

F Series Room-Level Precision Air Conditioner



F series room-level precision air conditioner, with high efficiency and energy saving, safety and reliability, intelligent management, compact structure and exquisite craftsmanship, fully meets the cooling needs of modern data room.

Application Scenarios

Data center computer room, communication computer room, computer room, UPS battery room and industrial control room in various industries such as finance, government, enterprise, energy, education, medical care, Internet, etc.

Characteristic

High Efficiency and Energy Saving

- Refrigeration system hierarchical design, intelligent adjustment of cooling capacity.
- High COP flexible scroll compressor, high precision electronic expansion valve.
- Efficient and low noise stepless speed regulation EC fan (sinkable design).
- Complete intelligent control system to ensure system dynamic
- The optimal heat exchanger and air duct adopt CFD optimized design, high efficiency and low resistance heat and mass transfer.

Rich Functions

- Support voltage, frequency detection and over-voltage, over- and under-frequency protection functions.
- With advanced energy efficiency management, the number of technology and group control is up to 32 units, easy to network.
- Support fan speed detection, fan speed abnormal warning and fan fault detection functions.
- Support optional dual power redundant power distribution scheme and lightning protection function.
- Support optional rope-type water immersion and point-type water immersion sensor function.

High Reliability

- 365 days x 24 hours uninterrupted operation design.
- PTC electric heating, far infrared humidification, safe and reliable.
- Complete alarm protection and expert-level self-diagnosis function.

Intelligent Management

- Human-machine interface, humanized design of 7-inch large color touch LCD screen, one-button operation.
- Dynamic display of color images of components, temperature, and humidity trend curve display.
- Quick switch between Chinese and English system.

Easy Maintenance

- Real full frontal maintenance design, integrated direct connection design of fan and motor, no need to change the belt.
- Far-infrared humidifier, which can realize maintenance-free operation.

Space Saving

- Compact and modular design, saving the floor space and maintenance space of the unit to the greatest extent
- It can be easily disassembled, transported, and assembled on site according to the module.
- The area/maintenance area of a single module is only 0.9m²/1.8m², and the cooling capacity per unit area can reach up to 70kW/m².

Alarm Protection

- Complete automatic protection and alarm function Expert-level fault self-diagnosis function.
- Comprehensive parameter detection and adjustment functions
- Call self-start function, water leakage detection function.
- It has perfect anti-condensation control function and refrigerant leakage alarm function.

Strong Adaptability

- Wide range of cooling capacity.
- Meet the operating ambient temperature of -40~55 °C.
- A variety of air supply and return methods, a variety of inlet and outlet pipe methods, and a variety of power supply systems are designed with long connecting pipes and high drop design.
- Can provide customers with fast and flexible customized solutions.

Indoor AC Technical Parameters

Parameter	Model	25KW	30KW	35KW	40KW	45KW	50KW	60KW	70KW	80KW	90KW	100KW
parameter air volume	m ³ /h	7500	9000	10500	11500	12000	15000	18000	21000	23000	24000	25600
Cooling capacity	kW	26.4	31.5	36.1	38.1	45.7	52.7	62.9	72.3	76.1	91.6	100.2

Sensible cooling capacity	kW	24.5	29.2	33.4	35.2	41.6	48.9	58.2	66.6	70.2	83.4	91.6
Electric heating	kW	6	6	6	6	6	9	9	9	9	9	9
Humidification amount	kg/h	4.5	4.5	4.5	4.5	4.5	6.5	6.5	6.5	6.5	6.5	6.5
Maximum load current FLA	A	32.12	38.20	41.05	41.05	48.97	59.74	71.92	77.60	77.60	93.44	93.44
Unit size	W mm	900	900	900	900	900	1800	1800	1800	1800	1800	1800
	D mm	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
	H mm	1980	1980	1980	1980	1980	1980	1980	1980	1980	1980	1980
Weight	kg	355	370	375	380	390	665	695	705	715	735	755
The outdoor unit	model	OU-40	OU-50	OU-50	OU-50	OU-70	OU-40	OU-50	OU-50	OU-50	OU-70	OU-70
	QTY	1	1	1	1	1	2	2	2	2	2	2
Dimensions of a single energy-saving module (W*D*H) mm	650*300*950											

Outdoor AC Technical Parameters

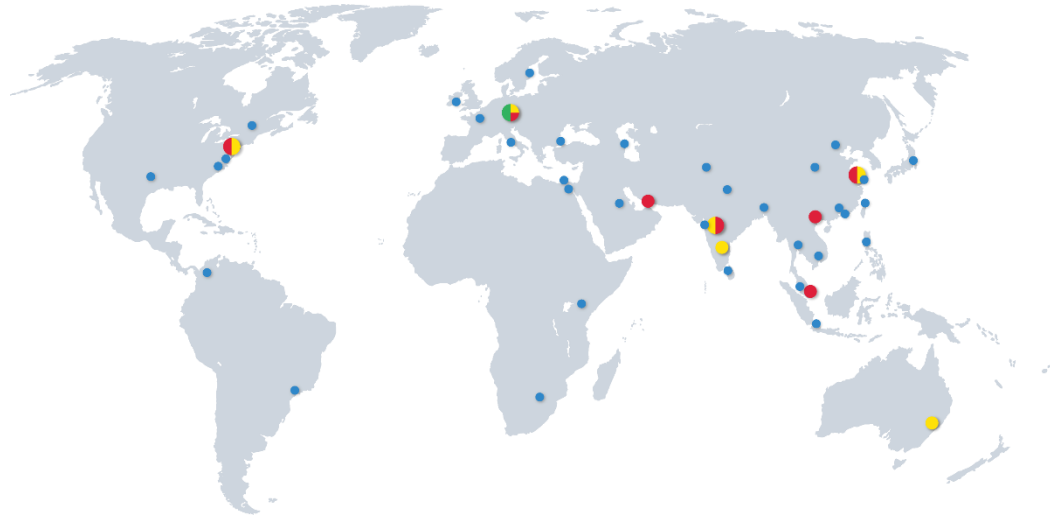
Parameter	Model	OU-40	OU-50	OU-70	OU-80
Number of fans	tower	1	1	2	2
Unit size	W mm	1650	1650	2010	2860
	D mm	1100	1100	1100	1100
	Ht mm	1150	1150	1150	1150
Full load current	A	2.9	4.7	5.8	5.8
Weight	kg	158	168	210	256
Noise	db.	60	60	62	62

Ordering Information

AC X X X X X - X X
 1 2 3 4 5 6 7

Category	1.Texture	2.Refrigeration method	3.Additional functions
AC: Air conditioner	G: Inrow	1: air cooling	1: Single cold
	F: Room level	2: water cooling	2: Refrigeration electric heating
	J: Rack-mounted	3: Chilled water	3: Constant temperature and humidity
		4: Indirect evaporative cooling	4: Constant temperature and humidity (dual system)
4.Air supply direction	5.Power	6.Power	7.Outdoor unit
1: Top, left, and right air discharge	1:3.5kw	1: AC220V/50Hz	1: No outdoor unit
2: Left and right air discharge	2:6.5kw	2: AC380V/50Hz	2: Including outdoor unit
3: Horizontal air supply	3:7.5kw		
4: Sinking air supply	4:12.5kw		
5: Downward air supply	5:15kw		
6: Upward air supply	6:20kw		
7: Upward air supply (with hood)	7:25kw		
	8:30kw		
	9:35kw		
	A: 40kw		
	B: 45kw		
	C: 50kw		
	D: 60kw		
	E: 70kw		
	F:80kw		
	G:90kw		
	H:100kw		

GLOBAL FOOTPRINT



Headquarters

Donauwörth - Germany
PROSE Technologies GmbH
Add.: Dr.-Friedrich-Drechsler-Straße 14, 86609
Donauwörth, Germany
E-mail: info.eu@prosetechnologies.com

Western Europe

Dublin - Ireland
PROSE Technologies (Ireland) Limited
Add.: 6th Floor, South Bank House, Barrow Street,
Dublin 4 Ireland
E-mail: Info@prosetechnologies.com

Eastern Europe & Central Asia

E-mail: info.eeca@prosetechnologies.com

North America

New Jersey - America
PROSE Technologies LLC
Add.: 550 Clark Drive Budd Lake, NJ 07828, United
States of America
Tel: +1 888 840 4066
E-mail: info.us@prosetechnologies.com

Middle East

Dubai - UAE
PROSE Technologies DMCC
Add.: 3702, Mazaya Business Avenue BB2, JLT, Dubai
Tel: +971 4 3999168
E-mail: info.ae@prosetechnologies.com

Africa

Nairobi - Kenya
PROSE Technologies Africa (PTY) Ltd
Tel: +254 780440410
E-mail: info.ke@prosetechnologies.com

Gauteng, (Johannesburg) - South Africa
PROSE Technologies Africa (PTY) Ltd
Add.: Building 20, Cambridge Office Park, 5 Bauhina
Road, Highveld Techno Park Centurion, Gauteng 0169,
South Africa
Mobile: +27 725554840
E-mail: info.za@prosetechnologies.com

South Asia

Mumbai - India
PROSE Technologies India Private Limited
Add.: 403-407, Eco Star, Vishveshwar Nagar,
Goregaon East, Mumbai, India 400063
Tel: +91 22-66453000
E-mail: info.in@prosetechnologies.com

Pune - India
PROSE Technologies India Pvt.Ltd
Add.: A-79, Block-A, Horizon Industrial Parks, Phase II,
MIDC Chakan Industrial Area, Khed, Pune, India
410501
Tel: +91 2135-635200
E-mail: info.in@prosetechnologies.com

Bangalore - India
PROSE Technologies India Private Limited
Add.: No.494 East End Main Road, Jayanagar IX Block,
Bangalore, India 560069
E-mail: info.in@prosetechnologies.com

New Delhi - India
PROSE Technologies India Pvt.Ltd
Add.: H-3/157, 2nd Floor, Vikas Puri, New Delhi, India
110018
E-mail: info.in@prosetechnologies.com

Dhaka - Bangladesh
PROSE Technologies (Bangladesh) Limited
Add.: House-360 (2nd Floor), Lane-5 (East), Baridhara
DOHS, Dhaka-1206, Bangladesh
Tel: +880 1977070130
E-mail: info.bd@prosetechnologies.com

Islamabad - Pakistan
Add.: Unit 514, 5th Floor, ISE Towers, Islamabad,
Pakistan
Tel: +92 3335357733
E-mail: info.pk@prosetechnologies.com

Sri Lanka
Tel: +880 1977070130
E-mail: info.lk@prosetechnologies.com

South East Asia

Selangor - Malaysia
PROSE Technology (M) Sdn. Bhd
Add.: Unit 2-1, Level 2, The Podium, Tower 3, UOA
Business Park, No 1, Jalan Pengaturcara U1/51a,
Seksyen U1, 40150 Shah Alam, Selangor, Malaysia
Tel: +60 126859319
E-mail: info.my@prosetechnologies.com

Bangkok - Thailand
PROSE Technology (Thailand) Co., Ltd
Add.: 349 SJ Infinite I Business Complex, 9 Floor, Room
905, Vibhavadi Rangsit Road, Chom Phon Sun-district,
Chatuchak District, Bangkok Province, Thailand
Tel: +66 80 6606630
E-mail: info.th@prosetechnologies.com

Singapore
PROSE Technologies (Singapore) Pte.Ltd
Add.: 10 Anson Road#13-15 International Plaza
Singapore 079903
Tel: +6598366793
E-mail: info.sg@prosetechnologies.com

Hanoi - Vietnam
PROSE Technologies (Vietnam) Company Limited
Add.: Floor 15, Vinaconex 9 Building, HH-2 Block,
Pham Hung Street, Me Tri Ward, Nam Tu Liem District,
Hanoi, Vietnam
Tel: +84 933086498
E-mail: info.vn@prosetechnologies.com

Taguig - Philippines
PROSE Technologies Philippines, Inc.
Add.: Unit 17 19th Floor Highstreet South Corporate
Plaza Tower 1, 26th Street corner 9th Avenue, Bonifacio
Global City, Taguig City, Philippines
Tel: +63 27572762
E-mail: info.ph@prosetechnologies.com

Jakarta - Indonesia
PT. PROSE Technologies Indonesia
Add.: Plaza Sentral 6th Floor, Jalan Jenderal Sudirman
No. 47, Jakarta 12930, Indonesia
Tel: +62 21 57901997
E-mail: info.id@prosetechnologies.com

East Asia

Suzhou - China
PROSE Technologies (Suzhou) Co.,Ltd
Add.: No. 6, Shen'an Road, DianShanHu, Suzhou,
JiangSu, China
E-mail: Info@prosetechnologies.com

Beijing - China
PROSE Technologies (Beijing) Co.,Ltd
E-mail: Info@prosetechnologies.com

Shanghai - China
PROSE Technologies (Shanghai) Co.,Ltd
E-mail: Info@prosetechnologies.com

Dongguan - China
Add.: Room 1506, building 1, No. 1, Yile Road,
Songshanhu Park, Dongguan City, Guangdong
Province, China
E-mail: Info@prosetechnologies.com

Hongkong - China
PROSE Technologies Company Limited
Add.: Unit B 13/F,Prat Commercial Building, 17-19 Prat
Avenue, Tsimshatsui, Kowloon, HongKong, China
Tel:+86 512 86896789 - 2921/2922
E-mail: info.hk@prosetechnologies.com

Taiwan
Tel: +63 2 7572762
E-mail: info.tw@prosetechnologies.com

Oceania

New South Wales - Australia
PROSE Technologies (Australia) Pty. Ltd
Add.: 5/13 Boundary Rd, Northmead, NSW 2152,
Australia
Tel: +61 2 78055523
E-mail: info.au@prosetechnologies.com