

Air Conditioning

Commercial Split Type



Multiposition Air Handler
R410A
7.5-10-15-20 TON

RESOLUTE

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Product Introduction

At Adina Air Conditioning, we are proud to present our new line of air conditioners for commercial applications.

Designed to meet the most demanding sector requirements, this line of split-type systems offers cooling capacities of 7.5, 10, 15, and 20 tons, ensuring superior performance and unparalleled energy efficiency.

The Resolute series from Adina Air Conditioning stands out for its robustness and reliability, essential characteristics for commercial environments that require high-capacity climate control solutions. These split-type systems combine installation flexibility with simplified maintenance, allowing optimal adaptation to various architectural configurations and operational needs.

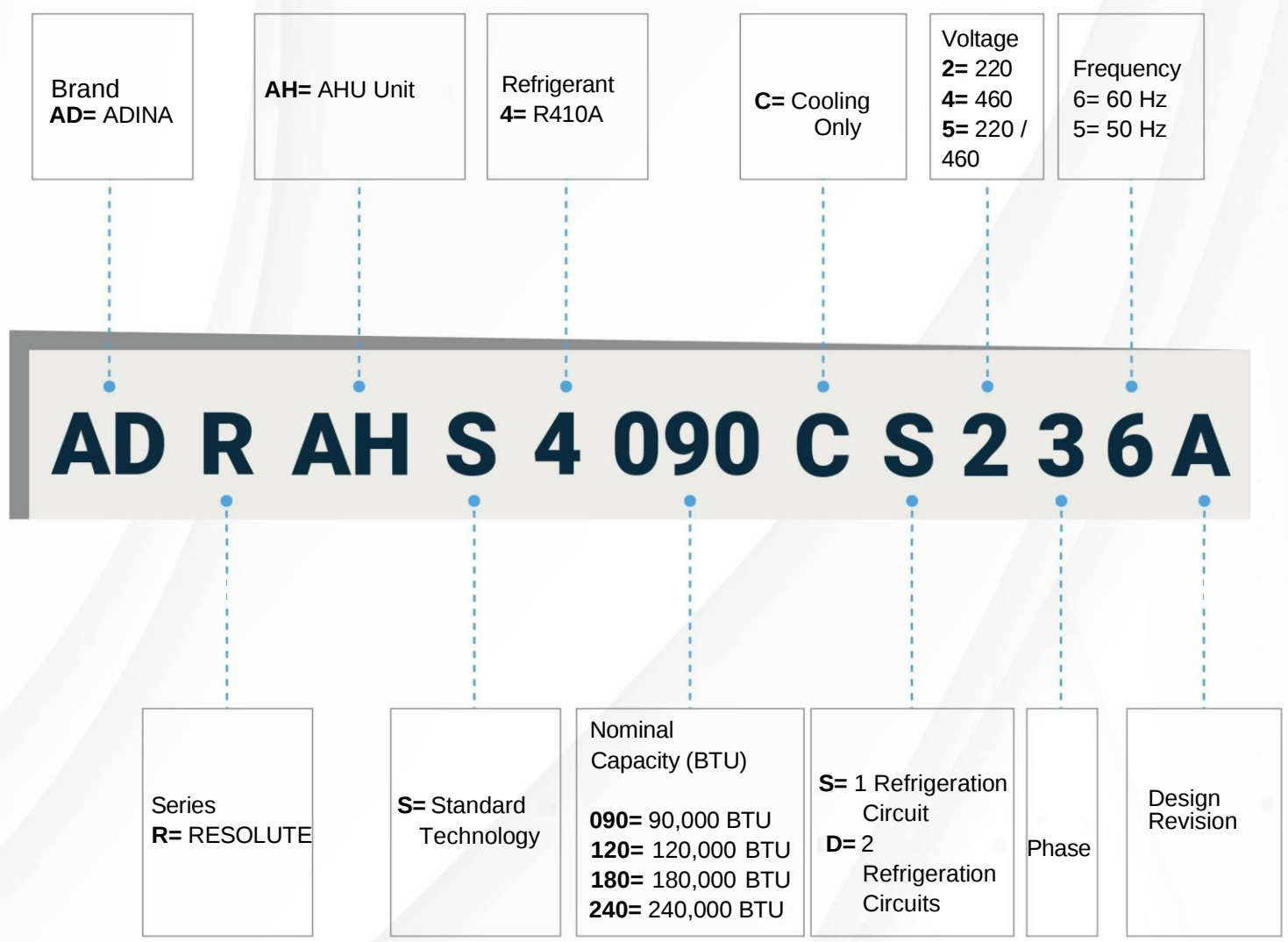
At Adina Air Conditioning, our mission is to continue innovating and developing products that keep us at the forefront of the climate control industry. The Resolute series is yet another example of our commitment to excellence and our dedication to offering solutions that not only meet but exceed our customers' expectations.

Currently, Adina Air Conditioning is marketed throughout Latin America, consolidating our presence and strengthening our reputation as market leaders in the air conditioning sector. The Resolute series is not just a new addition to our portfolio but a tangible proof of our ability to innovate and adapt to the changing market needs.

Discover how Adina Air Conditioning's Resolute series can transform your commercial space, offering exceptional comfort and unmatched efficiency. Welcome to a new era of climate control with Adina Air Conditioning.

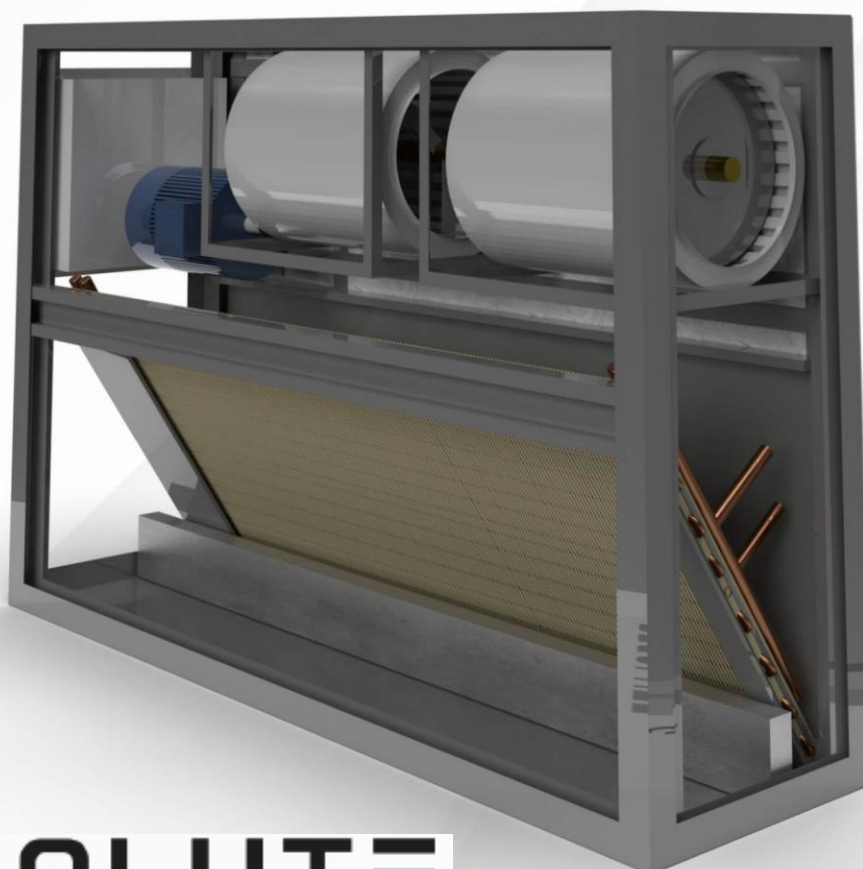
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Nomenclature



Features

- The air handler unit is designed for both vertical and horizontal installation.
- It is equipped with a stainless-steel water tray suitable for vertical and horizontal use.
- Features air return filters with a G4 paper frame.
- Includes a copper heat exchanger with hydrophilic aluminum fins treated with Gold Fin, resistant to corrosion and saline environments.
- The unit panel is made of polyurethane-insulated steel and painted in dark gray.
- Supports dual power sources: 220V/3PH/60HZ and 460V/3PH/60HZ; wiring uses a yellow background label, marking the 220V and 460V power terminals.
- Dual system, refrigerant R410A, with controller and expansion valve.
- In the 7.5-ton capacity, there is only one refrigeration circuit.



Components

Control and Power Electrical Panel

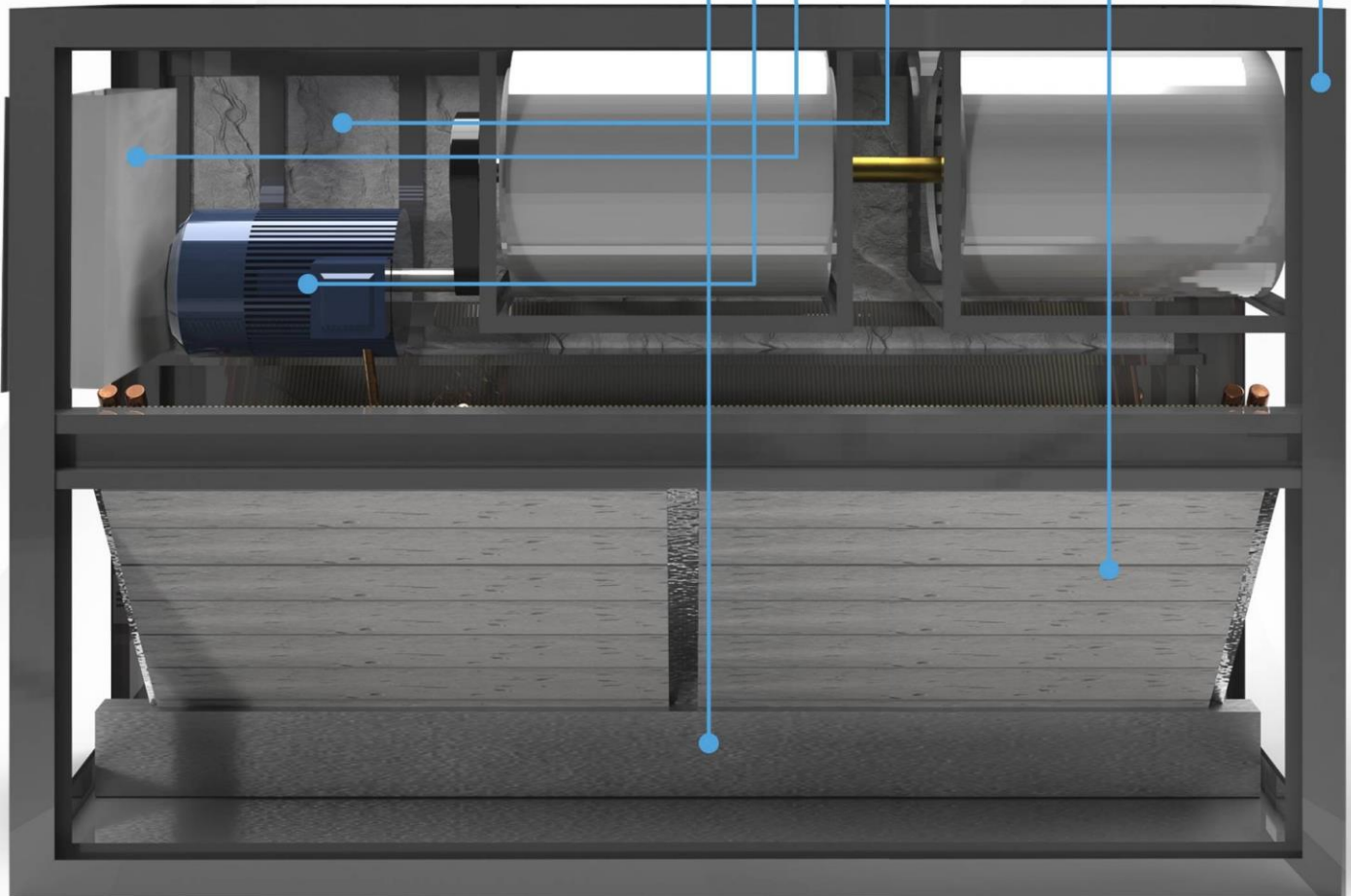
High-Efficiency Fan Motor

G4 Air Filter

Galvanized Steel Structure

Polyurethane Insulation Panel with
Aluminum Foil

Stainless Steel Drain Tray



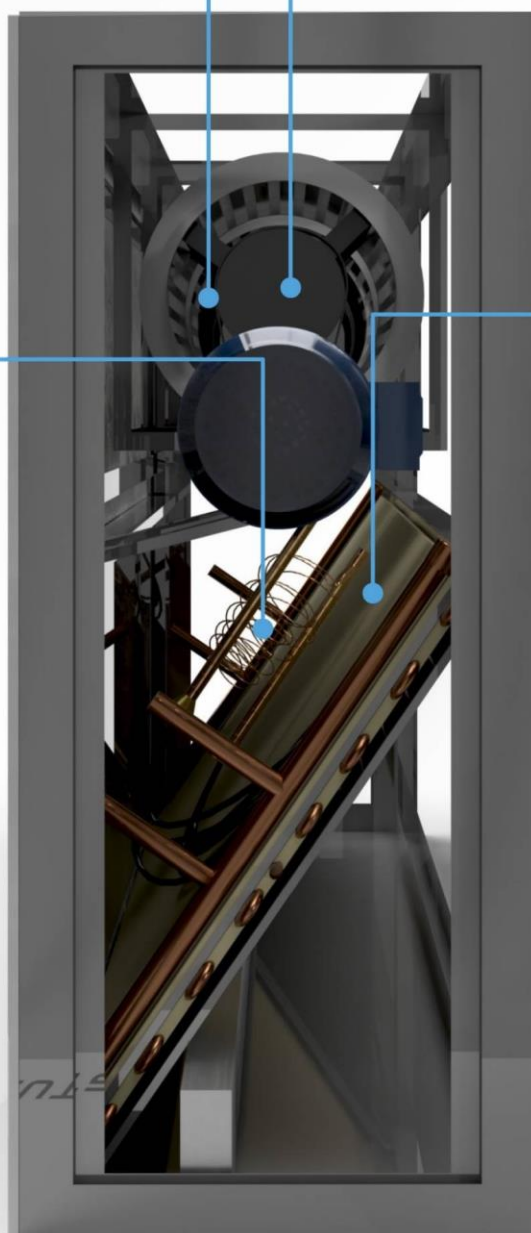
Components

Belt

Adjustable Pulley

Thermostatic
Expansion
Valve

Thermostatic
Expansion
Valve



Specifications

SPECIFICATIONS	ADRAHS4090CS536A	ADRAHS4120CD536A	ADRAHS4180CD536A	ADRAHS4240CD536A
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Capabilities

Nominal Capacity (Tons)	7.5	10	15	20
m ³ /h	5100	6800	10200	13600
CFM	3000	4000	6000	8000

Electrical Data

Voltage-Hz-Phase	230-60-3 or 460-60-3	230-60-3 or 460-60-3	230-60-3 or 460-60-3	230-60-3 or 460-60-3
Voltage Range	209V-242V / 437V-500V	209V-242V / 437V-500V	209V-242V / 437V-500V	209V-242V / 437V-500V
FLA(Total)	(230V-5.95A)/(460V-3A)	(230V-5.95A)/(460V-3A)	(230V-5.95A)/(460V-3A)	(230V-5.95A)/(460V-3A)

Blower Motor

Type	Belt-Driven	Belt-Driven	Belt-Driven	Belt-Driven
Horsepower	2	3	4	5 1/2
Voltage-Hz-Phase	230-60-3 or 460-60-3	208/240-60-3 or 460-60-3	208/240-60-3 or 460-60-3	208/240-60-3 or 460-60-3

Blower and Controls

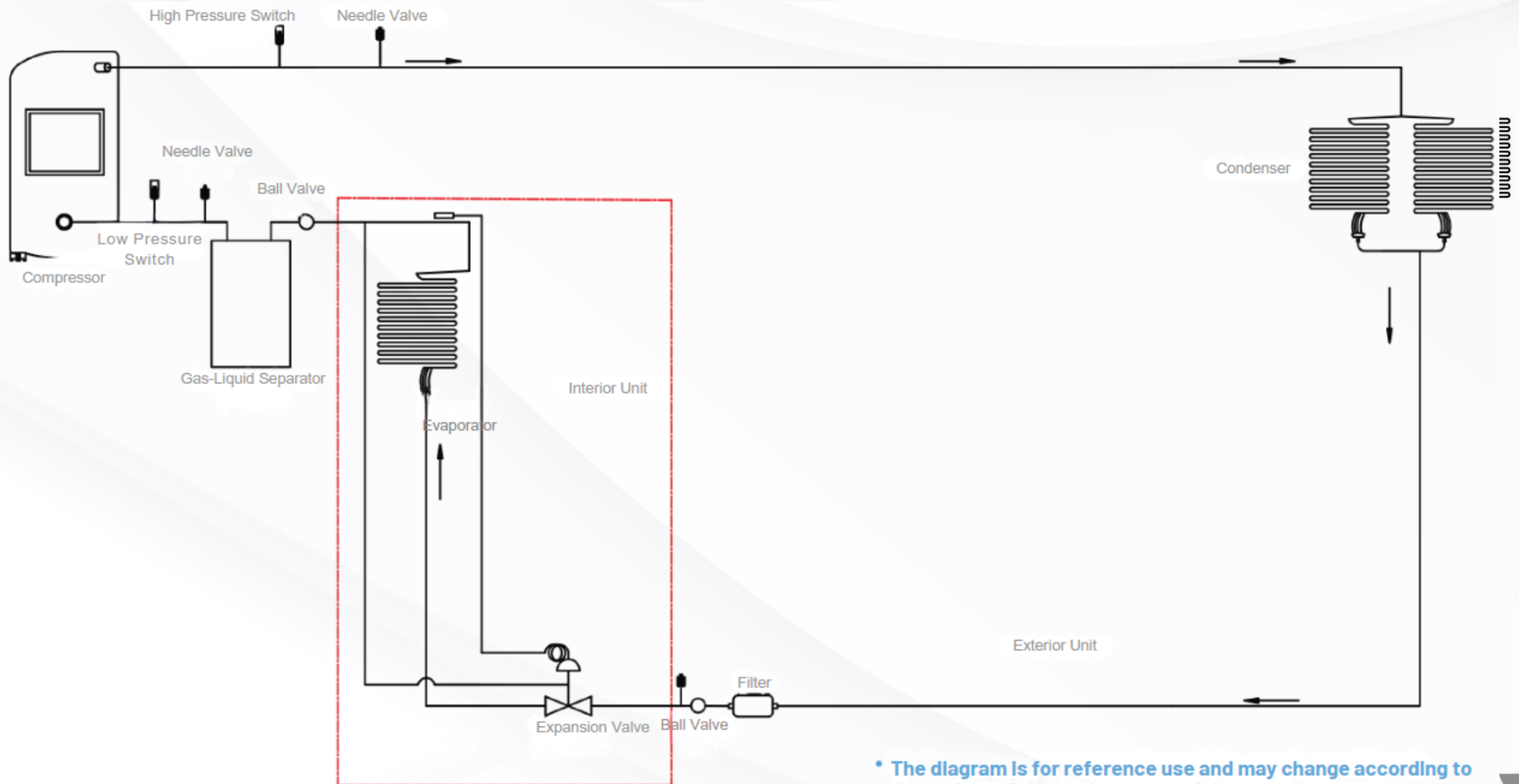
Diameter and Wheel Width (Quantity)	123.6x35mmx (2)	120.6x35mmx (2)	175.6x35mmx (2)	190.6x35mmx (2)
Pulley Pitch Diameter	118 mm	115 mm	170 mm	185 mm
Inner Diameter	25 mm	25 mm	30 mm	30 mm
Pulley Pitch Diameter of the Motor	90 mm	95 mm	106 mm	100 mm
Inner Diameter	24 mm	28 mm	28 mm	28 mm
Belt Length and Width	800 x13 mm	800x13 mm	982x13 mm	1060x13 mm
Transformer	Standard	Standard	Standard	Standard
Blower Relay	Standard	Standard	Standard	Standard

Filter, Coil, and Refrigerant

Disposable Filter Size/Quantity	545x590mm (2)	670x590mm (2)	480x800mm (3)	547x884mm (3)
Coil Area (Square Feet)	7	8	12	15
FPI Rows	12.7-4	12.7-4	12.7-4	12.7-4
Number of Expansion Valves	1	2	2	2
Refrigerant	R-410a	R-410a	R-410a	R-410a
Liquid Connection (Quantity)	5/8 (1)	1/2 (2)	5/8 (2)	5/8 (2)
Suction Connection (Quantity)	7/8 (1)	7/8 (2)	7/8 (2)	1-1/8 (2)
Condensate Drain	1"	1"	1"	1"
Net Weight (Kg)	220	245	320	380
Gross Weight (Kg)	240	267	343	405

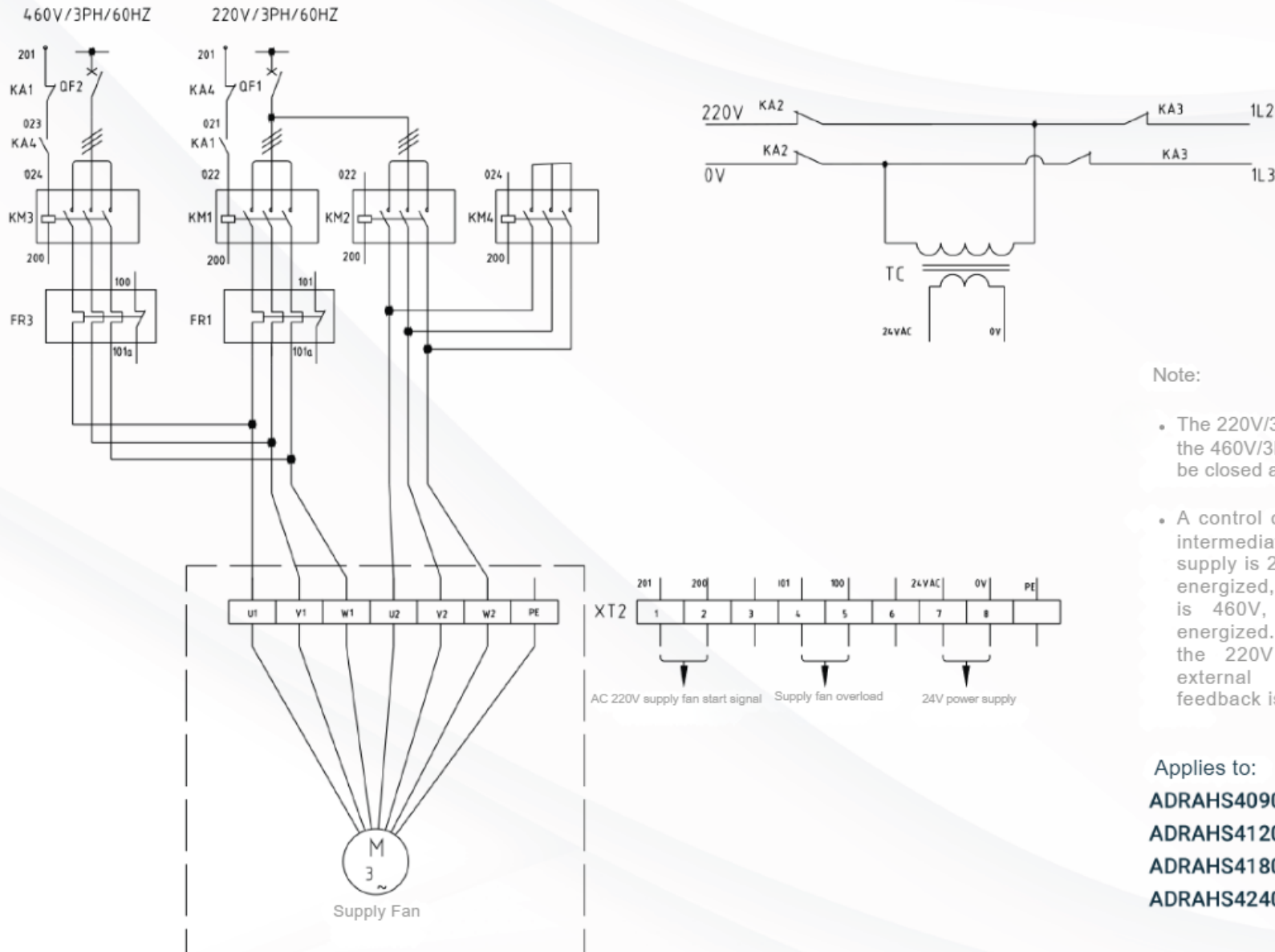
Diagrama

Mecánico



• The diagram is for reference use and may change according to the update of the equipment model.

Electrical Diagram



Note:

- The 220V/3PH/60HZ QF1 breaker and the 460V/3PH/60HZ QF2 breaker cannot be closed at the same time.
- A control circuit is formed through the intermediate relay. When the power supply is 220V, the KM1/2 contactor is energized, and when the power supply is 460V, the KM3/4 contactor is energized. The fan starts to receive the 220V control signal from the external unit, and the overload feedback is in a passive state.

Applies to:

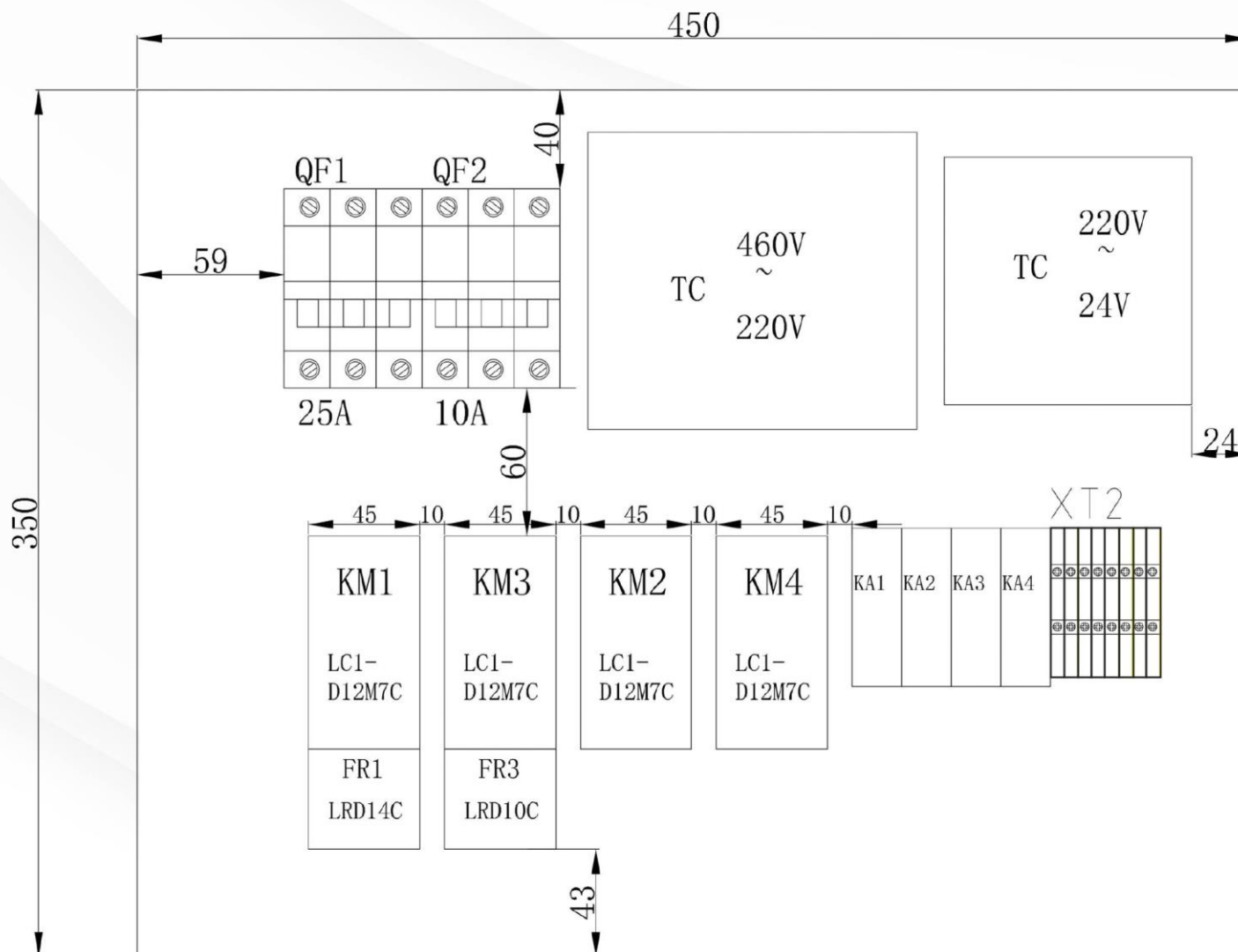
ADRAHS4090CS536A

ADRAHS4120CD536A

ADRAHS4180CD536A

ADRAHS4240CD536A

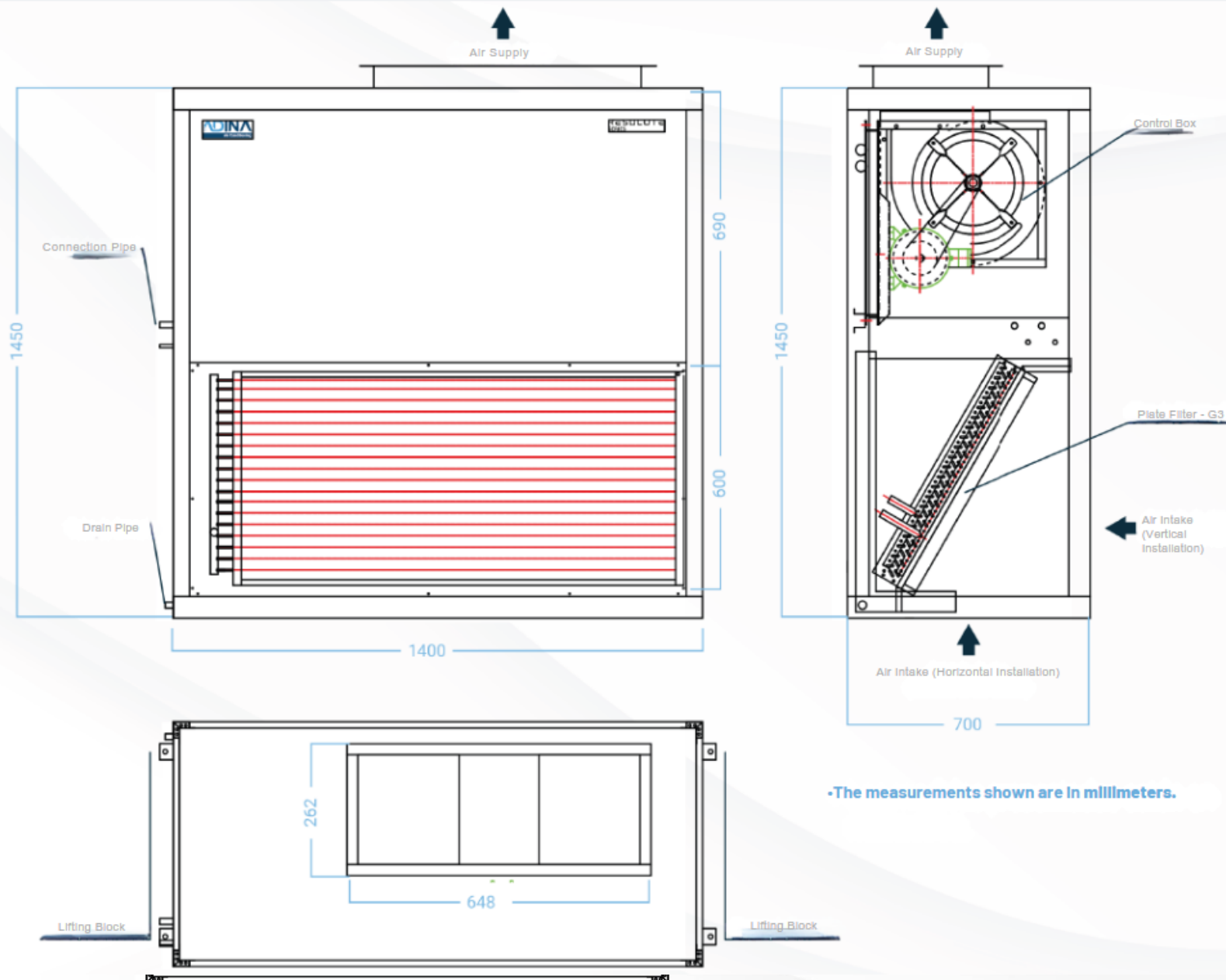
Arrangement of Electrical Components



Applies to: ADRAHS4090CS536A - ADRAHS4120CD536A - ADRAHS4180CD536A - ADRAHS4240CD536A

Dimensions

Applies to models: ADRAHS4090CS536A

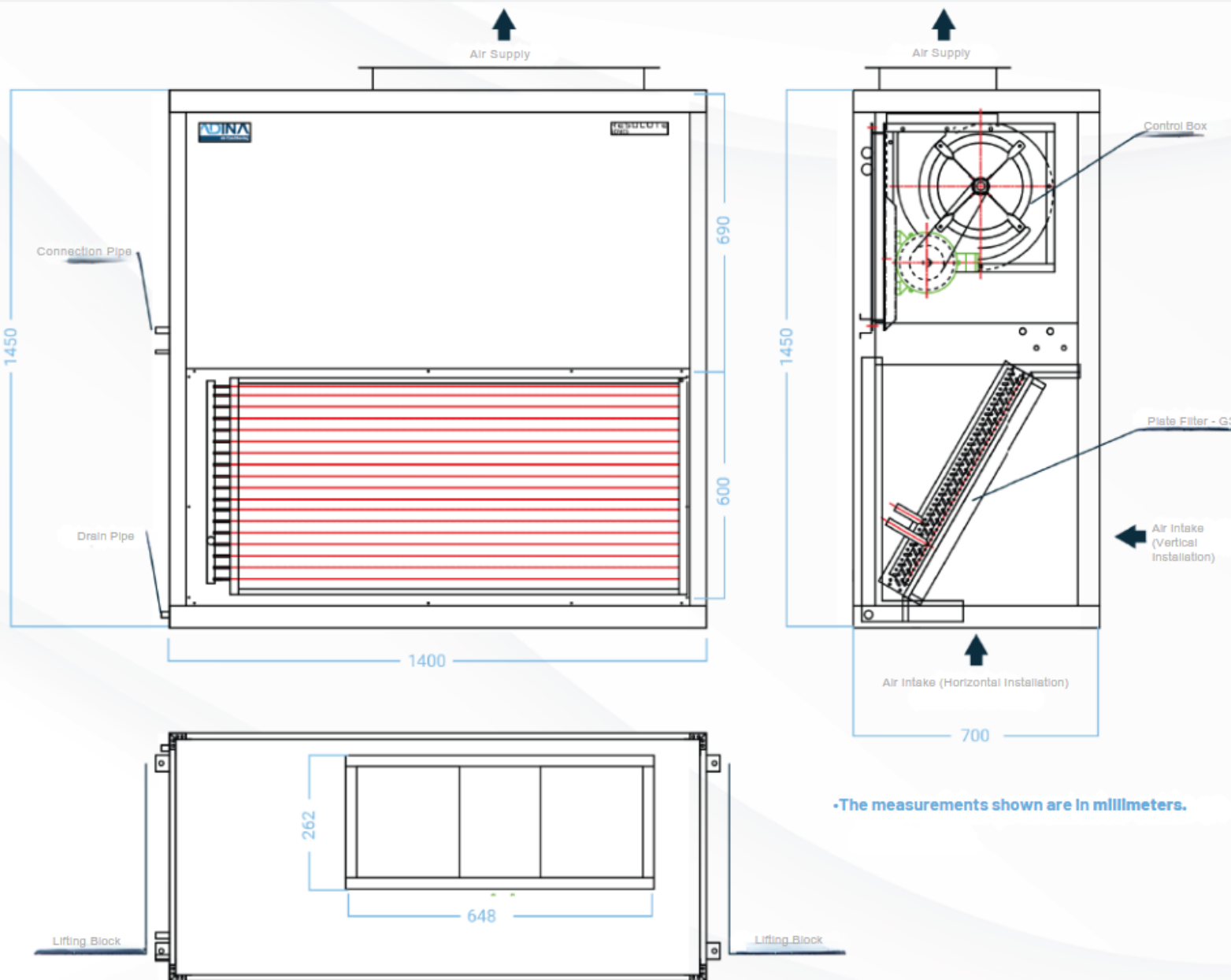


•The measurements shown are in millimeters.

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Dimensions

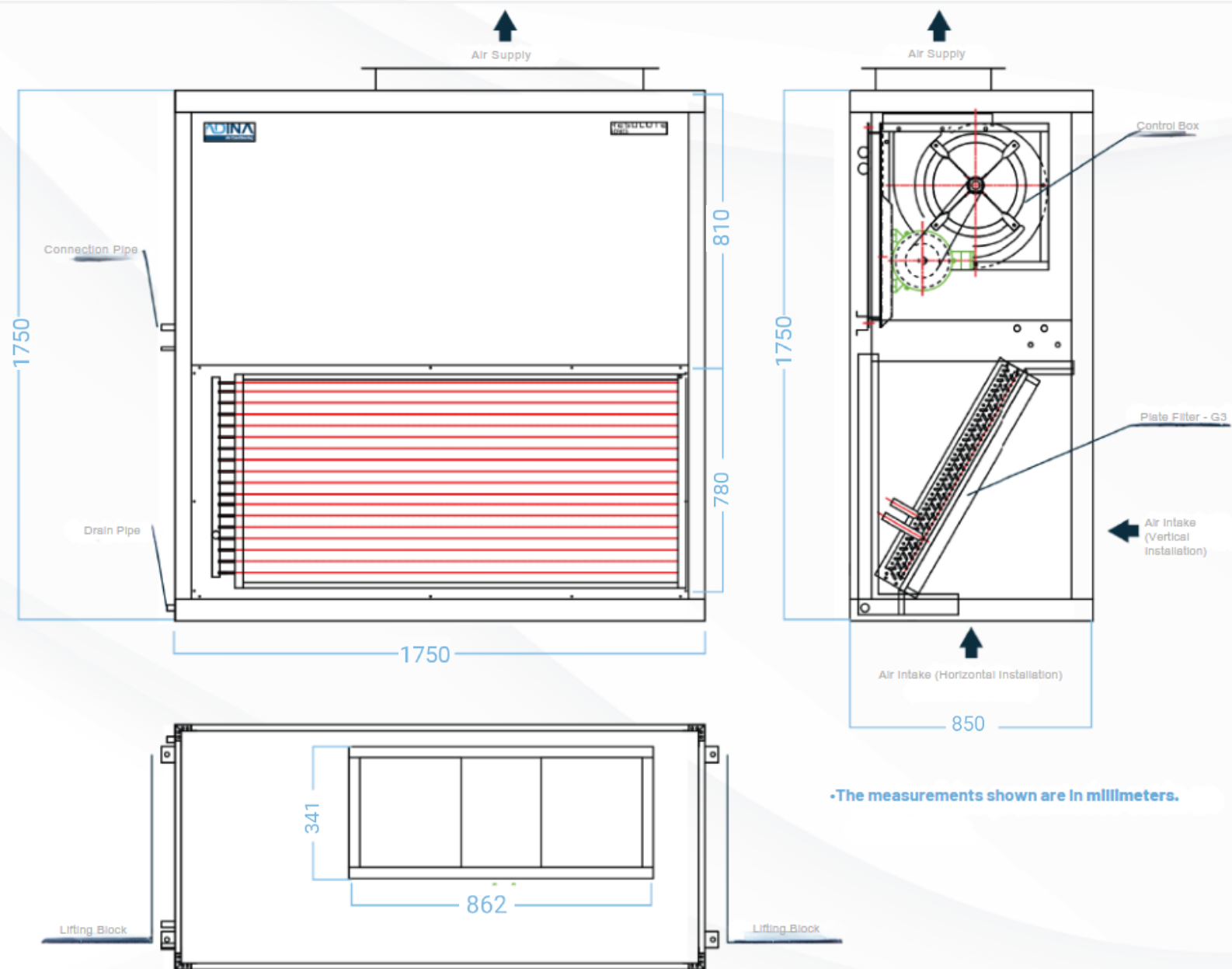
Applies to models: ADRAHS4120CD536A



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Dimensions

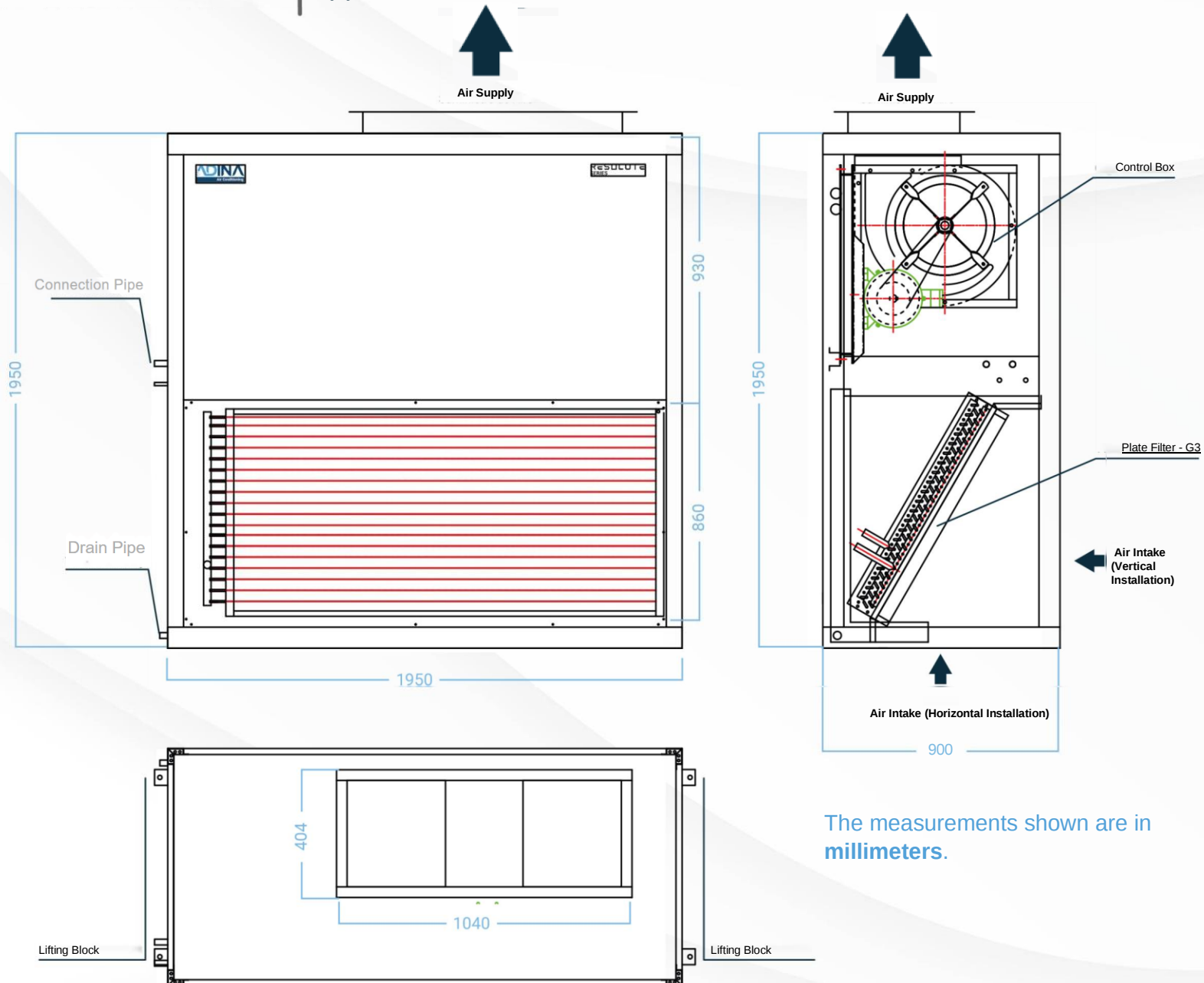
Applies to models: ADRAHS4180CD536A



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Dimensions

Applies to models: ADRAHS4240CD536A



The measurements shown are in millimeters.

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