

# Mbsm.pro, Compressor, Copeland, ZR90K3-TWD-551, ZR90K3TWD551, 7.5 Hp, R22, 380-420/3/50Hz

Category: compressor

written by www.mbsm.pro | 7 February 2022



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## Features:

1, Super efficiency

The efficiency is 12% higher than the most advanced piston type compressor in the market.

2, Crackjack reliability

less movement parts, shaft direction and radial with Copeland patent soft design, to supply high fluid impact and abide impurity resistant.

3, Inner motor turnoff device

it can protect motor to avoid broken by high-temperature and high-current.

4, Low-noise/low-exhaust impulse

the noise is 5Db lower than piston-type compressor and more.

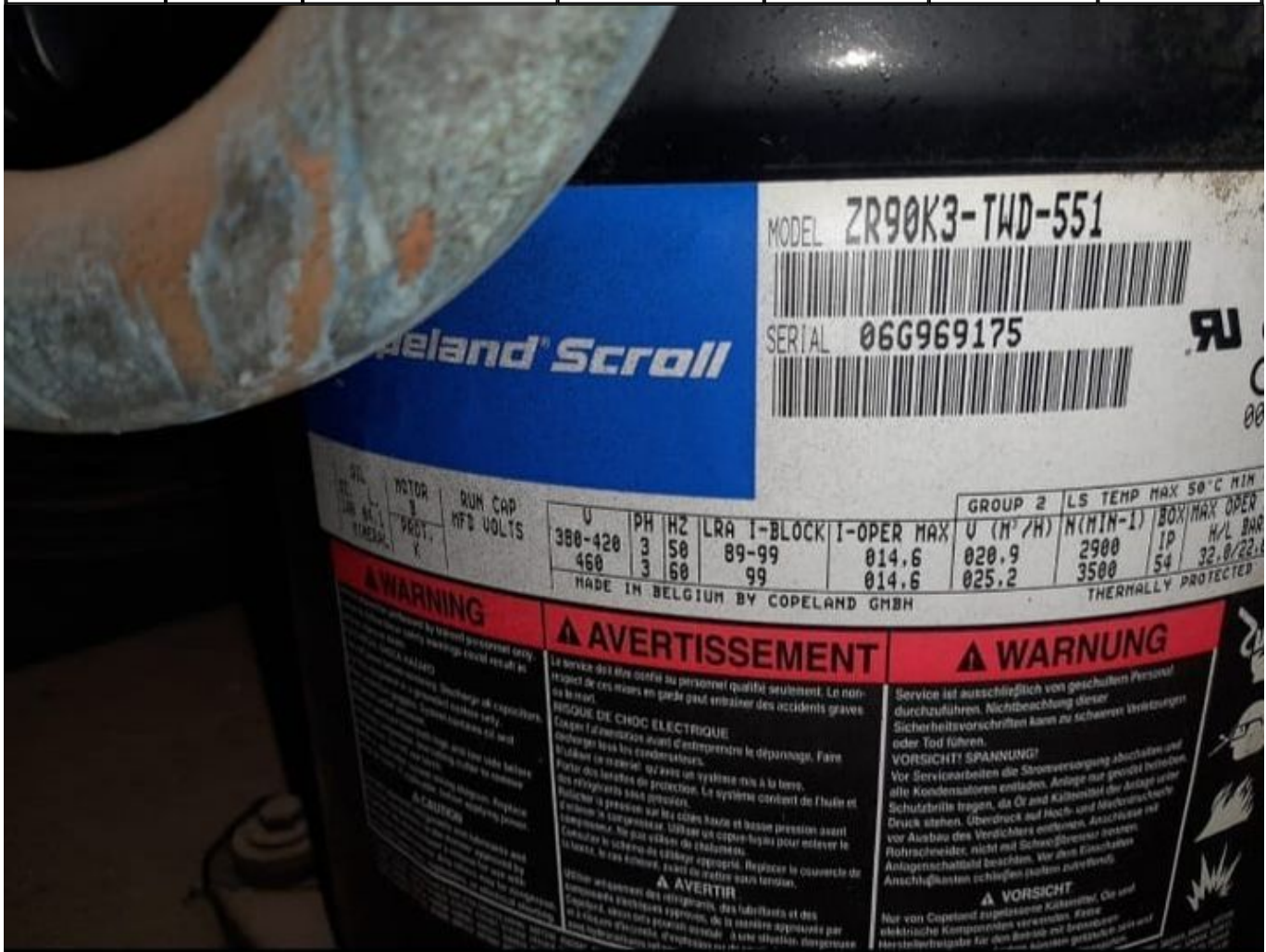
5, Predigest system design

Blue-chip uninstalled operation design, make single-phase compressor no need to operate capacitance/relay.

6, Nearly 100% cubage efficiency bring super heating ability.

## Technical Datas:

Model	Power (HP)	Exhaust capacity M3/h	Air condition(7.2/54.4°C)		Weight (Kg)	Height (mm)
			Refrigeration Capacity( W)	Input power (W)		
Single phase						
ZR16K3-PFJ	1.33	3.97	4010	1320	25.9	370.4
ZR18K3-PFJ	1.50	4.37	4400	1440	25.9	370.4
ZR20K3-PFJ	1.69	4.76	4890	1600	25.9	370.4
ZR22K3-PFJ	1.83	5.34	5330	1730	25.9	382.8
ZR24K3-PFJ	2.00	5.92	5920	1870	26.3	382.8
ZR26K3-PFJ	2.17	6.27	6330	2000	25.9	382.8
ZR28K3-PFJ	2.33	6.83	6910	2150	27.2	382.8
ZR30K3-PFJ	2.50	7.30	7380	2290	28.5	405.5
ZR32K3-PFJ	2.67	7.55	7760	2410	28.1	405.5
ZR34K3-PFJ	2.83	8.02	8200	2520	29.5	405.5
ZR36K3-PFJ	3.00	8.61	8790	2700	29.5	405.5
ZR40K3-PFJ	3.33	9.43	9670	2970	29.9	419.3



### Quick Details

Condition: New

Showroom Location: None

Machinery Test Report: Provided

Brand Name: Copeland

Application: Refrigeration Parts

Compressor type: Hermetic scroll compressor

Color: black

Horse Power: 7.5HP

Voltage: 380~420V/ 3P /50HZ

Power Source: AC Power

Local Service Location: None



Applicable Industries: Hotels, Garment Shops, Building Material Shops, Machinery ...

Video outgoing-inspection: Provided

Marketing Type: Hot Product 2019

Place of Origin: Chai Nat, Thailand

Type: Refrigeration Compressor

Warranty: 1 Year, One year

Compressor Kind: Copeland compressor ZR Series

Refrigerant: r22

Weight(kg): 35.4

Original: Thailand,US

After Warranty Service: Video technical support, Online support, Spare parts, Field ...

Certification: ce

After-sales Service Provided: Free spare parts, Video technical support, Field installation, ...

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ZR68KC-TFD↕	5.75↕	16.18↕	16400↕	4970↕	38.1↕	456.9↕
ZR72KC-TFD↕	6.00↕	17.05↕	17400↕	5250↕	38.1↕	456.9↕
ZR81KC-TFD↕	6.72↕	19.20↕	19690↕	5830↕	40.9↕	462.4↕
ZR84KC-TFD↕	7.00↕	19.75↕	20330↕	6140↕	56.7↕	495.3↕
ZR94KC-TFD↕	8.00↕	22.14↕	22940↕	7000↕	58.0↕	495.3↕
ZR108KC-TFD↕	9.00↕	25.15↕	26250↕	7830↕	72.6↕	533.4↕
ZR125KC-TFD↕	10.00↕	28.77↕	30470↕	9060↕	78.0↕	533.4↕
↕						
ZR90K3-TWD↕	7.50↕	20.90↕	21540↕	6620↕	91.0↕	542.0↕
ZR11M3-TWD↕	9.00↕	24.9↕	25840↕	7805↕	91.0↕	542.0↕
ZR12M3-TWD↕	10.00↕	28.80↕	29890↕	8955↕	92.0↕	542.0↕
ZR16M3-TWD↕	13.00↕	35.60↕	37330↕	11175↕	98.0↕	557.0↕
ZR19M3-TWD↕	15.00↕	42.10↕	45170↕	13400↕	112.0↕	596.0↕

ZR42K3-PFJ	3.50	9.94	10100	3120	29.9	419.3
ZR47K3-PFJ	3.92	11.15	11500	3530	30.4	436.6
Three phase						
ZR22K3-TFD	1.83	5.34	5330	1650	25.9	382.8
ZR24K3-TFD	2.00	5.92	5920	1840	25.9	382.8
ZR26K3-TFD	2.17	6.27	6330	1960	25.9	382.8
ZR28K3-TFD	2.33	6.83	6910	2150	26.3	405.5
ZR30K3-TFD	2.50	7.30	7380	2290	26.3	405.5
ZR32K3-TFD	2.67	7.55	7760	2410	26.3	405.5
ZR34K3-TFD	2.83	8.02	8200	2500	28.6	405.5
ZR36K3-TFD	3.00	8.61	8790	2680	27.2	405.5
ZR40K3-TFD	3.33	9.43	9670	2950	28.6	419.3
ZR42K3-TFD	3.50	9.94	10100	3090	28.6	419.3
ZR45KC-TFD	3.75	10.73	11100	3380	28.6	436.3
ZR46KC-TFD	3.83	10.95	11000	3390	34.9	456.9
ZR47KC-TFD	3.92	11.16	11500	3500	28.6	436.3
ZR49KC-TFD	4.08	11.45	11700	3600	35.4	456.9
ZR54KC-TFD	4.50	12.73	12900	4030	35.4	456.9
ZR57KC-TFD	4.75	13.42	13700	4160	35.4	456.9
ZR61KC-TFD	5.08	14.34	14600	4430	35.8	456.9

380-420V; 50Hz, 3 Phase

型号	名义匹数 HP	制冷能力		输入 功率 (W)	电流 (A)	COP (W/W)	EER (Btu/Wh)	排量 (cc/ Rev.)	注油量 (l)	净重 (kg)	堵转电流	噪音 声功率 (dBA)	
		(W)	(Btu/h)										
ZR22K3	TFD	1.8	5,350	18,200	1,770	3.2	3.02	10.3	30.7	1.12	24.5	24.0	65.0
ZR24K3	TFD	2.0	5,900	20,200	1,920	3.5	3.08	10.5	34.0	1.12	25.0	26.0	65.0
ZR26K3	TFD	2.2	6,350	21,700	2,010	3.8	3.17	10.8	36.1	1.12	26.8	26.0	65.0
ZR28K3	TFD	2.3	6,900	23,600	2,150	4.0	3.22	11.0	39.3	1.12	25.4	32.0	65.0
ZR32K3	TFD	2.7	7,750	26,500	2,430	4.4	3.19	10.9	43.4	1.24	26.3	35.0	68.0
ZR34KH	TFD	2.8	8,200	28,000	2,480	4.7	3.31	11.3	46.2	1.04	36.3	40.0	68.0
ZR36KH	TFD	3.0	8,880	30,300	2,680	4.7	3.31	11.3	49.5	1.12	30.0	40.0	68.0
ZR39KH	TFD	3.3	9,850	33,600	2,950	5.3	3.34	11.4	54.2	1.12	30.4	46.0	68.0
ZR42K3	TFD	3.5	10,250	35,000	3,110	5.5	3.31	11.3	57.2	1.24	28.2	46.0	68.0
ZR45KC	TFD	3.8	11,100	37,900	3,320	6.1	3.34	11.4	61.1	1.36	28.1	48.0	68.0
ZR47KC	TFD	3.9	11,550	39,400	3,430	6.3	3.37	11.5	64.2	1.36	28.1	48.0	68.0
ZR48KC	TFD	4.0	11,850	40,500	3,600	6.1	3.28	11.2	65.5	1.36	28.1	50.0	68.0
ZR54KE	TFD	4.5	13,200	45,000	3,920	7.4	3.37	11.5	73.1	1.36	29.0	58.0	69.0
ZR54KC	TFD	4.5	13,200	44,880	3,980	7.3	3.31	11.3	73.2	1.95	35.8	61.8	71.0
ZR57KE	TFD	4.8	14,000	47,500	4,130	7.8	3.39	11.5	77.2	1.36	28.6	58.0	69.0
ZR57KC	TFD	4.8	13,900	47,260	4,170	7.8	3.34	11.4	77.2	1.95	36.3	61.8	71.0
ZR61KE	TFD	5.1	14,950	51,000	4,430	7.9	3.37	11.5	82.6	1.24	29.9	59.0	69.0
ZR61KC	TFD	5.1	14,550	49,470	4,430	8.2	3.28	11.2	82.6	1.95	36.1	65.5	71.0
ZR68KC	TFD	5.7	16,900	57,500	4,960	8.6	3.40	11.6	93.0	1.77	39.0	74.0	72.0
ZR72KC	TFD	6.0	17,700	60,500	5,200	8.9	3.43	11.7	98.1	1.77	38.6	74.0	72.0
ZR81KC	TFD	6.8	19,900	68,000	5,810	10.5	3.43	11.7	107.8	1.77	39.0	101.0	72.0
ZR84KC	TFD	7.0	20,800	71,000	6,000	11.4	3.46	11.8	113.6	2.51	57.2	100.0	73.0
ZR94KC	TFD	7.8	23,300	79,500	6,750	12.5	3.46	11.8	127.2	2.51	57.2	95.0	73.0
ZR108KC	TFD	9.0	26,400	90,000	7,550	13.7	3.52	12.0	142.9	3.25	59.9	111.0	74.0
ZR125KC	TFD	10.4	31,000	106,000	9,000	15.8	3.46	11.8	167.2	3.25	61.2	118.0	75.0
ZR144KC	TFD	12.0	35,000	120,000	10,100	17.6	3.49	11.9	190.9	3.25	61.2	118.0	76.0
ZR160KC	TFD	13.3	38,000	130,000	11,300	20.3	3.37	11.5	209.1	3.25	64.9	140.0	79.0
ZR190KC	TFD	15.8	45,500	155,000	13,600	25.6	3.34	11.4	249.2	3.25	66.2	174.0	82.0
ZR250KC	TWD	20.8	60,000	204,000	17,700	29.6	3.37	11.5	325.2	4.67	139.3	225.0	83.0
ZR310KC	TWD	25.8	74,000	253,000	22,000	37.9	3.37	11.5	410.6	6.80	160.1	272.0	85.0
ZR380KC	TWD	31.7	92,500	315,000	26,500	45.1	3.49	11.9	502.7	6.30	176.9	310.0	88.0

备注：  
测试标准AHRI：蒸发温度7.2℃，冷凝温度54.4℃，过冷度8.3K，过热度11.1K，环境温度35℃

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Model	ZR90K3-TWD-551
Voltage	380-420V/3PH/50Hz; 460V/3PH/60Hz
Horse power	7.5 HP
Refrigerant	R22
Displacement	20.90 m3/h
Capacity	21540 w
Input power	6620 w
Net weight	91.0 kg
Oil charge	4.1 L
High	542.0 mm
Year	2021
Color	Black
Type	Scroll
Origin	China/Thailand
Packing	Cartoon / wooden case



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Type: Hermetic piston compressors  
Producer: Copeland  
Series: ZR

## Model: ZR90K3-TWD

### Technical data

Nominal motor power [HP]:	7,5
Displacement [m <sup>3</sup> /h]:	20,9
Sound pressure level :	66
Gross/Net weight [kg]:	105/94
Oil charge [dm <sup>3</sup> ]:	4,1

### Electrical data

Power supply [V/~/Hz]:	380-420/3/50Hz
Locked rotor current [A]:	99
Max. operating current [A]:	17
Winding resistance [ $\Omega$ ]:	1,45

### Connections

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