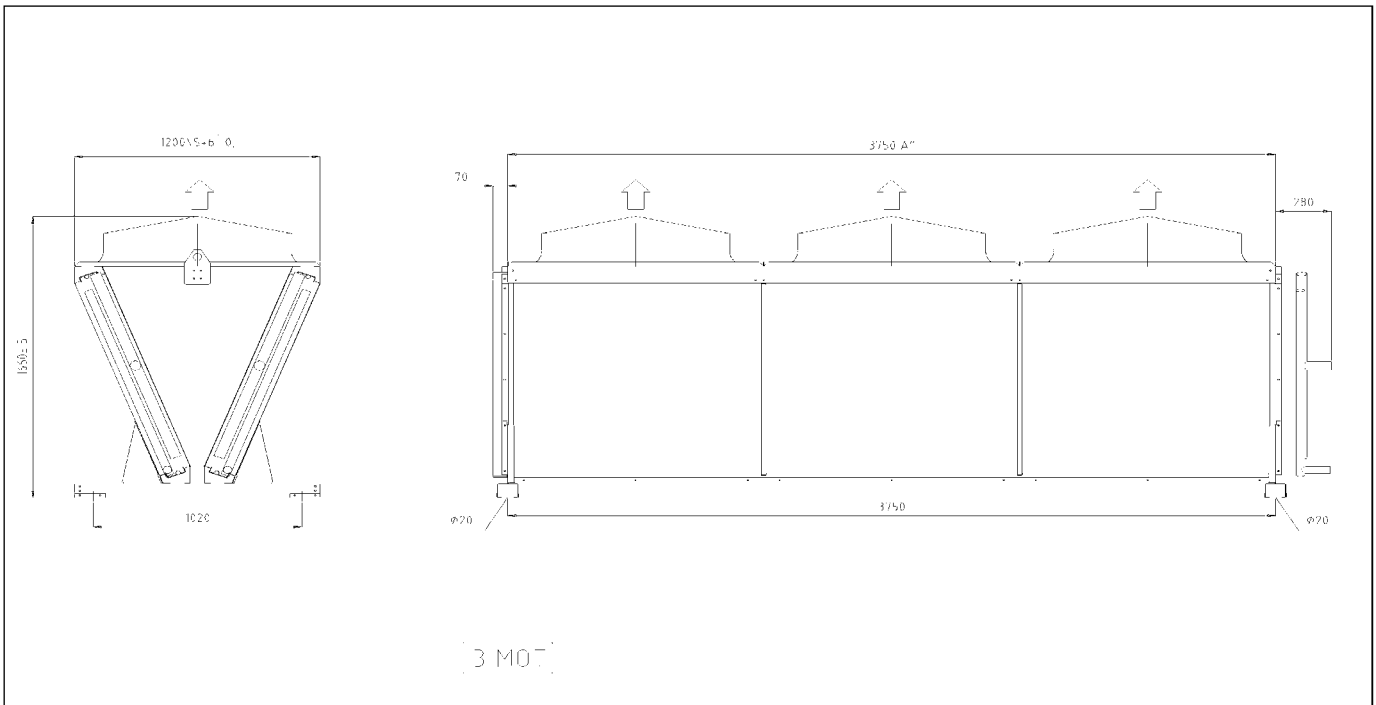
Sound Pressure Level at 10 metres (ISO3744)	dB(A)	56
---	-------	----

#### Physical Data

Overall Length	mm	4,100
Overall Width	mm	1,200
Overall Height	mm	1,660
Weight Dry	kg	672
Weight + Water/Glycol mix	kg	872
Fluid Coupling Size	mm/inch	2 x 50/2
Fluid Coupling Type	choice	PN16 Flange/bauer

E&OE. All data is subject to change and continuous improvement without notice.  
Equipment designed to ISO 9001 and all relevant electrical, pressure and mechanical directives.  
© Cool Energy 2011. All rights reserved.

## GA DRAWING



### Head Office South

ICS House, Stephenson Road, Calmore Industrial Estate, Totton, SO40 3RY  
T (+44) 23 8052 7300 F (+44) 23 8042 8366

### Midlands

Birmingham Science Park Aston, Faraday Wharf, Holt Street, Birmingham B7 4BB  
T (+44) 121 326 7771 F (+44) 121 327 4114

### North

Floor 2, Caspian House, East Parade, Little Germany, Bradford BD1 5EP  
T (+44) 1274 740 877 F (+44) 1274 391 708

### Scotland

Unit 5, 53/58 South Avenue, Blantyre Industrial Estate, Blantyre, G72 OXB  
T (+44) 1698 723308 F (+44) 1698 723309

### Ireland

T (+353) 46 925 2934 F (+353) 46 925 2936

We also have four locations in Germany, Holland and Switzerland.  
Further information on these locations can be found at  
[www.coolenergy.eu](http://www.coolenergy.eu)

[www.coolenergy.co.uk](http://www.coolenergy.co.uk)



  
**coolenergy**  
TEMPERATURE RENTAL

Equipment designed to ISO-9001 and all relevant directives. Product improvement is a continual process at Cool Energy and we reserve the right to change the design and specifications without notice or obligation. Availability is subject to change without notice. Contact your local Cool Energy depot for availability. © 2011 Cool Energy. All rights reserved.