

APEX sequence for licensed HVAC Install packet

Overview

Panthaire APEX is a factory-charged, fully ducted wine cellar cooling unit. The contractor sets it in a conditioned space, runs insulated supply and return, drains condensate, and leaves the cellar with grilles only.

Installation sequence

1. Confirm ambient

Confirm the mechanical space is conditioned to 50–77°F (10–25°C) year-round before bidding.

2. Set the unit

Set the Panthaire APEX unit with published clearances. Do not enclose it.

3. Run ducts

Run insulated supply and return within the lengths in the ductwork guide (25 ft maximum per run).

4. Drain

Slope the condensate line to an approved receptor. Prime the trap.

5. Electrical

Dedicated 115V circuit: 15A for APEX 3500 and 5000, 20A for APEX 7000.

6. Commission

Commission to 55°F (13°C). Review the ambient range with the owner. Modifications after commissioning by unlicensed persons void the warranty.

Warranty conditions

Ambient range

Garages, attics, and crawlspaces do not meet the 50–77°F (10–25°C) condition. The unit will not hold 55°F (13°C) outside this range.

Licensed installation

The warranty requires installation by a licensed HVAC contractor. State it on the ticket. 2 years warranty.

Airflow

Closed grilles, crushed flex, and decorative screens over the return reduce capacity and present as compressor faults.

Model	APEX3500	APEX5000	APEX7000
Cooling Capacity (BTU/h)	3353	4462	6346
Cellar Size (cu. ft.) with R20 insulation	Up to 900	Up to 1200	Up to 2000
Refrigerant	R290	R290	R290
Power Supply	115V/60Hz, 15A	115V/60Hz, 15A	115V/60Hz, 20A
Current Draw	7.5A	9.2A	12.8A
Dimensions (L x W x D)	28.4" x 12.2" x 12.2"	33.9" x 13.8" x 13.8"	40.2" x 15.8" x 15.8"
Weight	36 kg (79.4 lbs)	40 kg (88.2 lbs)	43.5 kg (95.9 lbs)
Duct Size (Supply)	8"	8"	8"
Duct Size (Return)	8"	8"	10"
Max Duct Length	25' per duct	25' per duct	25' per duct
Air Flow Speed I (CFM)	260	360	470
Temperature Range*	50–70°F	50–70°F	50–70°F
Drain Connection	5/8" ID	5/8" ID	5/8" ID
Warranty	2 years		

*Conditions: 50–70°F (10–21°C) cellar, 50–77°F (10–25°C) ambient at the unit.