

IN-ROW PRECISION AIR CONDITIONING

FC10X, FC16X, FC32X (DX BASED)

They are precision-controlled air conditioners designed for cooling solution to Inrow data centers, providing active cooling for applications with high heat load per cabin, and can adjust their capacity according to the cooling need with inverter technology.



- It provides 10kW, 16kW and 32kW cooling capacity in 42U,
- 47U 300x1000 or 300x1200 cabinets
- User-friendly 7" color touch screen with graphic display as an option,
- Up to 8 teamwork,
- Co-aging feature,
- It provides maximum efficiency by making Capacity
- Control with inverter drive technology.
- High efficiency at full and part load,
- Optional temperature and humidity control,
- Preventing low blowing temperature in the dehumidification process with the optional 3-stage 3kW,
- 6kW and 9kW electric heater support,
- Maximum energy efficiency (EER>3),
- It has been specially developed for cold and hot aisle closure applications.
- No raised floor required.
- Variable speed fans with hot-swappable EC technology,
- Optionally, copper pipe connection possibility from the top or the bottom,
- Option to work according to temperature or pressure difference,
- Consumption calculation with energy analyzer option,
- While remote control support is provided with Modbus RTU in standard products, remote control is offered as an option with Web Interface, SNMP, Modbus TCP/IP, Bacnet,
- SMTP, NTP support.

IN-ROW PRECISION AIR CONDITIONING

FC52X (DX BASED)

They are precision-controlled air conditioners designed for cooling solution to Inrow data centers, providing active cooling for applications with high heat load per cabin, and can adjust their capacity according to the cooling need with inverter technology.

- It provides 52kW cooling capacity in 42U, 47U 600x1000 or 600x1200 cabinet.
- User-friendly 7" color touchscreen with graphic display as an option,
- Up to 8 teamwork,
- Co-aging feature,
- It provides maximum efficiency by making Capacity
- Control with inverter drive technology between 22.5kW and 52kW
- High efficiency at full and part load,
- Optional temperature and humidity control,
- Preventing low blowing temperature in the dehumidification process with the optional 3-stage 9kW electric heater support,
- Maximum energy efficiency (EER>3),
- It has been specially developed for cold and hot aisle closure applications.
- No raised floor required.
- Variable speed fans with hot-swappable EC technology,
- Optionally, copper pipe connection possibility from the top or bottom,
- Option to work according to temperature or pressure difference,
- Consumption calculation with energy analyzer option,
- While remote control support is provided with Modbus
- RTU in standard products, remote control is offered as an option with Web Interface, SNMP, Modbus TCP/IP,
- Bacnet, SMTP, NTP support.





Outdoor Unit Technical Features

Inrow Indoor Unit		FC10X		FC16X		FC32X		
Cooling Capacity		min.	max.	min.	max.	min.	max.	
Number of Compressors		1						
Compressor Power Consumption		kW	1,4	2,7	1,6	4,1	2,66	7,9
Fan								
Fan Type		Axial						
Fan Total Flow		m³/h	3500		5500		11000	
Total Power Consumption		kW	0,22		0,57		1,14	
Number of Fans		1		2				
Total EER								
Total Consumption		kW	3,3		5,1		9,71	
EER		3,16		3,25		3,3		
Connections								
Tube connections	Output line(ODS Ø)mm		12			16		
	Inlet line(ODS Ø)mm		19			22		
Electric Connections								
Power Supply		V-Ph~Hz	380/3/50-60					
Noise Data								
Noise Data		dB(A)	54		61		64	
Dimensions and Weight								
Length		mm	1081		1084		10163	
Depth		mm	387		405		430	
Height		mm	729		1135		1541	
Weight		kg	115		150		188	
Operating Temperature Range		-20°C + 50°C						



Outdoor Unit Technical Features

Inrow Indoor Unit		FC52X
Fan		
Fan Type		Axial
Fan Total Flow	m³/h	16500
Total Power Consumption	kW	1,7
Number of Fans		3
Connections		
Tube Connections	Output line(ODS Ø)mm	28
	Inlet line(ODS Ø)mm	19
Electrical Connections		
Power Supply	V-Ph~Hz	380/3/50-60
Noise Data		
Sound power	dB(A)	68
Dimensions and Weight		
Length	mm	1400
Depth	mm	310
Height	mm	1800
Weight	kg	170
Operating Temperature Range		-20°C + 50°C

Product Features



High
Performance



Compact
Design



Easy
Maintenance



High
Efficiency



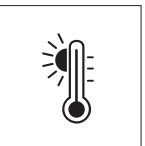
Modular Structure



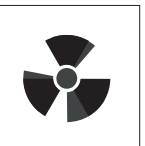
Smart Control
Mechanism



Eco-Friendly

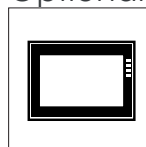


Precision
Temperature Control

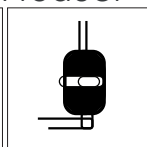


EC Fan
Technology

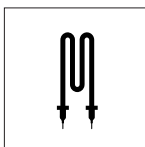
Optional Product



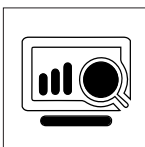
7" Color Touch
Screen (Optional)



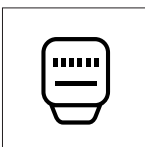
Steam Humidifier



Electric Heater



Remote Access



Energy Analyser



Dehumidification

Cooling Performance

FC10X					
Cooling Capacity kW		Ambient Temperature			
		35 °C	40 °C	45 °C	50 °C
Return Air Temperature °C	26	7,2	6,7	6,1	5,6
	28	7,7	7,2	6,6	6
	30	8,3	7,8	7,1	6,5
	32	9	8,4	7,7	7
	34	9,6	9	8,3	7,6
	36	10,3	9,7	8,9	7,9
	38	11	10,3	9,5	8,5
	40	11,9	11,1	10,2	9,4

FC16X					
Cooling Capacity kW		Ambient Temperature			
		35 °C	40 °C	45 °C	50 °C
Return Air Temperature °C	26	11,6	10,7	9,9	9
	28	12,6	11,6	10,7	9,7
	30	13,4	12,5	11,5	10,4
	32	14,4	13,4	12,4	11,3
	34	15,5	14,4	13,3	12,2
	36	16,5	15,5	14,4	13,2
	38	17,8	16,7	15,4	14,1
	40	19	17,8	16,5	15

FC32X					
Cooling Capacity kW		Ambient Temperature			
		35 °C	40 °C	45 °C	50 °C
Return Air Temperature °C	26	22,4	20,3	18	15,6
	28	24,3	22,1	19,7	17,2
	30	26,3	24	21,6	18,9
	32	28,5	26,1	23,4	20,7
	34	30,5	28,2	25,7	23,2
	36	32,9	30,4	27,8	25,2
	38	35,3	32,8	30,2	27,2
	40	37,8	35,2	32,1	29,5

Cooling Capacity kW		Ambient Temperature			
		35 °C	40 °C	45 °C	50 °C
Return Air Temperature °C	26	37,8	35,2	32,4	29,5
	28	40,7	37,9	34,8	31,7
	30	43,6	40,7	37,4	34,2
	32	46,9	43,7	40,3	36,8
	34	50,2	46,9	43,3	39,5
	36	53,8	50,3	46,4	42,3
	38	57,5	53,7	49,7	45,5
	40	61,3	57,4	53,2	48,8

Graphic Table

