

TES AIR BLAST COOLERS

TECHNICAL DATA

PACKAGED AIR BLAST (PAB)

Designed for indoor or outdoor siting, stand-alone or built into OEM assembly, split system or fully packaged. Full diagnostics as standard.

Pumps

Stainless steel centrifugal pumps are used throughout the range. Flow and pressures can be varied to suit customer's requirements.

Fans

High efficiency axial flow fans. Low noise level is used where feasible.

Heat Exchangers

Copper tube with aluminium fin matrix. Selected to provide optimum heat transfer capability, efficient cooling and low pressure drop.

Water System

Temperature and pressure gauges fitted as standard. Overflow, manual/auto fill and quick-release coupling on flow and return for hose connections.

Electrical Control System

PAB 1-5: simplified single phase system
 PAB 10-200: contained in control panel.
 Diagnostic warning lights for key functions.
 3 Phase/415V/50Hz power, 110V control.
 World voltage and 60Hz systems available.
 FBAB: remotely controlled; incorporates individual fan isolators.

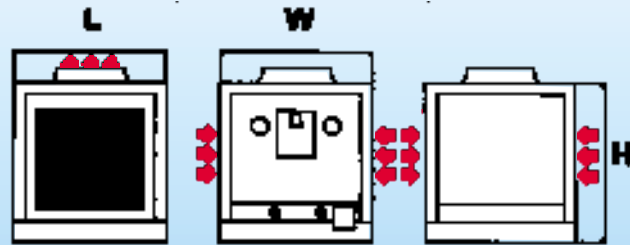
Enclosure:

Light zintec/galvanised steel. Welded main framework. Flush panels fitted with stainless steel screws. Powder coated finish, standard colour RAL 7032, light beige (other colours and types of paint available at extra cost).

FLATBED AIR BLAST (FBAB)

Designed for indoor or outdoor siting, open or closed circuit, with remote control and automatic fan operation available.

SPECIFICATION (PAB)



| Model No. | Cooling Capacity kW | Water Flow M3/hr | Water Pressure Bar | No. Fans | Size mm | | | Weight kg |
|-----------|---------------------|------------------|--------------------|--|---------|------|------|-----------|
| | | | | | L | W | H | |
| PAB1 | 1.0 | 0.1 | 2 | 1 | 420 | 370 | 450 | 40 |
| PAB5 | 5.0 | 0.5 | 3 | 1 | 650 | 550 | 600 | 60 |
| PAB10 | 10.0 | 1.0 | 5 | 1 | 840 | 840 | 1180 | 80 |
| PAB15 | 15.0 | 1.3 | 5 | 1 | 950 | 690 | 1000 | 100 |
| PAB20 | 20.0 | 1.7 | 5 | 1 | 950 | 840 | 1180 | 120 |
| PAB30 | 30.0 | 2.6 | 5 | 1 | 1000 | 1000 | 1180 | 150 |
| PAB45 | 45.0 | 3.6 | 5 | 1 | 1320 | 1270 | 1500 | 200 |
| | | | | | 1500 | 850 | 1150 | |
| PAB60 | 60.0 | 5.2 | 5 | 2 | 1320 | 1270 | 1500 | 300 |
| | | | | | 1650 | 850 | 1150 | |
| PAB75 | 75.0 | 6.5 | 4 | 2 | 1320 | 1270 | 1875 | 350 |
| | | | | | 1650 | 850 | 1600 | |
| PAB100 | 100.0 | 8.6 | 5 | 2 | 1320 | 1270 | 2300 | 425 |
| | | | | | 1650 | 850 | 2000 | |
| PAB150 | 150.0 | 18.0 | 5 | 2 | 1320 | 1270 | 2300 | 500 |
| | | | | | 1650 | 900 | 2300 | |
| PAB200 | 200.0 | 24.0 | 5 | Details on request for this size and above | | | 575 | |

Cooling capacities given are based upon water outlet temperature being 10°C above ambient and inlet temperature being 10°C above outlet temperature - for other criteria please refer to TES Sales Office.

In the interests of continuous development and improvement, TES reserves the right to alter specifications without notice.



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TES AIR BLAST COOLERS

Compact Packaged & Flatbed Water Coolers for industrial applications

Applications

- Induction furnaces
- High frequency generators
- Quench cooling
- Welding equipment
- Compressor cooling
- Electronic enclosures
- Hydraulic oil cooling
- General industrial cooling



The advantages of a TES closed circuit Air Blast Cooler

A reliable supply of uncontaminated cooling water is of major importance to many manufacturing processes. Rising water charges and increasing environmental pressures affect both production costs and efficiency closed circuit cooling is the only answer.

TES have designed and supplied closed circuit cooling equipment to industry in the UK and overseas since 1981 and the customised range of AIR BLAST COOLERS are economic, efficient and ASSURE THE INTEGRITY OF THE WATER SUPPLY.

the industrial cooling specialists

specialist cooling for industry & science

PACKAGED AIR BLAST COOLERS

SPECIAL FEATURES

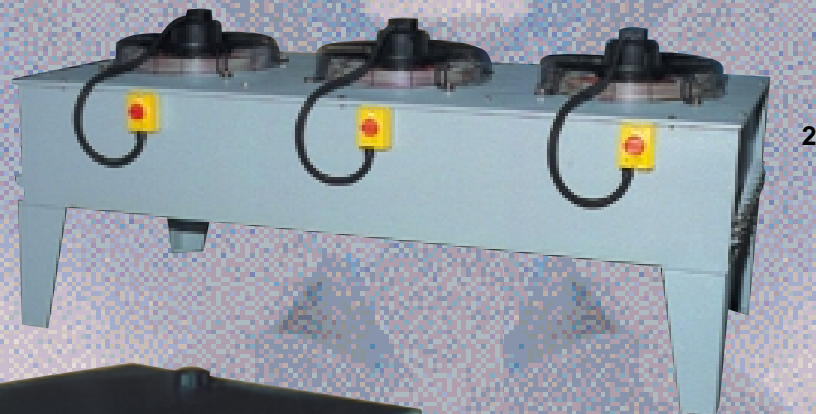
- ✿ All non-ferrous water system
- ✿ Diagnostic fault indication
- ✿ Split or totally packaged system
- ✿ Guaranteed specification
- ✿ Light weight, corrosion-free enclosure
- ✿ Low noise level fans
- ✿ High efficiency heat exchangers

BENEFITS

- ✿ Clean corrosion-free water
- ✿ Low operating costs
- ✿ No evaporation loss
- ✿ Anti-freeze facility
- ✿ No water treatment
- ✿ No water disposal costs
- ✿ No chemical dosing
- ✿ Low maintenance costs

OPTIONS

- Frost protection package
- Split coils
- Automatic mains fill
- Remote start facility
- Level switch
- Flow switch
- Pressure switch
- Air inlet filters
- Variable speed fans
- High pressure pump



KEY

1. 15 kW Packaged Air Blast
2. 80 kW Split Air Blast
3. Special Purpose mini-Air Blast
4. 650 kW Air Blast "en route"

FLATBED AIR BLAST COOLERS

SPECIAL CHARACTERISTICS

TES Flatbed Air Blast Coolers are designed around a well-proven format which is customised to satisfy specific customer needs.

- ✿ 15-600 kW capacity with standard format
- ✿ Low silhouette for roof mounting
- ✿ Low noise level fans
(energy-saving individual thermostat controls available)
- ✿ Robust weather-resistant construction
- ✿ High level of heat recovery when sited internally
- ✿ Open and fully closed circuit designs
- ✿ Available as separate cooling unit or as part of complete system
- ✿ Designed to complement TES Pumping Sets when remotely sited (see *companion product* below)

BENEFITS

TES FLATBED AIR BLAST COOLERS offer the same benefits as standard Packaged Air Blasts with the advantage of complete flexibility in siting and the backing of TES turn-key installation package.

Companion Product

TES INDUSTRIAL PUMPING SETS

Custom-designed to meet the cooling needs of a wide variety of manufacturing processes, they combine a standard, compact, packaged design with a wide range of options. This ensures maximum economy, while meeting customer's specific needs.

TES PUMPING SETS can be used in conjunction with remotely sited TES FLATBED AIR BLAST COOLERS to provide the necessary flow, pressure and control of the water to the equipment being cooled. Both open and closed circuit options are available.

For more information on Pumping Sets please contact TES Sales Office.

