



SAMPLE DATASHEET

Ref: VEL-HVAC-CHL-300-2026
Issued: May 2026

VELORA

Air-Cooled Screw Chiller — 300 TR

R-134a · semi-hermetic twin-screw · AHRI 550/590 rated · for commercial HVAC plants.

CAPACITY

300 TR / 1055 kW

REFRIGERANT

R-134a

STANDARD

AHRI 550/590 · EUROVENT

Engineering-Driven Supply.

Velora Engineering & Trading PLC · Addis Ababa, Ethiopia · www.veloraet.com

SAMPLE / INDICATIVE DATASHEET — actual specification confirmed at quotation

Air-Cooled Screw Chiller — 300 TR

R-134a · semi-hermetic twin-screw · AHRI-rated · for commercial HVAC plants.

1. Performance

Cooling Capacity	300 TR (1055 kW) at AHRI 550/590 standard conditions
Power Input (full load)	≈ 320 kW · EER ≥ 3.30 W/W
IPLV (Part-Load)	≥ 4.50 W/W (kW/TR ≤ 0.78)
Chilled Water	12.2 / 6.7 °C in/out · flow ≈ 45 L/s
Ambient Range	−10 °C to +48 °C
Reference Code	VEL-HVAC-CHL-300-2026

2. Compressor & Refrigerant

Compressor	2 × semi-hermetic twin-screw, stepless capacity control
Capacity Steps	25 – 100% modulation
Refrigerant	R-134a (low-GWP R-1234ze option)
Oil System	Internal oil separator with electric heater
Sound Level	≤ 78 dB(A) @ 10 m (low-noise version)

3. Heat Exchangers

Evaporator	Flooded shell-and-tube · copper inner-grooved tubes
Condenser	Microchannel aluminium coils · EC fans
Water-Side Pressure Drop	≤ 60 kPa
Insulation	Closed-cell elastomeric foam, 19 mm

4. Controls

Controller	Microprocessor · colour HMI
Communication	BACnet/IP · Modbus RTU · optional LonWorks
Protections	High/low pressure, freeze, oil flow, motor overload
Diagnostics	Event log, performance trend, remote access

5. Construction

Frame	Galvanised steel, polyester powder-coated finish
Dimensions (L×W×H)	≈ 6500 × 2200 × 2400 mm
Operating Weight	≈ 5,800 kg
Connections	Victaulic groove, 6" / DN150

6. Compliance & Standards

- AHRI 550/590 — Performance rating of water-chilling packages.
- EUROVENT chiller certification.
- EN 14511 — Air conditioners and chillers performance test.
- PED 2014/68/EU — Pressure equipment directive.

7. Documentation Provided

- AHRI / EUROVENT certified performance sheet.
- Mechanical and electrical schematic drawings.
- Sound power data and dimensional drawings.
- Commissioning protocol and O&M manual.

Sample configuration. Final make, model and ratings are confirmed against the project load schedule at quotation.