



## Product Guide 2024



PROCESS COOLING  
SOLUTIONS



AIR CONDITIONING  
SYSTEMS

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Experience the  
Best in **Heating & Cooling** Solutions

**PSTHVAC.COM**

# WELCOME

Pars Sanat Tahviah co.

# Welcome to PST HVAC Solutions

At PST, we take pride in providing the best HVAC solutions for industrial, commercial, and residential environments. With years of experience and the use of cutting-edge technology, our products are designed to deliver the best performance, efficiency, and comfort for you.

## Our Products:

### Residential and Commercial Chillers:

- ▶ High efficiency and optimized energy consumption
- ▶ Robust design and long lifespan
- ▶ Silent and reliable operation

### Process Cooling System :

- Ideal for large and commercial buildings
- Smart systems with temperature and humidity control
- Easy installation and maintenance.

### Fan Coil Units and Air Handlers:

- Suitable for residential and office environments
- Elegant and quiet design
- Precise temperature control capabilities

## Our Mission:

At PST, our mission is to provide the best HVAC solutions to create comfortable, healthy, and efficient environments for all our customers. By focusing on innovation, quality, and customer satisfaction, we strive to be your top choice always.

## Why Choose PST?

● **Expertise and Experience:** With over 20 years in the HVAC industry, we lead the way in offering innovative and efficient solutions for our customers.

● **Superior Quality:** Our products are manufactured using the best materials and the latest technologies to ensure the highest level of quality and durability.

● **Excellent Support:** Our support team is ready to provide consultation, installation, and maintenance services, ensuring we are always by your side.

# ROOFTOP UNIT

Pars Sanat Tahviah co.

## Rooftop Units: Efficient and Versatile HVAC Solutions

Our RTUs are designed to provide reliable and efficient heating, ventilation, and air conditioning (HVAC) solutions for a variety of applications. Explore the features, benefits, and applications of our high-quality rooftop units.

Rooftop Units (RTUs) are self-contained HVAC systems that are typically installed on the roof of a building. These units are designed to provide heating, cooling, and ventilation from a single, compact system, making them ideal for commercial and industrial applications. RTUs are engineered for easy installation, maintenance, and operation, ensuring consistent performance and comfort.

## What are Rooftop Units?

### Benefits of Our Rooftop Units

#### 1. Energy Efficiency:

- Our RTUs are designed with advanced technology to maximize energy efficiency, helping to reduce operational costs and environmental impact.

#### 2. Ease of Installation:

- The all-in-one design of our RTUs simplifies the installation process, saving time and labor costs. They can be quickly installed on the roof without the need for extensive ductwork or indoor space.

#### 3. Space-Saving Design:

- By placing the HVAC system on the roof, our RTUs free up valuable indoor space that can be used for other purposes.

#### 4. Reliability and Durability:

- Built with high-quality materials and components, our RTUs are designed to withstand harsh weather conditions and provide reliable performance year-round.

#### 5. Versatility:

- Our RTUs can be configured to meet the specific needs of different applications, including variable air volume (VAV) systems, constant air volume (CAV) systems, and more.

#### 6. Advanced Controls:

- Equipped with modern control systems, our RTUs offer precise temperature and humidity control, as well as integration with building management systems (BMS).

## Types of Rooftop Units

### High-Efficiency Rooftop

#### Standard Rooftop Units

**Features:**

- ✓ Integrated heat recovery systems to capture and reuse waste heat
- ✓ Improved energy efficiency and reduced operational costs
- ✓ Versatile configurations for various building types

**Application:**

- ✓ Industrial facilities
- ✓ Data centers
- ✓ Large office complexes

#### Standard Rooftop Units

**Features:**

- ✓ Enhanced energy efficiency with advanced compressors and heat exchangers
- ✓ Variable speed fans for better air distribution and energy savings
- ✓ Ideal for buildings with high energy efficiency requirements

**Application:**

- ✓ Schools
- ✓ Hospitals
- ✓ Shopping malls

### Heat Recovery Rooftop Units

### Packaged Rooftop Units

#### Standard Rooftop Units

**Features:**

- ✓ Integrated heat recovery systems to capture and reuse waste heat
- ✓ Improved energy efficiency and reduced operational costs
- ✓ Suitable for environments where both heating and cooling are required simultaneously

**Application:**

- ✓ Industrial facilities
- ✓ Data centers
- ✓ Large office complexes

#### Standard Rooftop Units

**Features:**

- ✓ Complete HVAC system in a single unit
- ✓ Simplified installation and maintenance
- ✓ Versatile configurations for various building types

**Application:**

- ✓ Warehouses
- ✓ Manufacturing plants
- ✓ Commercial complexes

## Applications of Rooftop Units

#### Commercial Buildings:

- Our RTUs provide efficient heating and cooling for office buildings, retail stores, restaurants, and other commercial spaces, ensuring a comfortable environment for employees and customers.

#### Industrial Facilities:

- In industrial settings, our RTUs offer robust and reliable climate control, maintaining optimal temperatures for manufacturing processes and worker comfort.

#### Educational Institutions:

- Schools and universities benefit from our energy-efficient RTUs, which help maintain a conducive learning environment while reducing energy costs.

#### Healthcare Facilities:

- Hospitals and clinics require precise temperature and humidity control, and our RTUs deliver reliable performance to meet these stringent requirements.





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# POLARIS TECH

Cooling capacity 50-250 kW



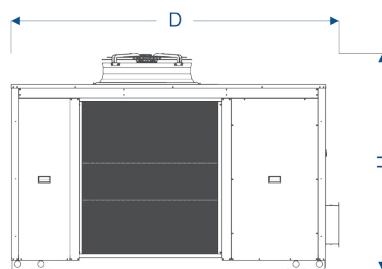
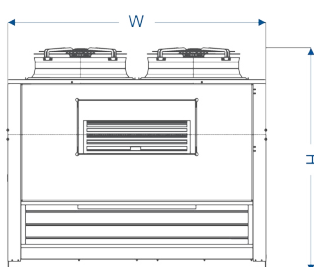
- **Innovative Technology:** Our RTUs incorporate the latest HVAC technologies to deliver superior performance and energy efficiency.
- **Custom Solutions:** We offer a variety of models and configurations to meet the unique needs of different applications and environments.
- **Expert Support:** Our team of experts is available to provide consultation, installation, and maintenance services, ensuring your RTUs operate at peak performance.

## Why Choose PST Rooftop Units?

### Model Polaris

		181	201	241	301	351	401
Cooling capacity	kW	50.4	57.5	62.5	85	101	112.2
Cooling capacity	TR	14.3	16.35	17.77	24.17	28.72	31.9
Compressor power input	kW	12.95	15.6	17.8	24.4	25.65	29.2
EER	-	3.08	3.02	2.94	3.00	3.16	3.07
Max external air temperature	°C	51	49	49	47	51	50
<b>Supply Fan</b>							
Air flow rate	m <sup>3</sup> /h	7800	8500	9800	12000	13500	14500
Nominal External Static Pressure	Pa	250	250	250	250	250	250
<b>GENERAL DATA</b>							
Refrigerant	-	R410A					
Circuits / Compressors	N°	1/2					
Power supply	V/Ph/Hz	400 ± 10% / 3 +N- PE / 50					
Protection class	-	IP54					
<b>NOISE LEVEL</b>							
Noise pressure	dB(A)	60	61	61	64	64	65
Noise power	dB(A)	90	91	91	94	94	95
<b>SIZE AND WEIGHT</b>							
Depth	mm	3100	3100	3300	3500	3600	3600
Width	mm	1700	1700	1700	2250	2250	2250
Height	mm	1775	1775	1775	1950	1950	2015
Weight	kg	358	359	404	514	651	737

- (1) Coolig: Outdoor 35°C 50% R.H. / Indoor 27°C 47% R.H. / Mix 30%
- (2) ESP for standard configuration (optional accessories not included/calculated)
- (3) Sound power on the basis of measurements made in compliance with ISO 3744.
- (4) Unit in standard configuration/execution, without optional accessories

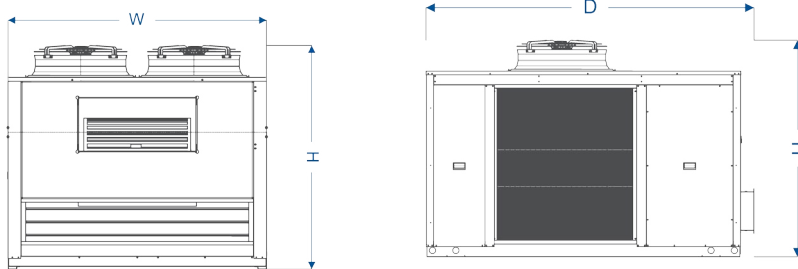




## Model Polaris

		451	501	551	601	701	902
Cooling capacity	kW	126.5	147.1	157.6	187	207.5	250.4
Cooling capacity	TR	35.97	41.83	44.81	53.17	59	71.2
Total absorbed power	kW	32.65	39.4	44.05	47.8	56	66.4
EER	-	3.17	3.15	3.07	3.11	3.04	3.10
Max external air temperature	°C	49	47	46	50	49	48
<b>Supply Fan</b>							
Air flow rate	m <sup>3</sup> /h	16000	18300	19500	22000	25000	28000
Nominal External Static Perssure	Pa	250	250	250	250	250	250
<b>GENERAL DATA</b>							
Refrigerant	-	R410A					
Circuits / Compressors	N°	1/2					2/4
Power supply	V/Ph/Hz	400 ± 10% / 3 +N- PE / 50					
Protection class	-	IP54					
<b>NOISE LEVEL</b>							
Noise pressure	dB(A)	65	67	67	67	69	71
Noise power	dB(A)	95	97	97	97	99	101
<b>SIZE AND WEIGHT</b>							
Depth	mm	4000	4000	4000	4300	4500	4700
Width	mm	2250	2250	2250	2250	2250	2250
Height	mm	2500	2500	2500	2500	2500	2500
Weight	kg	860	957	993	1117	1146	1567

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# PST

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Website: [www.psthvac.com](http://www.psthvac.com)

Email: [info@psthvac.com](mailto:info@psthvac.com)



Phone: 021 26 76 37 10

Fax: 021 26 76 37 22



Flat NO.1,NO 36, Moqaddas st, (11 West) South Shahr-dari  
Blvd Gheysar Amin pour, Sq Saadat Abad, Tehran-Iran



Kar Blvd.,Soleman Sabahi Indutrial Town,Kashan-Iran

# UN

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