

Direct Drive Dry Type Fluid Coolers

Product Data & Installation

One to Six fan units
From 90 to 540 mBtuH

Room for picture

- Heavy gauge galvanized steel casing with zinc plated, shake-proof nuts and bolts
- Heavy duty legs
- Energy-Efficient DEEP coil
- Direct drive motors are totally enclosed air cooled, outdoor weather protected, and with inherent overload protected.

NOMENCLATURE

Example:

Model: TDC A 2 180 C 1 A 2
I II III IV V VI VII VIII

I – “TDC”, Thermorise Dry Coolers

II – Product Series “A”

III – 1, 2, 3, 4, 5 or 6, indicates no. of fans

IV – 090 thru 540, multiple of 9, nominal MBTU/hr Rating

090 – one fan	360 – 4 fan
180 – two fan	450 – 5 fan
270 – 3 fan	540 – 6 fan

V – Electrical Rating

- A – 208-230V, 1ph, 60 Hz
- B – 208-230V, 3ph, 60 Hz
- C – 460V, 3ph, 60 Hz
- D – 575V, 3ph, 60Hz

VI – Circuit selected “1”, “2”, “3”, “4”, or “C” for Custom

VII – Connection Option, single digit

VIII – Control Options, single digit

Exclusive Attributes of the Energy-Efficient DEEP* coil –

- Unique combination of low fin density and higher tube spacing results in substantially reduced air resistance. This results in 20% reduction in fan motor horse power. This is unique, novel and exclusive to the Thermorise Dry Coolers.
- DEEP coil uses low fin density (6 fpi) and high tube spacing (2”). This compares to 12 to 16 fpi and 1” for all other coils. This low fin density combined with high tube spacing keeps the coil far clean and clog-free for efficient heat transfer.
- Low fin density requires less maintenance, making Thermorise dry coolers particularly suitable for dusty or contaminated atmosphere.
- Lowest operational costs due to 20% reduction in fan h.p. compared to conventional coils.

* US Patent 6,659,170

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