



Roof Tops  
3 to 5 Tons



Roof Tops  
7.5 Tons



Roof Tops  
10 to 15 Tons



Roof Tops  
20 Tons



Roof Tops  
25 Tons

13  
SEER



**ERC, ERCT SERIES**  
COMMERCIAL ROOF TOPS

**ERC ERCT SERIES**



ERCT Series Technical Specifications										
Model No.		ERCT-075CWN1-D	ERCT-100CWN1-D	ERCT-150CWN1-D	ERCT-200CWN1-D	ERCT-250CWN1-D				
Nominal Ton	Ton	7.5	10	15	20	25				
Power Supply	V/Ph/Hz	220/3/60	220/3/60	220/3/60	220/3/60	220/3/60				
	Btu/h	89,000	120,000	180,000	240,000	300,000				
Cooling 1	Capacity									
	kW	26.1	35.2	52.8	70.3	87.9				
	Power Input	kW	7.8	10.7	16.2	21.9	27.8			
Cooling 2	EER	Btu/h.W	11.4	11.2	11.1	11.0	10.8			
	Capacity	Btu/h	69.6	100.2	146,000	200,400	251,700			
	Power input	kW	20.4	29.37	42.79	58.76	73.77			
Max. Input Consumption	kW	8.6	12.5	18.5	25.2	37.9				
	EER	Btu/h.W	8.1	8.0	7.9	8.0	6.6			
Max. Current	kW	11.3	17.5	25	36	45				
	A	42.4	52.3	78.1	111.3	139.3				
Performance	Indoor Air Flow	CFM	2,700	4,120	6,450	8,580	11,138			
	ESP	Pa	Default: 80, 0-250	Default: 90, 0-250	Default: 110, 0-325	Default: 120, 0-400	Default: 250, 125-450			
Indoor Coil	Number Of Rows		3	4	4+4	4	4			
	Fin Spacing	mm	1.3	1.5	1.3+1.3	1.3	1.6			
	Fin Type		Hydrophilic Aluminum Fin	Hydrophilic Aluminum Fin	Hydrophilic Aluminum Fin	Hydrophilic Aluminum Fin	Hydrophilic Aluminum Fin			
Indoor Fan	Tube Diameter	mm	Φ7	Φ7	Φ7	Φ7	Φ8			
	Tube Type		Inner Grooved Copper Pipe	Inner Grooved Copper Pipe	Inner Grooved Copper Pipe	Inner Grooved Copper Pipe	Inner Grooved Copper Pipe			
	Type / Quantity		Centrifugal / 1	Centrifugal / 1	Centrifugal / 1	Centrifugal / 2	Centrifugal / 2			
Compressor	Drive Type		Direct	Belt	Belt	Belt	Belt			
	Motor Model		YDK750-6E	YE2-100L1-4-2.2KW	YE2-112M-4-4.0KW	YE2-132S-4-5.5KW	YE2-132M-4-7.5KW			
	Motor Capacitor		25μF/450V							
Compressor	Motor Speed	RPM	1,080/1,010/930	1,700	1,728	1,730	1,730			
	Type / Quantity		Scroll / 1	Scroll / 1	Scroll / 2	Scroll / 2	Scroll / 2			
	Brand		Copeland	Copeland	Copeland	Copeland	Copeland			
	Model		ZP91KCE-TF5-522	ZP122KCE-TF5-522	ZP57K3E-TF5-522	ZP122KCE-TF5-522	ZP122KCE-TF5-522	ZP137KCE-TF5-522	ZP137KCE-TF5-522	
	Capacity	W	26,600	36,400	17,000	36,400	36,400	36,400	40,200	40,200
	Input	W	8,230	11,000	5,500	11,000	11,000	11,000	12,400	12,400
	RLA	A	30.7	37.9	22.9	37.9	37.9	37.9	53.6	53.6
	LRA	A	191	240	155	240	240	240	245	245
	Refrigerant Oil	ml	1,774	2,513	1,656	2,513	2,513	2,513	3,253	3,253
	Outdoor Coil	Number Of Rows		3	2.5	3.5	3+3	3+3	3+2+3+2	
Fin Spacing		mm	1.5	1.5	1.6	1.5+1.5	1.5+1.5	1.5+1.5+1.5+1.5		
Fin Type			Hydrophilic Aluminum Fin	Hydrophilic Aluminum Fin	Hydrophilic Aluminum Fin	Hydrophilic Aluminum Fin	Hydrophilic Aluminum Fin	Hydrophilic Aluminum Fin		
Tube Diameter		mm	Φ7	Φ7	Φ8	Φ7	Φ7	Φ7		
Outdoor Fan	Tube Type		Inner Grooved Copper Pipe	Inner Grooved Copper Pipe	Inner Grooved Copper Pipe	Inner Grooved Copper Pipe	Inner Grooved Copper Pipe	Inner Grooved Copper Pipe		
	Type		Axial	Axial	Axial	Axial	Axial	Axial		
	Quantity		1	1	1	2	2	2		
	Drive Type		Direct	Direct	Direct	Direct	Direct	Direct		
	Motor Quantity		1	1	1	2	2	2		
Refrigerant	Motor Model		YS1100-6C	YS1100-6C	YS1100-6C	YS2200-6C	YS2200-6C	YS2200-6C		
	Fan Speed	RPM	1,100	1,100	1,100	1,150	1,150	1,130		
Sound Pressure Level	Type / Charge		R410A / 3.8	R410A / 4.1	R410A / 2.2+4.6	R410A / 5.4+5.4	R410A / 6.7+6.7	R410A / 6.7+6.7		
	Control		Throttle valve	Throttle valve	Throttle valve	Throttle valve	Capillary	Capillary		
Wired Controller	dB(A)	75.6	75.7	76.8	78.3	79.2	79.2			
Centralized Controller (Optional)		KJR-25B	KJR-12B/dP(T)-E	KJR-12B/dP(T)-E	KJR-12B/dP(T)-E	KJR-12B/dP(T)-E	KJR-12B/dP(T)-E			
Ambient Temperature (Cooling)	No	Yes	Yes	Yes	Yes	Yes	Yes			
System Stage	°C	10-52	10-52	10-52	10-52	10-52	10-52			
Dimensions	Net (WxHxD)	mm	1475x840x1130	1483x1231x1138	1965x1230x1130	1670x1247x2192	2302x1245x2200			
	Packaging (WxHxD)	mm	1495x870x1150	1500x1255x1155	1995x1255x1160	1695x1284x2212	2330x1275x2230			
	Net	kg	235	325	470	670	895			
Weight	Gross	kg	240	335	485	700	925			
	Net (WxHxD)	mm	1570x840x1130	1578x1231x1138	2060x1230x1130	1765x1247x2192	2415x1245x2200			
Dimensions With Filter	Packaging (WxHxD)	mm	1620x870x1150	1625x1255x1155	2120x1255x1160	1820x1284x2212	2455x1275x2230			

ERC Series Technical Specifications					
Model No.		ERC-36CWN1-V10	ERC-60CWN1-V10	ERC-60CWN1-X10	
Cooling	Type		Cooling only	Cooling only	Cooling only
	Power Supply	V/Ph/Hz	208-230/1/60	208-230/1/60	208-230/3/60
Electrical Data	Capacity	Btu/h	36000	60000	60000
	Input	kW	3.6	6.0	6.0
	Max. Power Input	kW	4.5	8.8	7.8
	Max. Current	A	24.8	48.4	25.5
Compressor	EER	Btu/h.W	10	10	10
	Type		Scroll	Scroll	Scroll
	Brand		LG	LG	Copeland
	Rated Current (RLA)	A	14	23	16.3
	Locked Rotor Amp (LRA)	A	70	120	155
	Thermal Protector	°C	115-125	115-125	135
Indoor Fan Motor	Refrigerant Oil	ml	800	1300	1591
	Type		PSC	PSC	PSC
	Output	HP	1/3	3/4	3/4v
	Rated Current	A	1.41	2.33	2.33
Indoor Fan	Capacitor	μF	10	20	20
	RPM	r/min	400	990	990
	Type		Centrifugal Fan	Centrifugal Fan	Centrifugal Fan
	Material		Metal	Metal	Metal
Indoor Coil	Diameter / Height	mm	282 / 272	282 / 272	282 / 272
	Air Flow	CFM	1450	1655	1655
	Number of Rows		3	4	4
	Tube Pitch (a) x Row Pitch (b)	mm	21x13.37	21x13.37	21x13.37
	Fin Spacing	mm	1.5	1.5	1.5
	Fin Type		Hydrophilic Aluminum	Hydrophilic Aluminum	Hydrophilic Aluminum
	Tube Outside Diameter and Type	mm	Φ7	Φ7	Φ7
	Type		Inner Grooved Tube	Inner Grooved Tube	Inner Grooved Tube
	Coil Length x Height	mm	421x714	421x714	421x714
	Number of Circuits		8	8	8
Outdoor Fan Motor	Type		Aluminum Tube & Fin	Aluminum Tube & Fin	Aluminum Tube & Fin
	Tube Size (O.D)		9/32	9/32	9/32
	Type		PSC	PSC	PSC
	Output	HP	1/4	1/4	1/4
	Rated Current	A	2	2	2
	Capacitor	μF	12	12	12
Outdoor Fan	RPM	r/min	1075	1075	1075
	Material		Alnico	Alnico	Alnico
	Type		Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
	Diameter / Height	mm	550 / 102.5	550 / 102.5	550 / 102.5
Outdoor Coil	Number of Rows		1	2	2
	Fan Material		Metal	Metal	Metal
	Tube Pitch (a) x Row Pitch (b)	mm	21x13.37	21x13.37	21x13.37
	Fin Spacing	mm	1.5	1.5	1.5
	Fin Type (Code)		1/3	1/3	1/3
	Coil Length x Height	mm	1513 x 756	1480 x 756	1480 x 756
Sound	Number of Circuits		1	1	1
	Type		Copper Tube & Aluminum Fin	Copper Tube & Aluminum Fin	Copper Tube & Aluminum Fin
	Tube Size (O.D)		9/32	9/32	9/32
Refrigerant	Power Level	dB(A)	64.9	64.9	67.1
	Type		R410A	R410A	R410A
Design pressure	Weight	kg	1.6	2.8	2.6
	PSI		550/250	550/250	550/250
Operation Temperature	°C		17-30	17-30	17-30
	Ambient Temp	°C	18-46	18-46	18-46
Filter	Type		Nylon	Nylon	Nylon
	Quantity	Pieces	1	1	1
Units	Size (L x H x W)	mm	190 x 670 x 10	190 x 670 x 10	190 x 670 x 10
	Dimension(L x H x W)	mm	1116 x 830 x 744	1116 x 830 x 744	1116 x 830 x 744
	Net/Gross Weight	kg	127/130	146/149	146/149