ملف واحد, فيه تعريف ,رموز جميع ضواغط كوبلند Copeland,Scroll, ,Hermetic, Semi hermetic

Category: شروحات ودروس

written by Jamila | 10 مايو، 2020

ملف واحد, فيه تعريف ,رموز جميع ضواغط كوبلند

Copeland,Scroll ,Hermetic, Semi hermetic,

N – Semi-Hermetic Compressors

Code Description

Code	Description
A	(Air-cooled) - Std. air cooled
R	(Refrigerant-cooled) - Std. refrig. cooled
W	(Water-cooled) - Std. water cooled

Compressor Motor Types

Phase	Description	Code
1	Capacitor run - Capacitor start	C
1	Induction run - Capacitor start	I
3	Three phase	T
3	Wye (star) delta	E
3	6 lead part winding or across the line - except 575V	F

Model Variation
A number or letter, assigned to indicate different model types within any one family series.

Product Variations
Number will be assigned as follows:
1. Number - 100 is standard compressor used in Copeland brand Condensing units.
2. Number - 200 indicates a STANDARD Compressor Parts B/M and Model No.
3. Number - 201 and larger will be assigned for all other variations of a given model.
4. Number - 800 indicates a standard replacement Compressor and Component Parts B/M and Model No. - 240 volt control.
5. Number - 801 indicates a standard replacement Compressor and Component Parts B/M and Model No. - 120 volt control.

NRD1 - 0310 - TFD - 201

Compressor Family Series
Either a number or a letter established for each product model.

Displacement
A letter only, arbitrarily assigned for each different displacement within any one family series.

Compressor Motor Rating

Nominal (HP)	Code	Nominal (HP)	Code	Nominal (HP)	Code
¾	0033	2	0200	5	0500
⅞	0050	2	0210	20	2000
¾	0051	3	0300	25	2500
¾	0075	3	0310	30	3000
1	0100	3	0311	35	3500
1½	0150	4	0400	40	4000

Compressor Motor Protection

Description	Code
External Inherent Protection - One Protector (Line Break) Use with Contactor	A
Internal Inherent Protection - One Protector (Line Break) Use with Contactor	F
Internal Thermal Protection - Electronic Sensors and Control Module External Use with Contactor	S

Electrical Code

60 Hz	50 Hz	Code
115-1	-	A
230-1	-	B
208/230-3	200/220-3	C
460-3	380/420-3	D
575-3	550-3	E
208/230/460-3	200/380/400-3	K
-	210/240/380/420-3	L
-	380/420-3	M
230/460-3	200/400-3	N
200-3	-	U
208/230-1	200/220-1	V
-	220/240-1	Z
200/220/380-3	200/380-3	8

Common Replacement Parts

Common Parts	Part Number
Sight Glass Kit	998-0002-02
Oil Pump Kit	998-0008-33
Suction Screen	013-0010-00
Terminal Fused Cluster (Fusite)	521-0018-00
Terminal Fused Seal (Fusite)	020-0844-02
Gaskets	**Part Number**
Cylinder Head	020-0954-00
Housing Cover	020-0749-00
Bottom Plate	020-0159-00
Stator Cover	020-0054-00
Terminal Plate Gasket	020-0146-00
Oil Pump Gasket	020-1204-00
Suction or Discharge Valve to Compressor Body	020-1224-00

Cooling Fan Kits	Part Number
120V w/Complete Fan Guard	998-0550-02
240V w/Complete Fan Guard	998-0550-00
460V w/Complete Fan Guard	998-0550-01
Mounting Kit w/Studs	998-0574-02
Crankcase Heater	**Part Number**
120 Volt 65 Watt	918-0009-00
240 Volt 65 Watt	918-0009-01
Sentronic 3 Kits and Parts	**Part Number**
Complete Kit	585-1076-02
Sensor and Cable Kit	998-0162-00
Sensor Only	998-0162-01
Copper Gasket for Sensor	020-0297-13
O-Ring Gasket for Sensor	020-0003-28







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Compressor Cooling

Code	Description
A	Air cooled
D	Discus
R	Refrigerant cooled
T	Std. two stage
W	Water cooled

Tandem Style Models
Indicated by the digit representing the comp. model series connected in tandem with a comp. of the model series indicated by the first digit.

Comp. Motor Rating Nominal

HP	Code	HP	Code	HP	Code
1/4	0025	2-3/4	0275	15	1500
1/3	0033	3 (0310)	0300	20	2000
1/2	0050	3-1/2	0350	25	2500
3/4	0075	4 (0406)	0400	30	3000
1	0100	5 (0506)	0500	35	3500
1-1/4	0125	6	0600	40	4000
1-1/2	0150	7-1/2 (0796)	0750	50	5000
1-3/4	0175	9	0900	60	6000
2	0200	10 (1015)	1000		
2-1/2	0250	12	1200		

May be = (-) or A

Note: Nominal horsepower rating of tandem compressors is sum of individual compressor ratings.

Compressor Motor Type

Single Phase Motors	Code
Capacitor run - Capacitor start	C
Induction run - Capacitor start	I
Induction run - Split phase	S
Induction run - Capacitor start, low torque	X
Three Phase Motors	**Code**
General	T
3 Lead single voltage	
6 Lead part winding (575 volt)	
9 Lead dual voltage	
Star (wye) delta	E
6 Lead motors	F
Part winding or across the line	

Product Variations
Numbers will be assigned as follows:
1. Numbers -001 through -199 are reserved for sub+b/m numbers.
2. Numbers -200 indicates a standard compressor and component parts b/m and model no.
3. Numbers -201 and larger will be assigned for all other variations of a given model.

2DA3 - 0750 - TFE 800

Compressor Family Series
Either a number or a letter established for each product family.

Displacement and Valve Plate
A letter only, arbitrarily assigned for each different displacement within any one family series.

Model Variation
A number or letter, assigned to indicate different model types within any family series.

May also be
"A" = (Alkylbenzene)
"E" = (POE Oil)
"L" = (Less Oil)

Compressor Motor Protection

Description	Code
External inherent protection - one protector (line break) use with contactor	A
Internal inherent protection - one protector use with contactor	F
Internal thermostat(s); and ext. supplementary protector(s) use with contactor.	H
Internal thermostat(s); and three ext. supplementary protector(s) use with contactor.	L
Internal thermal protectors - electronic sensors; and control module external. Use with contactor.	S
Internal thermal protectors - electronic sensors; and control module external. use with contactor (For European use only).	W

* When applicable, specific 50 HZ ratings (Not necessarily identical to typical shown above) will be shown as alternate on 60 HZ rated models.

Electrical Codes

60 Hz	50 Hz	Code	60 Hz	50 Hz	Code
115-1	100-1	A	-	220-1	S
230-1	200-1	B	-	200-1	T
5206-230-3	200/220-3	C	200-3	-	U
460-3	380/400-3	D	208-230-1	200-1	V
575-3	500-3	E	-	200/220-3	W
-	115-1	F	Misc. A.C. Ratings	X	
-	230-1	G	-	500-3	Y
208-1	200-1	H	-	220/240-1	Z
-	208/230-1	I	200-1	200-1	3
208/230/460-3	200/400-3	K	100-1	100-1	4
-	210/240/380-3	L	200-230-3	-	5
-	380-/420-3	M	230-3	-	6
230/460-3	200/400-3	N	380	346	7
-	200/380-3	P	200/220/380	200/345	8
-	200/240-3	R			

Representative Image



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Compressor Cooling

Code	Description
A	Air cooled
D	Discus
R	Refrigerant cooled
T	Std. two stage
W	Water cooled

Capacity Multiplier
M = 10,000
K = 1,000

May also be
"O" = (Mineral Oil)
"E" = (POE Oil)
"L" = (Less Oil)

Primary Application Range
R = ARI High Temp. Rated @ 45/130
S = ARI Med Temp. Rated @ 20/120
F = ARI Low Temp. Rated @ -25/105

Tandem Style Models
Indicated by the digit representing the comp. model series connected in tandem with a comp. of the model series indicated by the first digit.

Nominal Capacity at **Rating** Condition 2 numeric characters

Compressor Motor Type

Single Phase Motors	Code
Capacitor run - Capacitor start	C
Induction run - Capacitor start	I
Induction run - Split phase	S
Induction run - Capacitor start, low torque	X
Three Phase Motors	**Code**
General 3 Lead single voltage 6 Lead part winding (575 volt) 9 Lead dual voltage	T
Star (wye) delta 6 Lead motors Part winding or across the line	E F

Product Variations
Numbers will be assigned as follows:
1. Numbers - 001 through -199 are reserved for sub-b/m numbers.
2. Numbers - 200 indicates a standard compressor and component parts b/m and model no.
3. Numbers - 201 and larger will be assigned for all other variations of a given model.
4. Numbers -C00 and larger will be assigned for all variations with CoreSense™ Modules Installed

2DB3 F 25KE - TFC C00

Compressor Family Series
Either a number or a letter established for each product family.

Displacement and Valve Plate
A letter only, arbitrarily assigned for each different displacement within any one family series.

Model Variation
A number or letter, assigned to indicate different model types within any family series.

Compressor Motor Protection

Description	Code
External inherent protection - one protector (line break) use with contactor	A
Internal inherent protection - one protector use with contactor	F
Internal thermostat(s); and ext. supplementary protector(s) use with contactor.	H
Internal thermostat(s); and three ext. supplementary protector(s) use with contactor.	L
Internal thermal protectors - electronic sensors; and control module external. Use with contactor.	S
Internal thermal protectors - electronic sensors; and control module external. use with contactor (For European use only).	W

Electrical Codes

60 Hz	50 Hz	Code	60 Hz	50 Hz	Code
115-1	100-1	A	-	220-1	S
230-1	200-1	B	-	200-1	T
208-230-3	200/220-3	C	200-3	-	U
460-3	380/400-3	D	208-230-1	200-1	V
575-3	500-3	E	-	200/220-3	W
-	115-1	F	Misc. A.C. Ratings	X	
-	230-1	G	-	500-3	Y
208-1	200-1	H	-	220/240-1	Z
-	208/230-1	I	200-1	200-1	3
208/230/460-3	200/400-3	K	100-1	100-1	4
-	210/240/380-3	L	200-230-3	-	5
-	380-/420-3	M	230-3	-	6
230/460-3	200/400-3	N	380	346	7
-	200/380-3	P	200/220/380	200/345	8
-	200/240-3	R			



Compressors are sold less service valves and pressure controls. These must be purchased separately.

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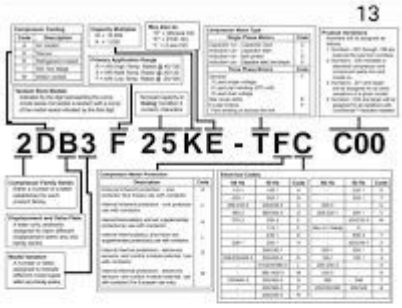



Compressors are sold less service valves and pressure controls.
These must be purchased separately.

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Compressor Cooling

Code	Description
A	Air cooled
D	Discus
R	Refrigerant cooled
T	Std. two stage
W	Water cooled

Tandem Style Models
Indicated by the digit representing the comp. model series connected in tandem with a comp. of the model series indicated by the first digit.

Comp. Motor Rating Nominal

HP	Code	HP	Code	HP	Code
1/4	0025	2-3/4	0275	15	1500
1/3	0033	3 (0310)	0300	20	2000
1/2	0050	3-1/2	0350	25	2500
3/4	0075	4 (0406)	0400	30	3000
1	0100	5 (0506)	0500	35	3500
1-1/4	0125	6	0600	40	4000
1-1/2	0150	7-1/2 (0766)	0750	50	5000
1-3/4	0175	9	0900	60	6000
2	0200	10 (1015)	1000		
2-1/2	0250	12	1200		

May be = (-) or A

Note: Nominal horsepower rating of tandem compressors is sum of individual compressor ratings.

Compressor Motor Type

Single Phase Motors	Code
Capacitor run - Capacitor start	C
Induction run - Capacitor start	I
Induction run - Split phase	S
Induction run - Capacitor start, low torque	X
Three Phase Motors	**Code**
General	T
3 Lead single voltage	
6 Lead part winding (575 volt)	
9 Lead dual voltage	
Star (wye) delta	E
6 Lead motors	F
Part winding or across the line	

Product Variations
Numbers will be assigned as follows:
1. Numbers -001 through -199 are reserved for sub+b/m numbers.
2. Numbers -200 indicates a standard compressor and component parts b/m and model no.
3. Numbers -201 and larger will be assigned for all other variations of a given model.

3ABB - 032E - CAB 800

Compressor Family Series
Either a number or a letter established for each product family.

Displacement and Valve Plate
A letter only, arbitrarily assigned for each different displacement within any one family series.

Model Variation
A number or letter, assigned to indicate different model types within any family series.

May also be
"A" = (Alkylbenzene)
"E" = (POE Oil)
"L" = (Less Oil)

Compressor Motor Protection

Description	Code
External inherent protection - one protector (line break) use with contactor	A
Internal inherent protection - one protector use with contactor	F
Internal thermostat(s); and ext. supplementary protector(s) use with contactor.	H
Internal thermostat(s); and three ext. supplementary protector(s) use with contactor.	L
Internal thermal protectors - electronic sensors; and control module external. Use with contactor.	S
Internal thermal protectors - electronic sensors; and control module external, use with contactor (For European use only).	W

* When applicable, specific 50 HZ ratings (not necessarily identical to typical shown above) will be shown as alternate on 60 HZ rated models.

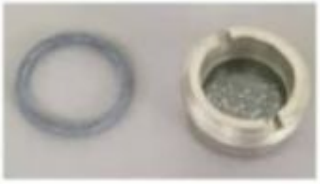
Electrical Codes

60 Hz	50 Hz	Code	60 Hz	50 Hz	Code
115-1	100-1	A	-	220-1	S
230-1	200-1	B	-	200-1	T
5206-230-3	200/220-3	C	200-3	-	U
460-3	380/400-3	D	208-230-1	200-1	V
575-3	500-3	E	-	200/220-3	W
-	115-1	F	Misc. A.C. Ratings	X	
-	230-1	G	-	500-3	Y
208-1	200-1	H	-	220/240-1	Z
-	208/230-1	I	200-1	200-1	3
208/230/460-3	200/400-3	K	100-1	100-1	4
-	210/240/380-3	L	200-230-3	-	5
-	380-/420-3	M	230-3	-	6
230/460-3	200/400-3	N	380	346	7
-	200/380-3	P	200/220/380	200/345	8
-	200/240-3	R			

Common Replacement Parts

Common Parts	Part Number
Sight Glass Kit	998-0002-04
Suction Strainer Screen	013-0010-00
Terminal Fused Cluster	521-0017-00
Terminal Fused Cluster Seal	020-0844-02
Gaskets	**Part Number**
Complete Gasket Set for 3A Compressors	998-0669-24
Complete Gasket Set for 3R Compressors	998-0669-25
Crankcase Heater	**Part Number**
Bolt on 120 Volt 65 Watt	918-0009-00
Bolt On 240 Volt 65 Watt	918-0009-01







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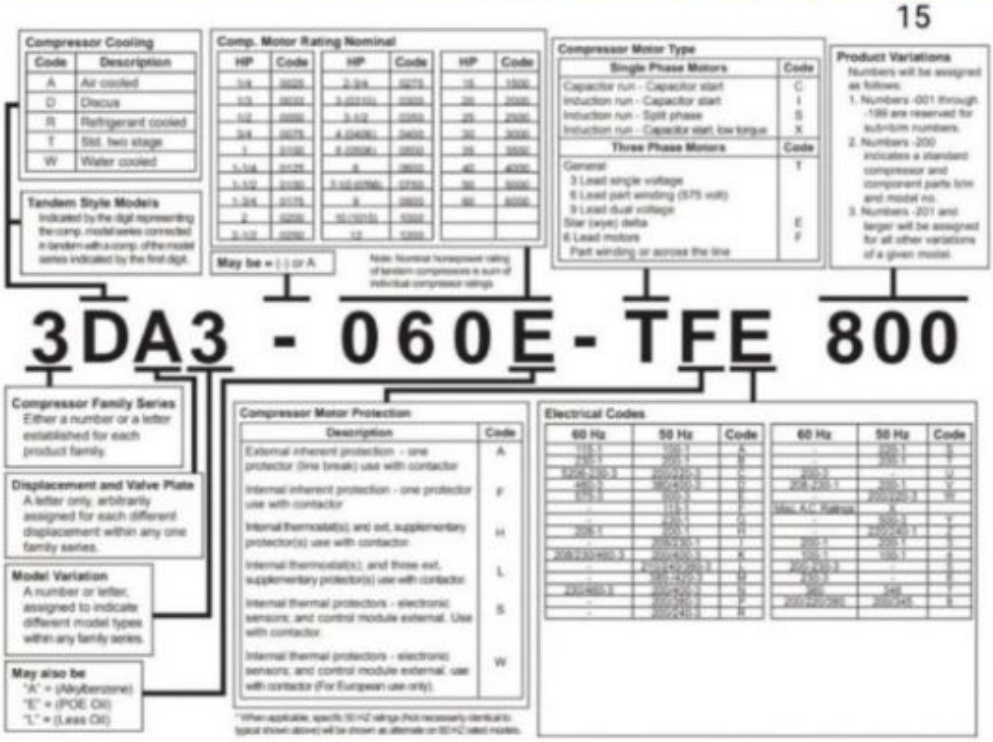

New Model Nomenclature (5th Digit = Application Rating)
R = Rating at +45°F to +130°F at 90°F Ambient Air
S = Rating at +20°F to +120°F at 90°F Ambient Air
F = Rating at -25°F to +105°F at 90° Ambient Air



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3D – Semi-Hermetic Compressors

Compressor Cooling

Code	Description
A	Air cooled
D	Discus
R	Refrigerant cooled
T	Std. two stage
W	Water cooled

Capacity Multiplier
M = 10.000
K = 1.000

May also be
"O" = (Mineral Oil)
"E" = (POE Oil)
"L" = (Less Oil)

Primary Application Range
R = ARI High Temp. Rated @ 45/130
S = ARI Med Temp. Rated @ 20/120
F = ARI Low Temp. Rated @ -25/105

Tandem Style Models
Indicated by the digit representing the comp. model series connected in tandem with a comp. of the model series indicated by the first digit.

Nominal Capacity at **Rating** Condition 2 numeric characters

Compressor Motor Type

Single Phase Motors	Code
Capacitor run - Capacitor start	C
Induction run - Capacitor start	I
Induction run - Split phase	S
Induction run - Capacitor start, low torque	X
Three Phase Motors	**Code**
General	T
3 Lead single voltage	
6 Lead part winding (575 volt)	
9 Lead dual voltage	
Star (wye) delta	E
6 Lead motors	F
Part winding or across the line	

Product Variations
Numbers will be assigned as follows:
1. Numbers - 001 through -199 are reserved for sub+b/m numbers.
2. Numbers - 200 indicates a standard compressor and component parts b/m and model no.
3. Numbers - 201 and larger will be assigned for all other variations of a given model.
4. Numbers - C00 and larger will be assigned for all variations with CoreSense™ Modules Installed

3 DK3 R 15 ME - TFC 800

Compressor Family Series
Either a number or a letter established for each product family.

Displacement and Valve Plate
A letter only, arbitrarily assigned for each different displacement within any one family series.

Model Variation
A number or letter, assigned to indicate different model types within any family series.

Compressor Motor Protection

Description	Code
External inherent protection - one protector (line break) use with contactor	A
Internal inherent protection - one protector use with contactor	F
Internal thermostat(s), and ext. supplementary protector(s) use with contactor.	H
Internal thermostat(s), and three ext. supplementary protector(s) use with contactor.	L
Internal thermal protectors - electronic sensors, and control module external. Use with contactor.	S

* When applicable, specific 50 HZ ratings (Not necessarily identical to typical shown above) will be shown as alternate on 60 HZ rated models.

Electrical Codes

60 Hz	50 Hz	Code	60 Hz	50 Hz	Code
115-1	100-1	A	-	220-1	S
230-1	200-1	B	-	200-1	T
5206-230-3	200/220-3	C	200-3	-	U
460-3	380/400-3	D	208-230-1	200-1	V
575-3	500-3	E	-	200/220-3	W
-	115-1	F	Misc A.C. Ratings	X	
-	230-1	G	-	500-3	Y
208-1	200-1	H	-	220/240-1	Z
-	208/230-1	I	200-1	200-1	3
208/230/460-3	200/400-3	K	100-1	100-1	4
-	210/240/380-3	L	200-230-3	-	5
-	380-/420-3	M	230-3	-	6
230/460-3	200/400-3	N	380	346	7
-	200/380-3	P	200/220/380	200/345	8
-	200/240-3	R			

New Model Nomenclature (5th Digit = Application Rating)
R = Rating at +45°F to +130°F at 90°F Ambient Air
S = Rating at +20°F to +120°F at 90°F Ambient Air
F = Rating at -25°F to +105°F at 90° Ambient Air



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Semi-Hermetic Compressors – 4D and 4R

Compressor Cooling

Code	Description
A	Air cooled
D	Discus
R	Refrigerant cooled
T	Std. two stage
W	Water cooled

Tandem Style Models
Indicated by the digit representing the comp. model series connected in tandem with a comp. of the model series indicated by the first digit.

Comp. Motor Rating Nominal

HP	Code	HP	Code	HP	Code
1/4	0025	2-3/4	0275	15	1500
1/3	0033	3 (0310)	0300	20	2000
1/2	0050	3-1/2	0350	25	2500
3/4	0075	4 (0406)	0400	30	3000
1	0100	5 (0506)	0500	35	3500
1-1/4	0125	6	0600	40	4000
1-1/2	0150	7-1/2 (0758)	0750	50	5000
1-3/4	0175	9	0900	60	6000
2	0200	10 (1015)	1000		
2-1/2	0250	12	1200		

May be = (-) or A

Note: Nominal horsepower rating of tandem compressors is sum of individual compressor ratings

Compressor Motor Type

Single Phase Motors	Code
Capacitor run - Capacitor start	C
Induction run - Capacitor start	I
Induction run - Split phase	S
Induction run - Capacitor start, low torque	X
Three Phase Motors	**Code**
General	T
3 Lead single voltage	
6 Lead part winding (575 volt)	
9 Lead dual voltage	
Star (wye) delta	E
6 Lead motors	F
Part winding or across the line	

Product Variations
Numbers will be assigned as follows:
1. Numbers -001 through -199 are reserved for sub+b/m numbers.
2. Numbers -200 indicates a standard compressor and component parts b/m and model no.
3. Numbers -201 and larger will be assigned for all other variations of a given model.

4DA3 - 100E - TSK 800

Compressor Family Series
Either a number or a letter established for each product family.

Displacement and Valve Plate
A letter only, arbitrarily assigned for each different displacement within any one family series.

Model Variation
A number or letter, assigned to indicate different model types within any family series.

May also be
"A" = (Alkylbenzene)
"E" = (POE Oil)
"L" = (Less Oil)

Compressor Motor Protection

Description	Code
External inherent protection - one protector (line break) use with contactor	A
Internal inherent protection - one protector use with contactor	F
Internal thermostat(s); and ext. supplementary protector(s) use with contactor.	H
Internal thermostat(s); and three ext. supplementary protector(s) use with contactor.	L
Internal thermal protectors - electronic sensors; and control module external. Use with contactor.	S
Internal thermal protectors - electronic sensors; and control module external, use with contactor (For European use only).	W

*When applicable, specific 50 HZ ratings (Not necessarily identical to typical shown above) will be shown as alternate on 60 HZ rated models.

Electrical Codes

60 Hz	50 Hz	Code	60 Hz	50 Hz	Code
115-1	100-1	A	-	220-1	S
230-1	200-1	B	-	200-1	T
5206-230-3	200/220-3	C	200-3	-	U
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575-3	500-3	E	-	200/220-3	W
-	115-1	F	Misc. A.C. Ratings	X	
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208-1	200-1	H	-	220/240-1	Z
-	208/230-1	I	200-1	200-1	3
208/230/460-3	200/400-3	K	100-1	100-1	4
-	210/240/380-3	L	200-230-3	-	5
-	380-/420-3	M	230-3	-	6
230/460-3	200/400-3	N	380	346	7
-	200/380-3	P	200/220/380	200/345	8
-	200/240-3	R			



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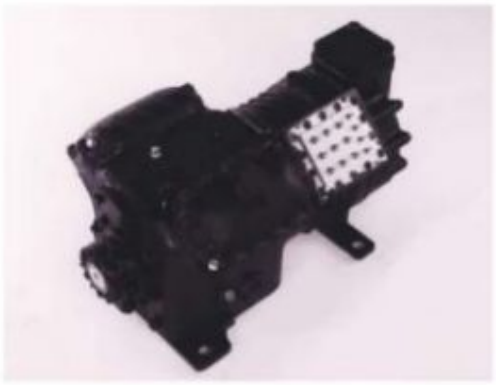



4D Copeland Discus™ III – Semi-Hermetic Compressors

Compressor Cooling

Code	Description
A	Air cooled
D	Discus
R	Refrigerant cooled
T	Std. two stage
W	Water cooled

Capacity Multiplier
M = 10,000
K = 1,000

May also be
"O" = (Mineral Oil)
"E" = (POE Oil)
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Primary Application Range
R = ARI High Temp. Rated @ 45/130
S = ARI Mid Temp. Rated @ 20/120
F = ARI Low Temp. Rated @ -25/105

Tandem Style Models
Indicated by the digit representing the comp. model series connected in tandem with a comp. of the model series indicated by the first digit.

Nominal Capacity at **Rating** Condition 2 numeric characters

Compressor Motor Type

Single Phase Motors	Code
Capacitor run - Capacitor start	C
Induction run - Capacitor start	I
Induction run - Split phase	S
Induction run - Capacitor start, low torque	X
Three Phase Motors	**Code**
General	T
3 Lead single voltage	
6 Lead part winding (575 volt)	
9 Lead dual voltage	
Star (wye) delta	E
6-Lead motors Part winding or across the line	F

Product Variations
Numbers will be assigned as follows:
1. Numbers - 001 through -199 are reserved for sub-t-brn numbers.
2. Numbers - 200 indicates a standard compressor and component parts brn and model no.
3. Numbers - 201 and larger will be assigned for all other variations of a given model.
4. Numbers - C00 and larger will be assigned for all variations with CoreSense™ modules installed

4 DHN R 22 ME - TSE C00

Compressor Family Series
Either a number or a letter established for each product family.

Displacement and Valve Plate
A letter only, arbitrarily assigned for each different displacement within any one family series.

Model Variation
A number or letter, assigned to indicate different model types within any family series.

Compressor Motor Protection

Description	Code
External inherent protection - one protector (line break) use with contactor	A
Internal inherent protection - one protector use with contactor	F
Internal thermostat(s) and ext. supplementary protector(s) use with contactor	H
Internal thermostat(s), and three ext. supplementary protector(s) use with contactor	L
Internal thermal protectors - electronic sensors, and control module external. Use with contactor.	S

* When applicable, specific 50 HZ ratings (Not necessarily identical to typical shown above) will be shown as alternate on 60 HZ rated models.

Electrical Codes

60 Hz	50 Hz	Code	60 Hz	50 Hz	Code
115-1	100-1	A	-	220-1	S
230-1	200-1	B	-	200-1	T
525K-230-3	200/220-3	C	200-3	-	U
460-3	380/400-3	D	208-230-1	200-1	V
575-3	500-3	E	-	200/220-3	W
-	115-1	F	Mex.H.C. Ratings	S	
-	230-1	G	-	500-3	Y
208-1	200-1	H	-	220/240-1	Z
-	208/230-1	I	200-1	200-1	3
208/230/460-3	200/400-3	K	100-1	100-1	4
-	210/240/380-3	L	200-230-3	-	5
-	380-/420-3	M	230-3	-	8
230/460-3	200/400-3	N	380	346	7
-	200/380-3	P	200/220/380	200/345	6
-	200/240-3	R			



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Capacity Multiplier
K = 1,000
M = 10,000

May also be
"E" = (POE Oil)
"L" = (Less Oil)

Compressor Motor Type

Single Phase Motors	Code
Capacitor run - Capacitor start	C
Induction run - Capacitor start	I
Induction run - Split phase	S
Induction run - Capacitor start, low torque	X
Three Phase Motors	**Code**
General	T
3 Lead single voltage	
6 Lead part winding (575 volt)	
9 Lead dual voltage	
Star (wye) delta	E
6 Lead motors	F
Part winding or across the line	

Product Variations
Characters will be assigned as follows:
1. CXX indicates CoreSense Protection
2. C00 indicates a standard compressor and component parts trim and model no.
3. C01 through C99 are reserved for sub-trim numbers.

Compressor Technology
M = Stream

Nominal Capacity at Rating Condition 2 numeric characters

4 MTLS 15 KE - FSC C00

Compressor Family Series
Either a number or a letter established for each product family.

Primary Application Range
T = MT Transcritical, ARI Med Temp. Rated @ 14°F/1305 psi
S = LT Subcritical, ARI Low Temp. Rated @ -31°F/23°F

Model Variation
Either a number or a letter assigned to indicate major variations within any one family series.

Compressor Motor Protection

Description	Code
External inherent protection - one protector (line break) use with contactor	A
Internal inherent protection - one protector use with contactor	F
Internal thermostat(s), and ext. supplementary protector(s) use with contactor.	H
Internal thermostat(s), and three ext. supplementary protector(s) use with contactor.	L
Internal thermal protectors - electronic sensors, and control module external. Use with contactor.	S
Internal thermal protectors - electronic sensors, and control module external. Use with contactor. (For European use only)	W
Compressor shipped without protection - customer must apply own protection.	X

Electrical Codes

60 Hz	50 Hz *	Code	60 Hz	50 Hz	Code
115-1	100-1	A	-	220-1	S
230-1	200-1	B	-	200-1	T
208/230-3	200/220-3	C	200-3	-	U
460-3	380/400-3	D	208-230-1	200-1	V
575-3	500-3	E	-	200/220-3	W
-	115-1	F	Misc.A.C. Ratings	X	
-	230-1	G	-	500-3	Y
208-1	200-1	H	-	220/240-1	Z
-	208/230-1	I	200-1	200-1	3
208/230/460-3	200/400-3	K	100-1	100-1	4
-	210/240/380-3	L	200-230-3	-	5
-	380-420-3	M	230-3	-	6
230/460-3	200/400-3	N	380	346	7
-	200/380-3	P	200/220/380	200/345	8
-	200/240-3	R			

* When applicable, specific 50 HZ ratings (Not necessarily identical to typical shown above) will be shown as alternate on 60 HZ rated models.



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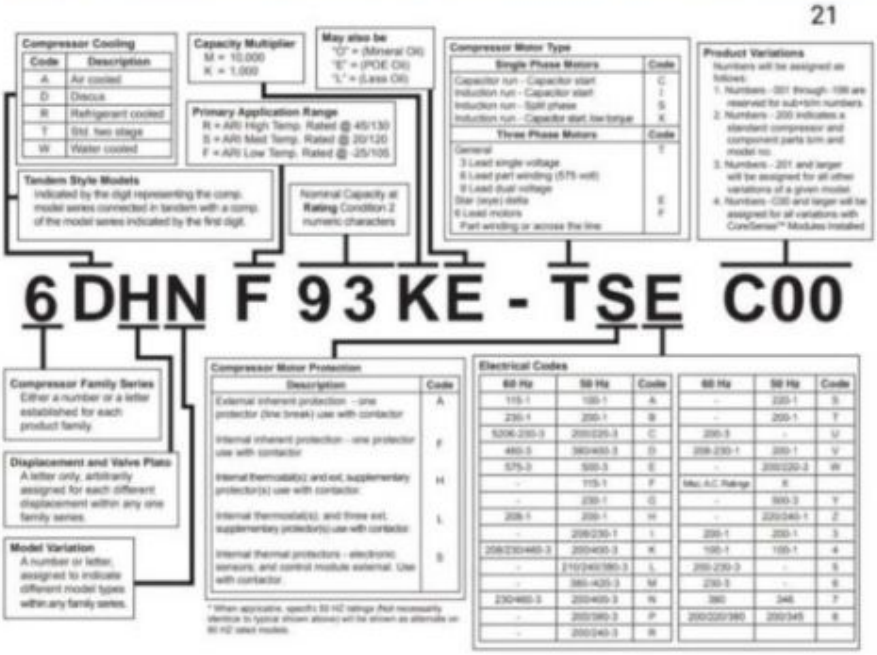
6D Copeland Discus™ III – Semi-Hermetic Compressors



Cooling Fan Kits

Cooling Fan Kits	Part #	Used On
115 Volt Fan Motor Kit	998-0550-02	
115 Volt Replacement Fan Motor	050-0254-04	
230 Volt Fan Motor Kit	998-0550-00	
230 Volt Replacement Fan Motor	050-0254-02	All 6D Discus III
460 Volt Fan Motor Kit	998-0550-01	
460 Volt Replacement Fan Motor	050-0254-05	
Fan Mounting Kit	998-0574-18	
Fan Blade	083-0118-00	

Service Valves

Part #	Size	Discharge	Suction	Style	MTG Center	Thread
998-0510-46	1 3/8"	X		Rotalock		1 3/4"-12
998-0510-66	1 5/8"	X		Rotalock		1 3/4"-12
998-0510-11	1 3/8"		X	Bolt on (2)	2 1/4" x 2 1/4"	
998-0510-07	1 5/8"		X	Bolt on (4)	2 1/2" x 2 1/2"	
998-0510-20	2 1/8"		X	Bolt on (4)	3 1/16" x 3 1/16"	



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Copeland Discus™ III to Copeland Discus™ II cross reference matrix

Use this matrix to determine required accessory kits if you are replacing a field-failed Copeland Discus™ III compressor with a Copeland Discus™ II service model.

6D	Kit Number		Do I need this Kit? Check the Discus III nomenclature	Kit includes:	Special notes
	CoreSense Protectioin	CoreSense Diagnostics (ISD)			
Electronics Kit	974-1315-00	998-3000-06	6DKNF93KE-TSK-C00 C = Protection kit 6DKNF93KE-TSK-A00 A = Diagnostics kit	Mounting parts (studs and nuts) necessary to reinstall CoreSense Protection or Diagnostics on Discus II service models.	You will never need both of these kits, but you will always need one. (The exception is the -441 BOM. In this case, neither kit is required.)
Low Temp Kit	998-3000-16 (Demand Cooling™) 998-0574-13 (head fan)		6DKXF93KE-TSK-A00 You need it if this digit is F**	Head fan and Demand Cooling™ mounting kits (including studs and nuts)	Depending on the refrigerant in the system, you may not need to use the demand cooling mounting parts.
Unloading Kit	998-0212-00 (less coil) 998-0212-02 (115V coil) 998-0212-03 (208/220V coil)	998-0212-00 (less coil) 998-0212-01 (24V)	6DKXF93KE-TSK-A00 You need it if this digit is anything except H, J, B or G	Gasket and solenoid valve assembly	6D models receive two unloading kits. NOTE: It is possible unloading has been added to the compressor at the time of install. If this is the case, unloading kits will be required.
	(2 kits will be sent *)				

* Digital compressors (6DKXF93KE-TSK-A00/this digit of the DiscusTM III nomenclature is X) will only receive one kit. Digital applications run one unloader head and one digital head.

** Refer to OEM equipment guidelines. Demand Cooling is only used in R-22, R-407A, R-407C and R-407F applications.

NOTE: Any 6DJ, 6DR, or 6DS Discus™ III model being replaced with a Discus™ II must be a -899 BOM (ie: 6DE3F11ME-TSK-899). This model is a standard bottom plate in place of the deep sump bottom plate.





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Compressor Cooling

Code	Description
A	Air cooled
D	Discus
R	Refrigerant cooled
T	Std. two stage
W	Water cooled

Tandem Style Models
Indicated by the digit representing the comp. model series connected in tandem with a comp. of the model series indicated by the first digit.

Comp. Motor Rating Nominal

HP	Code	HP	Code	HP	Code
1/4	0025	2-3/4	0275	15	1500
1/3	0033	3 (0310)	0300	20	2000
1/2	0050	3-1/2	0350	25	2500
3/4	0075	4 (0406)	0400	30	3000
1	0100	5 (0506)	0500	35	3500
1-1/4	0125	6	0600	40	4000
1-1/2	0150	7-1/2 (0798)	0750	50	5000
1-3/4	0175	9	0900	60	6000
2	0200	10 (1015)	1000		
2-1/2	0250	12	1200		

Note: Nominal horsepower rating of tandem compressors is sum of individual compressor ratings

Compressor Motor Type

Single Phase Motors	Code
Capacitor run - Capacitor start	C
Induction run - Capacitor start	I
Induction run - Split phase	S
Induction run - Capacitor start, low torque	X
Three Phase Motors	**Code**
General 3 Lead single voltage 6 Lead part winding (575 volt) 9 Lead dual voltage	T
Star (wye) delta 6 Lead motors Part winding or across the line	E F

Product Variations
Numbers will be assigned as follows:
1. Numbers -001 through -199 are reserved for sub-b/m numbers.
2. Numbers -200 indicates a standard compressor and component parts b/m and model no.
3. Numbers -201 and larger will be assigned for all other variations of a given model.

9RP2 - 1015 - TFE 800

Compressor Family Series
Either a number or a letter established for each product family.

Displacement and Valve Plate
A letter only, arbitrarily assigned for each different displacement within any one family series.

Model Variation
A number or letter, assigned to indicate different model types within any family series.

May also be
"A" = (Alkylberzene)
"E" = (POE Oil)
"L" = (Less Oil)

Compressor Motor Protection

Description	Code
External inherent protection - one protector (line break) use with contactor	A
Internal inherent protection - one protector use with contactor	F
Internal thermostat(s); and ext. supplementary protector(s) use with contactor.	H
Internal thermostat(s); and three ext. supplementary protector(s) use with contactor.	L
Internal thermal protectors - electronic sensors; and control module external. Use with contactor.	S

* When applicable, specific 50 HZ ratings (Not necessarily identical to typical shown above) will be shown as alternate on 60 HZ rated models.

Electrical Codes

60 Hz	50 Hz	Code	60 Hz	50 Hz	Code
115-1	100-1	A	-	220-1	S
230-1	200-1	B	-	200-1	T
5206-230-3	200/220-3	C	200-3	-	U
460-3	380/400-3	D	208-230-1	200-1	V
575-3	500-3	E	-	200/220-3	W
-	115-1	F	Misc A.C. Ratings	X	
-	230-1	G	-	500-3	Y
208-1	200-1	H	-	220/240-1	Z
-	208/230-1	I	200-1	200-1	3
208/230/460-3	200/400-3	K	100-1	100-1	4
-	210/240/380-3	L	200-230-3	-	5
-	380-/420-3	M	230-3	-	6
230/460-3	200/400-3	N	380	346	7
-	200/380-3	P	200/220/380	200/345	8
-	200/240-3	R			



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Application Range

Code	Application	Refgn/Substance Compressed
B	Ref MT / HT	R-22/R-404A, 410A/407A/407C/407F

Compressor Motor Types

Phase	Description	Code
1	Capacitor Run - Permanent Split Capacitor	P
3	General - 3 Lead Single Voltage - 6 Lead Part Winding (575 Volt)	T

Compressor Motor Protection

Type Protection	Code
Internal Inherent Protection	F
External Electronic Protection	W
External Enhanced	E

Family Series
Z = Scroll

Optional
E = POE Oil - AK/DA, 3MA or SP32

ZBD 15KCE - PFV - 230

Modulation

Code	Description
D	Digital
DU	Digital Uneven Tandem
DT	Digital Even Tandem
S	Ultra Tech
T	Even Tandem
U	Uneven Tandem

Capacity Multiplier
M = 10.000
K = 1.000

Model Variation

1	R
2	H
3	L
4	M
5	Q
6	S
A	W
B	V
C	T
D	

Nominal Capacity at Rating Condition
2 - 3 numeric characters

Bill of Material Product Variation

Voltage Electrical Codes

Voltage Code	60 Hertz	50 Hertz
B	230-1	
C	208-230-3	200-3
D	460-3	380-240-3
E	575-3	
J	265-1	220-240-1
M		380-420-3
P		380-3
Q	265-1	
R		220-240-3
S		220-1
V	208-230-1	200-1*
W		200-220-3

Misc AC Voltages

Z		220-240-1
5	200-230-3	200-220-3
7	380-3	
0		415-3
3	220-1	220-1



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Copeland Scroll™ Compressors – ZF

Application Range

Code	Application	Refgn/Substance Compressed
F	Ref LT / MT	R-404A/134a/22/407A/407C/407F

Compressor Motor Types

Phase	Description	Code
1	Capacitor Run - Permanent Split Capacitor	P
3	General - 3 Lead Single Voltage - 6 Lead Part Winding (575 Volt)	T

Compressor Motor Protection

Type Protection	Code
Internal Inherent Protection	F
External Electronic Protection	W
External Enhanced	E

Family Series
Z = Scroll

Optional
E = POE Oil - AK/DA, 3MA or SP32

ZFD 34K5E - TFD - 265

Modulation

Code	Description
D	Digital
DU	Digital Uneven Tandem
DT	Digital Even Tandem
S	Ultra Tech
T	Even Tandem
U	Uneven Tandem

Capacity Multiplier
M = 10,000
K = 1,000

Nominal Capacity at Rating Condition
2 - 3 numeric characters

Model Variation

1	R
2	H
3	L
4	M
5	Q
6	S
A	W
B	V
C	T
D	

Bill of Material Product Variation

Voltage Electrical Codes

Voltage Code	60 Hertz	50 Hertz
B	230-1	
C	208-230-3	200-3
D	460-3	380-240-3
E	575-3	
J	265-1	220-240-1
M		380-420-3
P		380-3
Q	265-1	
R		220-240-3
S		220-1
V	208-230-1	200-1*
W		200-220-3

Misc AC Voltages

Z		220-240-1
5	200-230-3	200-220-3
7	380-3	
0		415-3
3	220-1	220-1



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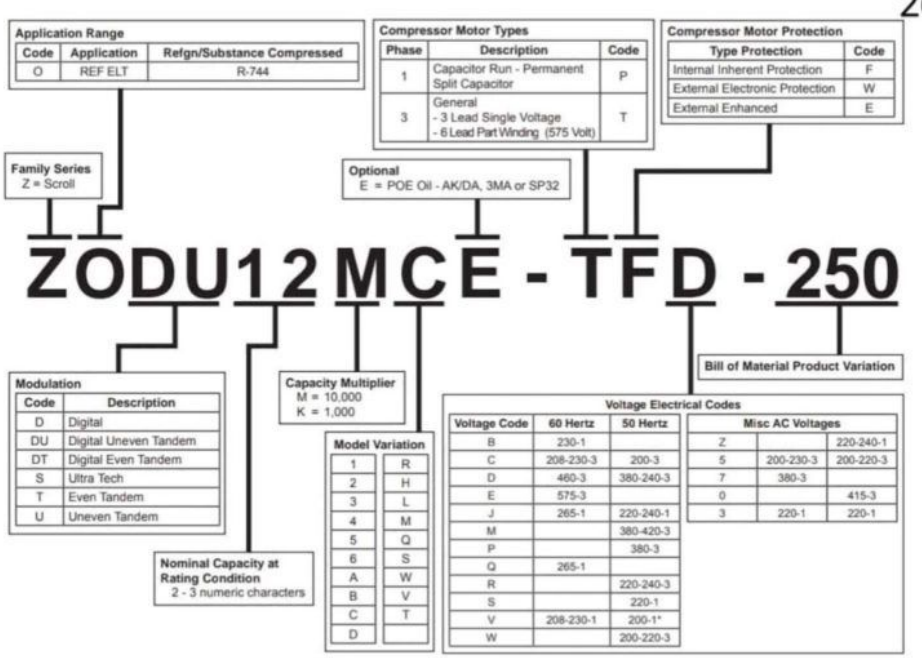
Copeland Scroll™ CO_2 Compressors – ZO



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ZP – Copeland Scroll™ Compressors

Application Range

Code	Application	Refgn/Substance Compressed
P	AC HT	R-410A

Compressor Motor Types

Phase	Description	Code
1	Capacitor Run - Permanent Split Capacitor	P
3	General - 3 Lead Single Voltage - 6 Lead Part Winding (575 Volt)	T

Compressor Motor Protection

Type Protection	Code
Internal Inherent Protection	F
External Electronic Protection	W
External Enhanced	E

Family Series
Z = Scroll

Optional
E = POE Oil - AK/DA, 3MA or SP32

ZPDT31MCE - TEE - 275

Nominal Capacity at Rating Condition
2 - 3 numeric characters

Capacity Multiplier
M = 10,000
K = 1,000

Bill of Material Product Variation

Modulation

Code	Description
D	Digital
DU	Digital Uneven Tandem
DT	Digital Even Tandem
S	Ultra Tech
T	Even Tandem
U	Uneven Tandem

Model Variation

1	R
2	H
3	L
4	M
5	Q
6	S
A	W
B	V
C	T
D	

Voltage Electrical Codes

Voltage Code	60 Hertz	50 Hertz
B	230-1	
C	208-230-3	200-3
D	460-3	380-240-3
E	575-3	
J	265-1	220-240-1
M		380-420-3
P		380-3
Q	265-1	
R		220-240-3
S		220-1
V	208-230-1	200-1*
W		200-220-3

Misc AC Voltages

Z		220-240-1
5	200-230-3	200-220-3
7	380-3	
0		415-3
3	220-1	220-1



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ZR – Copeland Scroll™ Compressors

Application Range

Code	Application	Refgn/Substance Compressed
R	AC	R-22/407C/134a

Compressor Motor Types

Phase	Description	Code
1	Capacitor Run - Permanent Split Capacitor	P
3	General - 3 Lead Single Voltage - 6 Lead Part Winding (575 Volt)	T

Compressor Motor Protection

Type Protection	Code
Internal Inherent Protection	F
External Electronic Protection	W
External Enhanced	E

Family Series
Z = Scroll

Optional
E = POE Oil - AK/DA, 3MA or SP32

ZRDU12MCE - TFD - 250

Modulation

Code	Description
D	Digital
DU	Digital Uneven Tandem
DT	Digital Even Tandem
S	Ultra Tech
T	Even Tandem
U	Uneven Tandem

Nominal Capacity at Rating Condition
2 - 3 numeric characters

Capacity Multiplier
M = 10,000
K = 1,000

Model Variation

1	R
2	H
3	L
4	M
5	Q
6	S
A	W
B	V
C	T
D	

Bill of Material Product Variation

Voltage Electrical Codes

Voltage Code	60 Hertz	50 Hertz
B	230-1	
C	208-230-3	200-3
D	460-3	380-240-3
E	575-3	
J	265-1	220-240-1
M		380-420-3
P		380-3
Q	265-1	
R		220-240-3
S		220-1
V	208-230-1	200-1*
W		200-220-3

Misc AC Voltages

Z		220-240-1
5	200-230-3	200-220-3
7	380-3	
0		415-3
3	220-1	220-1



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ZRS - Compressor Parts

Model	Start Capacitor		Run Capacitor		Relay		Motor Protector	Mounting Parts	Crankcase Heater
	OEM	Service	OEM	Service	OEM	Service			
	(014-)	(914-)	(014-)	(914-)	(040-)	(940-)		(527-)	
ZRS35K4(E)-PFV*	0061-27	0036-03	0064-08	0037-12	0166-21	0001-62	IP	0116-00	7
ZRS43K4(E)-PFV*	0061-27	0036-03	0064-25	0037-36	0166-37	0001-79	IP	0116-00	7
ZRS43K4(E)-TF*							IP	0116-00	7
ZRS52K4(E)-PFV*	0006-17	0006-12	0064-27	0037-38	0166-07	0140-08	IP	0116-00	7
ZRS52K4(E)-TF*							IP	0116-00	7

ZRU - Uneven Tandems

Model	Motor Protector	Mounting Parts	Crankcase Heater
		(527-)	
ZRU140KCE-TFD	IP	0181-00	7
ZRU140KCE-TF5	IP	0181-00	7
ZRU178KCE-TFD	IP	0177-00	4
ZRU178KCE-TFE	IP	0177-00	4
ZRU178KCE-TF5	IP	0177-00	4
ZRU178KCE-TF7	IP	0177-00	4
ZRU350KC-TED	EP	0177-00	4

Model	Motor Protector	Mounting Parts	Crankcase Heater
		(527-)	
ZRU350KC-TEE	EP	0177-00	4
ZRU350KC-TE5	EP	0177-00	4
ZRU350KC-TE7	EP	0177-00	4
ZRU350KCE-TED	EP	0177-00	4
ZRU350KCE-TEE	EP	0177-00	4
ZRU350KCE-TE5	EP	0177-00	4
ZRU350KCE-TE7	EP	0177-00	4



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ZS – Copeland Scroll™ Compressors

Application Range

Code	Application	Refgn/Substance Compressed
S	Ref EM	R-404A/134a/410A

Compressor Motor Types

Phase	Description	Code
1	Capacitor Run - Permanent Split Capacitor	P
3	General - 3 Lead Single Voltage - 6 Lead Part Winding (575 Volt)	T

Compressor Motor Protection

Type Protection	Code
Internal Inherent Protection	F
External Electronic Protection	W
External Enhanced	E

Family Series
Z = Scroll

Optional
E = POE Oil - AK/DA, 3MA or SP32

ZSD 19KAE - PFV - 118

Modulation

Code	Description
D	Digital
DU	Digital Uneven Tandem
DT	Digital Even Tandem
S	Ultra Tech
T	Even Tandem
U	Uneven Tandem

Capacity Multiplier
M = 10,000
K = 1,000

Nominal Capacity at Rating Condition
2 - 3 numeric characters

Model Variation

1	R
2	H
3	L
4	M
5	Q
6	S
A	W
B	V
C	T
D	

Bill of Material Product Variation

Voltage Electrical Codes

Voltage Code	60 Hertz	50 Hertz
B	230-1	
C	208-230-3	200-3
D	460-3	380-240-3
E	575-3	
J	265-1	220-240-1
M		380-420-3
P		380-3
Q	265-1	
R		220-240-3
S		220-1
V	208-230-1	200-1*
W		200-220-3

Misc AC Voltages

Z		220-240-1
5	200-230-3	200-220-3
7	380-3	
0		415-3
3	220-1	220-1



Copeland Scroll™ Compressors – ZS

Common Replacement Parts

Molded Plug	Part Number
10 GA. - All K4/K4E and K5/K5E 130 or 830 BOM compressors	529-0060-04
Oil Controls and Adapters	**Part Number**
OMB Oil Control - All Models	065365
OMB Adapter	Sight Glass Connection-Part#



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01

Code Description

Code	Description	Rating Point
R	High Temperature R-134a	20/120
F	Extended Medium Temperature R-134a, R-404A	-10/120
S	Medium & Extended Temperature R-404A, R-22	45/130

Compressor Motor Types

Phase	Description	Code
1	Capacitor Run - Capacitor Start	C
1	Induction Run - Capacitor Start	I
1	Capacitor Run - Permanent Split Capacitor	P
3	Three Phase	T
1	Induction Run - Split Phase	S

Capacity Multiplier
C = 100
K = 1000

Bill of Material (BOM)
Bill of Material Product Variations

A F E 10 C 3 E - I A A - 201

Compressor Family Series
Either a number or a letter established for each product model.

Compressor Shell Series

Nominal Capacity
Compressor nominal capacity at rating conditions to two significant digits.

Model Variation
A number or letter, assigned to indicate different model types within any one family series.

Oil Identifier
"E" indicates compressors with polyol ester oil.

Compressor Motor Protection

Code	Description
A	External Inherent Protection – One Protector (Line Break) Use with Contactor
F	Internal Inherent Protection – One Protector (Line Break) Use with Contactor

Electrical Codes

60 Hz	50 Hz	Code
115-1		A
208/230-3	200/230-3	C
460-3	380/420-3	D
575-3	550-3	E
265-1	220/240-1	J
208-230-1	200-1	V
	220/240-1	Z
200/230-3	200/240-3	5

*Refer to model data or nameplate for specific nominal voltage.

Crankcase Heaters

Models	OEM (018-)	Service (918-)	Voltage	Watts	Lead Length (in)
A*B / A*E	0048-02	0048-00	120V	35	30
A*B / A*E	0048-03	0048-01	240V	35	30
A*T	0090-00	0049-00	120V	48	30
A*T	0090-01	0049-01	240V	48	30







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02



C – Hermetic Compressors

Code Description

Code	Description
E	High Efficiency
F	Low Temperature
H	High Temperature
T	Two Speed
S	Medium Temperature

Compressor Motor Types

Phase	Description	Code
1	Capacitor Run - Capacitor Start	C
1	Induction Run - Capacitor Start	I
1	Capacitor Run - Permanent Split Capacitor	P
3	Three Phase	T

Compressor Motor Protection

Code	Description
A	External Inherent Protection – One Protector (Line Break) Use with Contactor
F	Internal Inherent Protection – One Protector (Line Break) Use with Contactor

Model Variation
A number only, assigned to indicate different model types within any one family series.

Bill of Material (BOM)
Bill of Material Product Variations

C R N 5- 0500 - P F V - 201

Compressor Family Series
Either a number or a letter established for each product model.

Displacement
A letter only, arbitrarily assigned for each different displacement within any one family series.

Compressor Motor Rating

Nominal HP	Code	Nominal HP	Code
¼	0025	2½	0275
⅓	0033	3	0300
½	0050	3½	0350
⅝	0061	4	0400
¾	0075	4½	0450
1	0100	5	0500
1¼	0125	7½	0750
1½	0150	9	0900
1¾	0175	10	1000
2	0200	12	1200
2½	0225		

Electrical Codes

60 Hz	50 Hz	Code
115-1		A
208/230-3	200/230-3	C
460-3	380/420-3	D
575-3	550-3	E
265-1	220/240-1	J
208-230-1	200-1	V
	220/240-1	Z
200/230-3	200/240-3	S

*Refer to model data or nameplate for specific nominal voltage

Code Description

Code	Description	Refrigerant
R	High Temperature A/C & Heat Pump	R22
S	Medium Temperature Refrigeration	R404A/R22/ R134a/R507
F	Low Temperature Refrigeration	R404A/R507
P	High Temperature & High Pressure	R410A

Compressor Motor Types

Phase	Description	Code
1	Capacitor Run - Permanent Split Capacitor	P
3	Three Phase	T

Capacity Multiplier
K = 1000

Bill of Material (BOM)
Bill of Material Product Variations

C R 32 K 6 E - T F 5 - 201

Compressor Family Series
Either a number or a letter established for each product model.

Nominal Capacity
Compressor nominal capacity at rating conditions to two significant digits.

Oil Identifier
"E" indicates compressors with polyol ester oil.

Model Variation
A number or letter, assigned to indicate different model types within any one family series.

Compressor Motor Protection

Code	Description
F	Internal Inherent Protection – One Protector (Line Break) Use with Contactor

Electrical Codes

60 Hz	50 Hz	Code
208/230-3	200/230-3	C
460-3	380/420-3	D
575-3	550-3	E
265-1	220/240-1	J
208-230-1	200-1	V
	220/240-1	Z
200/230-3	200/240-3	S

*Refer to model data or nameplate for specific nominal voltage

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03

Code Description

Code	Description
R	High & Medium Temperature

Compressor Motor Types

Phase	Description	Code
1	Capacitor Run - Permanent Split Capacitor	P
3	Three Phase	T

Electrical Codes

60 Hz	50 Hz	Code
460-3	380/420-3	D
208-230-1	200-1	V
	220/240-1	Z
200/230-3	200/240-3	5

*Refer to model data or nameplate for specific nominal voltage.

Capacity Multiplier
K = 1000

C R 22 K Q E - PFV - 980 WB

Compressor Family Series
Either a number or a letter established for each product model.

Nominal Capacity
Compressor nominal capacity at rating conditions to two significant digits.

Model Variation
Letter "Q" assigned to indicate "Quiet Compressors."

Oil Identifier
"E" indicates compressors with polyol ester oil.

Compressor Motor Protection

Code	Description
F	Internal Inherent Protection – One Protector (Line Break) Use with Contactor

Bill of Material (BOM)
Bill of Material Product Variations

External Variations
Optional alpha letters that indicate external accessories.

Crankcase Heaters

Application Code	Wrap Around Style		Voltage	Watts	Type
	OEM (018-)	Service (918-)			
1	018-0088-00	918-0088-00	240/265V	40/49	
1	018-0088-01	918-0088-01	480/575V	40/57	
2	018-0088-04	918-0088-04	240/265V	40/49	Wrap Around
2	018-0088-05	918-0088-05	480/575V	40/57	
3	018-0075-00	918-0037-02	240V	58	
3	018-0075-01	918-0037-03	480V	50	

* NOTE: 018-0031-05/918-0031-05 Crankcase Heaters used on previous models are no longer available.

Molded Plugs

Wire Gauge	Part Number
10	529-0060-04
14	529-0060-06













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CR



CS



CT

R – Hermetic Compressors

Code Description

Code	Description
E	High Efficiency
F	Low Temperature
R	High Temperature
T	Two Speed
S	Medium Temperature

Compressor Motor Types

Phase	Description	Code
1	Capacitor Run - Capacitor Start	C
1	Induction Run - Capacitor Start	I
1	Capacitor Run - Permanent Split Capacitor	P
3	Three Phase	T

Compressor Motor Protection

Code	Description
A	External Inherent Protection – One Protector (Line Break) Use with Contactor
F	Internal Inherent Protection – One Protector (Line Break) Use with Contactor

Model Variation
A number only, assigned to indicate different model types within any one family series.

Bill of Material (BOM)
Bill of Material Product Variations

R E K 3-0125 - T F D-201

Compressor Family Series
Either a number or a letter established for each product model.

Displacement
A letter only, arbitrarily assigned for each different displacement within any one family series.

Compressor Motor Rating

Nominal HP	Code	Nominal HP	Code
¼	0025	2½	0275
⅓	0033	3	0300
½	0050	3½	0350
⅝	0051	4	0400
¾	0075	4½	0450
1	0100	5	0500
1¼	0125	7½	0750
1½	0150	9	0900
1¾	0175	10	1000
2	0200	12	1200
2½	0225		

Electrical Codes

60 Hz	50 Hz	Code
115-1		A
208/230-3	200/230-3	C
460-3	380/420-3	D
575-3	550-3	E
265-1	220/240-1	J
208-230-1	200-1	V
	220/240-1	Z
200/230-3	200/240-3	5

*Refer to model data or nameplate for specific nominal voltage.

Code Description

Code	Description	Refrigerant
R	High Temperature A/C & Heat Pump	R22
S	Medium Temperature Refrigeration	R404A/R22/ R134a/R507
F	Low Temperature Refrigeration	R404A/R507
P	High Temperature & High Pressure	R410A

Compressor Motor Types

Phase	Description	Code
1	Capacitor Run - Permanent Split Capacitor	P
3	Three Phase	T
1	Induction Run - Capacitor Start	I

Capacity Multiplier
C = 100
K = 1000

Bill of Material (BOM)
Bill of Material Product Variations

R S 43 C 2 E - I A A-251

Compressor Family Series
Either a number or a letter established for each product model.

Nominal Capacity
Compressor nominal capacity at rating conditions to two significant digits.

Oil Identifier
"E" indicates compressors with polyol ester oil.

Model Variation
A number or letter, assigned to indicate different model types within any one family series.

Compressor Motor Protection

Code	Description
F	Internal Inherent Protection - One Protector (Line Break) Use with Contactor
A	External Inherent Protection - One Protector (Line Break) Use with Contactor

Electrical Codes

60 Hz	50 Hz	Code
208/230-3	200/230-3	C
460-3	380/420-3	D
575-3	550-3	E
265-1	220/240-1	J
208-230-1	200-1	V
	220/240-1	Z
200/230-3	200/240-3	5
115-1		A

*Refer to model data or nameplate for specific nominal voltage.

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05

Code Description

Code	Description	Rating Point
R	High Temperature R-134a	20/120
F	Extended Medium Temperature R-134a, R-404A	-10/120
S	Medium & Extended Temperature R-404A, R-22	45/130

Compressor Motor Types

Phase	Description	Code
1	Capacitor Run - Capacitor Start	C
1	Induction Run - Capacitor Start	I
1	Capacitor Run - Permanent Split Capacitor	P
3	Three Phase	T
1	Induction Run - Split Phase	S

Capacity Multiplier
C = 100
K = 1000

Bill of Material (BOM)
Bill of Material Product Variations

R S T 45 C 1 E - C A V - 201

Compressor Family Series
Either a number or a letter established for each product model.

Compressor Shell Series

Nominal Capacity
Compressor nominal capacity at rating conditions to two significant digits.

Model Variation
A number or letter, assigned to indicate different model types within any one family series.

Oil Identifier
"E" indicates compressors with polyol ester oil.

Compressor Motor Protection

Code	Description
A	External Inherent Protection – One Protector (Line Break) Use with Contactor
F	Internal Inherent Protection – One Protector (Line Break) Use with Contactor

Electrical Codes

60 Hz	50 Hz	Code
115-1		A
208/230-3	200/230-3	C
460-3	380/420-3	D
575-3	550-3	E
265-1	220/240-1	J
208-230-1	200-1	V
	220/240-1	Z
200/230-3	200/240-3	5

*Refer to model data or nameplate for specific nominal voltage.

Crankcase Heaters

Application Code	OEM (018-)	Service (918-)	Voltage	Watts	Lead Length
#1	0089-00	0038-00	120V	48 WATT	49" Lead
#1	0089-02	0038-01	240V	48 WATT	49" Lead
#2	0097-00	0097-00	120V	20 WATT	49" Lead
#2	0097-01	0097-01	240V	20 WATT	49" Lead





RR









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06

Code Description

Code	Description
A	(Air-cooled) - Std. air cooled
R	(Refrigerant-cooled) - Std. refrig. cooled
W	(Water-cooled) - Std. water cooled

Compressor Motor Types

Phase	Description	Code
1	Capacitor run - Capacitor start	C
1	Induction run - Capacitor start	I
3	Three phase	T
3	Wye (star) delta	E
3	6 lead part winding or across the line - except 575V	F

Product Variations

Number will be assigned as follows:

1. Number - 100 is standard compressor used in Copeland brand Condensing units.
2. Number - 200 indicates a STANDARD Compressor Parts B/M and Model No.
3. Number - 201 and larger will be assigned for all other variations of a given model.
4. Number - 800 indicates a standard replacement Compressor and Component Parts B/M and Model No. - 240 volt control.
5. Number - 801 indicates a standard replacement Compressor and Component Parts B/M and Model No. - 120 volt control.

Model Variation
A number or letter, assigned to indicate different model types within any one family series.

E A V B - 0210 - C A V - 201

Compressor Family Series
Either a number or a letter established for each product model.

Displacement
A letter only, arbitrarily assigned for each different displacement within any one family series.

Compressor Motor Rating

Nominal (HP)	Code	Nominal (HP)	Code	Nominal (HP)	Code
⅛	0033	2	0200	5	0500
⅙	0050	2	0210	20	2000
¼	0051	3	0300	25	2500
⅓	0075	3	0310	30	3000
1	0100	3	0311	35	3500
1½	0150	4	0400	40	4000

Compressor Motor Protection

Description	Code
External Inherent Protection - One Protector (Line Break) Use with Contactor	A
Internal Inherent Protection - One Protector (Line Break) Use with Contactor	F
Internal Thermal Protection - Electronic Sensors and Control Module External Use with Contactor	S

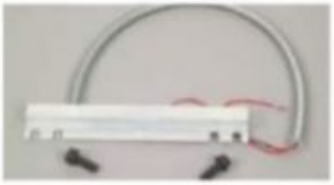
Electrical Code

60 Hz	50 Hz	Code
115-1	-	A
230-1	-	B
208/230-3	200/220-3	C
460-3	380/420-3	D
575-3	550-3	E
208/230/460-3	200/380/400-3	K
-	210/240/380/420-3	L
-	380/420-3	M
230/460-3	200/400-3	N
200-3	-	U
208/230-1	200/220-1	V
-	220/240-1	Z
200/220/380-3	200/380-3	8

Common Replacement Parts

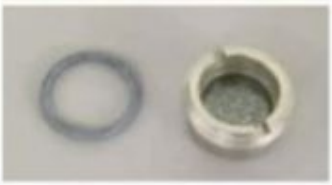
Common Parts	Part Number
Terminal Insulator Assembly	521-0067-01
Terminal Fusite for 3 Phase	521-0017-00
Terminal Fusite Seal	020-0844-02
Discharge Valve Kit	998-0510-22
Discharge Valve Gasket	020-0012-10
Suction Valve Kit	998-0510-12
Suction Valve Gasket	020-0012-11
Sight Glass Kit	998-0002-04
Suction Strainer Screen	013-0010-00
Spacer Mounting Assembly	527-0006-00
Gaskets	**Part Number**
Cylinder Head	020-0122-00
Housing Cover	020-1221-00
Bottom Plate	020-0124-00
Stator Cover	020-0054-00
Crankcase Heater	**Part Number**
Bolt On 120 Volt 65 Watt	918-0009-00
Bolt On 240 Volt 65 Watt	918-0009-01











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08

Code Description

Code	Description
A	(Air-cooled) - Std. air cooled
R	(Refrigerant-cooled) - Std. refrig. cooled
W	(Water-cooled) - Std. water cooled

Compressor Motor Types

Phase	Description	Code
1	Capacitor run - Capacitor start	C
1	Induction run - Capacitor start	I
3	Three phase	T
3	Wye (star) delta	E
3	6 lead part winding or across the line - except 575V	F

Product Variations

Number will be assigned as follows:
1. Number - 100 is standard compressor used in Copeland brand Condensing units.
2. Number - 200 indicates a STANDARD Compressor Parts B/M and Model No.
3. Number - 201 and larger will be assigned for all other variations of a given model.
4. Number - 800 indicates a standard replacement Compressor and Component Parts B/M and Model No. - 240 volt control.
5. Number - 801 indicates a standard replacement Compressor and Component Parts B/M and Model No. - 120 volt control.

Model Variation
A number or letter, assigned to indicate different model types within any one family series.

K A T A - 0100 - C A V - 201

Compressor Family Series
Either a number or a letter established for each product model.

Displacement
A letter only, arbitrarily assigned for each different displacement within any one family series.

Compressor Motor Rating

Nominal (HP)	Code	Nominal (HP)	Code	Nominal (HP)	Code
¼	0033	2	0200	5	0500
⅓	0050	2	0210	20	2000
½	0051	3	0300	25	2500
¾	0075	3	0310	30	3000
1	0100	3	0311	35	3500
1½	0150	4	0400	40	4000

Compressor Motor Protection

Description	Code
External Inherent Protection - One Protector (Line Break) Use with Contactor	A
Internal Inherent Protection - One Protector (Line Break) Use with Contactor	F
Internal Thermal Protection - Electronic Sensors and Control Module External Use with Contactor	S

Electrical Code

60 Hz	50 Hz	Code
115-1	-	A
230-1	-	B
208/230-3	200/220-3	C
460-3	380/420-3	D
575-3	550-3	E
208/230/460-3	200/380/400-3	K
-	210/240/380/420-3	L
-	380/420-3	M
230/460-3	200/400-3	N
200-3	-	U
208/230-1	200/220-1	V
-	220/240-1	Z
200/220/380-3	200/380-3	8

Common Replacement Parts

Common Parts	Part Number
Sight Glass Kit	998-0002-04
Suction Strainer Screen	013-0146-00
Terminal Board - All K models	580-0070-00
Three Phase Only	
Terminal Fused Cluster (Fusite)	521-0016-00
Terminal Fused Seal (Fusite)	020-0844-02
Without Oil Pump	
Spring Mounting Parts Kit - All 1/2 hp to 1 hp models	527-0005-02
Spring Mounting Parts Kit - All 1 1/2 hp to 2 hp models	527-0005-03
Gaskets	**Part Number**
Cylinder Head Gasket	020-0920-01
Stator Cover Gasket	020-0096-02
Housing Cover Gasket	020-0107-02
Bottom Plate Gasket - O-ring	020-0003-09
Crankcase Heater	**Part Number**
Bolt On 120 Volt 50 Watt	918-0118-05
Bolt On 240 Volt 50 Watt	918-0118-06
Bolt On 480 Volt 50 Watt	918-0118-03









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A yellow warning tag on an L-model compressor indicates that the oil level should be adjusted to 3/4 sight glass with compressor running, due to more bearing stress and larger journal holes.

L – Semi-Hermetic Compressors

09

Code Description

Code	Description
A	(Air-cooled) - Std. air cooled
R	(Refrigerant-cooled) - Std. refrig. cooled
W	(Water-cooled) - Std. water cooled

Compressor Motor Types

Phase	Description	Code
1	Capacitor run - Capacitor start	C
1	Induction run - Capacitor start	I
3	Three phase	T
3	Wye (star) delta	E
3	6 lead part winding or across the line - except 575V	F

Product Variations

Number will be assigned as follows:

1. Number - 100 is standard compressor used in Copeland brand Condensing units.
2. Number - 200 indicates a STANDARD Compressor Parts B/M and Model No.
3. Number - 201 and larger will be assigned for all other variations of a given model.
4. Number - 800 indicates a standard replacement Compressor and Component Parts B/M and Model No. - 240 volt control.
5. Number - 801 indicates a standard replacement Compressor and Component Parts B/M and Model No. - 120 volt control.

Model Variation

A number or letter, assigned to indicate different model types within any one family series.

L A H B - 032E - C A B - 201

Compressor Family Series

Either a number or a letter established for each product model.

Displacement

A letter only, arbitrarily assigned for each different displacement within any one family series.

Compressor Motor Rating

Nominal (HP)	Code	Nominal (HP)	Code	Nominal (HP)	Code
¼	0033	2	0200	5	0500
½	0050	2	0210	20	2000
½	0061	3	0300	25	2500
¾	0075	3	0310	30	3000
1	0100	3	0311	35	3500
1½	0150	4	0400	40	4000

Compressor Motor Protection

Description	Code
External Inherent Protection - One Protector (Line Break) Use with Contactor	A
Internal Inherent Protection - One Protector (Line Break) Use with Contactor	F
Internal Thermal Protection - Electronic Sensors and Control Module External Use with Contactor	S

Electrical Code

60 Hz	50 Hz	Code
115-1	-	A
230-1	-	B
208/230-3	200/220-3	C
460-3	380/420-3	D
575-3	550-3	E
208/230/460-3	200/380/400-3	K
-	210/240/380/420-3	L
-	380/420-3	M
230/460-3	200/400-3	N
200-3	-	U
208/230-1	200/220-1	V
-	220/240-1	Z
200/220/380-3	200/380-3	8

Common Replacement Parts

Common Parts	Part Number
Sight Glass	998-0002-04
Suction Screen	013-0038-00
Cylinder Head Gasket	020-0954-00
Stator Cover Gasket	020-0054-00
Bottom Plate Gasket	020-0159-00
Terminal Plate Gasket	020-0146-00
Housing Cover Gasket	020-0749-00
Suction Valve Adapter Gasket	020-0330-00
Suction Valve Gasket	020-0012-11
Discharge Valve Gasket	020-0012-10
Mounting Assembly	527-0007-00
Cooling Fan Kits	**Part Number**
120V w/Complete Fan Guard	998-0550-02
240V w/Complete Fan Guard	998-0550-00
460V w/Complete Fan Guard	998-0550-01
Mounting Kit w/Studs	998-0574-00
Crankcase Heater	**Part Number**
Bolt On 120 Volt 65 Watt	918-0009-00
Bolt On 240 Volt 65 Watt	918-0009-01

Three Phase Only

Common Parts	Part Number
Terminal Fusite	521-0017-00
Terminal Fusite	521-0018-00
Fusite Seal	020-0844-02
Connector T Block	021-0227-02





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M – Semi-Hermetic Compressors

10

Code Description

Code	Description
A	(Air-cooled) - Std. air cooled
R	(Refrigerant-cooled) - Std. refrig. cooled
W	(Water-cooled) - Std. water cooled

Compressor Motor Types

Phase	Description	Code
1	Capacitor run - Capacitor start	C
1	Induction run - Capacitor start	I
3	Three phase	T
3	Wye (star) delta	E
3	6 lead part winding or across the line - except 575V	F

Product Variations

Number will be assigned as follows:
1. Number - 100 is standard compressor used in Copeland brand Condensing units.
2. Number - 200 indicates a STANDARD Compressor Parts B/M and Model No.
3. Number - 201 and larger will be assigned for all other variations of a given model.
4. Number - 800 indicates a standard replacement Compressor and Component Parts B/M and Model No. - 240 volt control.
5. Number - 801 indicates a standard replacement Compressor and Component Parts B/M and Model No. - 120 volt control.

Model Variation
A number or letter, assigned to indicate different model types within any one family series.

MRA 2 - 0500 - TFE - 201

Compressor Family Series
Either a number or a letter established for each product model.

Displacement
A letter only, arbitrarily assigned for each different displacement within any one family series.

Compressor Motor Rating

Nominal (HP)	Code	Nominal (HP)	Code	Nominal (HP)	Code
¼	0033	2	0200	5	0500
½	0050	2	0210	20	2000
¾	0051	3	0300	25	2500
¾	0075	3	0310	30	3000
1	0100	3	0311	35	3500
1½	0150	4	0400	40	4000

Compressor Motor Protection

Description	Code
External Inherent Protection - One Protector (Line Break) Use with Contactor	A
Internal Inherent Protection - One Protector (Line Break) Use with Contactor	F
Internal Thermal Protection - Electronic Sensors and Control Module External Use with Contactor	S

Electrical Code

60 Hz	50 Hz	Code
115-1	-	A
230-1	-	B
208/230-3	200/220-3	C
460-3	380/420-3	D
575-3	550-3	E
208/230/460-3	200/380/400-3	K
-	210/240/380/420-3	L
-	380/420-3	M
230/460-3	200/400-3	N
200-3	-	U
208/230-1	200/220-1	V
-	220/240-1	Z
200/220/380-3	200/380-3	8

Common Replacement Parts

Common Parts	Part Number
Sight Glass	998-0002-02
Oil Pump Kit	998-0008-33
Suction Strainer Screen Kit	998-0513-04
Gaskets	**Part Number**
Cylinder Head	020-0604-00
Housing Cover	020-0104-00
Bottom Plate	020-0159-00
Stator Cover	020-0130-00
Terminal Plate	020-0146-00
Oil Pump	020-1204-00
Suction Service Valve to Compressor Body	020-0489-00
Discharge Service Valve to Compressor Body	020-1224-00

Cooling Fan Kits	Part Number
120V w/Complete Fan Guard	998-0550-02
240V w/Complete Fan Guard	998-0550-00
460V w/Complete Fan Guard	998-0550-01
Mounting Kit w/Studs	998-0574-01
Crankcase Heater	**Part Number**
Bolt On 120 Volt 65 Watt	518-0009-00
Bolt On 240 Volt 65 Watt	518-0009-01
Sentronic 3 Kits and Parts	**Part Number**
Complete Kit	585-1076-02
Sensor and Cable Kit	998-0162-00
Sensor Only	998-0162-01
Copper Gasket for Sensor	020-0297-13
O-Ring Gasket for Sensor	020-0003-28







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