

AMERICAS
REGION



Tate.[®]



IMPERIAL DATA SHEET INFORMATION

Tate AHU

Air Handling
Unit Selection

tateglobal.com

**BUILDING A
SMARTER WORLD
TOGETHER.**

Tate’s containment-mounted AHU designed for data center environments, delivering localized airflow within the data hall to support hybrid cooling strategies.



AHU Design Specifications

Configuration (Length FT)	6.25
Elevation (FT)	0

REQUIREMENTS

Min Airflow CFM/KW	120
Fluid (water, glycol mix)	FRESH WATER
Cooling	
EAT Dry Bulb (F) (mixed air)	100
EWT (F)	65
LWT (F)	85



OUTPUT

Total Req'd Units (to supplement 496 kW)	4
Total Req'd Units (to supplement 406 kW)	3
Airflow (CFM) per Coil	8491
Airflow (CFM) per Unit	16892
Total Capacity (KW) per coil	68
Total Capacity (KW) per unit	136
Total Capacity (KW/FT)	21.76
LAT Dry Bulb (F)	74.4
LWT (F)	88
GPM per Coil	25.8
GPM per Unit	51.6
Fluid PD (ft)	13.4
Air Pressure Drop (inwc)	0.6

Electrical Data

Voltage	460-3-60
Fan Power (kW per fan)	5.8
Quantity of fans	2
Fan RPM	2428
Unit FLA	19.80
Unit MCA	22.30
Unit MOPD	30

Localized Air Handling for Hybrid Cooling Environments

Modular Construction

Separate blower section (~1000 lbs) and coil section (~1500 lbs) to support handling, transport, and installation.

Coil Design

Two with in-house manufactured coil slabs with flanged connections. Separate inlet and outlet headers due to space and assembly constraints.

Construction

Double-wall casing with 1" fiberglass insulation. Front panel access for manufacturing and assembly efficiency.

System Alignment

Designed to connect to facility water loop (Project-specific coil runs at your facility loop temperatures available upon request).

Controls via 0–10V signal with on/off functionality. Integrated/custom controls solutions available to meet your BMS needs.

Designed for Accessibility

Provides easy access for maintenance post-deployment.



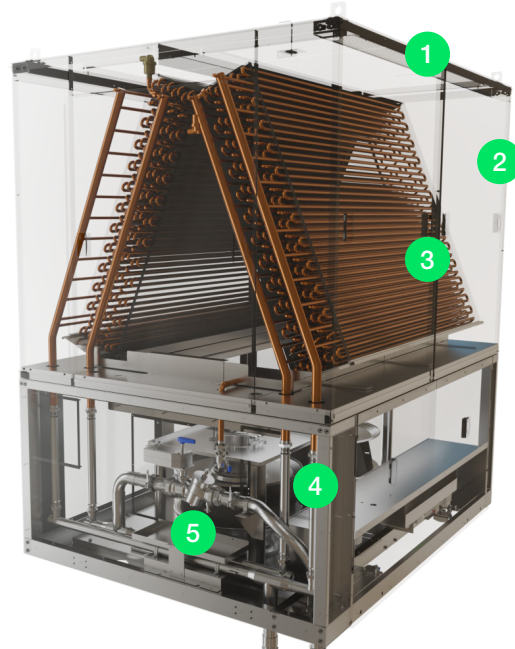
AHU Anatomy

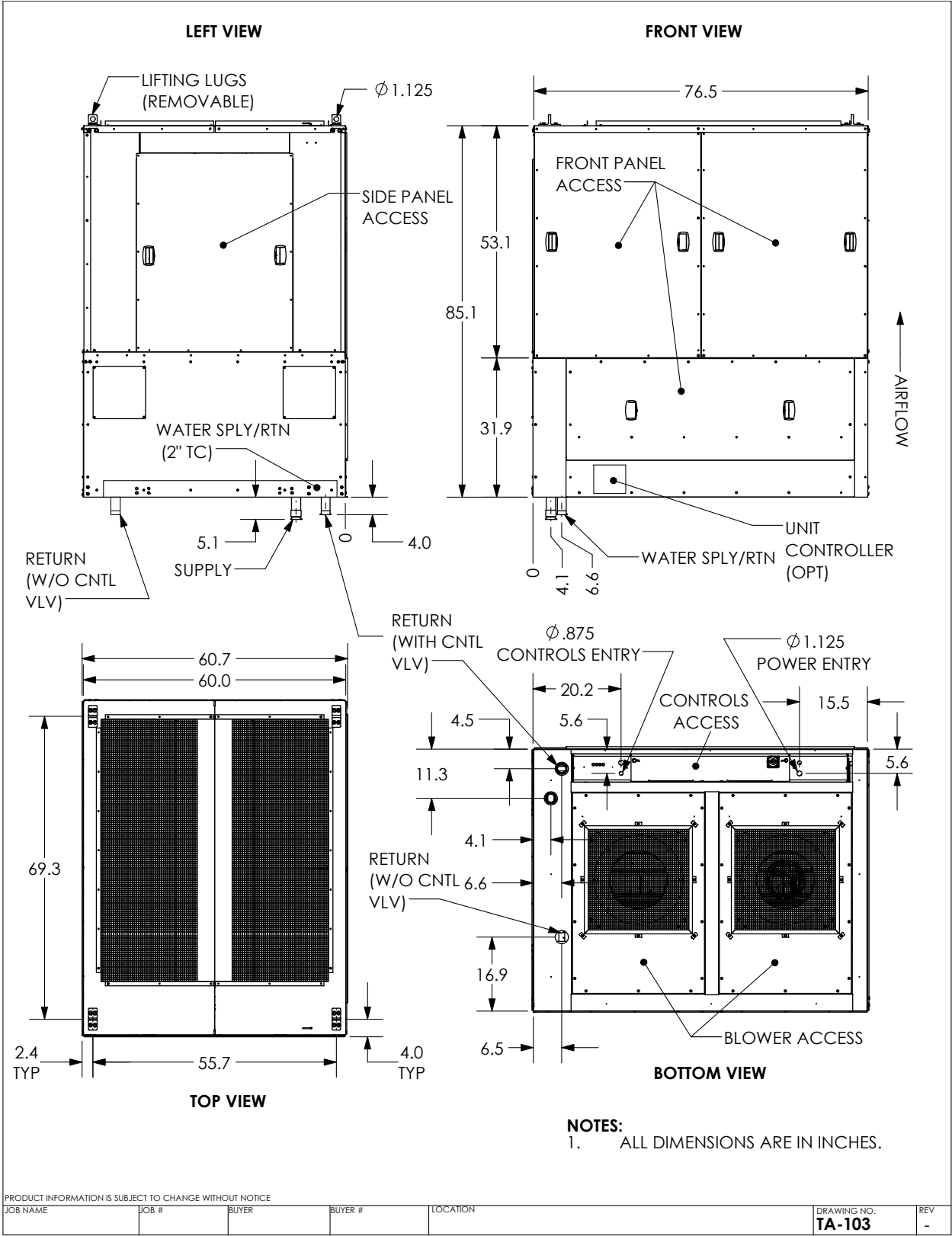
Every element of a Tate AHU is engineered for performance, reliability, and integration. From the blower and coil sections to connections and casing, each component is designed to work as part of a unified system, delivering localized cooling at the HAC.

Factory Assembly

All Tate AHU systems are manufactured, assembled, and tested in our factories, and shipped ready to deploy, whether as part of a HAC assembly or stand alone.

- 1 **Modular Construction**
Sectional design simplifies handling, transport, and installation
- 2 **Double Wall Casing**
Ensures structural strength, durability, and consistent thermal insulation
- 3 **Coil Systems**
Engineered coil configurations support effective heat transfer and stable thermal performance
- 4 **Fan / Blower Systems**
High-efficiency fans deliver controlled, scalable airflow across containment or open environments
- 5 **Integrated Connections**
Designed for reliable mechanical and hydraulic integration across system types





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