



WALTON

Commercial AC

Pioneer of Chiller Manufacturing in Bangladesh

Air Cooled Modular Inverter Chiller

Comfort without Compromise



Commercial
Building



Hospital



Airport



Industry



Hotel & Motel



Theater



Process Water
Cooling



Walton Hi-Tech Industries PLC.
(Pioneer of VRF & Chiller Manufacturing in Bangladesh)

Technical Specification of Air Cooled Modular Scroll Chiller

Model		Inverter		Fixed Speed				
		WACPSVR035C-HC	WACPSVR065C-HC	WACTSFR035CB-HC	WACTSFR065HA-HC	WACTSFR065CA-HC	WACTSFR130CA-HC	
Cooling Capacity	kW	35	65	35	65	65	130	
	TR	10	18.5	10	18.5	18.5	37	
Heating Capacity	kW	--	--	--	70	--	--	
	TR	--	--	--	20	--	--	
Power Supply	V-Ph-Hz	380-3-50						
Power Input	Cooling	kW	10.61	19.7	11.5	21.5	21.5	41.9
	Cooling Rated Current	amp	16.66	33	19.0	40.3	38.2	75.5
	Heating	kW	--	--	--	21.8	--	--
	Heating Rated Current	amp	--	--	--	41.5	--	--
Maximum Input Power	kW	14	27	14.0	30.2	30.2	57.6	
Maximum Input Current	amp	24.8	46.5	27	50	50	100	
Cooling EER	kW/kW	3.4	3.3	3.04	3.02	3.02	3.10	
Heating COP	kW/kW	--	--	--	3.21	--	--	
Refrigerant	Type	--	R-410a					
	Charge Amount	kg	6	12	6	12	12	21
Compressor	Type	--	Hermetic Scroll					
	Quantity	--	1	2	1	2	2	2
Evaporator (Water Side Heat Exchanger)	Type	--	Brazed Plate Heat Exchanger (BPHE)	High Efficiency Heat Exchanger Shell & Tube				
	Water Flow Rate	m ³ /h	6.2	11.13	6	11.5	11.5	22.5
	Water Pressure Drop	kPa	32.1	32.1	30	30	30	45
	Connection Water Pipe Size	mm	IS07/1-R2	IS07/1-R2	DN40	DN50	DN50	DN65
Condenser (Air Side Heat Exchanger)	Type	--	V-shape Fin & Tube					
	Fan Quantity	--	1	2	1	2	2	2
	Total Airflow	m ³ /h	13000	26000	13000	26000	26000	48000
	Current	amp	2.2 x 1	2.2 x 2	2.2 x 1	2.2 x 2	2.2 x 2	5.3 x 2
Power	kW	0.75 x 1	0.75 x 2	0.75 x 1	0.75 x 2	0.75 x 2	2.2 x 2	
Unit Dimension (L x D x H)	mm	1400x1000x1655	2060x1000x1845	1400x1000x1655	2060x1000x1845	2060x1000x1810	2250x1250x2100	
Packing Dimension (L x D x H)		1410x1005x1795	2070x1005x1985	1410x1005x1795	2070x1005x1985	2070x1005x1950	2260x1255x2240	
Net Weight	Kg	350	650	350	650	640	1000	
Operating Weight	Kg	400	700	400	700	690	1100	

Notes

- The above specifications are based on below rated conditions: Cooling mode: Ambient dry/wet bulb temperature 35°C/24°C, water inlet/outlet temperature 12°C/7°C Heating mode: Ambient dry/wet bulb temperature 7°C/6°C, water inlet/outlet temperature 40°C/45°C.
- Min./Max operating ambient temperature range for cooling 5°C/48°C & for heating -10°C/21°C.
- Walton has right to change the above data without any prior notice.

Features of Air Cooled Modular Chiller



Highly Efficient Scroll Compressor

Unit is adopted with a famous brand hermetic scroll compressor, which is highly efficient, energy saving and operates stably, with low noise, slight vibration and long service life.



V-shaped Condenser

The v-shaped condenser is constructed with internally grooved copper tube & hydrophilic aluminum fins combined with premium axial impeller ensures more effective air distribution, increases heat transfer and thus improves unit performance.



Shell & Tube/BPHE Evaporator

High efficiency heat exchanger are designed not only to greatly enhance the heat transfer but also safer and more reliable for operation with better corrosion resistance and higher tolerances of water quality.



Environment Friendly Refrigerant

Eco-friendly refrigerant with zero ozone depletion potential could help to boost the unit performance and lower the energy consumption.



Flexible Modular Design

Units are able to combine with the same or different models to meet the needs of large cooling applications easily.



Electronic Expansion Valve

The unit adopts the 480-steps electronic expansion valve for precise throttling of refrigerant flow, thus the refrigerant in the system is dynamically adjusted to suit the load demands in a fast and accurate way to greatly improve the unit energy efficiency.

Features of Air Cooled Modular Chiller



Intelligent Control System

The unit features a microcontroller-based control system for better integration with all the other components. Being an embedded system there are some advantages such as low power consumption, fast operation, compact design, easy integration & modification etc. It includes industry standard RS-485 communication interface for connectivity. An elegant touch control panel is a part of the system for making necessary user adjustments.



Multiple Protection Functions

The unit features a wide range of safety devices, such as flow switch, thermal probes, overload relays, pressure switches & sensors, which allow the chiller to be operated securely. The controller cumulates all the sensor data & issues timely warning & corrective actions in case of deviation from standard operating parameters.

Model: FC263

- Timer ON/OFF Setting
- System Working Mode Display
- Real Time Clock
- Key Lock Function
- 2-way Valve Chain Status Display



- Touch Key Operation
- Outlet/Inlet Water Temperature Display
- Pump & Compressor Status Display
- System Parameters Inquiry
- Power Off Memory Function Fault Code Display



Safety Protection



Low Noise



Perfect Cooling



High EER



Eco Friendly



Subject to change without any prior notice

Walton Hi-Tech Industries PLC.

Headquarters and R&I Center:

Chandra, Kaliakoir, Gazipur, Bangladesh
Email: hq@waltonplc.com

Corporate Office (Bangladesh):

Block: I, Road: Sabrina Sobhan 5th Avenue
Bashundhara, Vatara, Dhaka-1229, Bangladesh
Cell: +8809606555555, Email: info@waltonplc.com

Corporate Office (Global):

12225 Greenville Avenue, Suite # 880, Dallas
Texas 75243, USA, Email: vp@waltonllc.us



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waltonbd.com

Helpline: **16267**