

## Aqua-Vent® Quench Coolers

### Air-Cooled Forced Draft Heat Exchangers

An intrinsically safe method of cooling quench oil baths compared to water-cooled systems. Using ambient air as the cooling medium, there is no chance of contaminating oil quench tanks with water. Large diameter tubes (1" OD) with heavy wall thickness allows thermally efficient turbulent flow without the use of internal turbulators. The scrubbing action of the quenchant effectively eliminating tube fouling and plugging of the heat exchanger - even with dirty quench media. Removable coverplate headers and straight-through tube design provide easy access for mechanical tube cleaning if necessary.

Pumps and temperature controls are optionally available to complete the system.

Dry Coolers can meet almost any specification with a standard or custom built cooling package. Our knowledgeable application engineers are ready to assist you in designing an efficient cooling system for your process.



*Designed specifically for quenching applications in the heat treating industry, AVQ heat exchangers incorporate state of the art features optimized by 3-D solid modelling for the ultimate in reliability and maintainability.*



### MAJOR DESIGN FEATURES

- Direct Drive Propeller Fans - Forced Draft
- Full 1" Diameter Heavy Wall Tubing
- Removable Coverplate Headers
- Slide-Out Fan Plenum for Easy Access to Fins and Motor
- 3" FPT Inspection Port
- Pre-Wired to Safety Switch with Circuit Breaker
- Insulated Water Lines & Reservoir
- Powdercoated Galvannealed Sheet Metal
- Floating Tube Bundle for Thermal Expansion
- Removable Corrosion-Resistant Fin Guard

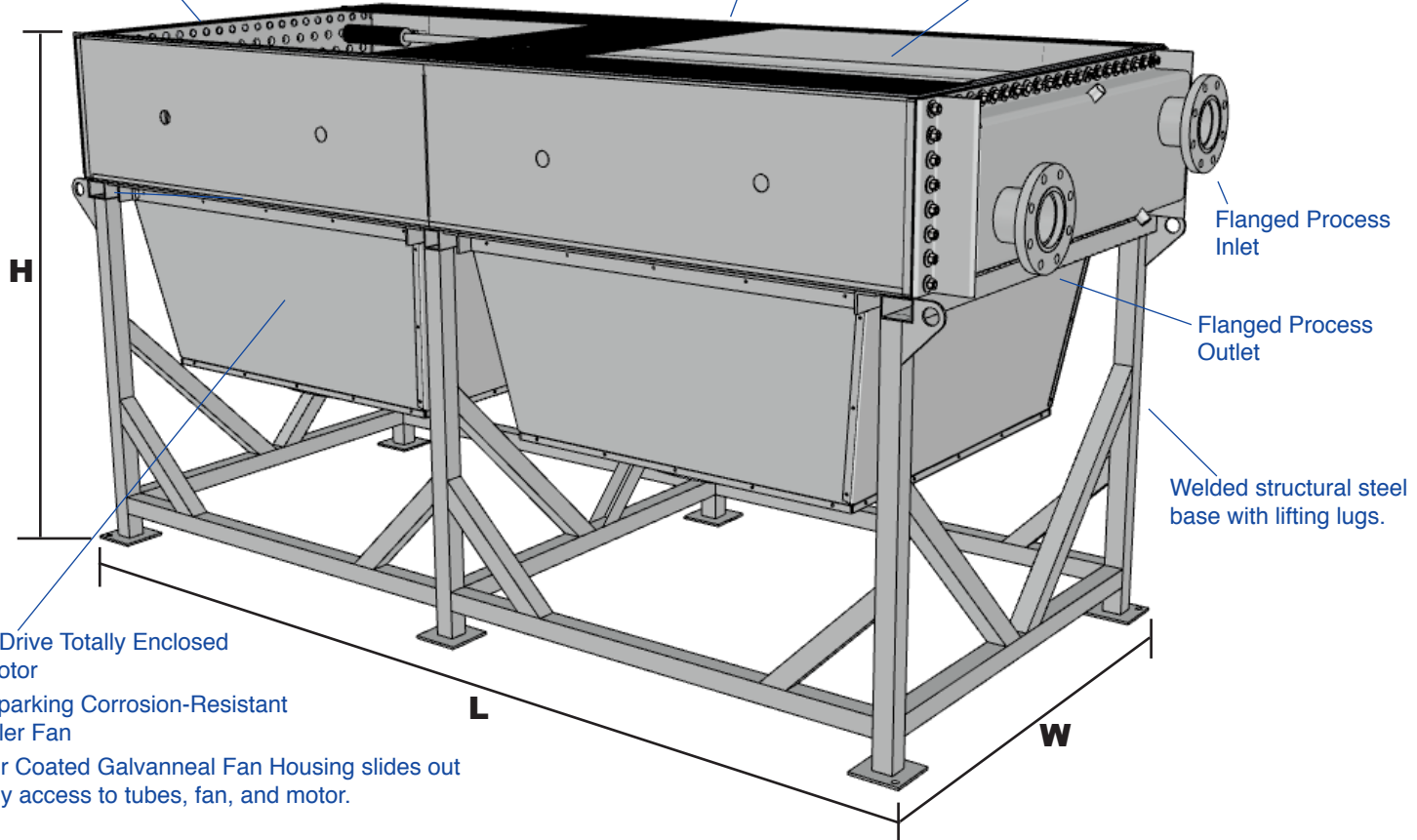
# Good Reasons to get an AVQ Quench Cooler — Safety, Quality, Reliability and Low Operating Cost

Model AVQ-4x8 shown - custom models available.

Sliding header moves freely to accommodate thermal expansion of tubing

NEMA 4 Safety Disconnect with circuit breaker for each fan

Steel tube bundle with aluminum fins. Wide fin spacing resists fouling and facilitates cleaning



Direct Drive Totally Enclosed Fan Motor

Non-Sparking Corrosion-Resistant Propeller Fan

Powder Coated Galvanneal Fan Housing slides out for easy access to tubes, fan, and motor.

Flanged Process Inlet

Flanged Process Outlet

Welded structural steel base with lifting lugs.

Model	Fans			Nominal Dimensions		Approximate Weight
	Qty	Diameter	Power	W x L x H		
AVQ-4x4	1	34" (900 mm)	2 HP 1.5 kW	51" x 58" x 58"	130 x 143 x 143 mm	1500 lb (680 kg)
AVQ-4x8	2	34" (900 mm)	2 HP 1.5 kW	51" x 106" x 58"	130 x 270 x 143 mm	2500 lb (1130 kg)
AVQ-4x12	3	34" (900 mm)	2 HP 1.5 kW	51" x 154" x 58"	130 x 391 x 143 mm	3500 lb (1590 kg)
AVQ-4x16	4	34" (900 mm)	2 HP 1.5 kW	51" x 202" x 58"	130 x 513 x 143 mm	4500 lb (2040 kg)
AVQ-4x20	5	34" (900 mm)	2 HP 1.5 kW	51" x 250" x 58"	130 x 635 x 143 mm	5500 lb (2500 kg)

Due to the many variables encountered in quenching processes, we deem it not useful to publish performance data. Please consult our sales staff for a quick computerized selection and quotation. Call us or email [info@drycoolers.com](mailto:info@drycoolers.com)

Note: Specifications are subject to change without notice. Please consult factory for certified prints and performance.



3232 Adventure Lane  
Oxford, MI 48371  
**1-800-525-8173**  
Fax (248) 969-3401  
[www.drycoolers.com](http://www.drycoolers.com)

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