

Closed Circuit Cooler Technical Data Sheet



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(1) ATWB 7-5J9-Z

Project Details

Project Name : VP-NI-2008101431 Evapco
Location: TBD UNK

Date: 8/11/2020
Customer: Nether Industries Inc
1633 Commerce st
Enumclaw Washington 98022
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Product Description

The ATWB is a prime-surface steel **coil only** closed circuit cooler, featuring **CrossCool™ Internal Tube Enhancement**, designed around EVAPCO's induced draft Advanced Technology (AT) tower. The ATWB line offers the most box size configurations in the industry while also providing **nominal dry cooling capacity at reduced loads**. This is not true for most evaporative closed circuit coolers in the industry! The ATWB is a maintenance friendly product, designed for all routine maintenance to be performed from outside the unit.



Selection Criteria

	Total	Each Unit	Required Capacity	
Flow:	167.0 GPM	167.0 GPM	935.20 MBH	
Fluid:	Water	Water	62.35 Tons	
Entering Fluid Temp:	86.2 F	86.2 F		
Leaving Fluid Temp:	75.0 F	75.0 F	Entering Dry Bulb	32.6 F
Entering Wet Bulb:	68.0 F	68.0 F	Switchover:	

Unit Selected

One(1) EVAPCO ATWB 7-5J9-Z at 105.7% capacity (988.10 MBH)

Product line is CTI/ECC certified for water, propylene glycol or ethylene glycol as process fluid. Selection is rated in accordance with CTI Standard 201 RS.



Physical Data Per Unit

Overall Dimensions (WxLxH):	7'-4" x 8'-11 1/2" x 12'-7 1/8"
Operating Weight:	13,080 lbs
Shipping Weight:	9,820 lbs
Heaviest Section:	8,230 lbs

*weights and dimensions could vary depending on options selected

IBC Design Capability

IBC Standard Structural Design	
1.0 Importance Factor Specified	
Seismic(Sds):	up to 1.6 g, z/h = 0
Wind Load(P):	up to 288 psf

Fan Motor Data per Unit

Number of Fans:	1
# of Fan Motors:	1
Nameplate Power (460/3/60):	15.00 HP Per Motor
Typical Nameplate FLA:	18 Amps Per Motor

*Nameplate FLA could vary

Pump Motor Data per Unit

No. of Pumps:	1
Nameplate Power (460/3/60):	2 HP per pump motor
Typical Nameplate FLA:	2.69 Amps Per Motor

*Nameplate FLA could vary

Additional Details Per Unit

Air Flow:	39,470 CFM
Coil Volume:	231.5 gal per unit
Coil Design Pressure:	250 psi
Riser Pipe Diameter:	4"

Hydraulic Data

Spray Water Flow:	410 GPM
Pressure Drop Through Coil:	4.7 psi
Evaporated Water Rate:	1.50 GPM

Accessories

(1) IBC Standard Structural Design	(1) 1.0 Importance Factor Specified	(1) CrossCool Coil
(1) Flanged Coil Connections	(1) 5-Probe Electronic Water Level Control Package	(1) Vibration Switch
(1) External Service Platform with Ladder	(1) Safety Cage	(1) Motor Davit with Base
(1) El. Heaters (-20F / -29C ambient) (1) 8 kW; 460/3/60	(1) Contactor w/Transformer and Disconnect for Heater Package	
(1) Fan Motor: Space Heaters	(1) Series Flow Operation	(1) Fan Motor: Inverter Capable, Premium Efficient