



**NO:** 17-18  
**DATE:** 7/25/2018  
**TO:** EMERSON WHOLESALERS  
 -EXECUTIVES  
 -PRODUCT MANAGERS  
 -BUYERS

**SUBJECT:** ZPK5 Service Compressor and Premium Service Kits

Emerson is committed to transitioning away from HCFC refrigerants. Emerson now offers R-410A service compressors and complete premium service kits for replacing ZPK5 compressors in the field (see Figure 1). Copeland Scroll™ ZPK5 and ZPSK5 compressors are offered in an 800 bill-of-material option, including the compressor with a molded plug power harness, mounting parts, and installation instructions. The charts below provide features for ZPSK5 and ZPK5 R-410A models. To view product additional offering, features, and benefits for contractors and Wholesalers, please view the [Copeland Scroll ZPK5 R-410A compressor cross reference guide](#).

**Copeland Scroll™ Two-Stage ZPSK5 R-410A Service Compressor Specification Chart**

Model	ARI Capacity Btu/hr	MCC	RLA Amps (MCC/1.4)	LRA Amps	Run Cap (MFD/Volts)	Start Cap (MFD/Volts) (optional)	Relay P/N (optional)	Diameter In. (A)	Suction Height In. (B)	Discharge Height In. (C)	Height In. (D)	Discharge Diameter In.	Suction Diameter In.	Weight Lbs.
ZPS20K5E-PFJ	20400	14.2	10.1	54	40/370	88-106/330	040-0166-37	5.5	10.4	14.3	15.3	1/2	3/4	47
ZPS20K5E-PFV	20200	18.2	13	58.3	35/370	88-106/330	040-0166-37	5.5	10.4	14.3	15.3	1/2	3/4	47
ZPS20K5E-TF5	20200	10.1	7.2	55.4	N/A	N/A	N/A	5.5	10.4	14.3	15.3	1/2	3/4	47
ZPS20K5E-TFD	20200	5.4	3.9	28	N/A	N/A	N/A	5.5	10.4	14.3	15.3	1/2	3/4	47
ZPS21K5E-PFV	21300	17.3	12.4	58.3	35/370	88-106/330	040-0166-37	5.5	10.4	14.3	15.3	1/2	3/4	47

Model	ARI Capacity Btu/hr	MCC	RLA Amps (MCC/1.4)	LRA Amps	Run Cap (MFD/Volts)	Start Cap (MFD/Volts) (optional)	Relay P/N (optional)	Diameter In. (A)	Suction Height In. (B)	Discharge Height In. (C)	Height In. (D)	Discharge Diameter In.	Suction Diameter In.	Weight Lbs.
ZPS26K5E-PFJ	26500	15.9	11.4	60	40/370	88-106/330	040-0166-37	5.5	10.4	14.3	15.3	1/2	3/4	47
ZPS26K5E-PFV	26400	20.4	14.6	73	40/370	88-106/330	040-0166-37	5.5	10.4	14.3	15.3	1/2	3/4	47
ZPS26K5E-TF5	26100	13.5	9.6	58	N/A	N/A	N/A	5.5	10.4	14.3	15.3	1/2	3/4	47
ZPS26K5E-TFD	26100	6.7	4.8	28	N/A	N/A	N/A	5.5	10.4	14.3	15.3	1/2	3/4	47
ZPS26K5E-TFE	26100	5.4	3.9	24	N/A	N/A	N/A	5.5	10.4	14.3	15.3	1/2	3/4	47
ZPS30K5E-PFJ	30900	20.3	14.5	72	60/370	88-106/330	040-0166-37	5.5	10.4	14.3	15.3	1/2	3/4	50
ZPS30K5E-PFV	30600	24.4	17.4	83	40/370	88-106/330	040-0166-37	5.5	10.4	14.3	15.3	1/2	3/4	50
ZPS30K5E-TF5	30600	18.1	12.9	73	N/A	N/A	N/A	5.5	10.4	14.3	15.3	1/2	3/4	50
ZPS30K5E-TFD	30600	8.9	6.4	38	N/A	N/A	N/A	5.5	10.4	14.3	15.3	1/2	3/4	50
ZPS30K5E-TFE	30700	6.2	4.4	25.6	N/A	N/A	N/A	5.5	10.4	14.3	15.3	1/2	3/4	50
ZPS31K5E-PFV	31500	25.1	17.9	83	40/370	88-106/330	040-0166-37	5.5	10.4	14.3	15.3	1/2	3/4	50
ZPS35K5E-PFV	36800	28	20	96	45/370	88-106/330	040-0166-37	6.5	11.6	15.4	16.5	1/2	7/8	73
ZPS35K5E-TF5	36900	22.1	15.8	88	N/A	N/A	N/A	6.5	11.6	15.4	16.5	1/2	7/8	73
ZPS35K5E-TFD	36800	9.7	6.9	44	N/A	N/A	N/A	6.5	11.6	15.4	16.5	1/2	7/8	73

Model	ARI Capacity Btu/hr	MCC	RLA Amps (MCC/1.4)	LRA Amps	Run Cap (MFD/Volts)	Start Cap (MFD/Volts) (optional)	Relay P/N (optional)	Diameter In. (A)	Suction Height In. (B)	Discharge Height In. (C)	Height In. (D)	Discharge Diameter In.	Suction Diameter In.	Weight Lbs.
ZPS40K5E-PFJ	41200	25	17.9	109.7	80/370	88-106/330	040-0166-37	6.5	11.6	15.4	16.5	1/2	7/8	73
ZPS40K5E-PFV	41200	33	23.6	104	30/370	88-106/330	040-0166-02	6.5	11.6	15.4	16.5	1/2	7/8	73
ZPS40K5E-TF5	41200	21.9	15.6	83.1	N/A	N/A	N/A	6.5	11.6	15.4	16.5	1/2	7/8	67
ZPS40K5E-TFD	41200	10	7.1	41	N/A	N/A	N/A	6.5	11.6	15.4	16.5	1/2	7/8	67
ZPS40K5E-TFE	41200	7.1	5.1	33	N/A	N/A	N/A	6.5	11.6	15.4	16.5	1/2	7/8	67
ZPS49K5E-PFV	49100	42	30	152.9	40/440	88-106/330	040-0166-02	6.5	11.6	15.4	16.5	1/2	7/8	77
ZPS49K5E-TF5	49300	25.3	18.1	110	N/A	N/A	N/A	6.5	11.6	15.4	16.5	1/2	7/8	73
ZPS49K5E-TFD	49300	11.9	8.5	52	N/A	N/A	N/A	6.5	11.6	15.4	16.5	1/2	7/8	73
ZPS49K5E-TFE	49300	8.3	5.9	38.9	N/A	N/A	N/A	6.5	11.6	15.4	16.5	1/2	7/8	73
ZPS51K5E-PFJ	51900	35	25	130	80/440	88-106/330	040-0166-37	6.5	11.6	15.4	16.5	1/2	7/8	77
ZPS51K5E-PFV	52000	42	30	152.9	40/440	88-106/330	040-0166-02	6.5	11.6	15.4	16.5	1/2	7/8	77
ZPS51K5E-TF5	52100	25.8	18.4	110	N/A	N/A	N/A	6.5	11.6	15.4	16.5	1/2	7/8	77
ZPS51K5E-TFD	52100	11.3	8.1	52	N/A	N/A	N/A	6.5	11.6	15.4	16.5	1/2	7/8	72
ZPS51K5E-TFE	52100	8.6	6.1	38.9	N/A	N/A	N/A	6.5	11.6	15.4	16.5	1/2	7/8	72

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Model	ARI Capacity Btu/hr	MCC	RLA Amps (MCC/1.4)	LRA Amps	Run Cap (MFD/Volts)	Start Cap (MFD/Volts) (optional)	Relay P/N (optional)	Diameter In. (A)	Suction Height In. (B)	Discharge Height In. (C)	Height In. (D)	Discharge Diameter In.	Suction Diameter In.	Weight Lbs.
ZPS60K5E-PFV	60900	46.3	33.1	179.2	40/440	43-52/330	040-0166-02	6.5	11.6	16	17	1/2	7/8	96
ZPS60K5E-TF5	61000	27.4	19.6	136	N/A	N/A	N/A	6.5	11.6	16	17	1/2	7/8	79
ZPS60K5E-TFD	60900	13.2	9.4	66.1	N/A	N/A	N/A	6.5	11.6	16	17	1/2	7/8	79
ZPS60K5E-TFE	61000	9.9	7.1	55.3	N/A	N/A	N/A	6.5	11.6	16	17	1/2	7/8	79

Parts	ZPS20-31K5E	ZPS35-60K5E	Description
Mounting kit	527-0044-15	527-0116-00	Mounting Grommets
Molded plug control harness (2-pin)	529-0138-01		53" Leads with Molex plug
Molded plug power harness (3-pin)	529-0370-00		42" -#10AWG Leads, L1/C-Black, L2/S-Charcoal gray, L2/R-Light gray

### Copeland Scroll™ ZPK5 R-410A Service Compressor Specification Chart

Model	ARI Capacity Btu/hr	MCC	RLA Amps (MCC/1.4)	LRA Amps	Run Cap (MFD/Volts)	Start Cap (MFD/Volts) (optional)	Relay P/N (optional)	Diameter In. (A)	Suction Height In. (B)	Discharge Height In. C	Height In. (D)	Suction Diameter In.	Weight Lbs.
ZP14K5E-PFV	14650	14	10	46	30/370	88-106/330	040-0166-07	5.5	10.3	14.2	15.3	3/4	50
ZP16K5E-PFJ	15500	11	7.9	43	35/370	88-106/330	040-0166-37	5.5	10.3	14.2	15.3	3/4	49
ZP16K5E-PFV	15500	14	10	48	30/370	88-106/330	040-0166-37	5.5	10.3	14.2	15.3	3/4	47
ZP20K5E-PFJ	20000	14	10	54	40/370	88-106/330	040-0166-37	5.5	10.3	14.2	15.3	3/4	49
ZP20K5E-PFV	20000	21	15	58.3	35/370	88-106/330	040-0166-37	5.5	10.3	14.2	15.3	3/4	47
ZP20K5E-TF5	20000	11	7.9	55.4	N/A	N/A	N/A	5.5	10.3	14.2	15.3	3/4	48
ZP20K5E-TFD	20000	5.5	3.9	28	N/A	N/A	N/A	5.5	10.3	14.2	15.3	3/4	48
ZP20K5E-TFE	20000	4.6	3.3	24.5	N/A	N/A	N/A	5.5	10.3	14.2	15.3	3/4	48
ZP21K5E-PFJ	21300	15	10.7	54	40/370	88-106/330	040-0166-37	5.5	10.3	14.2	15.3	3/4	49
ZP21K5E-PFV	21300	20	14.3	58.3	40/370	88-106/330	040-0166-37	5.5	10.3	14.2	15.3	3/4	47
ZP21K5E-TF5	21000	12	8.6	55.4	N/A	N/A	N/A	5.5	10.3	14.2	15.3	3/4	48

Model	ARI Capacity Btu/hr	MCC	RLA Amps (MCC/1.4)	LRA Amps	Run Cap (MFD/Volts)	Start Cap (MFD/Volts) (optional)	Relay P/N (optional)	Diameter In. (A)	Suction Height In. (B)	Discharge Height In. C	Height In. (D)	Suction Diameter In.	Weight Lbs.
ZP21K5E-TFD	21300	5.6	4	28	N/A	N/A	N/A	5.5	10.3	14.2	15.3	3/4	48
ZP21K5E-TFE	21300	4.6	3.3	24.5	N/A	N/A	N/A	5.5	10.3	14.2	15.3	3/4	48
ZP24K5E-PFJ	24000	17	12.1	60	40/370	88-106/330	040-0166-37	5.5	10.3	14.2	15.3	3/4	49
ZP24K5E-PFV	24000	20	14.3	64	40/370	88-106/330	040-0166-37	5.5	10.3	14.2	15.3	3/4	48
ZP24K5E-TF5	24000	13	9.3	58	N/A	N/A	N/A	5.5	10.3	14.2	15.3	3/4	47
ZP24K5E-TFD	24000	8	5.7	28	N/A	N/A	N/A	5.5	10.3	14.2	15.3	3/4	47
ZP24K5E-TFE	24000	5.2	3.7	23.7	N/A	N/A	N/A	5.5	10.3	14.2	15.3	3/4	47
ZP25K5E-PFJ	25200	17.5	12.5	60	40/370	88-106/330	040-0166-37	5.5	10.3	14.2	15.3	3/4	50
ZP25K5E-PFV	25200	22	15.7	73	40/370	88-106/330	040-0166-37	5.5	10.3	14.2	15.3	3/4	48
ZP25K5E-TF5	25200	13.9	9.9	58	N/A	N/A	N/A	5.5	10.3	14.2	15.3	3/4	47
ZP25K5E-TFD	25200	6.5	4.6	28	N/A	N/A	N/A	5.5	10.3	14.2	15.3	3/4	47
ZP25K5E-TFE	25200	5.5	3.9	24	N/A	N/A	N/A	5.5	10.3	14.2	15.3	3/4	47
ZP28K5E-PFV	27900	25	17.9	77	45/370	88-106/330	040-0166-37	5.5	10.3	14.2	15.3	3/4	50
ZP28K5E-TF5	27900	15.6	11.1	71	N/A	N/A	N/A	5.5	10.3	14.2	15.3	3/4	48

Model	ARI Capacity Btu/hr	MCC	RLA Amps (MCC/1.4)	LRA Amps	Run Cap (MFD/Volts)	Start Cap (MFD/Volts) (optional)	Relay P/N (optional)	Diameter In. (A)	Suction Height In. (B)	Discharge Height In. C	Height In. (D)	Suction Diameter In.	Weight Lbs.
ZP28K5E-TFD	27700	7.4	5.3	38	N/A	N/A	N/A	5.5	10.3	14.2	15.3	3/4	49
ZP28K5E-TFE	27700	5.8	4.1	28	N/A	N/A	N/A	5.5	10.3	14.2	15.3	3/4	48
ZP29K5E-PFJ	29000	19	13.6	72	60/370	88-106/330	040-0166-37	5.5	10.3	14.2	15.3	3/4	49
ZP29K5E-PFV	29000	22	15.7	77	45/370	88-106/330	040-0166-37	5.5	10.3	14.2	15.3	3/4	50
ZP34K5E-PFV	34500	28	20	112	45/370	88-106/330	040-0166-37	6.5	11.4	15.4	16.5	7/8	71
ZP34K5E-TF5	34600	20.6	14.7	88	N/A	N/A	N/A	6.5	11.4	15.4	16.5	7/8	64
ZP34K5E-TFD	34600	9.3	6.6	44	N/A	N/A	N/A	6.5	11.4	15.4	16.5	7/8	64
ZP34K5E-TFE	34600	6.5	4.6	30	N/A	N/A	N/A	6.5	11.4	15.4	16.5	7/8	64
ZP36K5E-PFJ	36000	25	17.9	87	60/370	88-106/330	040-0166-07	6.5	11.4	15.4	16.5	7/8	72
ZP36K5E-PFV	36000	28	20	112	45/370	88-106/330	040-0166-37	6.5	11.4	15.4	16.5	7/8	71
ZP36K5E-TF5	36000	21.1	15.1	88	N/A	N/A	N/A	6.5	11.4	15.4	16.5	7/8	64
ZP36K5E-TFD	36000	9.3	6.6	44	N/A	N/A	N/A	6.5	11.4	15.4	16.5	7/8	64
ZP36K5E-TFE	36000	7.7	5.5	34	N/A	N/A	N/A	6.5	11.4	15.4	16.5	7/8	64
ZP38K5E-PFV	37500	31	22.1	109	45/370	88-106/330	040-0166-37	6.5	11.4	15.4	16.5	7/8	72

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Model	ARI Capacity Btu/hr	MCC	RLA Amps (MCC/1.4)	LRA Amps	Run Cap (MFD/Volts)	Start Cap (MFD/Volts) (optional)	Relay P/N (optional)	Diameter In. (A)	Suction Height In. (B)	Discharge Height In. C	Height In. (D)	Suction Diameter In.	Weight Lbs.
ZP38K5E-TF5	38000	21.2	15.1	83.1	N/A	N/A	N/A	6.5	11.4	15.4	16.5	7/8	67
ZP38K5E-TFD	38100	9.5	6.8	41	N/A	N/A	N/A	6.5	11.4	15.4	16.5	7/8	67
ZP38K5E-TFE	38100	6.5	4.6	33	N/A	N/A	N/A	6.5	11.4	15.4	16.5	7/8	67
ZP39K5E-PFV	39000	31	22.1	109	45/370	88-106/330	040-0166-37	6.5	11.4	15.4	16.5	7/8	72
ZP39K5E-TF5	39000	20.5	14.6	83.1	N/A	N/A	N/A	6.5	11.4	15.4	16.5	7/8	67
ZP39K5E-TF7	39000	11.9	8.5	51.8	N/A	N/A	N/A	6.5	11.4	15.4	16.5	7/8	67
ZP39K5E-TFD	39000	9.5	6.8	41	N/A	N/A	N/A	6.5	11.4	15.4	16.5	7/8	67
ZP39K5E-TFE	39000	6.8	4.9	33	N/A	N/A	N/A	6.5	11.4	15.4	16.5	7/8	67
ZP42K5E-PFJ	42000	25.4	18.1	98	80/370	88-106/330	040-0166-37	6.5	11.4	15.4	16.5	7/8	73
ZP42K5E-PFV	42000	34	24.3	117	70/370	88-106/330	040-0166-37	6.5	11.4	15.4	16.5	7/8	73
ZP42K5E-TF5	42200	21.4	15.3	83.1	N/A	N/A	N/A	6.5	11.4	15.4	16.5	7/8	67
ZP42K5E-TFD	41900	9.7	6.9	41	N/A	N/A	N/A	6.5	11.4	15.4	16.5	7/8	67
ZP42K5E-TFE	42000	7.5	5.4	33	N/A	N/A	N/A	6.5	11.4	15.4	16.5	7/8	67
ZP44K5E-PFJ	44500	29.3	20.9	114	80/370	189-227/330	040-0166-07	6.5	11.4	15.4	16.5	7/8	73



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Model	ARI Capacity Btu/hr	MCC	RLA Amps (MCC/1.4)	LRA Amps	Run Cap (MFD/Volts)	Start Cap (MFD/Volts) (optional)	Relay P/N (optional)	Diameter In. (A)	Suction Height In. (B)	Discharge Height In. C	Height In. (D)	Suction Diameter In.	Weight Lbs.
ZP44K5E-PFV	44400	33.4	23.9	135	70/370	189-227/330	040-0166-37	6.5	11.4	15.4	16.5	7/8	74
ZP44K5E-TF5	44500	22.6	16.1	98	N/A	N/A	N/A	6.5	11.4	15.4	16.5	7/8	68
ZP44K5E-TF7	44900	13.8	9.9	64	N/A	N/A	N/A	6.5	11.4	15.4	16.5	7/8	67
ZP44K5E-TFD	44500	9.9	7.1	55	N/A	N/A	N/A	6.5	11.4	15.4	16.5	7/8	68
ZP44K5E-TFE	44500	9.4	6.7	41	N/A	N/A	N/A	6.5	11.4	15.4	16.5	7/8	68
ZP49K5E-PFJ	49200	33.3	23.8	130	70/370	88-106/330	040-0166-37	6.5	11.4	15.4	16.5	7/8	76
ZP49K5E-PFV	49400	39	27.9	134	70/370	88-106/330	040-0166-37	6.5	11.4	15.4	16.5	7/8	76
ZP49K5E-TF5	49700	24.8	17.7	110	N/A	N/A	N/A	6.5	11.4	15.4	16.5	7/8	73
ZP49K5E-TF7	49600	12.4	8.9	66	N/A	N/A	N/A	6.5	11.4	15.4	16.5	7/8	72
ZP49K5E-TFD	50000	11	7.9	52	N/A	N/A	N/A	6.5	11.4	15.4	16.5	7/8	73
ZP49K5E-TFE	49700	8	5.7	39.5	N/A	N/A	N/A	6.5	11.4	15.4	16.5	7/8	73
ZP51K5E-PFJ	51200	31	22.1	130	80/440	88-106/330	040-0166-37	6.5	11.4	15.4	16.5	7/8	76
ZP51K5E-PFV	51000	41.2	29.4	134	70/370	88-106/330	040-0166-37	6.5	11.4	15.4	16.5	7/8	76
ZP51K5E-TF5	52300	24.9	17.8	110	N/A	N/A	N/A	6.5	11.4	15.4	16.5	7/8	72

	Marketing		COPELAND™
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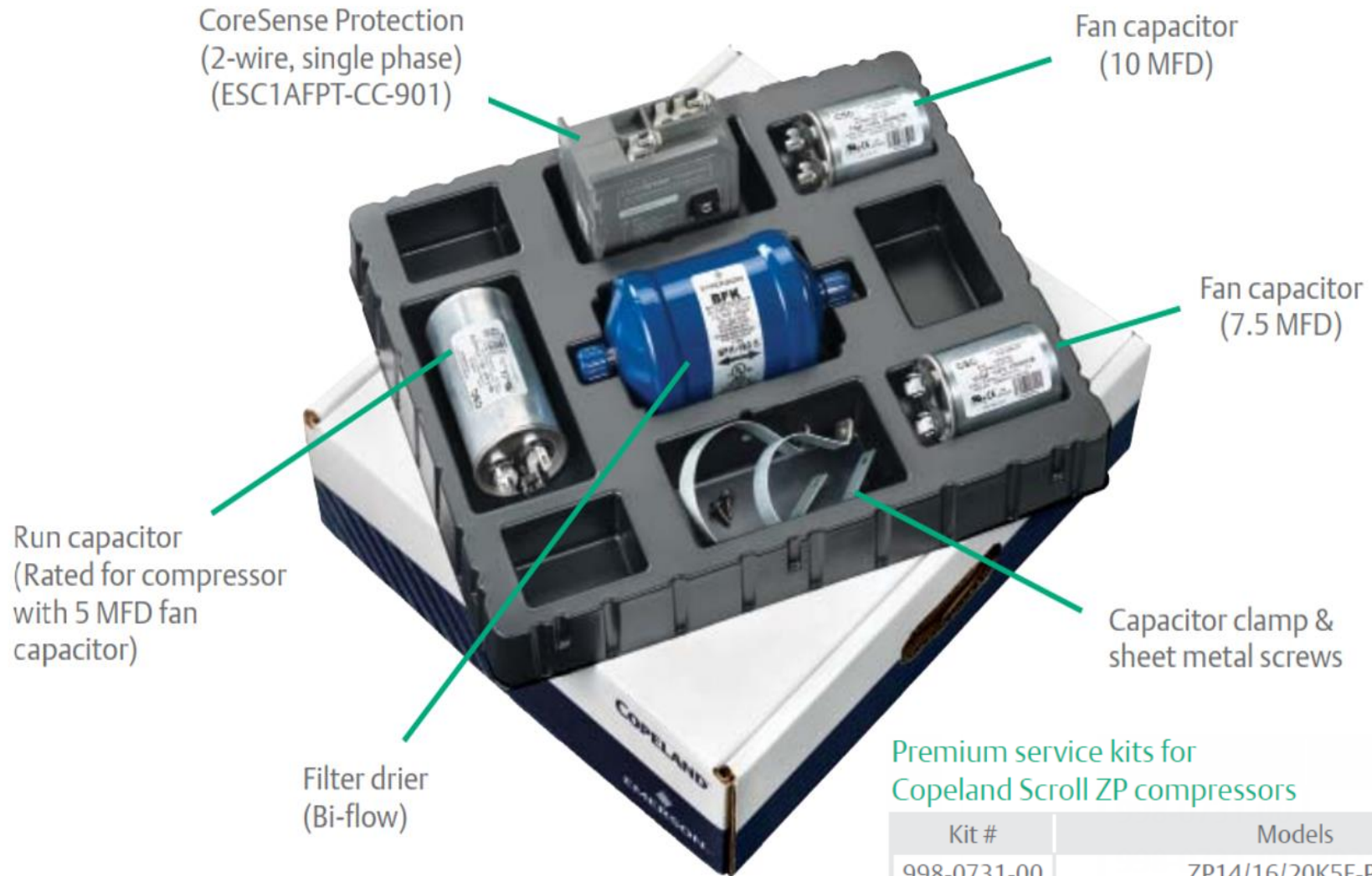
Model	ARI Capacity Btu/hr	MCC	RLA Amps (MCC/1.4)	LRA Amps	Run Cap (MFD/Volts)	Start Cap (MFD/Volts) (optional)	Relay P/N (optional)	Diameter In. (A)	Suction Height In. (B)	Discharge Height In. C	Height In. (D)	Suction Diameter In.	Weight Lbs.
ZP51K5E-TF7	52300	13.3	9.5	66	N/A	N/A	N/A	6.5	11.4	15.4	16.5	7/8	73
ZP51K5E-TFD	52300	12.1	8.6	52	N/A	N/A	N/A	6.5	11.4	15.4	16.5	7/8	72
ZP51K5E-TFE	52300	8.9	6.4	38.9	N/A	N/A	N/A	6.5	11.4	15.4	16.5	7/8	71
ZP54K5E-PFJ	54000	31	22.1	128	80/440	88-106/330	040-0166-37	6.5	11.4	15.4	16.5	7/8	76
ZP54K5E-PFV	54000	41	29.3	134	80/370	88-106/330	040-0166-37	6.5	11.4	15.4	16.5	7/8	76
ZP54K5E-TF5	54300	24.4	17.4	110	N/A	N/A	N/A	6.5	11.4	15.4	16.5	7/8	72
ZP54K5E-TF7	53400	15.8	11.3	65.6	N/A	N/A	N/A	6.5	11.4	15.4	16.5	7/8	73
ZP54K5E-TFD	54300	12.1	8.6	52	N/A	N/A	N/A	6.5	11.4	15.4	16.5	7/8	71
ZP54K5E-TFE	54000	9.1	6.5	38.9	N/A	N/A	N/A	6.5	11.4	15.4	16.5	7/8	71
ZP57K5E-PFV	57000	44.2	31.6	178	80/370	88-106/330	040-0166-37	6.5	11.4	16	17	7/8	76
ZP57K5E-TF5	57500	30	21.4	136	N/A	N/A	N/A	6.5	11.4	16	17	7/8	76
ZP57K5E-TFD	57500	13.6	9.7	66.1	N/A	N/A	N/A	6.5	11.4	16	17	7/8	76
ZP57K5E-TFE	57500	10.7	7.6	55.3	N/A	N/A	N/A	6.5	11.4	16	17	7/8	76
ZP61K5E-PFV	61500	48	34.3	178	80/370	88-106/330	040-0166-37	6.5	11.4	16	17	7/8	77

Model	ARI Capacity Btu/hr	MCC	RLA Amps (MCC/1.4)	LRA Amps	Run Cap (MFD/Volts)	Start Cap (MFD/Volts) (optional)	Relay P/N (optional)	Diameter In. (A)	Suction Height In. (B)	Discharge Height In. C	Height In. (D)	Suction Diameter In.	Weight Lbs.
ZP61K5E-TF5	61500	30.6	21.9	136	N/A	N/A	N/A	6.5	11.4	16	17	7/8	77
ZP61K5E-TFD	61500	12.8	9.1	66.1	N/A	N/A	N/A	6.5	11.4	16	17	7/8	77
ZP61K5E-TFE	61500	10.3	7.4	55.3	N/A	N/A	N/A	6.5	11.4	16	17	7/8	77

Parts	ZP14-31K5E	ZP34-61K5E	Description
Mounting kit	527-0044-15	527-0116-00	Mounting Grommets
Molded power plug harness (3-pin)	529-0370-00		42" -#10AWG Leads, L1/C-Black, L2/S-Charcoal gray, L2/R-Light gray

Contact your Distribution Services Sales Manager or Customer Service with any questions regarding this information.

**Figure 1**



CoreSense Protection  
(2-wire, single phase)  
(ESC1AFPT-CC-901)

Fan capacitor  
(10 MFD)

Fan capacitor  
(7.5 MFD)

Run capacitor  
(Rated for compressor  
with 5 MFD fan  
capacitor)

Capacitor clamp &  
sheet metal screws

Filter drier  
(Bi-flow)

Premium service kits for  
Copeland Scroll ZP compressors

Kit #	Models
998-0731-00	ZP14/16/20K5E-PFV
998-0731-01	ZP21/24/25/28/29/31/34/36/38/39K5E-PFV
998-0731-04	ZP54/57/61K5E-PFV