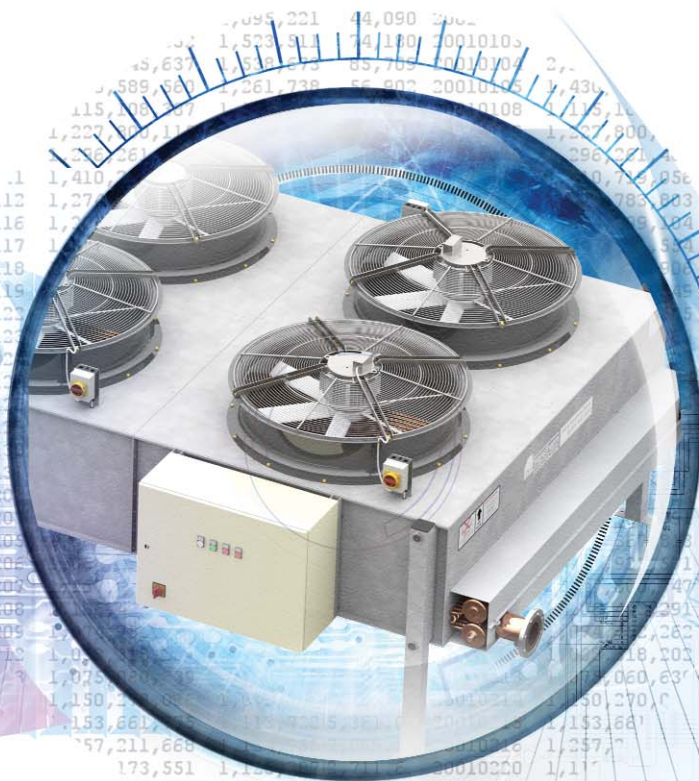


PIOVAN

Customers. The core of our innovation

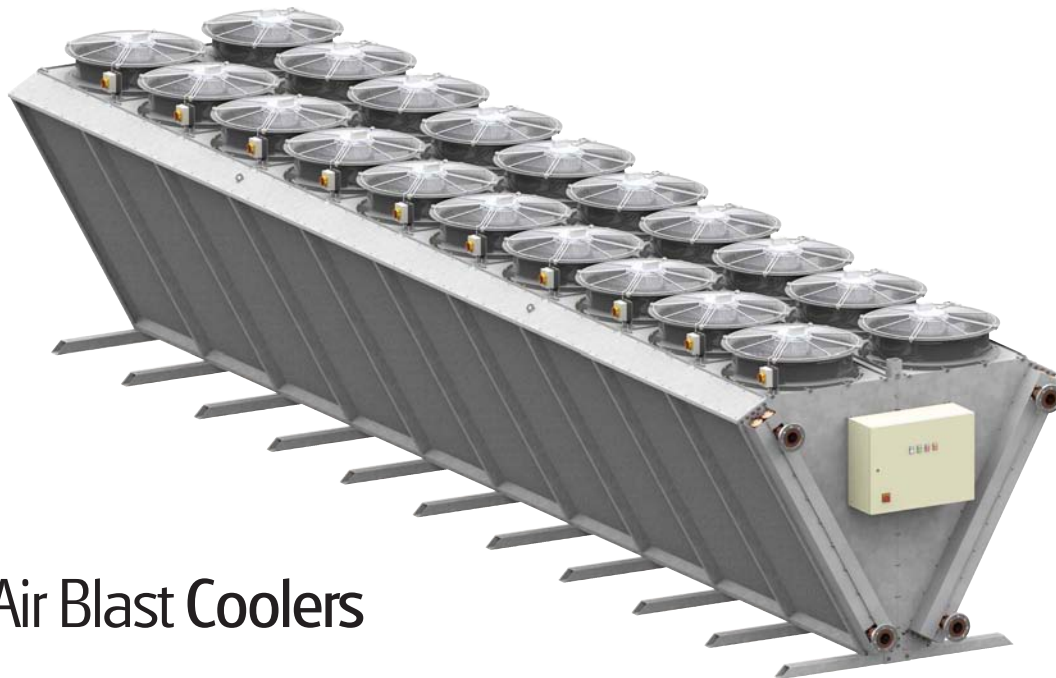
Air Blast Coolers



air blast coolers

adiabatic

plate heat



Air Blast Coolers

The Piovan range of water coolers has been developed and built to give extremely reliable and robust performance across all models and are designed for fast-track installation.

Shipping coolers in fully operational form ensures that no special lifting or assembly procedures are necessary, thereby reducing on-site time and cost.

A flexible range of fans and cooler unit configurations is available so that projects with environmental, noise and/or space restrictions are amply catered for.

All flatbed coolers are available as blow through units (fans underneath) in order to cope with high water and air outlet temperatures.

Also available as double and triple bank units, any combination of low, medium and high temperature circuits can be cooled on the same application. These are generally used for engine or genset cooling.

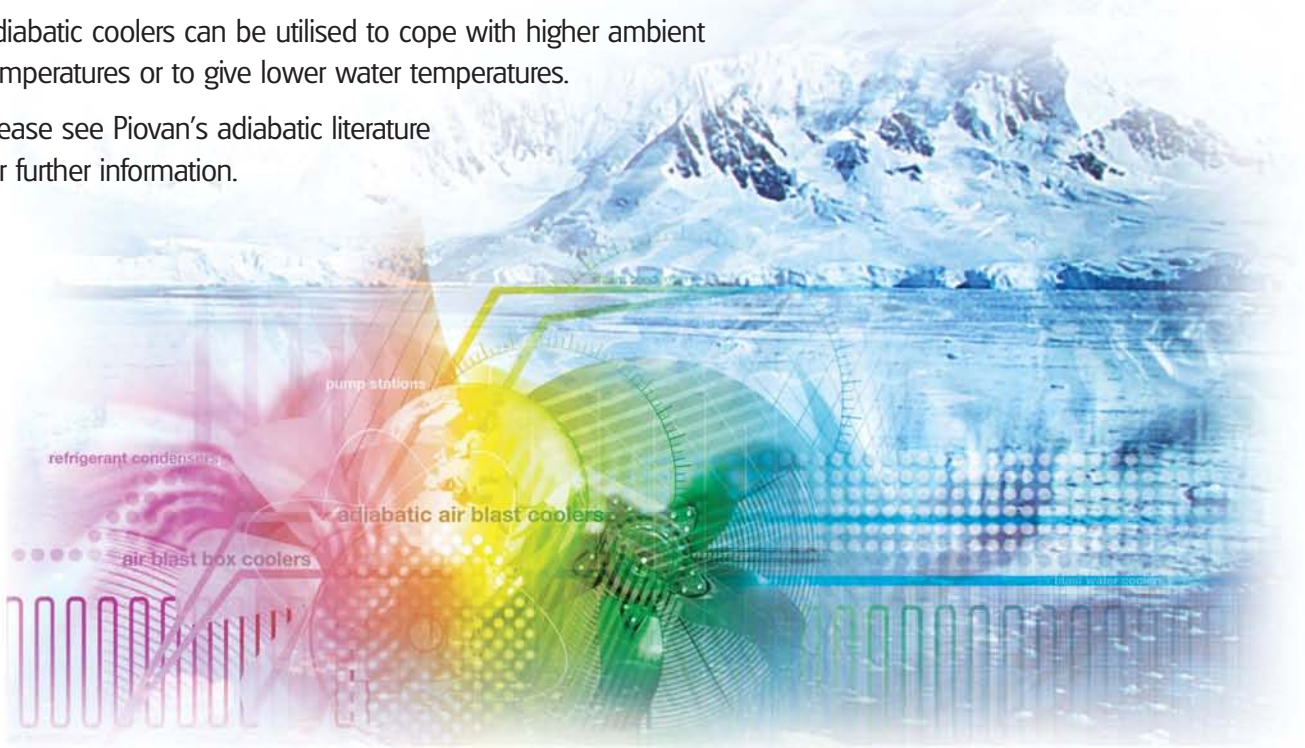
A choice of control options is available including fully fitted and pre-wired panels with either stage control, energy saving inverter drive or EC fan control.

For double and triple bank units, multiple probes are used and the number of stages or fan speed is dictated by whichever probe is calling for most cooling at any given moment.

Controls for ancillaries, such as pumps, heaters, etc., can be incorporated in Piovan's panels.

Adiabatic coolers can be utilised to cope with higher ambient temperatures or to give lower water temperatures.

Please see Piovan's adiabatic literature for further information.



Key features include:

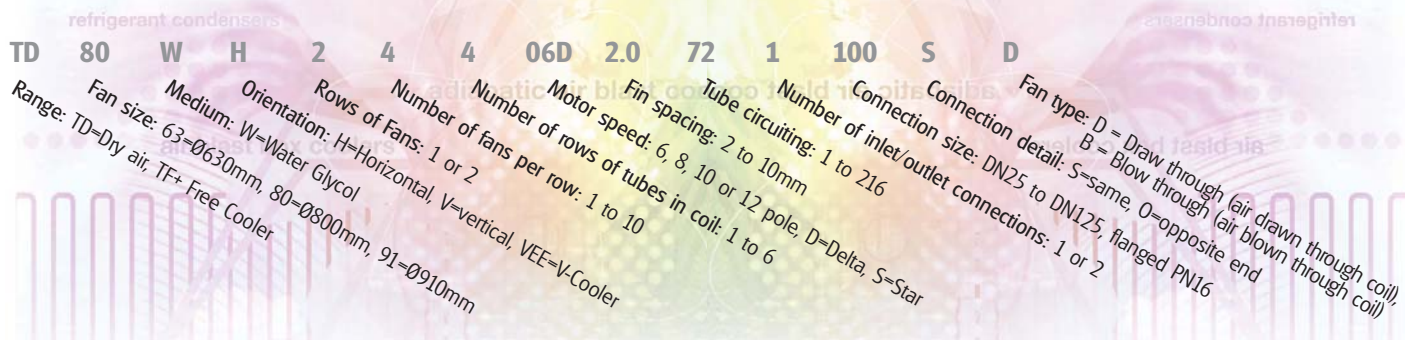
- Low noise levels, low input powers
- Stage, Inverter and EC fan control are available across all ranges
- Controls are pre-commissioned prior to despatch helping to reduce setup time
- Units are despatched in fully operational form with no onsite assembly required
- Adiabatic option available for high ambient/low water temperature applications
- Range of materials available offering extended life in varying environments
- Modern, safe alternative to cooling towers, offering reduced running and maintenance costs

Model number breakdown

Model numbers are devised from the specifications.
eg: TD80W/H-244/06D/2.0/72/DN100/S/D

The example shown would be:

DryAir, Ø800mm, water glycol, 2 rows of fans, 4 in each row, 6 pole Delta motor, 2mm fin spacing, 72 tube circuiting, 1 inlet/outlet, DN100, same end connection, draw through fan



Technical Specification

Construction

Fins

Aluminium, aluminium magnesium (AlMg2.5), epoxy coated aluminium, copper, electro-tinned copper

Tubes

Copper and electro-tinned copper at 0.35, 0.4, 0.6, 0.75, 1.0mm wall thickness

Carbon steel at 1.5mm wall thickness

304 and 316 stainless steel at 0.6 or 1.0mm wall thickness

Headers

Copper, carbon steel, 304 and 316 stainless steel

Casing

Galvanised steel, aluminium, 304 and 316 stainless steel

Legs

80 x 80 x 3mm box section

Folded legs

Fans

Motor Insulation

Class 'F' and class 'H'

Motor Type

2 speed Star or Delta motors suitable for inverter control all with IP55 rating as standard

EC fans and EXN, EXD, zone 1 and zone 2 fans available on request.

Options

Adiabatic spray system

For high ambient air temperatures or lower water temperatures

Free cooling diverter system

Includes 3 way valve, actuator, by-pass pipe work with balancing valve, air and water stat comparator and necessary controls

Integrated pump sets

Open/closed, single/dual

Stage control panel

Pre-commissioned digital controls with Schneider switchgear for a 'plug and play' solution

Inverter and EC fan control panels

As above but with reduced energy and noise emissions

Local fan isolators

Provide individual isolation of fans to allow for safe maintenance

Common terminal box

Where controls are supplied loose, or by others, this option can be used to bring cabling for all fans to a common point

Extended legs

Can include bracing where necessary

Hinged fan plates and side inspection panels

Offers easy access to fin block for cleaning

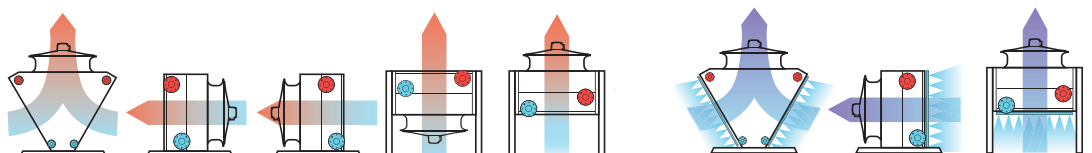
Walkway and safety hand rails

Where units are mounted at high level or on rooftops etc.

This system allows safe access for maintenance

Model orientation

Maximum flexibility:
models can be mounted
in a choice of orientations.



Piovan UK Limited

Unit 7B, Silver Birches Business Park
Aston Fields, Bromsgrove B60 3EU
Worcestershire, United Kingdom

Telephone: +44 (0)1527 879419

Fax: +44 (0)1527 879504

www.piovan.com

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Registered address as above
Registered in England No 05333134

