

Alindair

INDUSTRIAL COOLING SYSTEM
PRODUCT CATALOG
2024



Alindair
ALL IN AIR

TO EVERY CORNER OF THE WORLD
**WITH A RAPID
TRANSPORTATION NETWORK**



***Kabel* Coolstein Greenpad**

ABOUT

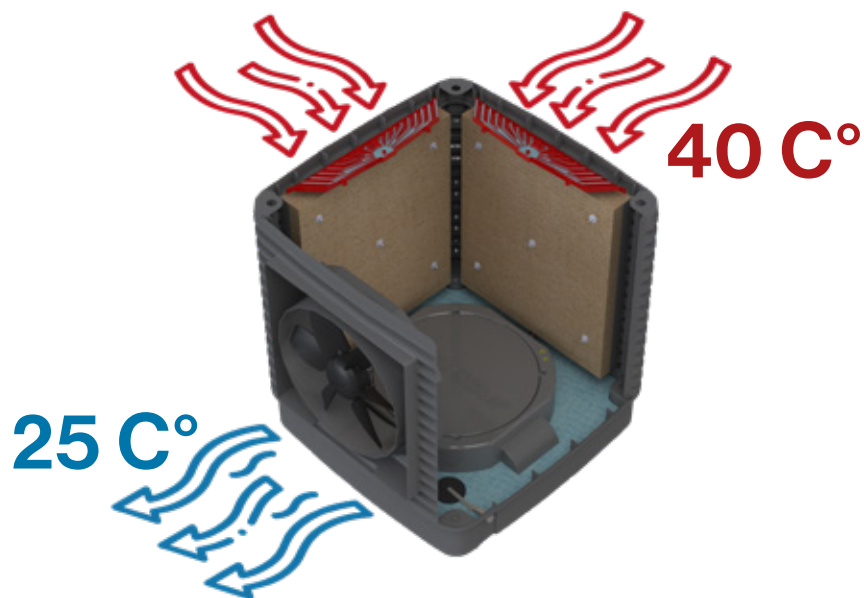
As Alindair Industrial Cooling Systems, we carry out 100% local production in Turkey, delivering clean living spaces to our national and international stakeholders with our environmentally friendly, innovative, and healthy products and services, ensuring comfortable production.

We modernize evaporative cooling a technique with numerous historical example, and conduct sustainable and environmentally friendly production.

As Alindair, a manufacturer of industrial cooling solutions and high-performance Greenpad, we bring together yesterday's, today's, and future technologies with comfort, efficiency, and health through our extensive product range and industry experience.

WHAT IS EVAPORATIVE COOLING?

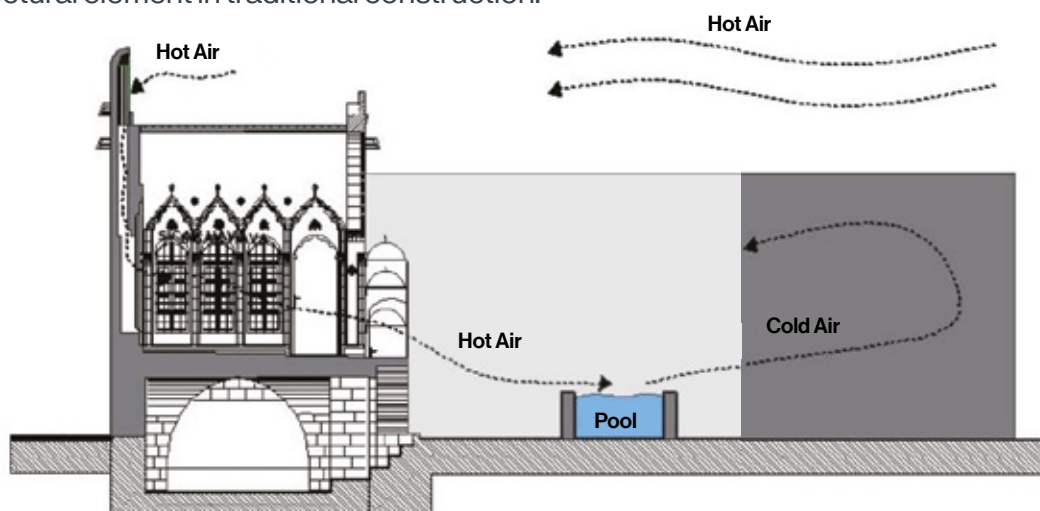
Evaporative cooling works based on the principle of heat absorption from the environment through the evaporation of water. As fresh air from the outside passes through the cooling pads, causing water to evaporate; resulting in the delivery of cool and fresh air to the interior space. The refreshing sensation



In History, Evaporative Cooling

The ancient Greeks, Romans, and Egyptians used evaporative cooling by simply placing wet mats in front of windows and tent openings. The warm air blowing from the vents assisted in maintaining a reasonable temperature inside.

This method was the most primitive example of evaporative cooling. Subsequently, it started to be utilized as an architectural element in traditional construction.

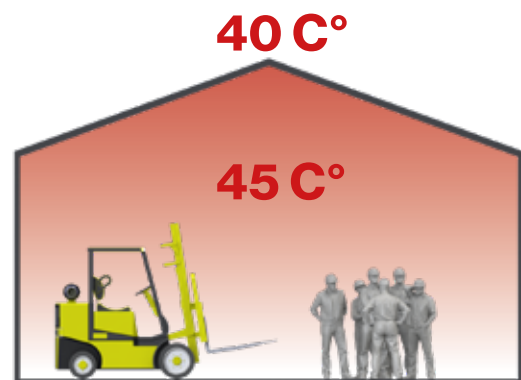


Evaporative Cooling X Air Conditioner

	PLUS 20	SALON SPLIT
Capacity	20.000 m ³ /h	24.000 Btu
Energy Consumption	1.54 kWh	2,2 kWh
Coverage Area	200 m ²	53 m ²
Number of Devices Required for a 200 m ² Area	1	4
Hourly Air Exchange Rate in the Space	30	0
Annual Energy Consumption of a Single Device (10 hours - 365 days)	5.621 kW	8.030 kW
Total Annual Energy Consumption (for 200 m ²)	5.621kW	32.120 kW
Annual Energy Consumption Cost (0.3 \$/1 kW)	1.686 \$	9.636 \$
Energy Consumption Ratio Compared to Conventional Air Conditioning (for 200 m ²)	%18	%100



Alindair Applied Field



Alindair Unapplied Field

Psychometric Chart		Ambient Relative Humidity %								
		10	20	30	40	50	60	70	80	90
Ambient Dry Bulb Temperature °C	20	9.5	10.9	12.2	13.5	14.7	15.9	17.0	18.1	19.0
	25	12.6	14.4	16.0	17.5	19.0	20.3	21.6	22.8	23.9
	30	15.8	17.9	19.8	21.6	23.2	24.7	26.2	27.5	28.8
	35	18.8	21.3	23.6	25.6	27.5	29.2	30.8	32.3	33.7
	40	21.9	24.8	27.4	29.7	31.8	33.7	35.5	37.1	38.6
	45	24.8	28.2	31.2	33.8	36.1	38.2	40.1	41.9	43.5
	50	27.8	31.7	35.0	37.9	40.5	42.7	44.8	46.7	48.4

Taking Gaziantep province as an example, with an outdoor temperature of 40°C and a relative humidity of 10%, the intersection of these two sets indicates the transferred indoor air temperature (21.9°C).

Plastic Enclosure

- Polymer - Based PP
- Rust - Resistant
- Resistance to Sunlight and Adverse Weather Conditions
- UV Stabilizer

Fan

- R&D Proudct
- Six-Blade
- High Airflow
- Low Noise Level



Motor

- Utilization of IE2 and IE3 Alternative Motors
- 100% Copper Winding



Greenpad

- 100% Cellulose - 110 g/m²
- American-Origin Domestic Production
- Resistant in Harsh Climates and Weather Conditions
- Solution to Epidemic Diseases

Float



Water Distribution System

- R&D Product
- Original Design
- Equal Water Distribution
- Unclogged Wide Water Channel



Drainage System

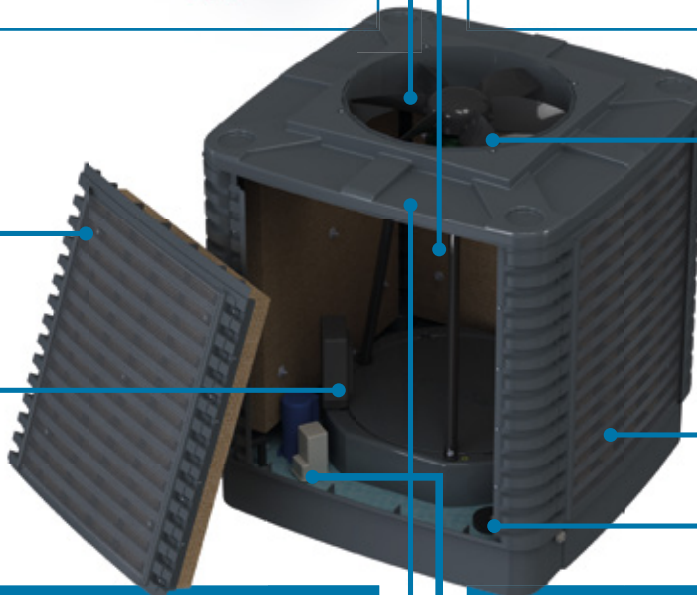
- Drain Valve / Drain Pump
- Adjustable Within a Range of 3 to 72 Hour

Control System

- Control Panel & Frequency Inverter
- Ease of use with a simple design
- Adjustable humidity and Temperature Values

Dust Filter

- Prevents Dust, Pollen, and Other Particles
- Ergonomic Design
- Assembly and Disassembly



15 Year
Cabin
Warranty

5 Year
Motor
Warranty

2 Yıl
Accessory
Warranty

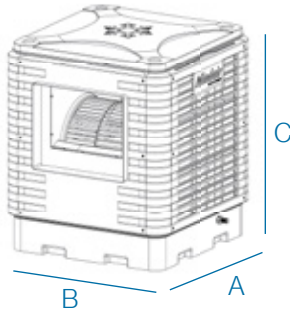


PLUS 10



Plus 10

Yandan Üfleme



Technical Specifications	Plus 10 Side Discharge
Airflow	10.000 m ³ /h
Motor Power	0,75 kW
Fan Pressure	250 Pa
Motor Current	2,5 A
Voltage	220 - 240V / 50Hz - 60Hz
Fan Type	Radial
Fan Diameter	Ø 380 mm - W 296 mm
Fan Capacity	12 Stage Speed
Maximum Fan Speed	600 Rpm
Cooling Pad Dimension	(550mm * 680mm * 70mm) * 3 adet
Cooling Pad Area	1,12 m ²
Tank Capacity	40 L
Drainage Function	Automatic
Case Dimensions	A:765mm * B:765mm * C:905mm
Net Weight	34 kg
Operating Weight	70 kg
Channel Connection Size	435mm * 365mm
Water Inlet	1/2" Male BSP

15 Year
Cabin
Warranty

5 Year
Motor
Warranty

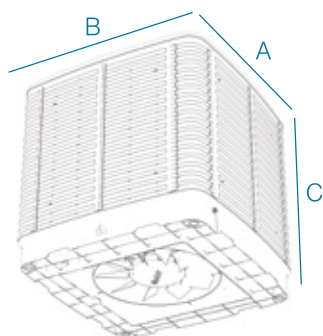
2 Yıl
Accessory
Warranty

PLUS 20



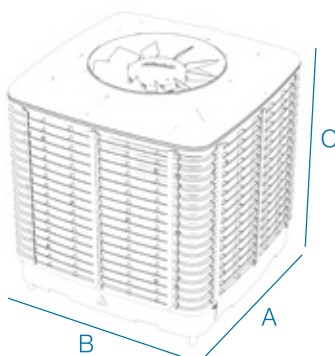
Plus 20

Bottom Discharge



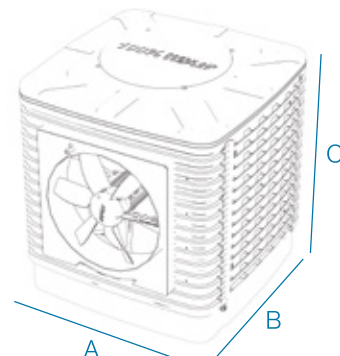
Plus 20

Top Discharge



Plus 20

Side Discharge



Technical Specifications	Plus 20 Bottom Discharge	Plus 20 Top Discharge	Plus 20 Side Discharge
Airflow	20.000 m³/h	20.000 m³/h	20.000 m³/h
Motor Power	1,5 kW	1,5 kW	1,5 kW
Fan Pressure	230 Pa	230 Pa	230 Pa
Motor Current	6,2 A	6,2 A	6,2 A
Voltage	220-240V / 50Hz	220-240V / 50Hz	220-240V / 50Hz
Fan Type	Axial	Axial	Axial
Fan Diameter	Ø 610 mm	Ø 610 mm	Ø 610 mm
Fan Capacity	12 Stage Speed	12 Stage Speed	12 Stage Speed
Maximum Fan Speed	1440 Rpm	1440 Rpm	1440 Rpm
Cooling Pad Dimension	870mm * 760mm * 100mm / 4 pcs	870mm * 760mm * 100mm / 4 pcs	870mm * 760mm * 100mm / 3 pcs
Cooling Pad Area	2,65 m²	2,65 m²	2 m²
Tank Capacity	50 L	50 L	50 L
Drainage Function	Automatic	Automatic	Automatic
Case Dimensions	A: 1120 mm * B: 1120 mm * C: 1220 mm	A: 1120 mm * B: 1120 mm * C: 1220 mm	A: 1120 mm * B: 1120 mm * C: 1220 mm
Net Weight	80 kg	80 kg	76 kg
Operating Weight	120 kg	120 kg	116 kg
Channel Connection Size	705 mm * 705 mm	715 mm * 715 mm	695 mm * 695 mm
Water Inlet	1/2" Male BSP	1/2" Male BSP	1/2" Male BSP

15 Year
Cabin
Warranty

5 Year
Motor
Warranty

2 Yıl
Accessory
Warranty

PLUS 20 MOBİL



Plus 20

Mobil



Technical Specifications

Plus 20 Side Discharge

Air Flow Rate	20.000 m ³ /h
Motor Power	1,5 kW
Motor Current	7,8 A
Voltage / Frequency	220-240V / 50Hz - 60Hz
Fan Type	Axial
Fan Diameter	605 mm
Fan Velocity	3 Stage Speed
Pad Dimensions	(760mm * 870mm* 100mm) * 4 pcs
Pad Area	2,7 m ²
Tank Capacity	65 L
Drainage	Manual
Dimensions	1120mm * 1120mm * 2220mm

15 Year
Cabin
Warranty

5 Year
Motor
Warranty

2 Yıl
Accessory
Warranty

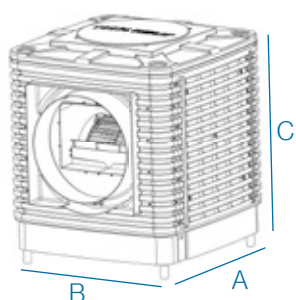


PLUS 25



Plus 25

Side Discharge



Technical Specifications	Plus 25 Side Discharge
Airflow	15.000 m³/h
Motor Power	1,1 kW
Fan Pressure	300 Pa
Motor Current	7,5 A
Voltage	220-240V / 50Hz
Fan Type	Radial
Fan Diameter	Ø 465mm - W 380mm
Fan Capacity	12 Stage Speed
Maximum Fan Speed	540 Rpm
Cooling Pad Dimension	(870mm * 760mm * 100mm) * 1 pcs (870mm * 760mm * 80mm) * 2 pcs
Cooling Pad Area	2,00 m²
Tank Capacity	50 L
Drainage Function	Automatic
Case Dimensions	A:1120mm * B:1120mm * C:1220mm
Net Weight	90 kg
Operating Weight	130 kg
Channel Connection Size	715mm * 715mm
Water Inlet	1/2" Male BSP

15 Year
Cabin
Warranty

5 Year
Motor
Warranty

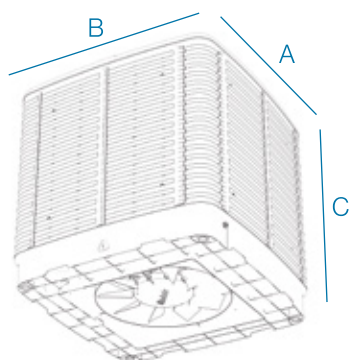
2 Yıl
Accessory
Warranty

PLUS 30



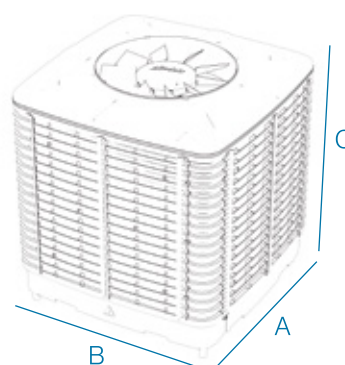
Plus 30

Bottom Discharge



Plus30

Top Discharge



Technical Specifications	Plus 30 Bottom Discharge	Plus 30 Top Discharge
Airflow	30.000 m ³ /h	30.000 m ³ /h
Motor Power	3,0 kW	3,0 kW
Fan Pressure	320 Pa	320 Pa
Motor Current	6,6 A	6,6 A
Voltage	380V / 50Hz	380V / 50Hz
Fan Type	Axial	Axial
Fan Diameter	Ø 800 mm	Ø 800 mm
Fan Capacity	12 Stage Speed	12 Stage Speed
Maximum Fan Speed	1440 Rpm	1440 Rpm
Cooling Pad Dimension	1050 mm * 1000 mm* 100 mm /* 4 pcs	1050 mm * 1000 mm* 100 mm /* 4 pcs
Cooling Pad Area	4,20 m ²	4,20 m ²
Tank Capacity	80 L	80 L
Drainage Function	Automatic	Automatic
Case Dimensions	A:1500 mm * B:1500 mm * C:1500 mm	A:1500 mm * B:1500 mm * C:1500 mm
Net Weight	120 kg	120 kg
Operating Weight	170 kg	170 kg
Channel Connection Size	900 mm * 900 mm	900 mm * 900 mm
Water Inlet	1/2" Male BSP	1/2" Male BSP

15 Year
Cabin
Warranty

5 Year
Motor
Warranty

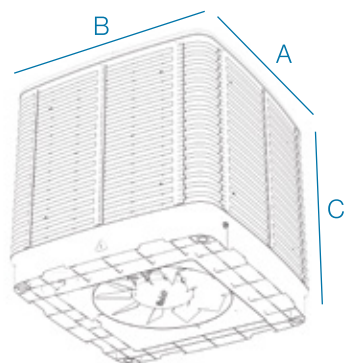
2 Yıl
Accessory
Warranty

PLUS 40



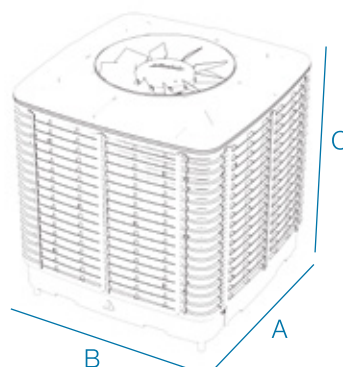
Plus 40

Bottom Discharge



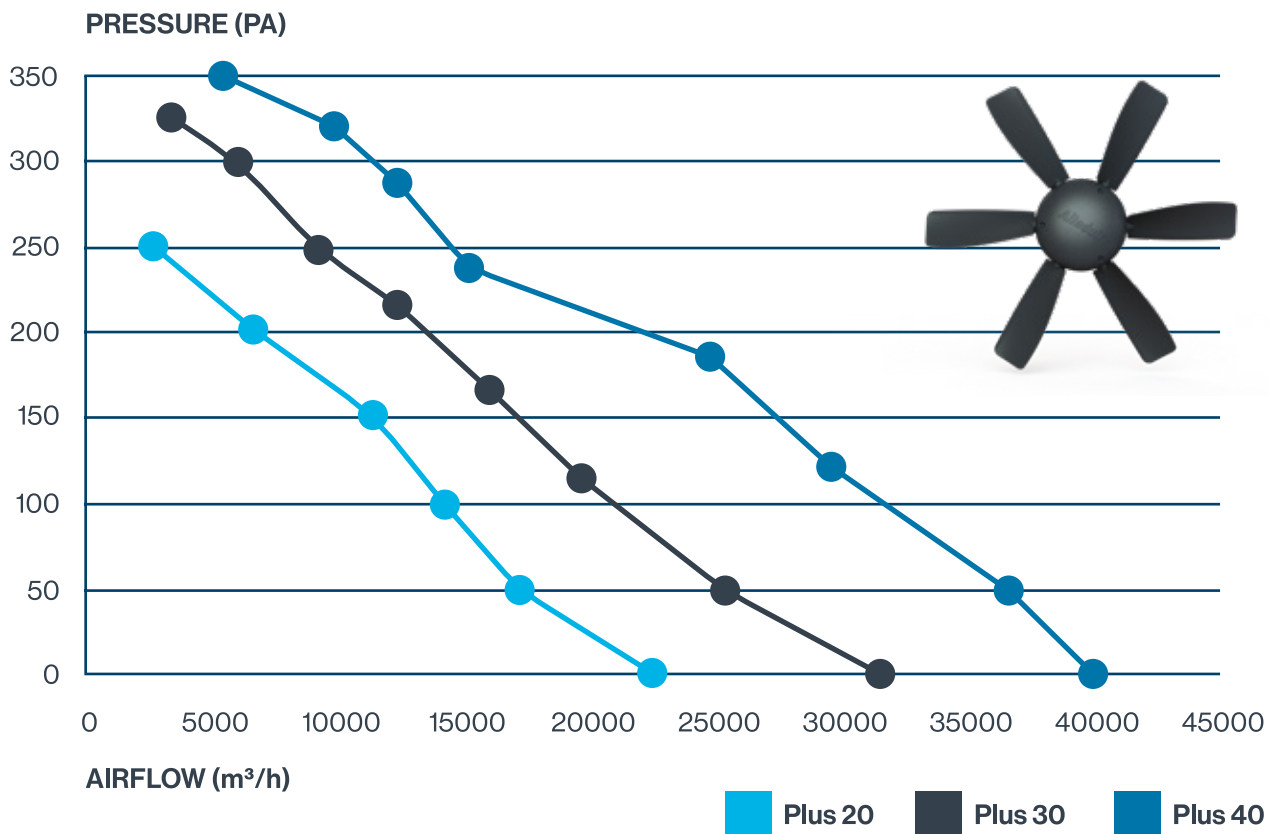
Plus40

Top Discharge



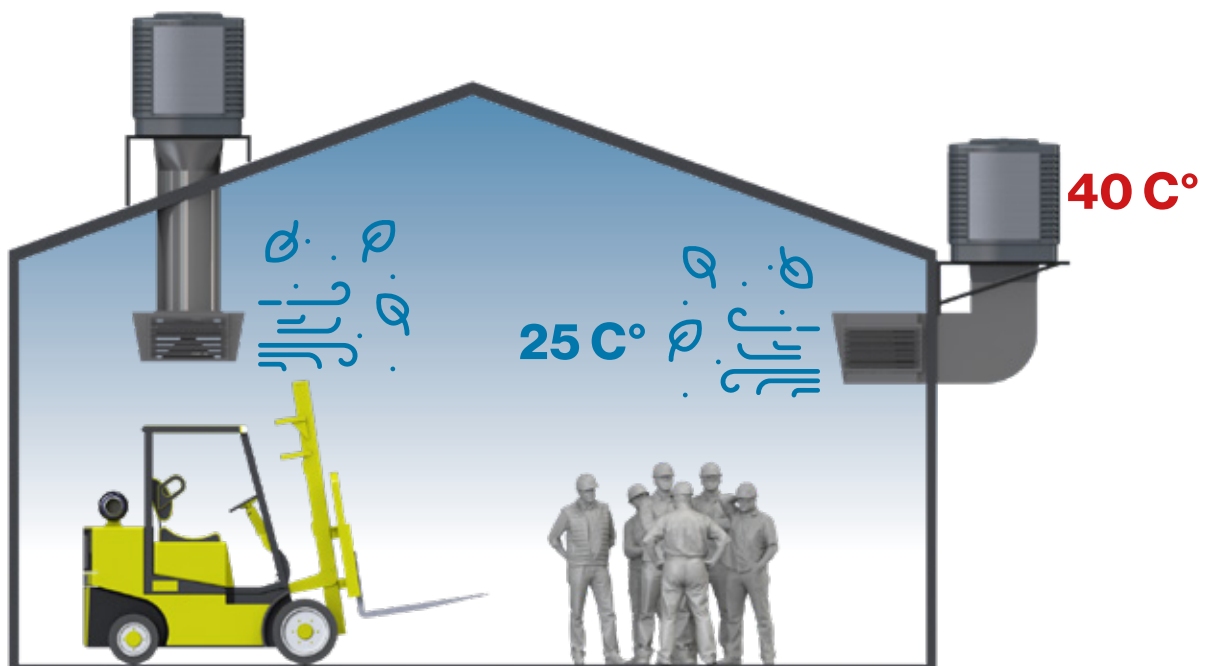
Technical Specifications	Plus 40 Bottom Discharge	Plus 40 Top Discharge
Airflow	40.000 m ³ /h	40.000 m ³ /h
Motor Power	4,0 kW	4,0 kW
Fan Pressure	360 Pa	360 Pa
Motor Current	8,7 A	8,7 A
Voltage	380V / 50Hz	380V / 50Hz
Fan Type	Axial	Axial
Fan Diameter	Ø 800 mm	Ø 800 mm
Fan Capacity	12 Stage Speed	12 Stage Speed
Maximum Fan Speed	1440 Rpm	1440 Rpm
Cooling Pad Dimension	1050 mm * 1000 mm* 100 mm /* 4 pcs	1050 mm * 1000 mm* 100 mm /* 4 pcs
Cooling Pad Area	4,20 m ²	4,20 m ²
Tank Capacity	80 L	80 L
Drainage Function	Automatic	Automatic
Case Dimensions	A:1500 mm * B:1500 mm * C:1500 mm	A:1500 mm * B:1500 mm * C:1500 mm
Net Weight	120 kg	120 kg
Operating Weight	170 kg	170 kg
Channel Connection Size	900 mm * 900 mm	900 mm * 900 mm
Water Inlet	1/2" Male BSP	1/2" Male BSP

FAN CURVES

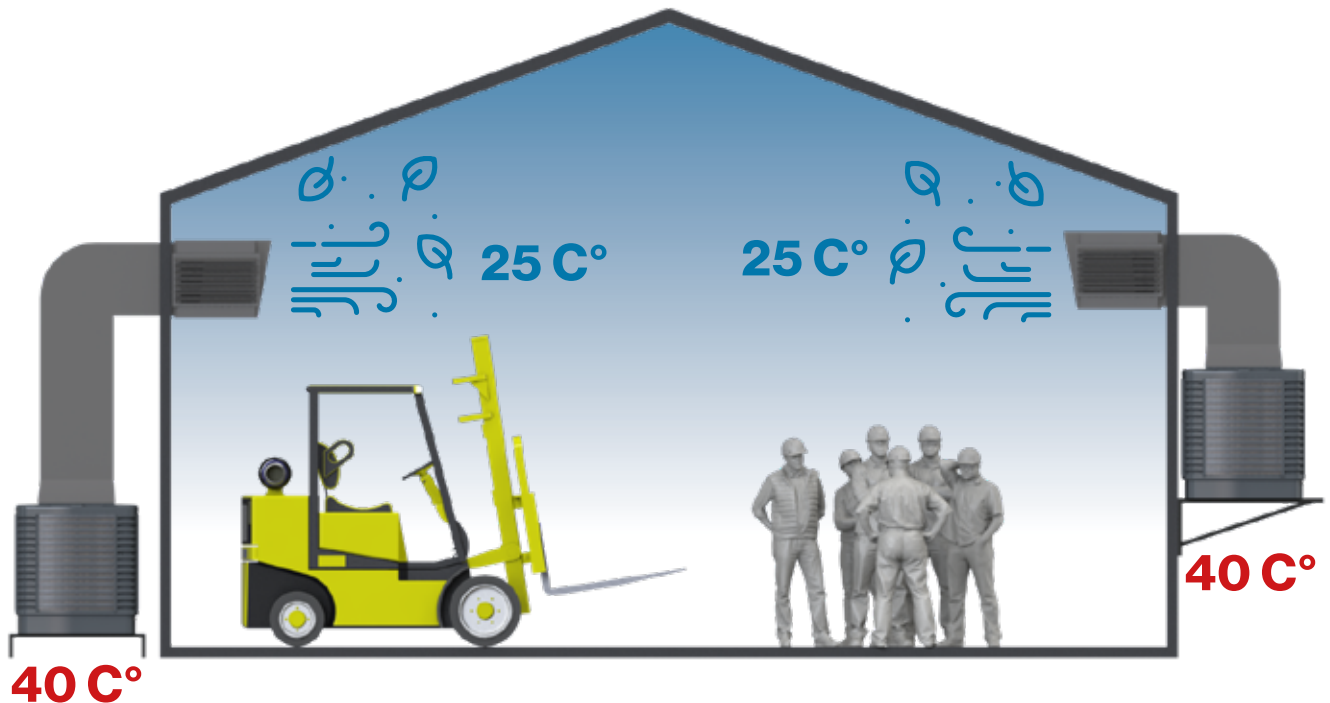


APPLICATION TYPES

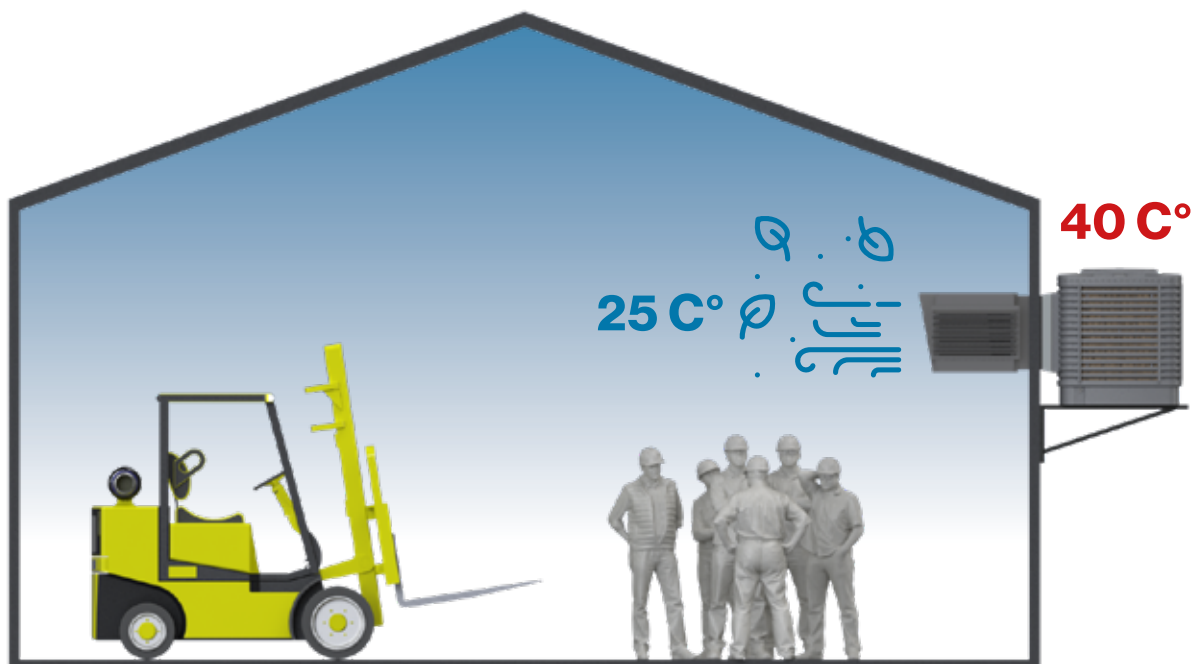
Type 1 Bottom Discharge Application



Type 2 Top Discharge Application



Type 3 Side Discharge Application



OUR APPLICATION AREAS

Shoe Factory

Factory Maintenance Room

Compressor Room

Switchgear Room

Twisting Workshop

Nightclub

Textile Workshop

Marketplace

Glass Factory

Food Industry

Printing House

Greenhouse

Depor

Carpet Cleaning

Museum

Poultry Farm

Weaving

Animal Farm

Hotel

Meeting Room

Foundries

Manufacturing Sector

Auto Service

Bed Factory

Wedding Hall

Yarn Factory

Automotive

Textile





OUR REFERENCES



OUR CERTIFICATIONS



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ALL IN AIR

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Alindair Industrial



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