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Application Engineering Europe

COPELAND™ SCROLL COMPRESSORS BOM

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1 Scroll nomenclature

The scroll nomenclature, as given on the nameplate of the compressor, contains information such as compressor model family, application, capacity and other specifications. The BOM (Bill of Material) indication is part of the nomenclature. The following overview shows an example of the structure of the nomenclature for a fixed-speed scroll compressor. Some other scroll families, for example the variable-speed models, may use other or different nomenclature details. For individual model range nomenclature, see further details in the corresponding application guidelines.

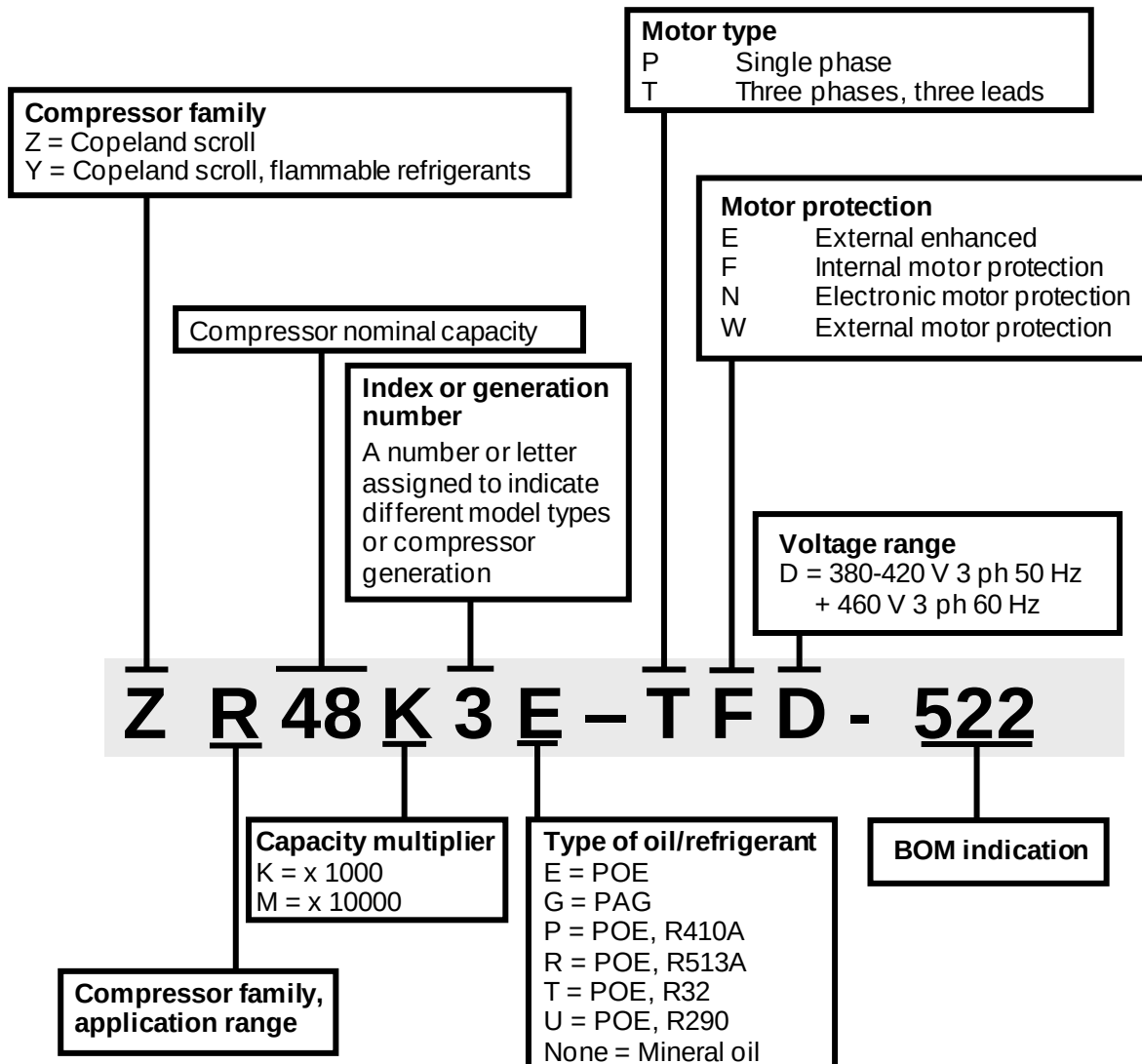


Figure 1: Example of nomenclature for a standard scroll compressor, ZR range

2 BOM number

The BOM (Bill of Material) indication contains three digits, either numbers or letters, and can be found at the end of the scroll compressor nomenclature. It gives details on the compressor specifications, for example in terms of compressor housing version, additional features, IP rating of the electrical box, or associated accessories in the standard delivery. Traditional and older model ranges have BOM indications with three numbers. Newer scroll families have an alphanumeric BOM representation.

European standard BOM

A list of the most common European standard BOM indications can be found in the overview tables hereafter. For more details about BOM versions, compressor standard delivery and possible accessories, please refer to the Emerson price list.

European special BOM (OEM)

Some special BOM indications were created for specific OEM customer projects and/or compressor variations. In some instances the special BOM and the compressor specifications are identified as confidential and cannot be made public. For more information, please contact your local Application Engineering representative at Emerson.

Worldwide standard and special BOM

Other sales regions such as U.S., Asia etc. have their own BOM number specifications, which can be totally different from the European numbering. Special OEM BOM indications can be confidential as well. For more information and possible transcode to European BOM equivalence, please contact your local Application Engineering representative at Emerson.

BOM explanation example:

ZR144 KCE TFD 455

BOM 455:

- compressor with brazing stub tubes
- including oil sight glass
- including Schraeder oil service valve
- electronic box, IP21 rating
- internal motor protection
- without mounting parts

3 BOM of scroll compressor families

3.1 Service compressors

BOM	Compressor models	Compressor connections		Oil sight glass	Electrical box IP rating	Motor protection			Mounting parts		Previous BOM
		Brazing	Rotalock			Internal	External module 120-240 V	External module 24 V AC	Single operation	Parallel operation	
930	ZR22/28/34/40/48K3E	X			IP21	X			X		522
950	ZR61/72/81KCE	X			IP21	X			X		522
950	ZR94/108/125/144/160/190KCE	X		X	IP21	X			X	X	422, 425, 455, 522, 550
961	ZR90K3E, ZR11/12/16, ZR19M3E		X	X	IP54		X	X*	X		All (adaptor kit included)
977	ZP90/103/120/137/154/182KCE	X		X	IP54	X			X	X	422, 425, 455, 477, 550
922	ZP180KCE	X		X	IP54		X	X*	X		522, 568
951	ZP235/295/385/485KCE	X		X	IP54		X	+	X		522, 524*
924	ZH56/75/92KCE, ZH11M4E	X		X	IP54		X		X		524
926	ZH24/33/40/48KVE	X		X	IP54		X	+	X		526/568*
940	ZB15/19/21/26/29KCE		X	X	IP21	X			X		551
991	ZB30/38/42/45/48/57KCE		X	X	IP54	X			X		551/591
951	ZB50/58/66/76/95/114KCE		X	X	IP21	X			X	X	551
951	ZB56/75/92KCE, ZB11MCE		X	X	IP54		X		X		551
9J3	YB56/64/81/97K1G	X			IP65	X			X		JCD JCY JCE JCZ
850	ZBH30/38/45KJE	X		X	IP56 Molded plug	X			X		650, 651
850	ZBHV45KJE	X		X	IP56 Molded plug	X			X		650, 651
951	ZF24/33/40/48K4E		X	X	IP54		X		X		551
951	ZF24/33/40/48KVE		X	X	IP54		X		X		551

* Delivered (not mounted)

+ Has to be ordered separately if replacement is for former BOM 524/568 compressors

Table 1: Service compressor models

3.2 ZR/ZRD compressor

BOM	Compressor models		Compressor connections		Oil sight glass	Electrical box IP rating	Molded plug connection, IP rating	Motor protection			Mounting parts		Others, special features
			Brazing	Rotalock				Internal	External module 120-240 V	External module 24 V AC	Single operation	Parallel operation	
522	ZR18	K4E	X			IP21		X			X		Obsolete
622	ZR18	K5E	X				IP56	X			X		
930	ZR22-48	K3E	X			IP21		X			X		Service version (replaces BOM 522)
522	ZR22-48	K3E	X			IP21		X			X		
950	ZR61-81	KCE	X			IP21		X			X		Service version (replaces BOM 522)
522	ZR61-81	KCE/KSE	X			IP21		X			X		
523	ZR48-81	K3E/KCE		X		IP21		X			X		
422	ZR48-81	K3E/KCE	X			IP21		X				X	Tandem-ready extra connections
230	ZR22-81	K3E/KCE	X			IP21		X					US version, not available in Europe
950	ZR94-190	KCE TF	X		X	IP21		X			X	X	Service version (replaces BOM 425, 455, 522, 550)
425	ZR94-190	KCE TF	X		X	IP21		X				X	Obsolete
455	ZR94-190	KCE TF	X		X	IP21		X					
522	ZR94-190	KCE TF	X			IP21		X					US version, not available in EU
550	ZR94-190	KCE TF	X		X	IP21		X			X		Obsolete
650	ZR94-190	KCE TF	X		X		IP66	X			X		Molded plug version, obsolete
655	ZR94-190	KCE TF	X		X		IP66	X					Molded plug version
455	ZR160-190	KCE TW	X		X	IP54				X			
456	ZR160-190	KCE TW	X		X	IP54			X				
961	ZR90-19	K3E M3E		X	X	IP54			X	X*	X		Service compressor, replaces all BOM incl. adaptor kit rotal->brazed, Kriwan 24 V AC
522	ZR90-19	K3E M3E	X		X	IP54			X		X		Obsolete

* Delivered (not mounted)

BOM	Compressor models		Compressor connections		Oil sight glass	Electrical box IP rating	Molded plug connection, IP rating	Motor protection			Mounting parts		Others, special features
			Brazing	Rotalock				Internal	External module 120-240 V	External module 24 V AC	Single operation	Parallel operation	
522	ZR90-19	K3E M3E	X		X	IP54			X		X		Obsolete
540	ZR90-19	K3E M3E		X	X	IP54				X	X		Obsolete Tandem-ready extra conn. Rotalock
542	ZR90-19	K3E M3E	X		X	IP54				X	X		Obsolete Tandem-ready extra conn. braz
551	ZR90-19	K3E M3E		X	X	IP54			X		X		Obsolete
561	ZR90-19	K3E M3E		X	X	IP54				X	X		Obsolete
568	ZR90-19	K3E M3E	X		X	IP54				X	X		Obsolete
570	ZR90-19	K3E M3E		X	X	IP54			X		X		Obsolete Tandem-ready extra conn. Rotalock
572	ZR90-19	K3E M3E	X		X	IP54			X		X		Obsolete Tandem-ready extra conn. braz
591	ZR90-19	K3E M3E		X	X	IP54				X	X		Obsolete
522	ZR250-380	KCE	X		X	IP54			X		X		
523	ZR250-380	KCE		X	X	IP54			X		X		
524	ZR250-380	KCE	X		X	IP54				X	X		
525	ZR250-380	KCE		X	X	IP54				X	X		
422	ZRD48-81	KCE	X			IP21		X				X	Digital model, Tandem-ready, extra connections
522	ZRD42/94	KCE	X			IP21		X			X		Digital model
455	ZRD125	KCE	X		X	IP21		X					Digital model

Table 2: ZR/ZRD compressor models

3.3 ZP/ZPD compressor

BOM	Compressor models		Compressor connections		Oil sight glass	Electrical box IP rating	Molded plug connection, IP rating	Motor protection			Mounting parts		Other, special features
			Brazing	Rotalock				Internal	External module 120-240 V	External module 24 V AC	Single operation	Parallel operation	
522	ZP24-61	K5E	X			IP21		X			X		
422	ZP24-61	K5E	X			IP21		X					Tandem-ready
522	ZP24-54	KSE	X			IP21		X			X		Obsolete
422	ZP36-54	KSE	X			IP21		X					Obsolete Tandem-ready extra connections
522	ZP23-54	K3E	X			IP21		X			X		Phase out in 2018
422	ZP41-54	K3E	X			IP21		X					Phase out in 2018
522	ZP61-91	KCE	X			IP21		X			X		
422	ZP61-91	KCE	X			IP21		X					Tandem-ready extra connections
576	ZP61-91	K5E KCE	X			IP54		X			X		
476	ZP61-91	K5E KCE	X			IP54		X					Tandem-ready
977	ZP90-182	KCE	X		X	IP54		X			X	X	Service version (replaces BOM 425, 455, 477)
425	ZP90-182	KCE	X		X	IP21		X				X	Obsolete
455	ZP90-182	KCE	X		X	IP21		X					
477	ZP90-182	KCE	X		X	IP54		X					
625	ZP90-182	KCE	X		X		IP66	X				X	Molded plug version, obsolete
655	ZP90-182	KCE	X		X		IP66	X					Molded plug version

BOM	Compressor models		Compressor connections		Oil sight glass	Electrical box IP rating	Molded plug connection, IP rating	Motor protection			Mounting parts		Others, special features
			Brazing	Rotalock				Internal	External module 120-240 V	External module 24 V AC	Single operation	Parallel operation	
455	ZP154-182	KCE TW	X		X	IP54				X			
456	ZP154-182	KCE TW	X		X	IP54			X				
922	ZP180	KCE	X		X	IP54			X	X*	X		Service version (replaces BOM 522, 568)
522	ZP180	KCE	X		X	IP54			X		X		Obsolete
568	ZP180	KCE	X		X	IP54				X	X		Obsolete
951	ZP235-485	KCE	X		X	IP54			X	+	X		Service version (replaces BOM 522, 524*)
522	ZP235-725	KCE	X		X	IP54			X		X		
524	ZP235-725	KCE	X		X	IP54				X	X		
523	ZP235-385	KCE		X	X	IP54			X		X		OEM version
525	ZP235-385	KCE		X	X	IP54				X	X		OEM version
522	ZPD34-54	KSE	X			IP21		X			X		Digital model
522	ZPD61-91	KCE	X			IP21		X			X		Digital model
422	ZPD61-91	KCE	X			IP21		X				X	Digital model, tandem-ready extra connections
455	ZPD103-182	KCE	X		X	IP21		X					Digital model

* Delivered (not mounted)

+ Has to be ordered separately if replacement is for former BOM 524/568 compressors

Table 3: ZP/ZPD compressor models

3.4 YP/YPV compressor

BOM	Compressor models		Compressor connections		Oil sight glass	Electrical box IP rating	Molded plug connection, IP rating	Motor protection			Mounting parts		Others, special features
			Brazing	Rotalock				Internal	External module 120-240 V	External module 24 V AC	Single operation	Parallel operation	
GBZ	YP83-91	K1T	X			IP54		X					Oil equalisation line with Schraeder
GBP	YP104-122	K1T	X		X	IP54		X					Oil equalisation line with Schraeder
GCG	YP104-122	K1T	X			IP54		X					Braze oil & gas equalization line Tandem-ready
GCN	YP104-122	K1T	X			IP54		X					Braze oil & gas equalization line + gas equalization line Tandem with variable speed
GCV	YP137-182	K1T	X		X	IP54		X					Oil equalization line with Schraeder
GCQ	YP137-182	K1T	X			IP54		X					Braze oil & gas equalization line Oil equalization line with Schraeder Tandem-ready
GCX	YP137-182	K1T	X			IP54		X					Braze oil & gas equalization line Gas equalization line Tandem with variable speed
GBP	YP195	KPT KNT	X		X	IP54		X					Oil equalization line with Schraeder
GCC	YP195	KPT KNT	X		X	IP54			X				Oil equalization line with Schraeder
JCJ	YP232, YP385, YP485	K1T	X		X	IP54				X			Oil equalization line with Schraeder

BOM	Compressor models		Compressor connections		Oil sight glass	Electrical box IP rating	Molded plug connection, IP rating	Motor protection			Mounting parts		Others, special features
			Brazing	Rotalock				Internal	External module 120-240 V	External module 24 V AC	Single operation	Parallel operation	
JCP	YP232, YP385, YP485	K1T	X			IP54				X			Braze oil & gas equalization line Oil equalization line with Schraeder Tandem-ready
JCS	YP292	K1T	X			IP54			X				Braze oil & gas equalization line + gas equalization line Tandem with variable speed
JCH	YP292, YP385, YP485	K1T	X		X	IP54			X				Oil equalization line with Schraeder
JCR	YP292, YP385, YP485	K1T	X			IP54			X				Braze oil & gas equalization line Oil equalization line with Schraeder Tandem-ready
EBK	YPV030-038	LT	X			IP21			Not protected		X		Variable speed
GBP	YPV066-096	1T	X		X	IP54			External - Depending on the motor type (E = protection with EV3 drive, X = not protected)				Variable speed Oil equalization line with Schraeder
GCG	YPV066-096	1T	X			IP54							Variable speed Braze oil & gas equalization line
GCN	YPV066-096	1T	X			IP54							Variable speed Braze oil & gas equalization line + Braze gas equalization line

Table 4: YP/YPV compressor models

3.5 ZRH(V)/ZBH(V)/YRH(V) and YBVH horizontal compressor

BOM	Compressor models		Compressor connections		Oil sight glass	Electrical box IP rating	Molded plug connection, IP rating	Motor protection		Mounting parts		Others, special features
			Brazing	Rotalock				Internal	External	Single operation	Parallel operation	
650	ZRH49-72	KJE	X				IP65	X		X		Obsolete
651	ZRH49-72	KJE		X			IP65	X		X		Obsolete
540	ZRH49-72	KJE	X			IP21		X		X		Obsolete
650	ZRHV72	KJE	X				IP65	X		X		Obsolete
651	ZRHV72	KJE		X			IP65	X		X		Obsolete
850	ZBH30-45	KJE	X		X	IP56		X		X		Service version (replaces BOM 650/651) Molded plug
650	ZBH30-45	KJE	X		X		IP65	X		X		Obsolete Molded plug
651	ZBH30-45	KJE		X	X		IP65	X		X		Obsolete Molded plug
541	ZBH30-45	KJE		X	X	IP21		X		X		Obsolete
850	ZBHV45	KJE	X		X	IP56		X		X		Variable speed service version (replaces BOM 650/651)
650	ZBHV45	KJE	X		X		IP65	X		X		Obsolete Variable speed
651	ZBHV45	KJE		X	X		IP65	X		X		Obsolete Variable speed
502	ZRH72-116	KTE	X			IP56		X		X		
502	ZRHV94	KTE	X			IP56			External motor protection with drive	X		Variable speed
NBF	YRH72-81	KTE	X			IP56				X		
NBF	YRHV72-81	KTE	X			IP56			External motor protection with drive	X		Variable speed

BOM	Compressor models		Compressor connections		Oil sight glass	Electrical box IP rating	Molded plug connection, IP rating	Motor protection		Mounting parts		Others, special features
			Brazing	Rotalock				Internal	External	Single operation	Parallel operation	
502	ZRHV72-81	KTE KTR	X			IP56			External motor protection with drive	X		Variable speed
502	ZRH72-116	KTR	X			IP56		X		X		
NBF	YRH72-81	KTG	X			IP56		X		X		PAG oil
NBF	YRHV72-81	KTG	X			IP56			External motor protection with drive	X		Variable speed PAG oil
NBE	YBVH021-046	1U	X			IP65		X	External - depending on the motor type (E = protection with EV3 drive, X = not protected)			Variable speed Horizontal El. connection ready for molded plug (IP65)

Table 5: ZRH(V)/ZBH(V)/YRH(V) and YBVH horizontal compressor models

3.6 ZH(I) compressors

BOM	Compressor models		Compressor connections		Oil sight glass	Electrical box IP rating g	Molded plug connection, IP rating	Motor protection			Mounting parts		Others, special features
			Brazing	Rotalock				Internal	External module 120-240 V	External module 24 V AC	Single operation	Parallel operation	
524	ZH04-19	K1P	X			IP21		X			X		
424	ZH04-19	K1P	X			IP21		X					Tandem-ready Extra brazing connection
526	ZHI 05-23	K1P	X			IP21		X			X		EVI connection
426	ZHI 05-14	K1P	X			IP21		X					EVI and tandem-ready brazing connection
476	ZHI 18-23	K1P	X			IP54		X					EVI and tandem-ready brazing connection
477	ZHI 27-40	K1P	X		X	IP54		X					EVI connection and tandem-ready
524	ZH12-45	K4E	X			IP21		X			X		
424	ZH12-45	K4E	X			IP21		X					Tandem-ready Extra brazing connection
426	ZH06-18	KVE	X			IP21		X			X		EVI and tandem-ready brazing connection
526	ZH06-18	KVE	X			IP21		X			X		EVI connection
924	ZH56/75/92KCE ZH11M4E	KCE M4E	X		X				X		X		Service version (replaces BOM 524)
524	ZH56-11	K4E M4E	X		X	IP54			X		X		
926	ZH24-48	KVE	X		X	IP54			X	+	X		Service version EVI connection (replaces BOM 526/568*)
526	ZH24-48	KVE	X		X	IP54			X		X		EVI connection Obsolete
568	ZH24-48	KVE	X		X	IP54				X	X		EVI connection Obsolete

+ Has to be ordered separately if replacement is for former BOM 524/568 compressors

BOM	Compressor models		Compressor connections		Oil sight glass	Electrical box IP rating	Molded plug connection, IP rating	Motor protection			Mounting parts		Others, special features
			Brazing	Rotalock				Internal	External module 120-240 V	External module 24 V AC	Single operation	Parallel operation	
455	ZH40-75	KCE	X		X	IP21		X					
522	ZH100-150	KCE	X		X	IP54			X		X		
524	ZH04-16	KCU	X			IP65		X			X		T-box Atex
424	ZH04-16	KCU	X			IP65		X					T-box Atex Tandem-ready
534	ZH04-16	KCU	X			IP54		X			X		Single compressor
434	ZH04-16	KCU	X			IP54		X					Tandem-ready

Table 6: ZH(I) compressor models

3.7 YH(V) compressors

BOM	Compressor models		Compressor connections		Oil sight glass	Electrical box IP rating	Molded plug connection, IP rating	Motor protection			Mounting parts		Others, special features
			Brazing	Rotalock				Internal	External module 120-240 V	External module 24 V AC	Single operation	Parallel operation	
GBS	YH04-16	K1E	X			IP54		X					
GCG	YH04-16	K1E	X			IP54		X					Extra brazing connection for paralleling
LBK	YH04-05	K1P	X			IP21		X			X		
LBX	YH06-09	K1P	X			IP21		X			X		
EBX	YH12-15	K1P	X			IP21		X			X		
ABK	YHV021-046	1U	X			IP65			External – depending on motor type (E = protection with drive, X = not protected)			X	

Table 7: YH(V) compressor models

3.8 ZS and ZB(D) compressors

BOM	Compressor models		Compressor connections		Oil sight glass	Electrical box IP rating	Molded plug connection, IP rating	Motor protection			Mounting parts		Others, special features
			Brazing	Rotalock				Internal	External module 120-240 V	External module 24 V AC	Single operation	Parallel operation	
524	ZS09-13	KAE	X			IP21		X			X		3-foot housing design
618	ZS09-13	KAE	X				IP66	X			X		US version Molded plug 4-foot housing design
940	ZB15-29	KCE		X	X	IP21		X			X		Service version (replaces ZB/ZS BOM 551)
991	ZB30-57	KCE		X	X	IP54		X			X		Service version (replaces ZB/ZS BOM 551/591)
551	ZB15-45	KCE		X	X	IP21		X			X		
550	ZB15-45	KCE	X		X	IP21		X			X		OEM version
551	ZS15-45	K4E		X	X	IP21		X			X		Obsolete Incl. discharge thermistor
591	ZB48-57	KCE		X	X	IP54		X			X		
951	ZB50-114	KCE TF		X	X	IP21		X			X	X	Service version (replaces BOM 551)
551	ZB50-114	KCE TF		X	X	IP21		X			X		Incl. internal discharge temp. protection ASTP
651	ZB50-114	KCE		X	X		IP66	X			X		Molded plug
551	ZB95-114	KCE TW		X	X	IP54			X		X		Obsolete
567	ZB66-114	K5E		X	X	IP54		X					Incl. discharge thermostat
951	ZB56-11	KCE/MCE		X	X	IP54			X		X		Service version (replaces ZB/ZS BOM 551)

BOM	Compressor models		Compressor connections		Oil sight glass	Electrical box IP rating	Molded plug connection, IP rating	Motor protection			Mounting parts		Others, special features
			Brazing	Rotalock				Internal	External module 120-240 V	External module 24 V AC	Single operation	Parallel operation	
551	ZB56-11	KCE/MCE		X	X	IP54			X		X		Obsolete
551	ZS56-11	K4E/M4E		X	X	IP54			X		X		Obsolete
523	ZB220	KCE		X	X	IP54			X				
548	ZB07-14	KAU	X			IP11		X			X		OEM version 3-foot housing design
634	ZB07-14	KAU	X			IP65		X			X		OEM version 3-foot housing design Molded plug
524	ZB12-49	KCU	X			IP65		X			X		T-box Atex
424	ZB12-49	KCU	X			IP65		X					T-box Atex
534	ZB12-49	KCU	X			IP54		X			X		Single compressor
434	ZB12-49	KCU	X			IP54		X					Tandem-ready
551	ZBD21-29	KCE		X	X	IP21		X			X		Digital model Incl. discharge thermostat
551	ZBD30-45	KCE		X	X	IP21		X			X		Digital model
591	ZBD57	KCE		X	X	IP54		X			X		Digital model
551	ZBD58-76	KCE		X	X	IP54		X			X		Obsolete Digital model Incl. discharge thermostat
567	ZBD76-114	K5E		X	X	IP54		X			X		Digital model Incl. discharge thermostat

Table 8: ZS and ZB(D) compressor models

3.9 YB(D) and YBV(H) compressors

BOM	Compressor models		Compressor connections		Oil sight glass	Electrical box IP rating	Molded plug connection, IP rating	Motor protection			Mounting parts		Others, special features
			Brazing	Rotalock				Internal	External module 120-240 V	External module 24 V AC	Single operation	Parallel operation	
GBS	YB12-36	K1E	X			IP54		X					
GCG	YB12-36	K1E	X			IP54		X					Extra brazing connection for paralleling
9J3	YB56-97	K1G	X			IP65		X			X		Extra brazing connection for paralleling + end caps Service version (replaces JCD, JCY, JCE, JCZ BOM)
GCZ	YB56-97	K1G	X			IP54		X			X		
GCI	YB56-97	K1G	X			IP54		X			X		Extra brazing connection for paralleling
JCE	YB56-97	K1G	X			IP65		X			X		
JCD	YB56-97	K1G	X			IP65		X			X		Extra brazing connection for paralleling
XBS	YBD17-36	K1E	X			IP54		X					Digital model
XCG	YBD17-36	K1E	X			IP54		X					Digital model, Extra brazing connection for paralleling
ABK	YBV021-046	1U	X			IP54			External - depending on motor type (E = protection with drive, X = not protected)				Variable speed
ABC	YBV021-046	1U	X		X	IP54							Variable speed
NBE	YBVH021-046	1U	X			IP65							Variable speed, Horizontal El. connection ready for molded plug (IP65)

Table 9: YB(D) and YBV(H) compressor models

3.10 ZF(D) compressors

BOM	Compressor models		Compressor connections		Oil sight glass	Electrical box IP rating	Molded plug connection, IP rating	Motor protection			Mounting parts		Others, special features
			Brazing	Rotalock				Internal	External module 120-240 V	External module 24 V AC	Single operation	Parallel operation	
551	ZF06-18	K4E		X	X	IP21		X			X		Connection for liquid injection Incl. discharge thermostat
556	ZF06-18	K4E		X	X	IP21		X			X		Connection for liquid injection Incl. discharge thermostat Incl. DTC valve
550	ZF06-18	K4E	X		X	IP21		X			X		OEM version Connection for liquid injection Incl. discharge thermostat
265	ZF06-18	K4E		X	X	IP21		X			X		US version Connection for liquid injection
555	ZF06-18	K4E	X		X	IP21		X			X		US version Connection for liquid injection Incl. DTC valve
551	ZF13-18	KVE		X	X	IP21		X			X		Connection for vapour injection Incl. discharge thermostat
550	ZF13-18	KVE	X		X	IP21		X			X		OEM version Connection for vapour injection Incl. discharge thermostat

BOM	Compressor models		Compressor connections		Oil sight glass	Electrical box IP rating	Molded plug connection, IP rating	Motor protection			Mounting parts		Others, special features
			Brazing	Rotalock				Internal	External module 120-240 V	External module 24 V AC	Single operation	Parallel operation	
567	ZF25-54	K5E		X	X	IP54		X			X		Connection for liquid or vapour injection Incl. discharge thermostat
951	ZF24-48	K4E		X	X	IP54			X		X		Service version (replaces BOM 551)
551	ZF24-48	K4E		X	X	IP54			X		X		Obsolete Connection for liquid injection
951	ZF24-48	KVE		X	X	IP54			X		X		Service version (replaces BOM 551)
551	ZF24-48	KVE		X	X	IP54			X		X		Obsolete Connection for vapour injection
551	ZFD13-18	KVE		X	X	IP21		X			X		Digital model Connection for vapour injection Incl. discharge thermostat
552	ZFD13-18	KVE		X	X	IP21		X			X		Digital model US version Connection for vapour injection braze
591	ZFD25	KVE		X	X	IP54		X					Digital model Connection for vapour injection Incl. discharge thermostat
567	ZFD41	K5E		X	X	IP54		X			X		Digital model Connection for liquid or vapour injection Incl. discharge thermostat

Table 10: ZF(D) compressor models

3.11 YF, YFI and YFJ compressors

BOM	Compressor models		Compressor connections		Oil sight glass	Electrical box IP rating	Molded plug connection, IP rating	Motor protection			Mounting parts		Others, special features
			Brazing	Rotalock				Internal	External module 120-240 V	External module 24 V AC	Single operation	Parallel operation	
GDV	YF05-15 YF19	K1E K5E	X			IP54		X					Single compressor DTC valve Brazing injection port for liquid injection
GDW	YF05-15 YF19	K1E K5E	X			IP54		X					Extra tube for paralleling DTC valve Brazing injection port for liquid injection
GDY	YF05-15 YF19	K1E K5E	X			IP54		X					Single compressor Brazing injection port for liquid injection
GDZ	YF05-15 YF19	K1E K5E	X			IP54		X					Extra tube for paralleling Brazing injection port for liquid injection
GFA	YFI10-19	K1E	X			IP54		X					Single compressor Brazing injection port for vapour injection
GFC	YFI10-19	K1E	X			IP54		X					Extra tube for paralleling Brazing injection port for vapour injection
GFB	YFJ10-19	K1E	X			IP54		X					Single compressor Digital/Brazing injection port for vapour injection
GFD	YFJ10-19	K1E	X			IP54		X					Extra tube for paralleling Digital/Brazing injection port for vapour injection

Table 11: YF, YFI and YFJ compressor models

3.12 ZO(D) compressors

BOM	Compressor models		Compressor connections		Oil sight glass	Electrical box IP rating	Molded plug connection, IP rating	Motor protection		Mounting parts		Others, special features
			Brazing	Rotalock				Internal	External	Single operation	Parallel operation	
551	ZO21	K5E		X	X	IP21		X		X		Incl. discharge thermostat
269	ZO21	K5E		X	X	IP21		X		X		US version
551	ZO34-58	K3E		X	X	IP21		X		X		Incl. discharge thermostat
269	ZO34-58	K3E		X	X	IP21		X		X		US version
551	ZO88-104	KCE		X	X	IP21		X		X		Incl. discharge thermostat
269	ZO88-104	KCE		X	X	IP21		X		X		US version
551	ZOD34	K3E		X	X	IP21		X		X		Digital model incl. discharge thermostat
269	ZOD34	K3E		X	X	IP21		X		X		Digital model US version
522	ZOD104	KCE		X	X	IP21		X		X		Digital model incl. discharge thermostat
269	ZOD104	KCE		X	X	IP21		X		X		Digital model US version

Table 12: ZO(D) compressor models

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