



Quick Reference Guide

Scroll Compressor Cross Reference Guide





Introduction

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Revision History

This literature supersedes COM-PRC003*-EN.



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Cross Reference: Trane-SF-Danfoss-Copeland

Voltage	Tonnage	Trane OEM COM #	(a) SF COM #	Danfoss COM #	Copeland COM #s		
230-3	6	COM08294	SFCOM072-23020C	—	COM11175	—	—
	7	COM08288	SFCOM084-23020C	COM10205	COM11176	COM11303	—
	8	COM08305	SFCOM096-23020C	COM11158	COM11445	COM08725	COM11176
	9	COM08290	SFCOM108-23020C	COM11159	COM11445	COM08725	COM11447
	9	COM06425	SFCOM110-23020A	COM08952	COM11445	COM08725	COM11447
	10	COM08292	SFCOM120-23020C	COM11160	COM08727	COM11447	—
	10	COM06429	SFCOM125-23020A	COM08954	COM08727	COM11447	—
	12.5	COM08364	SFCOM144-23020A	COM09320	—	—	—
	14	COM06433	SFCOM168-23020A	COM08956	COM11451	COM11483	—
	15	COM06437	SFCOM180-23020A	COM08958	COM11451	COM11483	—
460-3	6	COM08295	SFCOM072-46020C	COM11161	COM11181	—	—
	7	COM08289	SFCOM084-46020C	COM09276	COM10923	COM11182	—
	8	COM08307	SFCOM096-46020C	COM11162	COM11182	COM11446	COM11317
	9	COM08291	SFCOM108-46020C	COM11163	COM11448	COM11317	COM11446
	9	COM06426	SFCOM110-46020A	COM08953	COM11448	COM11317	COM11446
	10	COM08293	SFCOM120-46020C	COM11164	COM11448	COM08734	—
	10	COM06430	SFCOM125-46020A	COM08955	COM11448	COM08734	—
	12.5	COM08365	SFCOM144-46020A	COM09639	—	—	—
	14	COM06434	SFCOM168-46020A	COM08957	COM11484	COM11485	—
	15	COM06438	SFCOM180-46020A	COM08959	COM11484	COM11485	—
575-3	6	COM08296	SFCOM072-57520C	—	COM11330	—	—
	7	COM08303	SFCOM084-57520C	—	COM11332	—	—
	8	COM08308	SFCOM096-57520C	—	COM11332	COM11333	—
	9	COM08315	SFCOM108-57520C	—	COM11819	COM11333	—
	9	COM06427	SFCOM110-57520A	—	COM11819	COM11333	—
	10	COM08323	SFCOM120-57520C	—	COM11819	COM11334	—
	10	COM06431	SFCOM125-57520A	—	COM11819	COM11334	—
	12.5	COM08366	SFCOM144-57520A	—	—	—	—
	14	COM06435	SFCOM168-57520A	—	—	—	—
	15	COM06439	SFCOM180-57520A	—	—	—	—

(a) SF Compressors available April 2016.



Cross Reference: Alliance-Copeland: R-22 Scroll Compressors

Table 1. 208 to 230 Volts 1-ph R-22

Size	COM #	Alliance Description	Part Number	Copeland Model	Description
2.0 TON	COM10023	2 TON ROTOLOCK SCROLL	COM11165	ZR25K5E-PFV-800	2 TON SWEAT SCROLL
2.5 TON	COM10025	2.5 TON ROTOLOCK SCROLL	COM11166	ZR32K5E-PFV-800	2.5 TON SWEAT SCROLL
3.0 TON	COM10026	3.0 TON ROTOLOCK SCROLL	COM11167	ZR38K5E-PFV-800	3.0 TON SWEAT SCROLL
3.5 TON	COM08153	3.5 TON SWEAT SCROLL	COM11168	ZR42K5E-PFV-800	3.5 TON SWEAT SCROLL
3.9 TON	COM10252	3.9 TON SWEAT SCROLL	COM11169	ZR48K5E-PFV-800	3.9 TON SWEAT SCROLL
4.5 TON	COM10258	4.5 TON SWEAT SCROLL	COM11290	ZR54K5E-PFV-800	4.5 TON SWEAT SCROLL
5.1 TON	COM08258	5.1 TON SWEAT SCROLL	COM11171	ZR61K3E-PFV-930	5.1 TON SWEAT SCROLL

Table 2. 208 to 230 Volts 3-ph R-22

Size	COM #	Alliance Description	Part Number	Copeland Model	Description
2.33 TON	COM10237	2.33 TON ROTOLOCK SCROLL	COM11295	ZR28K5E-TF5-800	2.33 TON SWEAT SCROLL
2.5 TON	COM10240	2.5 TON ROTOLOCK SCROLL	COM11296	ZR32K5E-TF5-800	2.5 TON SWEAT SCROLL
3.0 TON	COM10244	3.0 TON ROTOLOCK SCROLL	COM11297	ZR38K5E-TF5-800	3.0 TON SWEAT SCROLL
3.5 TON	COM10247	3.5 TON SWEAT SCROLL	COM11298	ZR42K5E-TF5-800	3.5 TON SWEAT SCROLL
3.9 TON	COM10253	3.9 TON SWEAT SCROLL	COM11172	ZR48K5E-TF5-800	3.9 TON SWEAT SCROLL
4.5 TON	COM10259	4.5 TON SWEAT SCROLL	COM11299	ZR54K5E-TF5-800	4.5 TON SWEAT SCROLL
5.1 TON	COM07161	5.1 TON SWEAT SCROLL	COM11174	ZR61K3E-TF5-930	5.1 TON SWEAT SCROLL
6.0 TON	COM07145	6.0 TON SWEAT SCROLL	COM11175	ZR72KCE-TF5-950	6.0 TON SWEAT SCROLL
6.8 TON	COM07173	6.8 TON SWEAT SCROLL	COM07363	ZR81KCE-TF5-950	6.8 TON SWEAT SCROLL

Table 3. 460 Volt 3-ph R-22

Size	COM #	Alliance Description	Part Number	Copeland Model	Description
2.33 TON	COM06942	2.33 TON ROTOLOCK SCROLL	COM11310	ZR28K5E-TFD-800	2.33 TON SWEAT SCROLL
3.0 TON	COM10245	3.0 TON ROTOLOCK SCROLL	COM11312	ZR38K5E-TFD-800	3.0 TON SWEAT SCROLL
3.5 TON	COM10249	3.5 TON SWEAT SCROLL	COM11313	ZR42K5E-TFD-800	3.5 TON SWEAT SCROLL
4.0 TON	COM10255	4.0 TON SWEAT SCROLL	COM11177	ZR48K5E-TFD-800	4.0 TON SWEAT SCROLL
4.5 TON	COM09949	4.5 TON SWEAT SCROLL	COM10632	ZR54K5E-TFD-800	4.5 TON SWEAT SCROLL
5.1 TON	COM07160	5.1 TON SWEAT SCROLL	COM11179	ZR61K3E-TFD-930	5.1 TON SWEAT SCROLL
6.0 TON	COM07144	6.0 TON SWEAT SCROLL	COM11181	ZR72KCE-TFD-950	6.0 TON SWEAT SCROLL
6.8 TON	COM07172	6.8 TON SWEAT SCROLL	COM07364	ZR81KCE-TFD-950	6.8 TON SWEAT SCROLL



Cross Reference: Alliance-Copeland: R-410A Scroll Compressors

Table 4. 208 to 230 Volts 1-ph R-410

Size	COM #	Description	Part Number	Copeland Model	Description
2 TON	COM09574	2 TON SWEAT SCROLL	COM10608	ZP25K5E-PFV-830	2 TON SWEAT SCROLL
2.5 TON	COM10032	2.5 TON SWEAT SCROLL	COM10612	ZP31K5E-PFV-830	2.5 TON SWEAT SCROLL
3 TON	COM10048	3 TON SWEAT SCROLL	COM10640	ZP36K5E-PFV-830	3 TON SWEAT SCROLL
3.5 TON	COM09756	3.5 TON SWEAT SCROLL	COM11574	ZP42K5E-PFV-830	3.5 TON SWEAT SCROLL
4.25 TON	COM10071	4.25 TON SWEAT SCROLL	COM11575	ZP49K5E-PFV-830	4.25 TON SWEAT SCROLL
4.5 TON	COM09757	4.5 TON SWEAT SCROLL	COM10609	ZP54K5E-PFV-830	4.5 TON SWEAT SCROLL

Table 5. 208 to 230 Volts 3-ph R-410

Size	COM #	Description	Part Number	Copeland Model	Description
2.5 TON	COM10033	2.5 TON SWEAT SCROLL	COM10618	ZP31K5E-TF5-830	2.5 TON SWEAT SCROLL
3 TON	COM10049	3 TON SWEAT SCROLL	COM11577	ZP38K5E-TF5-830	3 TON SWEAT SCROLL
3.5 TON	COM10275	3.5 TON SWEAT SCROLL	COM11578	ZP42K5E-TF5-830	3.5 TON SWEAT SCROLL
4.5 TON	COM09012	4.5 TON ROTOLOCK SCROLL	COM10603	ZP54K5E-TF5-830	4.5 TON SWEAT SCROLL
5.1 TON	COM10212	5.1 TON SWEAT SCROLL	COM11478	ZP61K5E-TF5-830	5.1 TON SWEAT SCROLL
6.0 TON	COM09769	6 TON SWEAT SCROLL	COM11580	ZP72KCE-TF5-950	6 TON SWEAT SCROLL
6.9 TON	COM08846	6.9 TON SWEAT SCROLL	COM09081	ZP83KCE-TF5-950	6.9 TON SWEAT SCROLL

Table 6. 460 Volt 3-ph R-410

Size	COM #	Description	Part Number	Copeland Model	Description
2.33 TON	COM10034	2.33 TON SCROLL	COM10605	ZP31K5E-TFD-830	2.33 TON SWEAT SCROLL
3 TON	COM10050	3 TON SWEAT SCROLL	COM11582	ZP38K5E-TFD-830	3 TON SWEAT SCROLL
3.5 TON	COM09704	3.5 TON SWEAT SCROLL	COM11583	ZP42K5E-TFD-830	3.5 TON SWEAT SCROLL
4.5 TON	COM09013	4.5 TON ROTOLOCK SCROLL	COM10610	ZP54K5E-TFD-830	4.5 TON SWEAT SCROLL
5.1 TON	COM09766	5.1 TON SWEAT SCROLL	COM11479	ZP61K5E-TFD-830	5.1 TON SWEAT SCROLL
6.0 TON	COM09657	6 TON SWEAT SCROLL	COM11585	ZP72KCE-TFD-950	6 TON SWEAT SCROLL
6.9 TON	COM08847	6.9 TON SWEAT SCROLL	COM09082	ZP83KCE-TFD-950	6.9 TON SWEAT SCROLL



Trane Scroll Compressors

Table 7. 230/60/3

Capacity (Tons)	R-22	R-134A, R-404A, R-407C	R-410A	R-410A
6	COM08294	COM08326	—	—
7.5	COM08288	COM08331	COM09845	
8	COM08305	COM08335	—	
9	COM08290	COM08340	COM09120	
9	COM06425	COM07232	—	
10	COM08292	COM08346	COM09856	
10	COM06429	COM07254	—	
12.5	COM08364	COM09739		
14	COM06433	COM07555	COM09870	COM09873
15	COM06437	COM07557	COM09867	COM09170
20	—	—	COM09462	COM09045
25			COM09051	—
30			COM09057	

Table 8. 460/60/3

Capacity (Tons)	R-22	R-134A, R-404A, R-407C	R-410A	R-410A
6	COM08295	COM08327	—	—
7.5	COM08289	COM08332	COM09846	—
8	COM08307	COM08336	—	—
9	COM08291	COM08341	COM09121	—
9	COM06426	COM07253	—	—
10	COM08293	COM08347	COM09857	—
10	COM06430	COM07257	—	—
12.5	COM08365	COM09740		
14	COM06434	COM07556	COM09871	COM09443
15	COM06438	COM07558	COM09868	COM09171
20	—	—	COM09463	COM09839
25			COM09841	—
30			COM09843	



Trane Scroll Compressors

Table 9. 575/60/3

Capacity (Tons)	R-22	R-134A, R-404A, R-407C	R-410A	R-410A
6	COM08296	COM08328	—	—
7.5	COM08303	COM08333	COM09847	
8	COM08308	COM08337	—	
9	COM08315	COM08342	COM09123	
9	COM06427	COM09737	—	
10	COM08323	COM08350	COM09858	
10	COM06431	COM08010	—	
12.5	COM08366	—		
14	COM06435	COM09738	COM09872	COM09445
15	COM06439	COM08011	COM09869	COM09173
20	—	—	COM09465	COM09840
25			COM09842	—
30			COM09844	



SF Model Number Nomenclature

Digit 1, 2, 3, 4, 5 — SF Scroll Compressor^(a)

^(a) SF Compressors available April 2016

Digit 6, 7, 8 — Nominal Capacity

072 = Nominal Capacity at Rating Condition 2 or 3 digits

Digit 9, 10, 11 — Electrical Code

230 = 230/3

460 = 460/3

575 = 575/3

Digit 12 — Refrigerant

2 = R-22

4 = R-410A

Digit 13 — Lubricant

M = Mineral Oil

P = POE Oil

Digit 14 — Connection Type

S = Stub Tube

R = Rotolock

Digit 15 — Protection Type

N = Internal Protection

E = External Protection

Digit 16 — Revision Level

Digit 17 — Bill of Material

^(a) SF Compressors available April 2016



SF Compressors

R-22 scrolls with Mineral Oil and Stub Tube connections

Voltage	COM # ^(a)	Model #	Tonnage	BTU	Shell Diameter (in.)	Suction Diameter (in.)	Discharge Diameter (in.)	Baseplate Footprint (in.)
230-3	SFCOM072-23020C	SFCOM072-230-2MSN0C	6	71,780	8.4	1-1/8	5/8	8.5 × 8.5
	SFCOM084-23020C	SFCOM084-230-2MSN0C	7	87,300	8.4	1-1/8	5/8	8.5 × 8.5
	SFCOM096-23020C	SFCOM096-230-2MSN0C	8	97,000	9	1-3/8	7/8	8.5 × 8.5
	SFCOM108-23020C	SFCOM108-230-2MSN0C	9	113,975	9	1-3/8	7/8	8.5 × 8.5
	SFCOM110-23020A	SFCOM110-230-2MSN0A	9	113,975	10	1-3/8	7/8	8.5 × 12
	SFCOM120-23020C	SFCOM120-230-2MSN0C	10	121,250	9	1-3/8	7/8	8.5 × 8.5
	SFCOM125-23020A	SFCOM125-230-2MSN0A	10	121,250	10	1-3/8	7/8	8.5 × 12
	SFCOM144-23020A	SFCOM144-230-2MSN0A	12.5	148,895	12.5	1-5/8	1-1/8	11 × 12
	SFCOM168-23020A	SFCOM168-230-2MSN0A	14	168,780	12.5	1-5/8	1-1/8	11 × 12
	SFCOM180-23020A	SFCOM180-230-2MSN0A	15	179,450	12.5	1-5/8	1-1/8	11 × 12
460-3	SFCOM072-46020C	SFCOM072-460-2MSN0C	6	71,780	8.4	1-1/8	5/8	8.5 × 8.5
	SFCOM084-46020C	SFCOM084-460-2MSN0C	7	87,300	8.4	1-1/8	5/8	8.5 × 8.5
	SFCOM096-46020C	SFCOM096-460-2MSN0C	8	97,000	9	1-3/8	7/8	8.5 × 8.5
	SFCOM108-46020C	SFCOM108-460-2MSN0C	9	113,975	9	1-3/8	7/8	8.5 × 8.5
	SFCOM110-46020A	SFCOM110-460-2MSN0A	9	113,975	10	1-3/8	7/8	8.5 × 12
	SFCOM120-46020C	SFCOM120-460-2MSN0C	10	121,250	9	1-3/8	7/8	8.5 × 8.5
	SFCOM125-46020A	SFCOM125-460-2MSN0A	10	121,250	10	1-3/8	7/8	8.5 × 12
	SFCOM144-46020A	SFCOM144-460-2MSN0A	12.5	148,895	12.5	1-5/8	1-1/8	11 × 12
	SFCOM168-46020A	SFCOM168-460-2MSN0A	14	168,780	12.5	1-5/8	1-1/8	11 × 12
	SFCOM180-46020A	SFCOM180-460-2MSN0A	15	179,450	12.5	1-5/8	1-1/8	11 × 12
575-3	SFCOM072-57520C	SFCOM072-575-2MSN0C	6	71,780	8.4	1-1/8	5/8	8.5 × 8.5
	SFCOM084-57520C	SFCOM084-575-2MSN0C	7	87,300	8.4	1-1/8	5/8	8.5 × 8.5
	SFCOM096-57520C	SFCOM096-575-2MSN0C	8	97,000	9	1-3/8	7/8	8.5 × 8.5
	SFCOM108-57520C	SFCOM108-575-2MSN0C	9	113,975	9	1-3/8	7/8	8.5 × 8.5
	SFCOM110-57520A	SFCOM110-575-2MSN0A	9	113,975	10	1-3/8	7/8	8.5 × 12
	SFCOM120-57520C	SFCOM120-575-2MSN0C	10	121,250	9	1-3/8	7/8	8.5 × 8.5
	SFCOM125-57520A	SFCOM125-575-2MSN0A	10	121,250	10	1-3/8	7/8	8.5 × 12
	SFCOM144-57520A	SFCOM144-575-2MSN0A	12.5	148,895	12.5	1-5/8	1-1/8	11 × 12
	SFCOM168-57520A	SFCOM168-575-2MSN0A	14	168,780	12.5	1-5/8	1-1/8	11 × 12
	SFCOM180-57520A	SFCOM180-575-2MSN0A	15	179,450	12.5	1-5/8	1-1/8	11 × 12

^(a) SF Compressors available April 2016



Copeland Model Number Nomenclature

Digit 1 — Family Series

Z = Scroll
C = Reciprocating

Digit 2 — Refrigerant

P = R-410A
R = R-22/R-407C

Digit 3 — Modulation (optional)

T = Even Tandem
D = Digital

Digit 4, 5, 6 — Nominal Capacity

120 = Nominal Capacity at Rating Condition 2 or 3 digits

Digit 7 — Capacity Multiplier

K = 1,000
M = 10,000

Digit 8 — Model Variation

1
2
3
4
5
A

Digit 9

E = POE Oil

Digit 10 — Motor Types

P = 1-ph
T = 3-ph

Digit 11 — Motor Protection

F = Internal Protection
W or E = External Protection

Digit 12 — Typical Electrical Codes

V = 208-230/1/60 Hz
5 = 200-230/3/60 Hz and 200-230/3 50 Hz
C = 208-230/3 60 Hz and 200/3 50 Hz
D = 460/3 60 Hz and 380-420/3 50 Hz
E = 575/3 60 Hz
W = 200-220/3 50 Hz
7 = 380/3 60 Hz
J = 265/1 60 Hz and 220-240/1 50 Hz
M = 380-420/3 50 Hz
Q = 265/1 60 Hz

Digit 13, 14, 15 — Bill of Material Product Variation

800 = molded plug w/ power cable and mounting kit
830 = molded plug and mounting kit
855 = molded plug and mounting kit
930 = push on terminal block and mounting kit
950 = screw on terminal block and mounting kit
965 = Rotalock, screw on terminal block & mounting kit
965 = Rotalock, 24V module and mounting kit
966 = Rotalock, 115/240V module



Copeland R-22

Table 10. PFV: 208-230V / 60 / 1

R-22 Copeland Model #	COM #	Tonnage	BTU	Shell Diam.(in.)	Crank- case Heater	Suction Diam.(in.)	Discharge Diam.(in.)	Start Cap MFD/Volts	MNE Start Cap	Run Cap MFD/ Volts	MNE Run cap	MNE Relay
ZR18K5E-PFV-800	COM11262	1.5	18,000	5.5	HTR14969	3/4	1/2	88/330	CPT00086	30/370	CPT00202	RLY03393
ZR21K5E-PFV-800	COM11263	1.75	21,000	5.5	HTR14969	3/4	1/2	88/330	CPT00086	35/370	CPT00105	RLY03393
ZR25K5E-PFV-800	COM11165	2	25,300	5.5	HTR14969	3/4	1/2	88/330	CPT00086	40/370	CPT00201	RLY03393
ZR28K5E-PFV-800	COM11264	2.25	28,400	5.5	HTR14969	3/4	1/2	88/330	CPT00086	45/370	CPT00760	RLY03393
ZR32K5E-PFV-800	COM11166	2.5	32,600	5.5	HTR14969	3/4	1/2	88/330	CPT00086	50/370	CPT00761	RLY03393
ZR38K5E-PFV-800	COM11167	3	38,000	6.5	HTR14973	7/8	1/2	88/330	CPT00086	55/370	CPT00939	RLY03393
ZR42K5E-PFV-800	COM11168	3.5	42,200	6.5	HTR14973	7/8	1/2	88/330	CPT00086	55/370	CPT00939	RLY03393
ZR48K5E-PFV-800	COM11169	4.0	48,200	6.5	HTR14973	7/8	1/2	88/330	CPT00086	60/440	CPT00780	RLY03393
ZR54K5E-PFV-800	COM11290	4.5	53,500	6.5	HTR14973	7/8	1/2	88/330	CPT00086	80/370	CPT00937	RLY03393
ZR57K3E-PFV-930	COM11170	4.75	58,000	7.3	HTR14977	7/8	1/2	270-324/330	CPT01156	80/370	CPT00937	RLY03393
ZR61K3E-PFV-930	COM11171	5	62,000	7.3	HTR14977	7/8	1/2	270-324/330	CPT01156	80/370	CPT00937	RLY03393
ZR68KCE-PFV-950	COM11293	5.5	68,000	7.3	HTR14977	7/8	1/2	—	—	—	—	—

Table 11. TF5: 200-230V / 60 / 3

R-22 Copeland Model #	COM #	Tonnage	BTU	Shell Diameter (in.)	Crankcase Heater	Suction Diameter (in.)	Discharge Diameter (in.)	Suction Rotolock Thread Size	Discharge Rotolock Thread Size
ZR25K5E-TF5-800	COM11294	2	25,300	5.5	HTR14969	3/4	1/2	—	—
ZR28K5E-TF5-800	COM11295	2.25	28,400	5.5	HTR14969	3/4	1/2	—	—
ZR32K5E-TF5-800	COM11296	2.5	32,600	5.5	HTR14969	3/4	1/2	—	—
ZR38K5E-TF5-800	COM11297	3	38,000	6.5	HTR14973	7/8	1/2	—	—
ZR42K5E-TF5-800	COM11298	3.5	42,200	6.5	HTR14973	7/8	1/2	—	—
ZR48K5E-TF5-800	COM11172	4	48,200	6.5	HTR14973	7/8	1/2	—	—
ZR54K5E-TF5-800	COM11299	4.5	53,500	6.5	HTR14973	7/8	1/2	—	—
ZR57K3E-TF5-930	COM11173	4.75	58,000	7.3	HTR14977	7/8	1/2	—	—
ZR61K3E-TF5-930	COM11174	5	62,000	7.3	HTR14977	7/8	1/2	—	—
ZR68KCE-TF5-930	COM08728	5.5	68,000	7.3	HTR14977	7/8	1/2	—	—
ZR72KCE-TF5-950	COM11175	6	73,500	7.3	HTR14977	7/8	1/2	—	—
ZR81KCE-TF5-950	COM07363	6.75	82,000	7.3	HTR14977	7/8	3/4	—	—
ZR84KCE-TF5-950	COM11303	7	84,000	9.14	HTR14980	1-1/8	7/8	—	—
ZR94-KCE-TF5-950	COM11176	8	94,000	9.14	HTR14980	1-1/8	7/8	—	—
ZR108KCE-TF5-950	COM08725	9	108,900	9.14	HTR14980	1-3/8	7/8	—	—
ZR125KCE-TF5-950	COM08727	10	126,400	9.14	HTR14980	1-3/8	7/8	—	—
ZR144KCE-TF5-950	COM11304	12	142,000	9.14	HTR14980	1-3/8	7/8	—	—
ZR190KCE-TE5-950	COM11483	15	181,000	9.14	HTR14980	1-3/8	7/8	—	—
ZR250KCE-TEC-951	COM11486	20	250,000	11.38	HTR14984	1-5/8	1-3/8	—	—
ZR300KCE-TEC-965	COM11488	25	293,000	13.03	HTR14986	—	—	2.25"-12	1.75"-12

Table 12. TFD: 460V / 60 / 3

R-22 Copeland Model #	COM #	Tonnage	BTU	Shell Diameter (in.)	Crankcase Heater	Suction Diameter (in.)	Discharge Diameter (in.)	Suction Rotolock Thread Size	Discharge Rotolock Thread Size
ZR25K5E-TFD-800	COM11309	2	25,300	5.5	HTR14970	3/4	1/2	—	—
ZR28K5E-TFD-800	COM11310	2.25	28,400	5.5	HTR14970	3/4	1/2	—	—
ZR32K5E-TFD-800	COM11311	2.5	32,600	5.5	HTR14970	3/4	1/2	—	—
ZR38K5E-TFD-800	COM11312	3	38,000	6.5	HTR14974	7/8	1/2	—	—
ZR42K5E-TFD-800	COM11313	3.5	42,200	6.5	HTR14974	7/8	1/2	—	—
ZR48K5E-TFD-800	COM11177	4	48,200	6.5	HTR14974	7/8	1/2	—	—
ZR54K5E-TFD-800	COM10632	4.5	53,500	6.5	HTR14974	7/8	1/2	—	—
ZR57K3E-TFD-930	COM11178	4.75	58,000	7.3	HTR14978	7/8	1/2	—	—
ZR61K3E-TFD-930	COM11179	5	62,000	7.3	HTR14978	7/8	1/2	—	—
ZR68KCE-TFD-930	COM11180	5.5	68,000	7.3	HTR14978	7/8	1/2	—	—
ZR72KCE-TFD-950	COM11181	6	73,500	7.3	HTR14978	7/8	1/2	—	—
ZR81KCE-TFD-950	COM07364	6.75	82,000	7.3	HTR14978	7/8	3/4	—	—



Copeland R-22

Table 12. TFD: 460V / 60 / 3 (continued)

R-22 Copeland Model #	COM #	Tonnage	BTU	Shell Diameter (in.)	Crankcase Heater	Suction Diameter (in.)	Discharge Diameter (in.)	Suction Rotolock Thread Size	Discharge Rotolock Thread Size
ZR84KCE-TFD-950	COM10923	7	84,000	9.14	HTR14981	1-1/8	7/8	—	—
ZR94KCE-TFD-950	COM11182	8	94,000	9.14	HTR14981	1-1/8	7/8	—	—
ZR108KCE-TFD-950	COM11317	9	108,900	9.14	HTR14981	1-3/8	7/8	—	—
ZR125KCE-TFD-950	COM08734	10	126,400	9.14	HTR14981	1-3/8	7/8	—	—
ZR144KCE-TFD-950	COM11183	12	142,000	9.14	HTR14981	1-3/8	7/8	—	—
ZR16M3E-TWD-961	COM11184	13	154,000	11.14	HTR14983	—	—	1.75"-12	1.25"-12
ZR19M3E-TWD-961	COM11185	15	185,000	11.14	HTR14983	—	—	2.25"-12	1.75"-12
ZR190KCE-TED-950	COM11484	15	181,000	9.14	HTR14981	1-3/8	7/8	—	—
ZR250KCE-TED-951	COM11487	20	250,000	11.38	HTR14985	1-5/8	1-3/8	—	—
ZR300KCE-TED-965	COM11489	25	293,000	13.03	HTR14987	—	—	2.25"-12	1.75"-12
ZR380KCE-TED-965	COM09553	30	363,000	13.03	HTR14987	—	—	2.25"-12	1.75"-12

Table 13. TFE: 575V / 60 / 3

R22 Copeland Model #	COM #	Tonnage	BTU	Shell Diameter (in.)	Crankcase Heater	Suction Diameter (in.)	Discharge Diameter (in.)
ZR42K5E-TFE-800	COM11324	3.5	42,200	6.5	HTR14975	7/8	1/2
ZR48K5E-TFE-800	COM11325	4	48,200	6.5	HTR14975	7/8	1/2
ZR54K5E-TFE-800	COM11326	4.5	53,500	6.5	HTR14975	7/8	1/2
ZR57K3E-TFE-930	COM11327	4.75	58,000	7.3	HTR14979	7/8	1/2
ZR61K3E-TFE-930	COM11328	5	62,000	7.3	HTR14979	7/8	1/2
ZR68KCE-TFE-930	COM11329	5.5	68,000	7.3	HTR14979	7/8	1/2
ZR72KCE-TFE-930	COM11330	6	73,500	7.3	HTR14979	7/8	1/2
ZR81KCE-TFE-950	COM11331	6.75	82,000	7.3	HTR14979	7/8	3/4
ZR94KCE-TFE-950	COM11332	8	94,000	9.14	HTR14982	1-1/8	7/8
ZR108KCE-TFE-950	COM11333	9	108,900	9.14	HTR14982	1-3/8	7/8
ZR125KCE-TFE-950	COM11334	10	126,400	9.14	HTR14982	1-3/8	7/8
ZR144KCE-TFE-950	COM11335	12	142,000	9.14	HTR14982	1-3/8	7/8



Copeland R-410A

Table 14. PFV: 208-230V / 60 / 1

R-410A Copeland Model #	COM #	Tonnage	BTU	Shell Diameter (in.)	Crankcase Heater	Suction Diameter (in.)	Discharge Diameter (in.)
ZP20K5E-PFV-830	COM09572	1.75	20,000	5.5	HTR14968	3/4	1/2
ZP24K5E-PFV-830	COM09574	2	24,000	5.5	HTR14968	3/4	1/2
ZP31K5E-PFV-830	COM10612	2.5	31,100	5.5	HTR14968	3/4	1/2
ZP34K5E-PFV-830	COM09580	2.75	34,500	6.5	HTR14972	7/8	1/2
ZP38K5E-PFV-830	COM11573	3	37,500	6.5	HTR14972	7/8	1/2
ZP42K5E-PFV-830	COM11574	3.5	42,000	6.5	HTR14972	7/8	1/2
ZP49K5E-PFV-830	COM11575	4	49,400	6.5	HTR14972	7/8	1/2
ZP54K5E-PFV-830	COM10609	4.5	54,000	6.5	HTR14972	7/8	1/2
ZP57K5E-PFV-830	COM10722	4.75	57,000	6.5	HTR14972	7/8	1/2
ZP61K5E-PFV-830	COM11477	5	61,500	6.5	HTR14972	7/8	1/2

Table 15. TF5: 200-230V / 60 / 3

R-410A Copeland Model #	COM #	Tonnage	BTU	Shell Diameter (in.)	Crankcase Heater	Suction Diameter (in.)	Discharge Diameter (in.)	Suction Rotolock Thread Size	Discharge Rotolock Thread Size
ZP20K5E-TF5-830	COM10624	1.75	20,000	5.5	HTR14969	3/4	1/2	—	—
ZP24K5E-TF5-830	COM11475	2	24,000	5.5	HTR14969	3/4	1/2	—	—
ZP31K5E-TF5-830	COM10618	2.5	31,100	5.5	HTR14969	3/4	1/2	—	—
ZP34K5E-TF5-830	COM09581	2.75	34,500	6.5	HTR14973	7/8	1/2	—	—
ZP38K5E-TF5-830	COM11577	3	37,500	6.5	HTR14973	7/8	1/2	—	—
ZP42K5E-TF5-830	COM11578	3.5	42,000	6.5	HTR14973	7/8	1/2	—	—
ZP49K5E-TF5-830	COM11579	4	49,400	6.5	HTR14973	7/8	1/2	—	—
ZP54K5E-TF5-830	COM10603	4.5	54,000	6.5	HTR14973	7/8	1/2	—	—
ZP57K5E-TF5-830	COM10723	4.75	57,000	6.5	HTR14973	7/8	1/2	—	—
ZP61K5E-TF5-830	COM11478	5	61,500	6.5	HTR14973	7/8	1/2	—	—
ZP72KCE-TF5-950	COM11580	6	72,000	7.3	HTR14977	7/8	1/2	—	—
ZP83KCE-TF5-950	COM09081	7	83,000	7.3	HTR14977	7/8	1/2	—	—
ZP90KCE-TF5-950	COM11581	8	90,500	9.14	HTR14980	1-1/8	7/8	—	—
ZP103KCE-TF5-950	COM08840	9	105,000	9.14	HTR14980	1-3/8	7/8	—	—
ZP120KCE-TF5-950	COM08831	10	123,000	9.14	HTR14980	1-3/8	7/8	—	—
ZP137KCE-TF5-950	COM08849	11	135,000	9.14	HTR14980	1-3/8	7/8	—	—
ZP154KCE-TE5-950	COM11801	13	155,000	9.14	HTR14980	1-3/8	7/8	—	—
ZP182KCE-TE5-950	COM11480	15	183,000	9.14	HTR14980	1-3/8	7/8	—	—
ZP235KCE-TEC-951	COM11481	20	235,000	11.38	HTR14984	1-5/8	1-3/8	—	—
ZP285KCE-TEC-951	COM11587	24	278,000	13.03	HTR14986	2-1/8	1-3/8	—	—
ZP295KCE-TEC-951	COM11588	25	294,000	13.03	HTR14986	1-5/8	1-3/8	—	—
ZP385KCE-TEC-966	COM10882	32	385,000	13.03	HTR14986	—	—	2.25"-12	1.75"-12



Copeland R-410A

Table 16. TFD: 460V / 60 / 3

R-410A Copeland Model #	COM #	Tonnage	BTU	Shell Diameter (in.)	Crankcase Heater	Suction Diameter (in.)	Discharge Diameter (in.)	Suction Rotolock Thread Size	Discharge Rotolock Thread Size
ZP20K5E-TFD-830	COM10617	1.75	20,000	5.5	HTR14970	3/4	1/2	—	—
ZP24K5E-TFD-830	COM11476	2	24,000	5.5	HTR14970	3/4	1/2	—	—
ZP31K5E-TFD-830	COM10633	2.5	31,100	5.5	HTR14970	3/4	1/2	—	—
ZP34K5E-TFD-830	COM09582	2.75	34,500	6.5	HTR14974	7/8	1/2	—	—
ZP38K5E-TFD-830	COM11582	3	37,500	6.5	HTR14974	7/8	1/2	—	—
ZP42K5E-TFD-830	COM11583	3.5	42,000	6.5	HTR14974	7/8	1/2	—	—
ZP49K5E-TFD-830	COM11584	4	49,400	6.5	HTR14974	7/8	1/2	—	—
ZP54K5E-TFD-830	COM10610	4.5	54,000	6.5	HTR14974	7/8	1/2	—	—
ZP57K5E-TFD-930	COM10595	4.75	57,000	6.5	HTR14974	7/8	1/2	—	—
ZP61K5E-TFD-930	COM11479	5	61,500	6.5	HTR14974	7/8	1/2	—	—
ZP72KCE-TFD-950	COM11585	6	72,000	7.3	HTR14978	7/8	1/2	—	—
ZP83KCE-TFD-950	COM09082	7	83,000	7.3	HTR14978	7/8	1/2	—	—
ZP90KCE-TFD-950	COM08991	8	90,500	9.14	HTR14981	1-1/8	7/8	—	—
ZP103KCE-TFD-950	COM08841	9	105,000	9.14	HTR14981	1-3/8	7/8	—	—
ZP120KCE-TFD-950	COM08844	10	123,000	9.14	HTR14981	1-3/8	7/8	—	—
ZP137KCE-TFD-950	COM08850	11	135,000	9.14	HTR14981	1-3/8	7/8	—	—
ZP154KCE-TED-950	COM11804	13	155,000	9.14	HTR14981	1-3/8	7/8	—	—
ZP182KCE-TED-965	COM11482	15	183,000	9.14	HTR14981	—	—	1.75"-12	1.25"-12
ZP235KCE-TED-951	COM11589	20	235,000	11.38	HTR14985	1-5/8	1-3/8	—	—
ZP285KCE-TED-951	COM11590	24	278,000	13.03	HTR14987	2-1/8	1-3/8	—	—
ZP295KCE-TED-951	COM11591	25	294,000	13.03	HTR14987	1-5/8	1-3/8	—	—
ZP385KCE-TED-966	COM11538	32	385,000	13.03	HTR14987	—	—	2.25"-12	1.75"-12

Table 17. TFE: 575V / 60 / 3

R-410A Copeland Model #	COM #	Tonnage (in.)	BTU	Shell Diameter (in.)	Crankcase Heater	Suction Diameter (in.)	Discharge Diameter (in.)
ZP31K5E-TFE-830	COM10638	2.5	31,100	5.5	HTR14971	3/4	1/2
ZP54K5E-TFE-830	COM10625	4.5	54,000	6.5	HTR14975	7/8	1/2
ZP57K5E-TFE-830	COM10620	4.75	57,000	6.5	HTR14975	7/8	1/2
ZP83KCE-TFE-950	COM09083	7	83,000	7.3	HTR14979	7/8	1/2
ZP103KCE-TFE-950	COM08842	9	105,000	9.14	HTR14982	1-3/8	7/8
ZP120KCE-TFE-950	COM08833	10	123,000	9.14	HTR14982	1-3/8	7/8
ZP137KCE-TFE-950	COM08851	11	135,000	9.14	HTR14982	1-3/8	7/8
ZP154KCE-TEE-950	COM11807	13	155,000	9.14	HTR14982	1-3/8	7/8



Copeland Accessories

Rotolocks

Table 18. Stub Tube Compressor to Rotolock

Mne	
KIT16852	KIT; STUB TUBE COMPRESSOR TO ROTOLOCK; 3/8-in. STUB TUBE SIZE; 1.00-14 ROTOLOCK THREAD SIZE
KIT16853	KIT; STUB TUBE COMPRESSOR TO ROTOLOCK; 1/2-in. STUB TUBE SIZE; 1.00-14 ROTOLOCK THREAD SIZE
KIT16854	KIT; STUB TUBE COMPRESSOR TO ROTOLOCK; 5/8-in. STUB TUBE SIZE; 1.00-14 ROTOLOCK THREAD SIZE
KIT16855	KIT; STUB TUBE COMPRESSOR TO ROTOLOCK; 3/4-in. STUB TUBE SIZE; 1.25-12 ROTOLOCK THREAD SIZE
KIT16856	KIT; STUB TUBE COMPRESSOR TO ROTOLOCK; 7/8-in. STUB TUBE SIZE; 1.25-12 ROTOLOCK THREAD SIZE
KIT16857	KIT; STUB TUBE COMPRESSOR TO ROTOLOCK; 1-1/8-in. STUB TUBE SIZE; 1.75-12 ROTOLOCK THREAD SIZE
KIT16858	KIT; STUB TUBE COMPRESSOR TO ROTOLOCK; 1-3/8-in. STUB TUBE SIZE; 1.75-12 ROTOLOCK THREAD SIZE
KIT16859	KIT; STUB TUBE COMPRESSOR TO ROTOLOCK; 1-5/8-in. STUB TUBE SIZE; 2.25-12 ROTOLOCK THREAD SIZE

Table 19. Rotolock Compressor to Stub Tube

Mne	
KIT01159	KIT; ROTOLOCK COMPRESSOR TO BRAZED; 1.00-14 THREAD SIZE ; 1/2-in. TUBE SIZE
KIT01161	KIT; ROTOLOCK COMPRESSOR TO BRAZED; 1.00-14 THREAD SIZE ; 5/8-in. TUBE SIZE
KIT01164	KIT; ROTOLOCK COMPRESSOR TO BRAZED; 1.25-12 THREAD SIZE ; 3/4-in. TUBE SIZE
KIT01165	KIT; ROTOLOCK COMPRESSOR TO BRAZED; 1.25-12 THREAD SIZE ; 7/8-in. TUBE SIZE
KIT16848	KIT; ROTOLOCK COMPRESSOR TO BRAZED; 1.25-12 THREAD SIZE ; 1-1/8-in. TUBE SIZE
KIT01170	KIT; ROTOLOCK COMPRESSOR TO BRAZED; 1.75-12 THREAD SIZE ; 1-1/8-in. TUBE SIZE
KIT16849	KIT; ROTOLOCK COMPRESSOR TO BRAZED; 1.75-12 THREAD SIZE ; 1-3/8-in. TUBE SIZE
KIT16850	KIT; ROTOLOCK COMPRESSOR TO BRAZED; 2.25-12 THREAD SIZE ; 1-3/8-in. TUBE SIZE
KIT16851	KIT; ROTOLOCK COMPRESSOR TO BRAZED; 2.25-12 THREAD SIZE ; 1-5/8-in. TUBE SIZE

Oil

OIL00196	POE Oil
OIL00094	POE Oil
OIL00027	Mineral Oil



Copeland Accessories

Crank Case Heaters

Volts	Mne	Watts	Compressor Shell Diameter (in.)	Lead Length (in.)	Copeland Models
120 V	HTR14968	40W	5.5	48	ZR16K5E - ZR32K5E ZP14K5E - ZP31K5E
	HTR14972		6.5		ZR38K5E - ZR54K5E ZP34K5E - ZP61K5E
	HTR14976	70W	7.3		ZR57K3E - ZR61K3E ZR61KCE - ZR81KCE ZP61KCE - ZP83KCE
240 V	HTR14969	40W	5.5	48	ZR16K5E - ZR32K5E ZP14K5E - ZP31K5E
	HTR14973		6.5		ZR38K5E - ZR54K5E ZP34K5E - ZP61K5E
	HTR14977	70W	7.3		ZR57K3E - ZR61K3E ZR61KCE - ZR81KCE ZP61KCE - ZP83KCE
	HTR14980	90W	9.14		ZR84KCE - ZR190KCE ZP90KCE - ZP182KCE
	HTR14984	120W	11.38	28	ZR250KCE
	HTR14986	150W	13.03		ZR300KCE - ZR380KCE ZP385KCE
480 V	HTR14970	40W	5.5	48	ZR16K5E - ZR32K5E ZP14K5E - ZP31K5E
	HTR14974		6.5		ZR38K5E - ZR54K5E ZP34K5E - ZP61K5E
	HTR14978	70W	7.3		ZR57K3E - ZR61K3E ZR61KCE - ZR81KCE ZP61KCE - ZP83KCE
	HTR14981	90W	9.14		ZR84KCE - ZR190KCE ZP90KCE - ZP182KCE
	HTR14983	70W	11.14	28	ZR11M3E - ZR19M3E
	HTR14985	120W	11.38		ZR250KCE
	HTR14987	150W	13.03		ZR300KCE - ZR380KCE ZP385KCE
575 V	HTR14971	40W	5.5	48	ZR16K5E - ZR32K5E ZP14K5E - ZP31K5E
	HTR14975		6.5		ZR38K5E - ZR54K5E ZP34K5E - ZP61K5E
	HTR14979	70W	7.3		ZR57K3E - ZR61K3E ZR61KCE - ZR81KCE ZP61KCE - ZP83KCE
	HTR14982	90W	9.14		ZR84KCE - ZR190KCE ZP90KCE - ZP182KCE



Danfoss Model Number Nomenclature

Digit 1, 2 — Refrigerant and Lubricant

SM = R-22, Mineral oil

Digit 3, 4, 5 — Nominal Capacity

115 = Nominal Capacity in thousand Btu/h at 60 Hz, ARI conditions

Digit 6

S

Digit 7 — Motor Voltage Code

3 = 200-230V/3~/60Hz

4 = 380-400V/3~/50HZ and 460V/3 /60Hz

Digit 8 — Motor Protection Module

Version	Motor protection module	Connection	Applies to
V	Internal overload protector	brazed	090
C	Internal thermostat, external protector needed		115, 125, 160, 175, 185
Q			

Digit 9 — Evolution Index

C



Danfoss R-22 scrolls

Voltage	Danfoss Part #	COM #	Tonnage	BTU	Shell Diameter (in.)	Suction Diameter (in.)	Discharge Diameter (in.)	Suction Rotolock (in.)	Discharge Rotolock (in.)	Baseplate Footprint (in. × in.)
230-3	SM090-3VI	COM10205	7.5	90,000	10	1-1/8	3/4	—	—	8.66 × 8.66
	SM100-3VI	COM11158	8	94,000	10	1-1/8	3/4	—	—	8.66 × 8.66
	SM110-3VI	COM11159	9	107,800	10	1-3/8	7/8	—	—	8.66 × 8.66
	SM115-3QAI	COM08952	9	115,215	10	1-3/8	7/8	—	—	8.5 × 12
	SM120-3VI	COM11160	10	125,300	10	1-3/8	7/8	—	—	8.66 × 8.66
	SM125-3QAI	COM08954	10	126,423	10	1-3/8	7/8	—	—	8.5 × 12
	SM160-3CBI	COM09320	12.5	163,008	10.5	1-5/8	1-1/8	—	—	8.5 × 12
	SM175-3QAI	COM08956	14	174,355	12.5	1-5/8	1-1/8	—	—	11 × 12
	SM185-3QAI	COM08958	15	185,474	12.5	1-5/8	1-1/8	—	—	11 × 12
460-3	SM084-4VI	COM11161	7	84,000	10	1-1/8	3/4	—	—	8.66 × 8.66
	SM090S4VC	COM09276	7.5	90,000	10	1-1/8	3/4	—	—	8.66 × 8.66
	SM100-4VI	COM11162	8	94,000	10	1-1/8	3/4	—	—	8.66 × 8.66
	SM110-4VI	COM11163	9	107,800	10	1-3/8	7/8	—	—	8.66 × 8.66
	SM115-4QAI	COM08953	9	115,215	10	1-3/8	7/8	—	—	8.5 × 12
	SM115-4RI	COM09831	9	115,215	10	—	—	1-3/4	1-1/4	8.5 × 12
	SM120-4VI	COM11164	10	125,300	10	1-3/8	7/8	—	—	8.66 × 8.66
	SM125-4QAI	COM08955	10	126,423	10	1-3/8	7/8	—	—	8.5 × 12
	SM160-4CBI	COM09639	12.5	163,008	10.5	1-5/8	1-1/8	—	—	8.5 × 12
	SM160-4RAI	COM09356	12.5	163,008	10.5	—	—	2-1/4	1-3/4	8.5 × 12
	SM175-4QAI	COM08957	14	174,355	12.5	1-5/8	1-1/8	—	—	11 × 12
	SM185-4QAI	COM08959	15	185,474	12.5	1-5/8	1-1/8	—	—	11 × 12
	SM185S4RC	COM10016	15	185,474	12.5	—	—	2-1/4	1-3/4	11 × 12



Notes

Trane - by Trane Technologies (NYSE: TT), a global innovator - creates comfortable, energy efficient indoor environments for commercial and residential applications. For more information, please visit trane.com or tranetechnologies.com.

Trane has a policy of continuous product and product data improvements and reserves the right to change design and specifications without notice. We are committed to using environmentally conscious print practices.