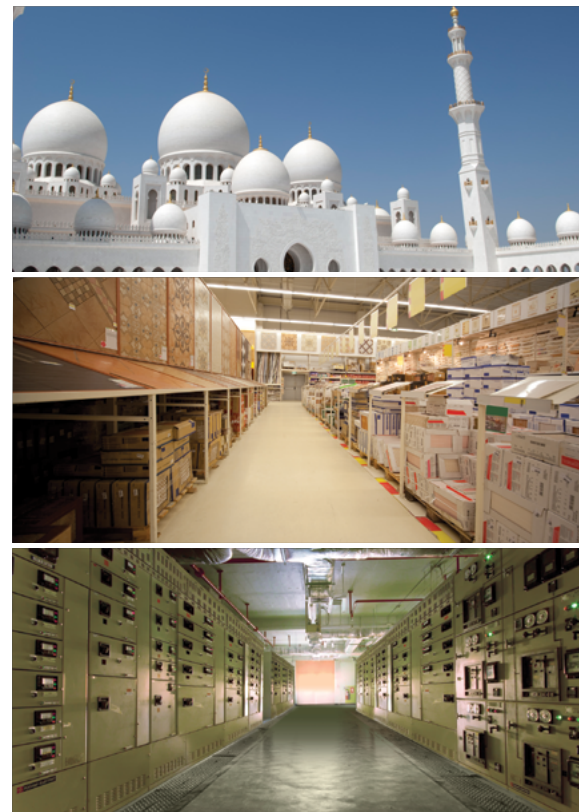


## Technical Specifications

Rooftop Packaged Unit		COOL ONLY									
		50TCMA07A9	50TCMD08A9	50TCMD09A9	50TCMD12A9	50TCMD14A9	50TJM-18A9	50TJM-24A9	50TJM-28A9	50TJM-34A9	
Unit Size	TR	6.0	7.5	8.5	10.0	12.5	14.8	18.1	22.5	26.6	
Rated Capacity <sup>1</sup>	Cooling	BTU/h	66,500	86,500	94,000	113,500	135,500	169,532	204,836	254,537	297,238
		KW	19	25	28	33	40	50	60	75	87
Rated Capacity <sup>2</sup>	Cooling	BTU/h	59,500	76,500	81,000	100,700	114,500	143,000	182,000	225,000	246,000
		KW	17	22	24	30	34	42	53	66	72
Power Supply	V-Ph-Hz	400-3-50									
Total System Power Input <sup>1</sup>	Watts	5,940	6,920	7,890	9,870	12,310	15,410	19,050	21,730	28,370	
Total System Power Input <sup>2</sup>	Watts	7,130	9,110	9,760	12,190	14,050	17,650	22,470	27,660	30,940	
EER <sup>1</sup>	Btu/W-h	11.20	12.50	11.90	11.50	11.00	11.00	10.75	11.71	10.48	
EER <sup>2</sup>	Btu/W-h	8.34	8.40	8.30	8.26	8.15	8.10	8.10	8.13	7.95	
COP <sup>1</sup>	W/W	3.28	3.66	3.49	3.37	3.23	3.22	3.15	3.43	3.07	
Total System Current <sup>1/2</sup>	A	10.28 / 11.81	11.35 / 14.85	13.68 / 16.17	17.95 / 21.02	13.8 / 17.2	30.00 / 32.62	37.77 / 41.69	41.69 / 47.52	50.73 / 55.14	
Standard Airflow	CFM	2,400	3,000	3,400	4,000	4,800	5,300	6,700	8,000	9,000	
Compressor	Qty / Type	1 / Scroll		2 / Scroll							
Refrigerant	Type	R410A									
Refrigerant Circuit	#	1		2							
Refrigerant Metering Device	Type	Acutrol			TXV - Adjustable						
Refrigerant Charge Per Circuit	Kg	7.35	3.95 / 4.00	4.30 / 4.50	4.83 / 4.82	5.80 / 5.55	7.2 / 7.2	10.1 / 11.4	14.2 / 13.3	14.3 / 14.2	
Condenser Coil	Type	Cu/Al									
Condenser Coil	Rows/ FPI	2 / 17			1 / 20	2 / 20	3 / 16	4 / 16	4 / 17		
Evaporator Coil	Type	Cu/Al									
Evaporator Coil	Rows/ FPI	4 / 15	3 / 15	4 / 15			3 / 17		4 / 17		
Condenser Motor	Type	Induction Motor - Totally Enclosed									
Evaporator Motor	Type	Induction Motor - Totally Enclosed									
Sound Rating (A-Weighted)	dB	85.3	84.4	85.7	90.2	92.0	90.3	90.9	90.6	91.1	
Shipping Weight	Kg	275	345	388	393	489	860	880	1125	1150	
Dimensions (L x D x H)	mm	1888 x 1187 x 1051	2238 x 1510 x 1048	2238 x 1510 x 1253			2440 x 2235 x 1375		3200 x 2485 x 1400		
Drain Pipe Connection Size	inch	3/4									

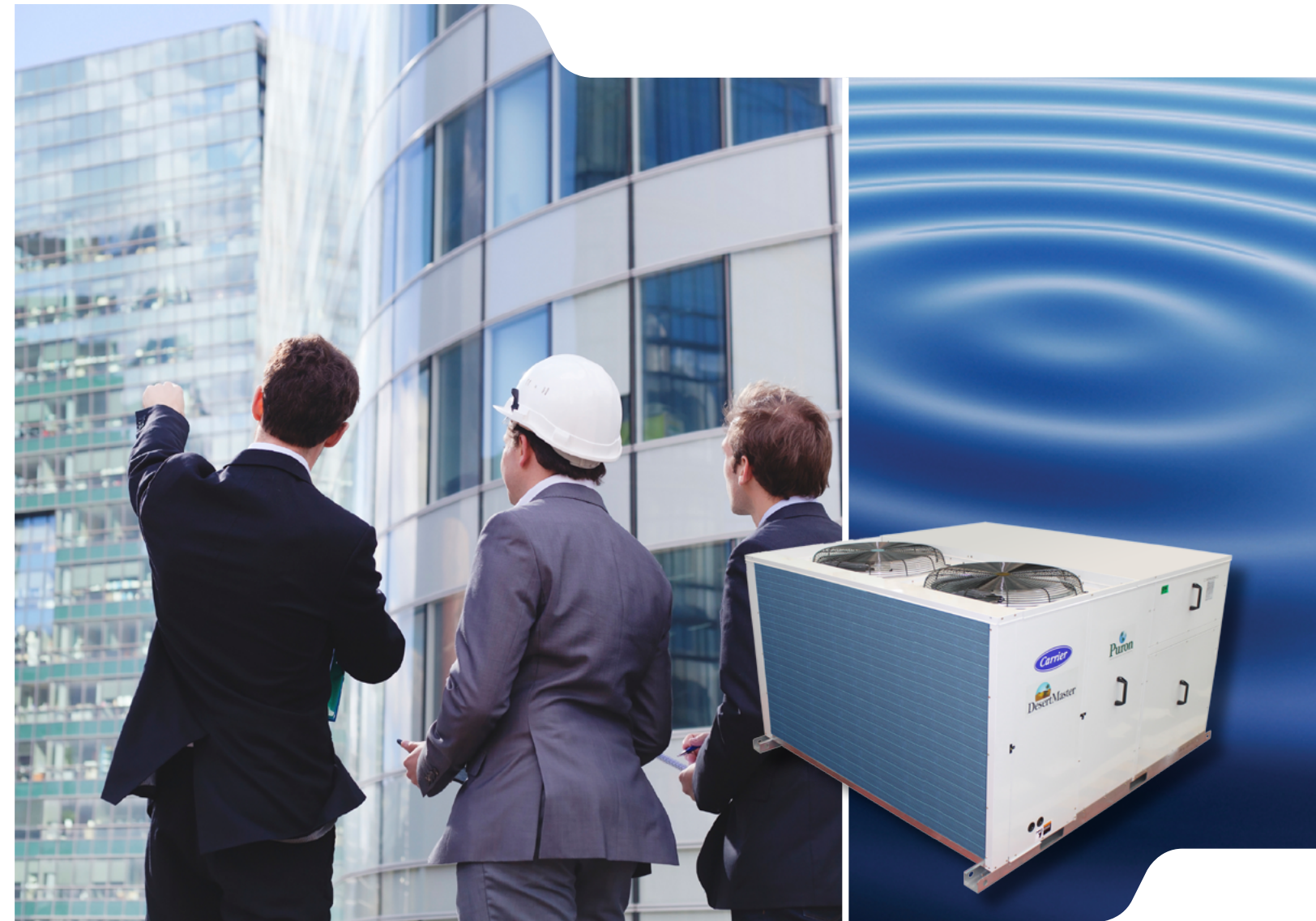
Rooftop Packaged Unit		COOL ONLY			
		50ZPM-36A9	50ZPM-48A9	50ZPM-60A9	
Unit Size	TR	3.0	4.0	5.0	
Rated Capacity <sup>1</sup>	Cooling	BTU/h	36,000	48,000	56,000
		KW	10.554	14.075	16.417
Rated Capacity <sup>2</sup>	Cooling	BTU/h	30,766	41,629	48,377
		KW	9.020	12.204	14.182
Power Supply	V-Ph-Hz	400V - 3Ph - 50Hz			
Total System Power Input <sup>1</sup>	Watts	2,899	4,127	4,750	
Total System Power Input <sup>2</sup>	Watts	3,297	5,015	5,810	
EER <sup>1</sup>	Btu/W-h	11.60			
EER <sup>2</sup>	Btu/W-h	9.08	8.30	8.52	
COP <sup>1</sup>	W/W	3.64	3.41	3.46	
Total System Current <sup>1/2</sup>	A	4.8 / 5.47	6.8 / 8.10	7.1 / 8.6	
Standard Airflow	CFM	1,200	1,600	1,650	
Compressor	Qty / Type	1 / Reciprocating	1 / Scroll		
Refrigerant	Type	R410A			
Refrigerant Circuit	#	Single			
Refrigerant Metering Device	Type	Priston	TXV		
Refrigerant Charge Per Circuit	Kg	3.00	2.62	3.06	
Condenser Coil	Type	Cu/Al			
Condenser Coil	Rows/ FPI	2 / 20			
Evaporator Coil	Type	Cu/Al			
Evaporator Coil	Rows/ FPI	3 / 12			
Condenser Motor	Type	Induction Motor - Totally Enclosed			
Evaporator Motor	Type	Electronically Commutated (ECM)			
Sound Rating (A-Weighted)	dB	76.3	76.8	78.9	
Shipping Weight	Kg	127	139	160	
Dimensions (L x D x H)	mm	1295 x 812.5 x 879	1295 x 812.5 x 981	1295v x 812.5 x 1184	
Drain Pipe Connection Size	inch	3/4			



<sup>1</sup> As per AHRI Std 340/360:2007 - Indoor Air Temperatures 26.7°C (DB) / 19.4°C (WB) and Outdoor Air Temperatures 35°C (DB) / 23.9°C (WB)  
<sup>2</sup> As per UAE-S ISO 13253:2011 - Indoor Air Temperatures 29°C (DB) / 19°C (WB) and Outdoor Air Temperatures 46°C (DB) / 24°C (WB)  
 Carrier reserves the right to change features and/ or specifications without notice and without incurring any liability



# Packaged Rooftop Unit 50ZPM-50TCM-50TJM



With non-ozone depleting refrigerant (R-410A)





## Performance, efficiency, sustainability. We're the complete package.

Carrier provides a line of Desert Master packaged equipment to meet demanding HVAC systems requirements, with Puron® (R-410A) refrigerant and environmental efficiency ratings (EER) as high as 12.5



**50ZPM**  
3 - 5 tons



**50TCM**  
6 - 12 tons



**50TJM**  
15 - 27 tons

### Desert Master series

#### Optimum life-cycle performance

Carrier package units are available in a capacity range from 3 to 27 tons, and offer features such as easy installation, reliability, low operating cost, flexibility of heating option and much more...

#### Air treatment

An important aspect of any HVAC system is the correct supply of treated fresh air to the building occupants, improving indoor air quality (IAQ) levels. Carrier offers a vast range of packaged units to ensure the best match of the requirements.

#### Performance features

HFC R-410A non-ozone depleting refrigerant

Two independent refrigerant circuits, each with a scroll compressor

Liquid filter drier standard on each circuit

Non-corrosive sloped condensate drain pan in accordance with ASHRAE 62 standard

Angle type return air section with washable type filters (16-27tons)

ASHRAE 90.1 Compliant

ESMA compliant product

EER's up to 12.5

TXV refrigerant metering device

Fresh air intake capable

Thermally protected fan motors



#### Superior reliability, efficiency and safety

- **Exceptional endurance tests**  
Painted panels tested to ASTM B-117 500 hours salt spray protection
- **Compressor Protection**  
Crankcase heaters are standard for all units  
Internal over temperature protection  
Freeze protection  
Braze refrigerant connections for increased leak tightness
- **Low-noise scroll compressors with low vibration levels**



#### Durable-dependable construction

Designed for durability in any climate, the weather-resistant cabinets are constructed of galvanized steel, bonderized, and all exterior panels are coated with a pre-painted baked enamel finish.



#### Easy installation

All units feature base rail design with forklift slots and rigging holes for easier maneuvering. Durable packaging protects all units during shipment and storage. Convenient side by side openings permit installation very close to the face of buildings or on roof top.



#### Factory-assembled package

It is a compact, fully self-contained, electric cooling unit with horizontal supply and return ducts. The 50ZP units are available in three standard cooling sizes to meet residential and light commercial requirements. Unit installs easily on a ground level pad.



#### Indoor-air quality

Non corrosive sloped condensate pans minimize biological growth in rooftop units in accordance with ASHRAE (American Society of Heating, Refrigeration and Air Conditioning Engineers) Standard 62-99 (IAQ).



#### Simple, electrical connections

Terminal boards, located in the unit control box, facilitate connections to room thermostat, outdoor thermostat(s) and electric heater. Service panels can be quickly removed, permitting easy servicing. Both power and control connections are made on the same side of the unit to simplify installation. In addition, color-coded wires permit easy tracing and diagnostics.