Closed Circuit Cooler Technical Data Sheet



(1) ATWB 7-5J9-Z

Troy Lambert 13042 Road Q NW

Quincy, Washington 98848

509-668-1172

troyl@fecompany.com

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

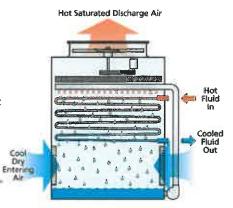
Contact: Vin Picone

Contact Email: Vin@netherind.com

Product Description

The ATWB is a prime-surface steel <u>coil only</u> 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: Fluid: Entering Fluid Temp:	167.0 GPM Water 86.2 F	167.0 GPM Water 86.2 F	935.20 MBH 62.35 Tons	
Leaving Fluid Temp: Entering Wet Bulb:	75.0 F 68.0 F	75.0 F 68.0 F	Entering Dry Bulb Switchover:	32.6 F



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

Fan Motor Data per Unit

Number of Fans: # of Fan Motors:

Nameplate Power (460/3/60): 15.00 HP Per Motor Typical Nameplate FLA: 18 Amps Per Motor

*Nameplate FLA could vary

IBC Design Capability

IBC Standard Structural Design

1.0 Importance Factor Specified Seismic(Sps):

Seismic(Sps): up to 1.6 g, z/h = 0Wind Load(P): up to 288 psf

Pump Motor Data per Unit

No.of Pumps:

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:

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) Flanged Coil Connections
- (1) External Service Platform with Ladder
- (1) El. Heaters (-20F / -29C ambient) (1) 8 kW; 460/3/60
- (1) Fan Motor: Space Heaters

- (1) 1.0 Importance Factor Specified
- (1) 5-Probe Electronic Water Level Control Package
- (1) Safety Cage
- (1) Contactor w/Transformer and Disconnect for

Heater Package

(1) Series Flow Operation

- (1) CrossCool Coil
- (1) Vibration Switch
- (1) Motor Davit with Base
- (1) Fan Motor: Inverter Capable, Premium Efficient