



Reference Guide

Scroll Compressor Cross Reference Guide





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Cross Reference: Trane-SF-Danfoss-Copeland

***SF Compressors available April 2016**

Voltage	Tonnage	Trane OEM COM #	*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		

Voltage	Tonnage	Trane OEM COM #	*SF COM #	Danfoss COM #	Copeland COM #s		
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		

Voltage	Tonnage	Trane OEM COM #	*SF COM #	Danfoss COM #	Copeland COM #s		
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					



Cross Reference: Alliance-Copeland: R22 Scroll Compressors

208-230Volt 1ph R-22

Size	COM #	Alliance Description	P/N	Copeland Model	Description
2.0 TON	COM10023	2TON ROTOLOCK SCROLL	COM11165	ZR25K5E-PFV-800	2TON 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

208-230Volt 3ph R-22

Size	COM #	Alliance Description	P/N	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

460Volt 3ph R-22

Size	COM #	Alliance Description	P/N	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: R410-A Scroll Compressors

208-230Volt 1ph R-410

Size	COM #	Description	P/N	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

208-230Volt 3ph R-410

Size	COM #	Description	P/N	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

460Volt 3ph R-410

Size	COM #	Description	P/N	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

230/60/3

Capacity (Tons)	R22	R134-A, R404-A, R407-C	R410-A	R410-A
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	

460/60/3

Capacity (Tons)	R22	R134-A, R404-A, R407-C	R410-A	R410-A
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
575/60/3

Capacity (Tons)	R22	R134-A, R404-A, R407-C	R410-A	R410-A
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

***SF Compressors available April 2016**

S F C O M O 7 2 - 2 3 0 - 2 M S N O C
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

Digit 1, 2, 3, 4, 5 – SF Scroll Compressor

Digit 6, 7, 8 – Capacity
 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

Code	Refrigerant
2	R22
4	R410-A

Digit 13 – Lubricant
 M = Mineral Oil
 P = POE Oil

Digit 14 – Connection Type
 S = Stub Tube
 R = Rotolock

Digit 17 – Bill of Material

Digit 16 – Revision Level

Digit 15 –

Code	Type
N	Internal Protection
E	External Protection



SF Compressors

R22 scrolls with Mineral Oil and Stub Tube connections

***SF Compressors available April 2016**

Voltage	COM #	Model #	Tonnage	BTU	Shell Diameter	Suction Diameter	Discharge Diameter	Baseplate Footprint
230-3	SFCOM072-23020C	SFCOM072-230-2MSNOC	6	71,780	8.4"	1-1/8"	5/8"	8.5" x 8.5"
	SFCOM084-23020C	SFCOM084-230-2MSNOC	7	87,300	8.4"	1-1/8"	5/8"	8.5" x 8.5"
	SFCOM096-23020C	SFCOM096-230-2MSNOC	8	97,000	9"	1-3/8"	7/8"	8.5" x 8.5"
	SFCOM108-23020C	SFCOM108-230-2MSNOC	9	113,975	9"	1-3/8"	7/8"	8.5" x 8.5"
	SFCOM110-23020A	SFCOM110-230-2MSNOA	9	113,975	10"	1-3/8"	7/8"	8.5" x 12"
	SFCOM120-23020C	SFCOM120-230-2MSNOC	10	121,250	9"	1-3/8"	7/8"	8.5" x 8.5"
	SFCOM125-23020A	SFCOM125-230-2MSNOA	10	121,250	10"	1-3/8"	7/8"	8.5" x 12"
	SFCOM144-23020A	SFCOM144-230-2MSNOA	12.5	148,895	12.5"	1-5/8"	1-1/8"	11" x 12"
	SFCOM168-23020A	SFCOM168-230-2MSNOA	14	168,780	12.5"	1-5/8"	1-1/8"	11" x 12"
	SFCOM180-23020A	SFCOM180-230-2MSNOA	15	179,450	12.5"	1-5/8"	1-1/8"	11" x 12"

460-3	SFCOM072-46020C	SFCOM072-460-2MSNOC	6	71,780	8.4"	1-1/8"	5/8"	8.5" x 8.5"
	SFCOM084-46020C	SFCOM084-460-2MSNOC	7	87,300	8.4"	1-1/8"	5/8"	8.5" x 8.5"
	SFCOM096-46020C	SFCOM096-460-2MSNOC	8	97,000	9"	1-3/8"	7/8"	8.5" x 8.5"
	SFCOM108-46020C	SFCOM108-460-2MSNOC	9	113,975	9"	1-3/8"	7/8"	8.5" x 8.5"
	SFCOM110-46020A	SFCOM110-460-2MSNOA	9	113,975	10"	1-3/8"	7/8"	8.5" x 12"
	SFCOM120-46020C	SFCOM120-460-2MSNOC	10	121,250	9"	1-3/8"	7/8"	8.5" x 8.5"
	SFCOM125-46020A	SFCOM125-460-2MSNOA	10	121,250	10"	1-3/8"	7/8"	8.5" x 12"
	SFCOM144-46020A	SFCOM144-460-2MSNOA	12.5	148,895	12.5"	1-5/8"	1-1/8"	11" x 12"
	SFCOM168-46020A	SFCOM168-460-2MSNOA	14	168,780	12.5"	1-5/8"	1-1/8"	11" x 12"
	SFCOM180-46020A	SFCOM180-460-2MSNOA	15	179,450	12.5"	1-5/8"	1-1/8"	11" x 12"

575-3	SFCOM072-57520C	SFCOM072-575-2MSNOC	6	71,780	8.4"	1-1/8"	5/8"	8.5" x 8.5"
	SFCOM084-57520C	SFCOM084-575-2MSNOC	7	87,300	8.4"	1-1/8"	5/8"	8.5" x 8.5"
	SFCOM096-57520C	SFCOM096-575-2MSNOC	8	97,000	9"	1-3/8"	7/8"	8.5" x 8.5"
	SFCOM108-57520C	SFCOM108-575-2MSNOC	9	113,975	9"	1-3/8"	7/8"	8.5" x 8.5"
	SFCOM110-57520A	SFCOM110-575-2MSNOA	9	113,975	10"	1-3/8"	7/8"	8.5" x 12"
	SFCOM120-57520C	SFCOM120-575-2MSNOC	10	121,250	9"	1-3/8"	7/8"	8.5" x 8.5"
	SFCOM125-57520A	SFCOM125-575-2MSNOA	10	121,250	10"	1-3/8"	7/8"	8.5" x 12"
	SFCOM144-57520A	SFCOM144-575-2MSNOA	12.5	148,895	12.5"	1-5/8"	1-1/8"	11" x 12"
	SFCOM168-57520A	SFCOM168-575-2MSNOA	14	168,780	12.5"	1-5/8"	1-1/8"	11" x 12"
	SFCOM180-57520A	SFCOM180-575-2MSNOA	15	179,450	12.5"	1-5/8"	1-1/8"	11" x 12"



Copeland Model Number Nomenclature

Z R 1 2 0 K 5 E - T F D - 8 0 0
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Digit 1 – Family Series

Z = Scroll
 C = Reciprocating

Digit 2 – Refrigerant

Code	Refrigerant
P	R-410A
R	R22/R407-C

Digit 3 – Modulation (optional)

T=Even Tandum
 D= Digital

Digit 4, 5, 6 – Capacity

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 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

Digit 12 – Typical Electrical Codes

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

Digit 11 – Motor Protection

Code	Type
F	Internal Protection
W or E	External Protection

Digit 10 – Motor Types

Code	Phase
P	1
T	3

Copeland R-22

PFV: 208-230V / 60 / 1

R22 Copeland Model #	COM #	Tonnage	BTU	Shell Diam.	Crankcase Heater	Suction Diam.	Discharge Diam.	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"					





Copeland R-22

TF5: 200-230V / 60 / 3

R22 Copeland Model #	COM #	Tonnage	BTU	Shell Diameter	Crankcase Heater	Suction Diameter	Discharge Diameter	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

TFD: 460V / 60 / 3

R22 Copeland Model #	COM #	Tonnage	BTU	Shell Diameter	Crankcase Heater	Suction Diameter	Discharge Diameter	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

TFD: 460V / 60 / 3 (continued)

R22 Copeland Model #	COM #	Tonnage	BTU	Shell Diameter	Crankcase Heater	Suction Diameter	Discharge Diameter	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

TFE: 575V / 60 / 3

R22 Copeland Model #	COM #	Tonnage	BTU	Shell Diameter	Crankcase Heater	Suction Diameter	Discharge Diameter
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 R410-A

PFV: 208-230V / 60 / 1

R410-A Copeland Model #	COM #	Tonnage	BTU	Shell Diameter	Crankcase Heater	Suction Diameter	Discharge Diameter
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"

TF5: 200-230V / 60 / 3

R410-A Copeland Model #	COM #	Tonnage	BTU	Shell Diameter	Crankcase Heater	Suction Diameter	Discharge Diameter	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 R410-A

TFD: 460V / 60 / 3

R410-A Copeland Model #	COM #	Tonnage	BTU	Shell Diameter	Crankcase Heater	Suction Diameter	Discharge Diameter	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

TFE: 575V / 60 / 3

R410-A Copeland Model #	COM #	Tonnage	BTU	Shell Diameter	Crankcase Heater	Suction Diameter	Discharge Diameter
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

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

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

Crank Case Heaters

Volts	Mne	Watts	Compressor Shell Diameter	Lead Length	Copeland Models
120V	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

Copeland Accessories

Volts	Mne	Watts	Compressor Shell Diameter	Lead Length	Copeland Models
240V	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

Volts	Mne	Watts	Compressor Shell Diameter	Lead Length	Copeland Models
480V	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

Volts	Mne	Watts	Compressor Shell Diameter	Lead Length	Copeland Models
575V	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

S M
1 1 5
S 4
C C

1 2
3 4 5
6 7
8 9

Digit 1, 2 – Refrigerant and Lubricant
 SM = R-22, Mineral oil

Digit 3, 4, 5 – Nominal Capacity
 Nominal Capacity in thousand Btu/h at 60 Hz, ARI conditions

Digit 7 – Motor Voltage Code

3	200-230V/3~/60Hz
4	380-400V/3~/50HZ and 460V/3 /60Hz

Digit 8 –

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



Danfoss R-22 scrolls

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

Trane - by Trane Technologies (NYSE: TT), a global climate 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 improvement and reserves the right to change design and specifications without notice. We are committed to using environmentally conscious print practices.