



## 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.

# HYDRONIC TERMINALS

Pars Sanat Tahviah co.

# Fan Coil Units: Comfort and Efficiency for Every Environment

Our Fan Coil Units (FCUs) are designed to provide efficient and reliable heating and cooling solutions for a variety of applications, ensuring comfort and energy efficiency in residential, commercial, and industrial environments. Discover the features, benefits, and applications of our high-quality Fan Coil Units.

Fan Coil Units are versatile HVAC devices used to regulate the temperature in individual rooms or spaces. They consist of a fan and a heat exchanger (coil) and can be connected to a central chiller or boiler system. FCUs can deliver both heating and cooling, making them a flexible and efficient choice for temperature control.

## What are Fan Coil Units?

### Benefits of Our Fan Coil Units

#### 1. Energy Efficiency:

- Our FCUs are designed to maximize energy efficiency, helping to reduce operational costs while maintaining optimal comfort levels.

#### 2. Quiet Operation:

- Engineered for low noise levels, our FCUs ensure a quiet and comfortable environment, making them ideal for use in residential and office spaces.

#### 3. Compact Design:

- With their sleek and compact design, our FCUs can be easily installed in various settings without taking up too much space or disrupting the aesthetic of the room.

#### 4. Easy Installation and Maintenance:

- Our FCUs are designed for easy installation and maintenance, ensuring hassle-free operation and long-term reliability.

#### 5. Advanced Control Options:

- Equipped with advanced control systems, our FCUs offer precise temperature control and integration with smart home or building management systems.

## Types of Fan Coil Units

### *Ceiling Mounted Fan Coil Units*

**Features:**

- ✓ Space-saving design for ceiling installation
- ✓ Quiet and efficient operation
- ✓ Ideal for offices, hotels, and commercial spaces

**Application:**

- ✓ Office buildings
- ✓ Hotels
- ✓ Conference rooms

### *Wall Mounted Fan Coil Units*

**Features:**

- ✓ Easy wall-mounted installation
- ✓ Sleek and modern design
- ✓ Perfect for residential and commercial use

**Application:**

- ✓ Apartments
- ✓ Houses
- ✓ Retail stores

### *Floor Mounted Fan Coil Units*

**Features:**

- ✓ Sturdy and reliable design for floor installation
- ✓ Suitable for spaces with limited wall or ceiling space
- ✓ Excellent heating and cooling performance

**Application:**

- ✓ Hospitals
- ✓ Schools
- ✓ Industrial facilities

### *Concealed Fan Coil Units*

**Features:**

- ✓ Hidden installation within ceilings or walls
- ✓ Discreet and unobtrusive
- ✓ Ideal for high-end residential and commercial properties

**Application:**

- ✓ Luxury apartments
- ✓ Upscale hotels
- ✓ Executive offices

## Applications of Fan Coil Units

**Residential:**

- Our FCUs provide comfortable and efficient heating and cooling for homes, apartments, and villas, ensuring a pleasant living environment throughout the year.

**Commercial:**

- Designed to meet the demands of commercial spaces, our FCUs are ideal for offices, retail stores, hotels, and restaurants, providing consistent and reliable temperature control.

**Industrial:**

- In industrial settings, our FCUs offer robust and efficient heating and cooling solutions, suitable for factories, warehouses, and other industrial facilities.

**Healthcare:**

- Our FCUs are perfect for healthcare facilities such as hospitals and clinics, where precise temperature control and quiet operation are critical for patient comfort and care.



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# FAN COIL UNITS

Air Flow : 510-4400 m<sup>3</sup>/ h (12 - 120 pa)



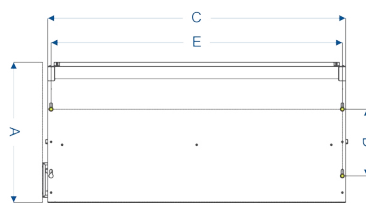
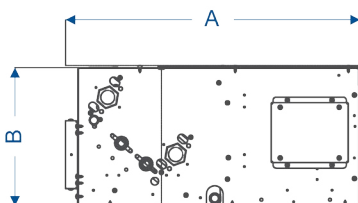
**PST fan coils:**

Model			51	68	102	136	170	204
AIR flow	max	m <sup>3</sup> /h	510	680	1020	1360	1700	2040
	med		390	510	770	1020	1280	1530
	min		260	340	510	680	850	1020
Total cooling capacity	max	W	2700	3600	5400	7200	9000	10800
	med		2242	2989	4483	5978	7472	8967
	min		1744	2325	3487	4649	5812	6974
Sensible cooling capacity	max	W	2052	2736	4103	5471	6839	8207
	med		1771	2362	3541	4722	5903	7084
	min		1430	1907	2860	3813	4765	5718
Heating capacity	max	W	4050	5400	8100	10800	13500	16200
	med		3197	4262	6393	8524	10655	12786
	min		2511	3349	5024	6697	8372	10046
pressure drop		KPa	15	18	28	30	22	30
Sound power level		dB	39	41	45	46	48	50
Dimension	A	mm	494	494	494	494	494	494
	B	mm	234	234	234	234	234	234
	C	mm	658	808	1008	1358	1508	1658
	D	mm	610	760	960	1310	1460	1610
	E	mm	633	783	983	1333	1483	1633

**PST fan coils:**

Model			51+1	68+1	102+1	136+1	170+1	204+1
AIR flow	max	m <sup>3</sup> /h	510	680	1020	1360	1700	2040
	med		390	510	770	1020	1280	1530
	min		260	340	510	680	850	1020
Total cooling capacity	max	W	2700	3600	5400	7200	9000	10800
	med		2242	2989	4483	5978	7472	8967
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Sensible cooling capacity	max	W	2052	2736	4103	5471	6839	8207
	med		1771	2362	3541	4722	5903	7084
	min		1430	1907	2860	3813	4765	5718
Heating capacity	max	W	1940	2590	3890	5180	6480	7780
	med		1530	2040	3060	4070	5090	6110
	min		1230	1630	2450	3270	4080	4900
pressure drop		KPa	15	18	28	30	22	30
Sound power level		dB	39	41	45	46	48	50
Dimension	A	mm	494	494	494	494	494	494
	B	mm	234	234	234	234	234	234
	C	mm	658	808	1008	1358	1508	1658
	D	mm	610	760	960	1310	1460	1610
	E	mm	633	783	983	1333	1483	1633

Total cooling capacity at the following conditions: water inlet-outlet temperature 7-12 °C. Air temperature 19 °C (wb) / 27 °C (db).  
Heating capacity at the following conditions: water inlet temperature 50 °C. Air temperature 20 °C.





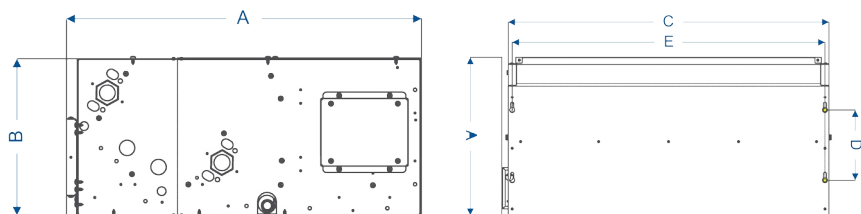
**EUE fan coils:**

			430	630	730	930
Air flow	max	m3/h	485	760	925	1500
	med.	m3/h	335	590	735	1210
	min.	m3/h	265	415	535	830
Total cooling capacity	max	W	2870	4090	5110	6740
	med.		2140	3370	4290	5870
	min.		1730	2540	3340	5870
Sensible cooling capacity	max	W	2190	3200	3950	5550
	med.		1600	2590	3270	4730
	min.		1280	1910	2500	3490
Heating capacity	max	W	3560	5090	6270	9060
	med.		2610	4130	5190	7720
	min.		2090	3070	4010	5710
(Cooling mode) Pressure drop	max	kPa	27.2	19.8	34.2	24.6
	med.	kPa	16.2	14.1	25.1	19.3
	min.	kPa	11.2	8.6	16.2	11.9
(Heating mode) Pressure drop	max	kPa	23.1	16.8	29.1	2.9
	med.	kPa	13.8	12	21.3	15.4
	min.	kPa	9.5	7.3	13.8	10.1
Sound power level	max	dB(A)	47	52	56	64
	med.	dB(A)	39	46	51	58
	min.	dB(A)	33	37	42	50
Sound pressure level (*)	max	dB(A)	38	43	47	55
	med.	dB(A)	30	37	42	49
	min.	dB(A)	24	28	33	41

**EUE fan coils:**

Model			430	630	730	930
Dimension	A	mm	525	525	525	525
	B	mm	234	234	234	234
	C	mm	689	904	1119	1244
	D	mm	641	856	1071	1196
	E	mm	664	879	1094	1219

Total cooling capacity at the following conditions: water inlet-outlet temperature 7-12 °C. Air temperature 19 °C (wb) / 27 °C (db).  
Heating capacity at the following conditions: water inlet temperature 50 °C. Air temperature 20 °C.



## Duct fan coils:

• The following standard rating conditions are used:

- COOLING (summer mode)
- Entering air temperature + °27C d.b. +°19C w.b.
- Water temperature + °7C E.W.T. + °12C L.W.T.
- HEATING (winter mode)
- Entering air temperature + °20C
- Water temperature + °60C E.W.T. + °50C L.W.T.

- AVAILABLE PRESSURE: 0 Pa

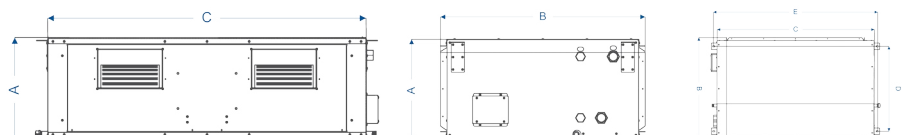
### MTO fan coils:

			13	23	33	43	53
Air flow	max	m3/h	1925	2510	2790	3400	4400
	med.	m3/h	1340	1550	2300	2855	3540
	min.	m3/h	995	855	1815	2265	2905
Total cooling capacity	max		6020	8310	9890	12620	16670
	med.		4950	6410	8910	11480	14770
	min.		4190	4500	7820	10080	13210
Sensible cooling capacity	max	W	5730	7530	8680	10870	14670
	med.		4410	5360	7570	9610	15530
	min.		3550	3470	6410	8160	10850
Heating capacity	max		12330	16440	19100	23850	31420
	med.		9730	11920	16800	21210	27140
	min.		7910	7750	14270	18060	23640
(Cooling mode) Pressure drop	max	kPa	13.7	27.4	28.8	28.0	26.5
	med.	kPa	9.6	16.9	23.8	23.0	21.2
	min.	kPa	7.0	8.7	18.7	18.0	17.2
(Heating mode) Pressure drop	max	kPa	11.0	20.9	21.1	15.0	18.4
	med.	kPa	7.1	11.4	16.6	12.0	14.1
	min.	kPa	4.8	5.1	12.3	9.0	10.9
Sound power level	max	dB(A)	63	68	68	72	75
	med.	dB(A)	56	59	64	67	71
	min.	dB(A)	49	47	60	63	66
Sound pressure level (*)	max	dB(A)	54	59	59	63	66
	med.	dB(A)	47	50	55	58	62
	min.	dB(A)	40	38	51	54	57

### MTO fan coils:

Model			13	23	33	43	53
Dimension	A	mm	304	344	344	364	415
	B	mm	695	695	695	850	850
	C	mm	1133	1133	1133	1445	1445
	D	mm	617	617	617	771	771
	E	mm	1178	1178	1178	1490	1490

Total cooling capacity at the following conditions: water inlet-outlet temperature 7-12 °C. Air temperature 19 °C (wb) / 27 °C (db).  
Heating capacity at the following conditions: water inlet temperature 50 °C. Air temperature 20 °C.



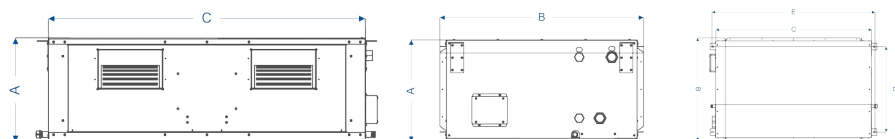
**MTO fan coils:**

			13+1	23+1	33+1	43+1	53+1
Air flow	max	m3/h	1835	2360	2745	3340	4330
	med.	m3/h	1315	1535	2265	2820	3505
	min.	m3/h	940	855	1795	2245	2885
Total cooling capacity	max	W	5880	8040	9820	12490	16500
	med.		4910	6380	8840	11390	14700
	min.		4050	4500	7760	10020	13150
Sensible cooling capacity	max	W	5540	7210	8590	10730	14480
	med.		4360	5320	7500	9520	12440
	min.		3410	3470	6350	8100	10790
Heating capacity	max	W	6580	8440	10080	13040	16730
	med.		5510	6760	9120	11930	14920
	min.		4580	4780	8070	10540	13420
(Cooling mode) Pressure drop	max	kPa	13.2	25.8	28.4	28.0	26.1
	med.	kPa	9.4	16.8	23.5	23.0	21.0
	min.	kPa	6.6	8.7	18.4	18.0	17.1
(Heating mode) Pressure drop	max	kPa	26.5	44.8	27.5	48.0	44.6
	med.	kPa	19.2	29.8	23.0	41.0	36.4
	min.	kPa	13.7	15.9	18.4	32.0	30.0
Sound power level	max	dB(A)	63	68	68	72	75
	med.	dB(A)	56	59	64	67	71
	min.	dB(A)	49	47	60	63	66
Sound pressure level (*)	max	dB(A)	54	59	59	63	66
	med.	dB(A)	47	50	55	58	62
	min.	dB(A)	40	38	51	54	57

**MTO fan coils:**

Model			13+1	23+1	33+1	43+1	53+1
Dimension	A	mm	304	344	344	364	415
	B	mm	695	695	695	850	850
	C	mm	1133	1133	1133	1445	1445
	D	mm	617	617	617	771	771
	E	mm	1178	1178	1178	1490	1490

Total cooling capacity at the following conditions: water inlet-outlet temperature 7-12 °C. Air temperature 19 °C (wb) / 27 °C (db).  
Heating capacity at the following conditions: water inlet temperature 50 °C. Air temperature 20 °C.



# PST

Pars Sanat Tahviah co.



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

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