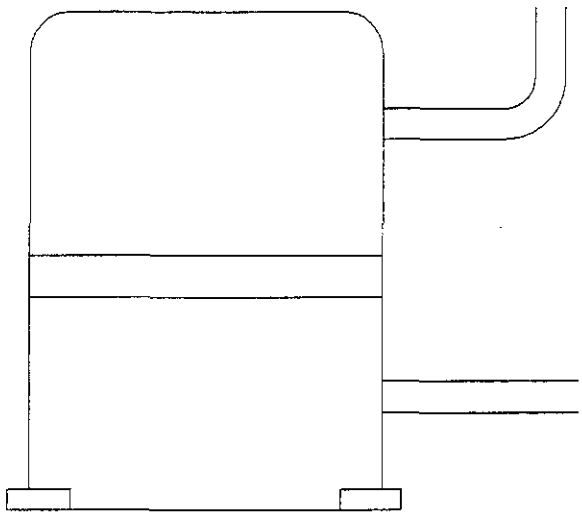
Compressor Replacement Procedure



Bard Manufacturing Company
Bryan, Ohio 43506

Since 1914...Moving, ahead just as planned.

Manual No.: 2100-003 Rev. D
File: Volume I, Tab 1
Date: 08/23/95

Contents

General

Before replacing any compressor, make absolutely sure that it is the compressor that is at fault. Problems with the external electrical components are many times diagnosed as a faulty compressor.

STEP 1. If the compressor tries to start and cycles on overload:

A. Measure line voltage at the unit terminals at the moment of start. It must be within the operating voltage range as shown on the unit serial plate. If it is less than the minimum voltage shown, check all electrical connections and branch wire size.

B. Check to determine whether the run capacitor is good and of the correct rating. Replace the capacitor if in doubt.

C. If a start capacitor and start relay are employed, check out these components.

D. If there are no starting components used on the system, connect a start kit of the correct size temporarily to the compressor circuit. If the compressor motor now starts and runs okay, install start kit permanently.

If the compressor does not try to start and blows fuses:

A. Remove the wiring from the compressor terminals and check for ground between each terminal and the compressor housing.

B. Check for continuity between the common terminal "C" and run terminal "R" and between the common terminal "C" and start terminal "S". If either one of these checks show continuity and the other does not, one of the motor windings is open. If neither show continuity and a check between terminal "R" and terminal "S" show continuity, both motor windings are intact and the internal overload is open. (Normally, any time the compressor housing is cool enough to hold your hand tight against, the overload should be closed.)

STEP 2. It is essential to establish the type of compressor failure that has occurred before any further work can take place.

A. If there was a mechanical failure such as broken valves or a broken rod that would cause a no pump condition (any situation where the motor starts and runs okay but little or no refrigerant is pumped), the system cleanup procedure can be bypassed. Replace the compressor and proceed to Step 6.

If the compressor failure resulted from some form of an electrical failure, the compressor has undergone a burnout condition of some degree of magnitude. It is essential to determine the type and extent of the burnout before the new compressor is installed.

A. Through the service ports, sample the refrigerant for the characteristic acrid odor of a burnout.

WARNING

Smell cautiously, the gas could be toxic and high acrid.

B. Recover the system refrigerant charge using correct recovery procedures and send the refrigerant to an authorized reclaim facility.

CAUTION

Avoid getting the refrigerant in the eyes or on the skin.

C. Remove the burned compressor. Use rubber gloves when handling contaminated parts if there is any likelihood of contacting the oil or sludge.

D. If the discharge line shows no evidence of sludge and the suction stub is likewise clean, or perhaps has some light carbon deposits, the burnout occurred while the compressor was not rotating. Contaminants are, therefore, largely confined to the compressor housing and a single installation of liquid and suction line filter-driers will probably suffice to clean up the system.

E. If the sludge is evident in the discharge line (and very likely also found in the suction line) the compressor motor burned while running. Sludge and acid has been pumped throughout the system and several changes of the liquid and suction filter-driers will probably be necessary to cleanse the system.

STEP 3. System suffering running burnouts will also require additional cleansing of various piping and components, and even this may not rule out the possibility of having to replace these components.

A. An extensive burnout condition may clog the screen and/or the capillary tubing, orifice or TXV requiring replacement.

B. The reversing valve may become inoperative or sluggish due to sludge and acid action attacking the moving parts and their bearing surfaces.

C. It is highly probable that the accumulator bleed orifice would be plugged on a severe burnout, and is recommended that the accumulator be replaced as it is practically impossible to assure the reliability and performance of the accumulator even though it has been flushed out.

STEP 4. An evaluation should be made to determine what the system fault that caused the burnout was and take the necessary steps to correct that situation.

STEP 5.

A. Check all electrical components (capacitors, relays, overload, etc. where applicable). Check the contacts of the compressor contactor.

B. Install the new compressor. Make sure that the replacement compressor is exactly the same as the defective one, or a substitute authorized by the factory.

C. Install liquid line and suction line filter-driers as selected from the following table based upon Line Size and Unit Btu Size.

IMPORTANT

Heat pump units require a different liquid line filter-drier than air conditioners. The 5201-009 or 5201-010 bi-directional liquid line filter-drier must be used on heat pumps, and if desired, could also be used on A/C. Under no circumstances should the 5201-001 or 5201-002 directional filter-driers be used on heat pumps as shown by Figures 2 or 3.

Table 1 — A/C Liquid Line Filter-Drier (Directional)

Unit Size	Line Size	Part No.	Model No.
0 - 36,000 BTU	3/8"	5201-001	C-083S
37 - 60,000 BTU	3/8"	5201-002	C-163S

Table 2 — H/P Liquid Line Filter-Drier (Bi-Directional)

Unit Size	Line Size	Part No.	Model No.
0 - 36,000 BTU	3/8"	5201-009	BFK-083S
37 - 60,000 BTU	3/8"	5201-010	BFK-163S

Table 3 — Suction Line Filter-Drier

Unit Size	Line Size	Part No.	Model No.
0 - 24,000 BTU	1/2"	5201-003	C-164-ST-HH
25 - 31,000 BTU	5/8"	5201-004	C-165-ST-HH
32 - 37,000 BTU	3/4"	5201-005	C-166-ST-HH
38 - 60,000 BTU	3/4"	5201-007	C-306-ST-HH
38 - 60,000 BTU	7/8"	5201-008	C-307-ST-HH

CAUTION

Suction line filters **are not** acceptable substitutes for filter-driers.

D. Figures 1, 2, and 3 illustrate the recommended locations for both the liquid line and suction line filter-driers on both air conditioning and heat pump systems. It is imperative that the filter-driers be installed as shown for the heat pumps to assure adequate protection and so that there is no reverse flow of refrigerant through the filter-drier.

STEP 6. Evacuate the system to less than 1,000 microns, using a good vacuum pump and an accurate high vacuum gauge. Operate the pump at 1,000 microns, or less, for one hour and then allow the system to stand for 30 minutes to be sure the vacuum is maintained.

A. Charge system with the specified quantity of refrigerant. See Step 7.

Note: At no time use the compressor to evacuate the system or any part of it.

STEP 7. Charge the system and place in operation.

A. Self-contained units. The unit serial plate lists the total amount of refrigerant required for recharge. Also see Step 7, C.

B. Split-system units. The unit serial plate refers you to a system charge table located elsewhere in the unit. Using specific model number for indoor and outdoor units, and the length of the interconnection tubing, determine the **total** system charge. There is a blank on the serial plate for this to be marked and is supposed to be done by the original installer. Also see Step 7, C.

C. The addition of liquid line filter-driers to any system requires additional refrigerant. This is shown in the following table and applies to **each** liquid line filter-drier used.

Table 4 — Refrigerant

Part No.	Model No.	Oz. of R-22
5201-001	C-083S	8
5201-002	C-163S	10
5201-009	BFK-083S	7
5201-010	BFK-163S	13

STEP 8. After the system is charged and placed in operation, immediately check the pressure drop across the suction line filter-drier. This will serve two purposes:

A. Verify that the drier selection was correct; that is, large enough.

B. Serve as a base point to which subsequent pressure checks can be compared.

Because the permissible pressure drop across the drier is relatively small, it is suggested that a differential pressure gauge be used for the measurement.

After the system has been operating for an hour or so, measure the pressure drop across the suction line filter-drier.

The maximum pressure drop for a permanent installation is 3 psig. In the case of a cleanup of a standing burnout, little change should be noted and, in most cases, the pressure drop will be less than the maximum allowable 3 psig.

On the other hand, where a severe running burnout has occurred, an increased pressure drop will be measured. Change the suction filter-drier and the liquid line filter-drier whenever the pressure drop approaches or exceeds that allowed for temporary operation during cleanup, 15 psig. Keep changing both the suction and liquid line filter-driers until the pressure drop stabilizes at a figure equal to or below that permitted for permanent operation in a system, 3 psig. At this point, it is the serviceman's option as to whether to leave the suction drier in the system or remove it from operation.

Conclusion

If the system is to be opened to permit the permanent removal of the suction filter-drier, then the liquid line filter-drier should be changed once more.

The above procedure for the cleanup of hermetic systems after burnout through the use of suction line filter-drier will prove satisfactory in most instances provided the system is monitored and kept clean by repeated drier changes, if such are needed. The failure to follow these minimum cleanup recommendations will result in an excessive risk of a repeat burnout.

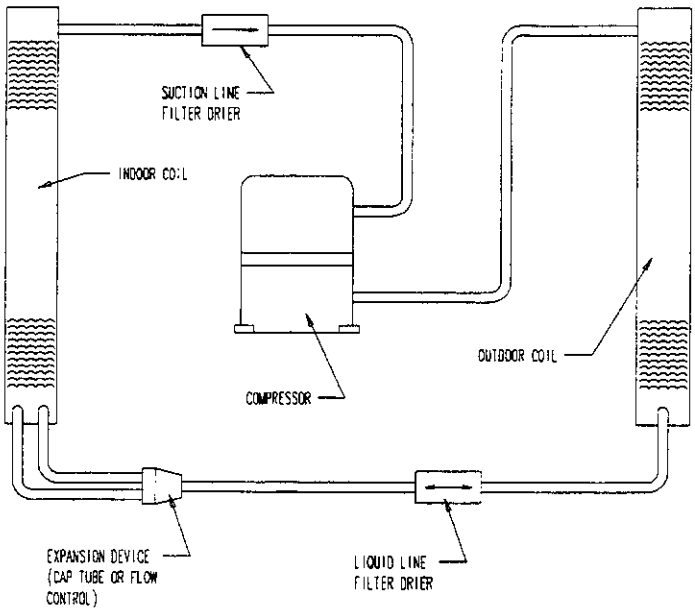


Figure 1 — Typical Air Conditioner Filter Drier Locations

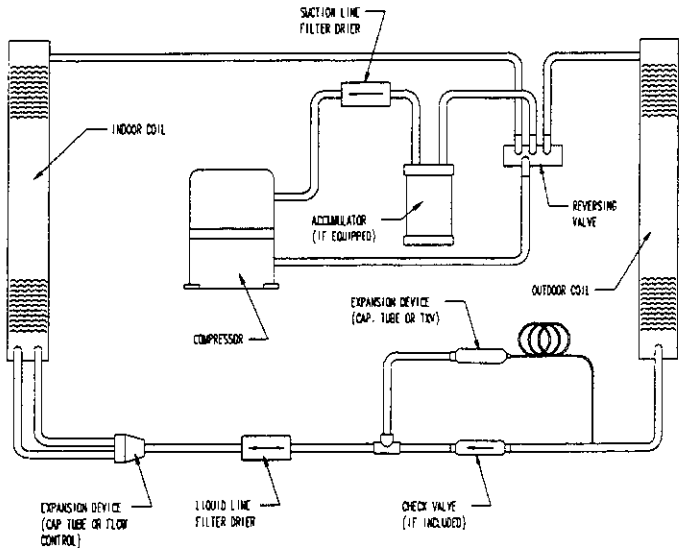


Figure 2 — Typical Self-Contained Heat Pump Filter Drier Locations

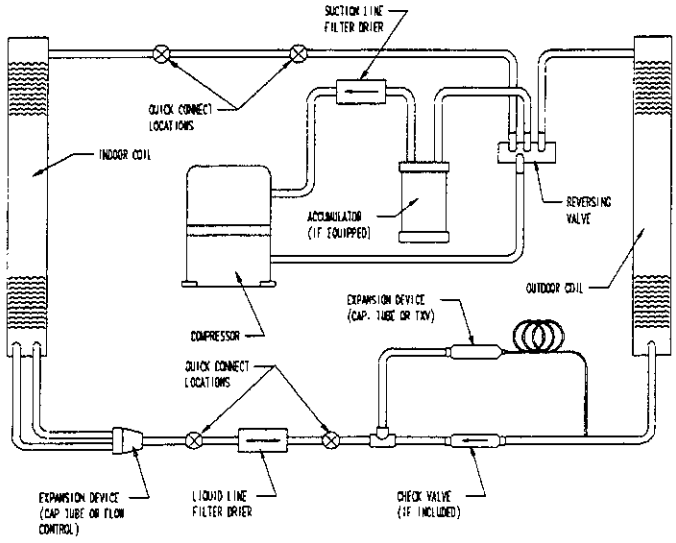


Figure 3 — Typical Split System Heat Pump Filter Drier Locations

Bard
Heating & Cooling Products

FAILED
— PARTS ONLY —
WARRANTY CLAIM FORM

CUSTOMER REF #	RETURN MATERIAL TAG
	№ 12345 P

COMPLETE DATA REQUIRED TO VALIDATE CLAIM — PLEASE PRINT OR TYPE

FILING DATE	(Today's Date)	OWNER/USER	(Owner's Name)
SIGNATURE	(Your Signature)	ADDRESS	(Owner's Address)
DISTRIBUTOR NUMBER		CITY (City)	STATE (State) ZIP (Zip Code)
DISTRIBUTOR	(Distributor's Name)	DEALER	(Dealer's Name)
ADDRESS	(Distributor's Address)	ADDRESS	(Dealer's Address)
CITY (City)	STATE (State) ZIP (Zip Code)	CITY (City)	STATE (State) ZIP (Zip Code)

BASE UNIT DATA

UNIT MODEL NO. (Equipment Model No.)	UNIT SERIAL NO. (Equipment Serial No.)	START UP MO. DA. YR. (Install Date)	FAILURE MO. DA. YR (Failure Date)	REPAIRED MO. DA. YR (Repair Date)

FAILED PART DATA

BARD PART NO. (8000-XXX)	DESCRIPTION (Mfr. Part No. or Model No.) (Model No. from compressor tag)	SERIAL NO. (Compressors) (Compressor serial No.)

EXPLANATION OF FAILURE (Do Not Use Defective)
(Locked rotor, burnout, etc.)

REPLACEMENT PART DATA

BARD PART NO. (8000-XXX)	DESCRIPTION (Mfr. Part No. or Model No.) (Model No. from compressor tag)	SERIAL NO. (Compressors) (Compressor serial No.)

DO NOT WRITE BELOW THIS LINE — BARD MFG. CO. USE ONLY

PART VERIFIED YES NO	DATE CODE	VENDOR NAME	PROCESSED DATE BY
WARRANTY YES NO	CREDIT YES NO	REVIEWED DATE BY	

1. Claim must be filed within **90** days from **date of failure**.
2. Failure to complete form will cause **delays or loss of credit**.
3. For **compressor warranties** please refer to information shipped with replacement compressors. Do NOT return warranty compressors to Bard.
4. For **Heat EXCHANGER warranties** please send a photo of the damaged area of the heat exchanger, and keep the Heat Exchanger until credit is received.
5. If a shipping label is needed, please apply the attached envelope to the package.
6. If you have any questions, please contact Bard Mfg.

IMPORTANT INSTRUCTIONS

1. All data requested must be **complete** and **legible**. Incomplete information will cause delays in processing while we contact you to obtain the information.
2. Please press firmly. **Your** copy is bottom (pink) copy.
3. Enclose top copy (white) in envelope and seal. Make sure return material tag number on claim form matches number on envelope above. Only 1 form number per envelope.
4. Attach envelope securely to part, or use envelope as shipping label.
5. Compressors must be sealed. Use rubber plugs or solder.
6. For direct ship compressors only, mail yellow copy to:

   Bard Manufacturing Company
   1914 Randolph Drive
   Bryan, Ohio 43506

Figure 4 — Functional Component Part Warranty Claim Form

COMPRESSOR DATA SHEET

Bard Manufacturing Company
Bryan, Ohio 43506

The information contained below and on the following pages will provide a guide for replacement compressors to be used in place of those that have been discontinued by the compressor manufacturer or obsoleted by Bard for other reasons.

Whenever possible and feasible, Bard makes every effort to have available an exact replacement compressor to the one originally used. When this can no longer be done the information below identifies what replacement compressor can be used, and signals if there is a run capacitor change or wiring modification required (1 phase models only).

There are still some on-hand inventories available on certain *OBSOLETE* compressors, and these will be shipped until depleted. At that time the *REPLACEMENT PART NUMBER* will be shipped automatically.

Direct replacements by compressor model number should not be a problem since the correct capacitor was used when the unit was built, but it is a good idea to verify this since other service personnel may have previously worked on the unit.

There may also be some refrigerant line re-piping involved and a possible change in the wire length. This will have to be worked out on an as needed basis by the installing mechanic.

Also, for your convenience, the two or three digits that precede the first letter in the equipment serial number sequence represent the last 2 or 3 characters of the Bard 8000 series compressor part number.

EXAMPLE: 58A82274434
8000-058 = CRJ1-0300-PFV-270

103B89379156
8000-103 = AW108ET-001-A4

NOTES (IF APPLICABLE – SEE DATA SHEETS)

1. Capacitor change required. Rewire as original. (See Figure 1 on page 2.)
2. Capacitor must be changed and rewired. (See Figure 1 on page 2.)
3. Capacitor must be rewired (no capacitor change required) to function as single MFD, and no longer need "off cycle capacitance heater". (See Figure 2 or 3 on page 2.)
4. Change capacitor and rewire. (See Figure 3 on page 2.)
5. Rewire capacitor. (See Figure 1 on page 2.)
6. Consult factory.
7. Available through after market wholesaler.

NOTE: All new replacement compressors are equipped with solid state immersion type crankcase heater. These must be wired to the ***line*** *side of the compressor contactor.*

DIAGRAMS FOR REWIRING CAPACITORS

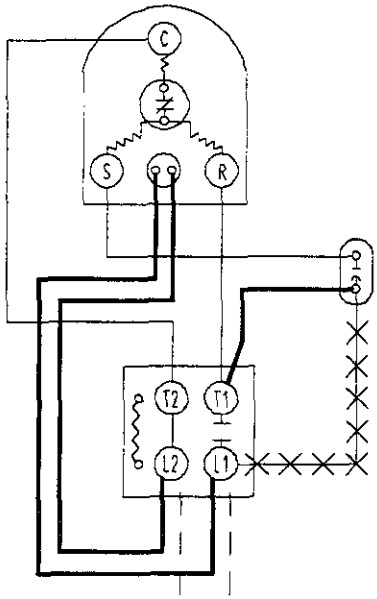


FIG. 1

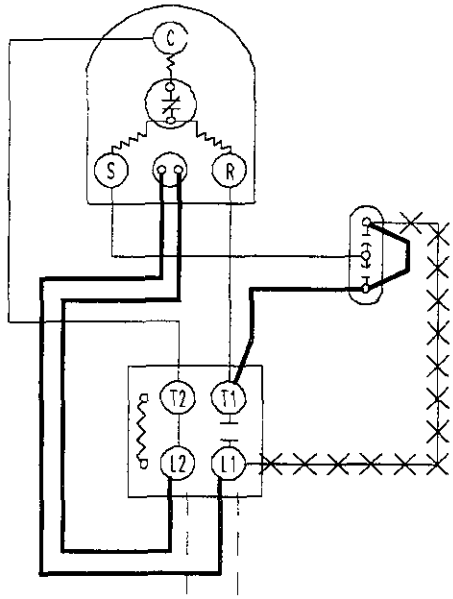


FIG. 2

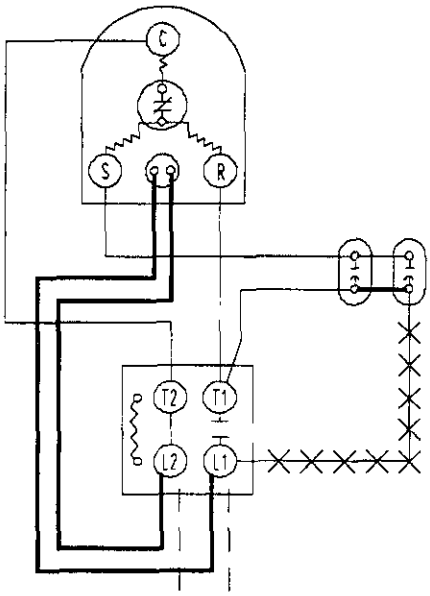


FIG. 3

LEGEND

ORIGINAL FACTORY WIRING

FIELD ADD OR CHANGE AS SHOWN

REMOVE

LINE VOLTAGE (FIELD WIRING)

MIS-1201

COMPRESSOR START KIT REFERENCE TABLES

START KIT NUMBER	RELAY	START CAP	PTCR NO.
SK101	8201-028	8551-003	- - -
SK102	8201-030	8551-002	- - -
SK103	8201-029	8551-002	- - -
SK104	8201-029	8551-001	- - -
SK105	8201-027	8551-003	- - -
SK106	8201-028	8551-001	- - -
SK107	8201-030	8551-001	- - -
SK108	- - -	- - -	8551-004
SK109	- - -	- - -	8551-005

START CAPACITORS			PTCR SOLID STATE START DEVICE		POTENTIAL TYPE START RELAYS			
Bard Part No.	MFD	Volts	Bard Part No.	Ohms	Bard Part No.	Vendor No.	Pick-Up Volts	Drop-Out Volts
8551-001	135 - 155	330	8551-004	25	8201-027	3ARR3N23M2	136 - 150	45 - 90
8551-002	72 - 88	330	8551-005	50	8201-028	3ARR3N3P2	162 - 175	40 - 90
8551-003	88 - 106	250	8551-007	10	8201-029	3ARR3N6TV2	218 - 243	60 - 121
8551-006	270 - 324	330			8201-030	3ARR3N25S2	189 - 205	60 - 130
					8201-070	128302-3345N	152 - 166	55 - 115

PART NO.	MODEL	VOLTAGE	PH	HZ	CAPACITOR	START KIT (CAPACITOR TYPE)	START KIT (PTCR TYPE)	REPLACEMENT INFORMATION	NOTE	UNIT
8000-001	AB111FT-004	230/208	1	60	20/15-370V	SK101		Obsolete, replace with 8000-098	2	18RWQ; 18ECQ; 18WA; 20WA; RPM18
8000-002	AB114FT-004	230/208	1	60	20/15-370V	SK101		Obsolete, replace with 8000-140	2	24RWQ; 24ECQ; 24WA; P24A, -1; RPM24; 24WA1
8000-003	AB111GT-004	200	1	60	25-370V	SK101		Obsolete		
8000-004	AH121HT-014	230/208	1	60	20/15-370V	SK101		Obsolete, replace with 8000-098	2	18HPQ,-1; 18WH,-1
8000-005	AH141FT-014	230/208	1	60	20/15-370V	SK101		Obsolete, replace with 8000-140	2	24HPQ,-1; 20WH; 24WH -1; PH24
8000-006	AH152GT-015	230	1	60	20/15-370V	SK101		Obsolete, replace with 8000-052	2	30BWQ; 30ECQ,-1,-2,-3; 30WA,-1; MP30A; P30A,-1; RPM30; PH30; 30HPQ1,-2,-3
8000-007	AB114GT-004	200	1	60	35-370V	SK101		Obsolete		
8000-008	AH301FT-077	230/208	1	60	25/15-440V	SK102		Obsolete, replace with 8000-130	2	36ECQ1,-2,-3,-4; 36WH,-1; 36WA1,-2; 36HPQ1,-2,-3; PH36,-1; P36A1,-2; MP36A
8000-009	AH302RT-077	230/208	3	60	N/A	N/A	N/A	Obsolete, replace with 8000-131	N/A	36ECQ1,-2,-3,-4; MP36A; 36WH,-1; 36WA1,-2; MU36B; 42ECQ; 36HPQ1,-2,-3; P36A1,-2,-3; PH36,-1
8000-010	AH302TT-104	480-440	3	60	N/A	N/A	N/A	Obsolete, replace with 8000-128	N/A	36ECQ1,-2,-3,-4; 36HPQ1,-2,-3; 36WH; P36A1,-2,-3; 36WA1,-2; PH36,-1; 42HPQ,-1.
8000-011	YRB4-0300-PFB	230	1	60	25/15-440V	SK103		Obsolete, replace with 8000-130	2	42ECQ; MP36A
8000-012	AH152FT-097	208	1	60	35-370V	SK101		Obsolete, no replacement		
8000-013	YRC4-0350-PFB	230	1	60	25/15-440V	SK103		Obsolete, replace with 8000-081	2	MP42A; MU42B; 48ECQ1
8000-014	AH251TT-102-A4	460-380	3	50	N/A	N/A	N/A	Obsolete, replace with 8000-136		
8000-015	YRC4-0350-TFC	240/208	3		N/A	N/A	N/A	Obsolete, replace with 8000-127	N/A	MP42A; MU42B; 48ECQ1
8000-016	CL157ET-085	230/208	1	60	25/20-440V	SK104		Obsolete, replace with 8000-149	2	48FC; 48ECQ; 48WA1,-2; 48WH; MU48; 48HPQ,-1; P48A,-1; PH48
8000-017	CL157RT-085	240/208	3	60	N/A	N/A	N/A	Obsolete, replace with 8000-082	N/A	48WA,-1,-2; 48WH; 48ECQ;PH48; 48FC; P48A,-1; MU48; 48HPQ1
8000-018	CL157TT-085	480-440	3	60	N/A	N/A	N/A	Obsolete, replace with 8000-083		48WA,-1,-2; 48WH; 48ECQ; MU48; 48HPQ,-1; P48A,-1; PH48
8000-019	AB111JT-004-A4	240/220	1	50				Obsolete		
8000-020	CL168YT-062	230	1	60	55/440V	SK104		Obsolete, replace with 8000-153	4	60ECQ; 60HPQ1,-2; PH60; MU60; P60A,-1

PART NO.	MODEL	VOLTAGE	PH	HZ	CAPACITOR	START KIT (CAPACITOR TYPE)	START KIT (PTCR TYPE)	REPLACEMENT INFORMATION	NOTE	UNIT
8000-021	CL168RT-062	240/208	3	60	N/A	N/A	N/A	Obsolete, replace with 8000-075	N/A	60ECQ; 60HPQ,-2; P60A,-1; PH60; MU60
8000-022	CK168TT-062	480-440	3	60	N/A	N/A	N/A	Obsolete, replace with 8000-049	N/A	60ECQ; 60HPQ1,-2; P60A,-1; PH60; MU60
8000-023	AH152HT-015	230/208	1	60	35/370V	SK101		Obsolete		
8000-024	H20A323ABCA	230/208	1	60	35/370V	SK101		Obsolete, replace with 8000-168	2	MU32A
8000-025	H20A343ABCA	230/208	1	60	35/440V	SK101		Obsolete, replace with 8000-125	2	MU36A
8000-026	AG111ET-004	230/208	1	60	45/440V	SK104	SK108	Obsolete, replace with 8000-149	2	48HPQ2,-4; 48WA3; P48A2; PH48-1; 48WH1
8000-027	AG122ET-003	230/208	1	60	45/440V	SK104	SK108			60ECQ1; 60HPQ3; PH60-1; P60A2,-4,-5
8000-028	Semi-0275-PFV	230/208	1	60				Obsolete, no replacement		
8000-029	H20A403ABCA	230/208	1	60	35/440V	SK102		Obsolete, replace with 8000-130	2	MU36B; MU38A
8000-030	AG111RT-004	230/200	3	60	N/A	N/A	N/A	Obsolete, replace with 8000-082	N/A	48WA3; 48WH1-2; P48A2, PH48-1,-2; 48ECQ2; 48HPQ2,-4
8000-031	AG122RT-003	230/200	3	60	N/A	N/A	N/A	Obsolete, replace with 8000-152	N/A	60ECQ1; 60HPQ3; PH60-1; P60A2,-4,-5
8000-032	AG133ET-001	230/208	1	60	55/440V	SK104	SK108	Obsolete, replace with 8000-153	6	
8000-033	AG133RT-003	230/208	3	60	N/A	N/A	N/A	Obsolete, replace with 8000-075	N/A	
8000-034	AH231TT-102-A4	460 420-380	3 3	60 50	N/A	N/A	N/A	Obsolete		
8000-035	SHK2-0250-PFV	230/208	1	60				Obsolete		
8000-036	YRC4-0350-PFG	230	1	50				Obsolete		
8000-037	YRC4-0350-TFR	208/220	3	50	N/A	N/A	N/A	Obsolete		
8000-038	AH152JT-097	240/220	1	50	35/370V	SK101		Obsolete, replace with 8000-192	N/A	
8000-039	AH301JT-077	240/220	1	50	35/440V	SK104		Obsolete, replace with 8000-104	2	
8000-040	YRC4-0350-TFD	480	3	60	N/A	N/A	N/A	Obsolete, replace with 8000-128	N/A	48ECQ1
8000-041	AH141JT-083	240/220	1	50		SK101		Obsolete, replace with 8000-112		
8000-042	H2EA293ABCA	230/208	1	60	55/370V	SK105		Obsolete, replace with 8000-092	2	30WH,-1,-2; MH30; RPMA30; 30WA2; PH31-1
8000-043	AH251RT-097	230/208	3	60	N/A	N/A	N/A	Obsolete, replace with 8000-053	N/A	
8000-044	AH231RT-083	230/208	3	60	N/A	N/A	N/A	Obsolete, replace with 8000-160	N/A	
8000-045	H2EA413ABCA	230/208	1	60	55/370V	SK101		Obsolete, replace with 8000-130	2	42HPQ,-1; 36WA3; P36A3; MH36

COMPRESSOR DATA SHEET

PART NO.	MODEL	VOLTAGE	PH	HZ	CAPACITOR	START KIT (CAPACITOR TYPE)	START KIT (PTCR TYPE)	REPLACEMENT INFORMATION	NOTE	UNIT
8000-046	H2EA413DBDA	230/208	3	60	N/A	N/A	N/A	Obsolete, replace with 8000-131	N/A	42HPQ,-1; 36WA3; P36A3
8000-047	AG111UT-004	460	3	60	N/A	N/A	N/A	Obsolete, no replacement		48HPQ2,-4; 48WA3; 48WH1-2; P48A2; PH48-1,-2; 48ECQ2
8000-048	AG122UT-003	460	3	60	N/A	N/A	N/A			60ECQ1; 60HPQ3; PH60-1,-2; P60A2,-4,-5
8000-049	AG133UT-003	460	3	60	N/A	N/A	N/A	Obsolete, no replacement		60HPQ4,-5; PH60-4,-5; RPMH60-3; RPMA60-3
8000-050	H2EA253ABCA	230/208	1	60	45/370V	SK101		Obsolete, replace with 8000-140	2	31ECQ
8000-051	H2EA363ABCA	230/208	1	60	65/370V	SK106		Obsolete, replace with 8000-125	2	37ECQ; P36A4; PH36-2
8000-052	CRG3-0250-PFV	230/208	1	60	40/370V	SK107	SK109	Obsolete, replace with 8000-165	N/A	RPMH30,-A; 30HPQ4,-5; WPV36; WPVD36; WQS36; WQSD36; PH31-2; 30WH4; P1036A1
8000-053	CRG3-0250-TF5	230/200	3	60	N/A	N/A	N/A	Obsolete, repace with 8000-135	N/A	RPM30,-A; RPM30; 30WH4-3; 30WA4-3
8000-054	CRG3-0275-TFD	460	3	60	N/A	N/A	N/A	Obsolete, replace with 8000-136	N/A	RPMH30,-A; RPMA30; 30WH4-3; 30WA4-3
8000-055	CRH3-0275-PFV	230/208	1	60	40/370V	SK107	SK109	Obsolete, replace with 8000-125	N/A	36WA4; RPMH36,-A; RPMA36; MU36C; P36A5; WAG36A; 36UHPQB
8000-056	CRH3-0270-TF5	230/208	3	60	N/A	N/A	N/A	Obsolete, repace with 8000-133	N/A	36WA4; RPM36,-A; RPMA36; P36A4,-5; WAG36A; 34UHPQB-B
8000-057	CRH3-0275-TFD	460	3	60	N/A	N/A	N/A	Obsolete, replace with 8000-134	N/A	36WA4; RPMH36,-A; RPMA36; P36A4,-5; WAG36A
8000-058	CRJ3-0300-PFV	230/208	1	60	35/440V	SK104	SK109	Obsolete, replace with 8000-130	1	42WA; 36WH2,-4; MH36A,-B; PH36-4; 36WA5; RPMA42; P1045A1; MAC36A; 36WA6; 36WH7
8000-059	CRJ3-0300-TF5	230/200	3	60	N/A	N/A	N/A	Obsolete, repace with 8000-131	N/A	42WA; 36WH2,-4; PH362,-4; 37ECQ1; RPMA42-3; 36WH5-3; 36WA5-3; 36WA6-B; 36WH7-B
8000-060	CRJ3-0300-TFD	460	3	60	N/A	N/A	N/A	Obsolete, replace with 8000-128	N/A	42WA; 36WH2; PH36-2,-4; 37ECQ1; RPMA42-3; 36WH5-3; 36WA5-3; 36WA6-B; 36WH7-B
8000-061	RES3-0175-PFV	230/208	1	60	25/370V	SK102		Obsolete, replace with 8000-100	2	20WA1; 18WH2,-4; 18HPQ2,-4; 18ECQ2
8000-062	AB224FT-014	230/208	1	60	25/370V	SK101		Obsolete, replace with 8000-098	5	24WA2; 24WH2,-4
8000-063	CRK3-0325-PFV	230/208	1	60	40/440V	SK104	SK108	Obsolete, repace with 8000-126	N/A	49WA; P48A4; 42ECQ1; PH42,-1; MU42D; WAG40A

PART NO.	MODEL	VOLTAGE	PH	HZ	CAPACITOR	START KIT (CAPACITOR TYPE)	START KIT (PTCR TYPE)	REPLACEMENT INFORMATION	NOTE	UNIT
8000-064	CRK3-0325-TF5	230/200	3	60	N/A	N/A	N/A	Obsolete, replace with 8000-127	N/A	49WA; P48A4; 42ECQ1; PH42,-1; 36HPQ4,-5; WAG40A
8000-065	CRK3-0325-TFD	460	3	60	N/A	N/A	N/A	Obsolete, replace with 8000-128	N/A	49WA; P48A4; 42ECQ1; PH42,-1; 36HPQ4,-5; WAG40A
8000-066	AB114JB-004-A4	265	1	60				Obsolete, no replacement		Special
8000-067	AG112ET-001-A4	230/208	1	60	70/370V	SK102	SK108	Obsolete, replace with 8000-081	1	48WH2; 48ECQ2; PH48-2
8000-068	AG123ET-002-A4	230/200	1	60	70/370V	SK102	SK108	Obsolete, replace with 8000-178	2	PH60-2; WPV62; WPVD62
8000-069	AG123RT-022-A4	230/208	3	60	N/A	N/A	N/A	Obsolete, replace with 8000-152	N/A	PH60-2
8000-070	AB233HT-015-A4	230/208	1	60	20/15-370V	SK101		(NOTE), replace with 8000-165	4	P31A; MU30-A; 31ECQ1
8000-071	AB225HT-015-A4	230/208	1	60	20/15-370V	SK101		Obsolete, replace with 8000-140	4	WPV30; WPVD30; PH24-1,-2; P24A2; WQS30; WQSD30; 24HPQ2,-4; 24ECQ2,-4
8000-072	AV144ET-001-A4	230/208	1	60	40/440V	SK102	SK108	Replace with 8000-126	N/A	36HPQ4,-5; WPV53;WPVD53; 36ECQ5; 42HPQ2; RPMH42; 42WH; HAC361-G
8000-073	CRL1-0350-PFV	230/208	1	60	40-440V	SK104	SK108	Obsolete, replace with 8000218	N/A	MU42C
8000-074	AG134ET-002	230/208	1	60	90-370V	SK102	SK108	Obsolete, replace with 8000-153		PH60-4,-5; 60HPQ4,-5; RPMH60; 60WH
8000-075	AG134RT-022	230/200	3	60	N/A	N/A	N/A	Obsolete, replace with 8000-154		PH60-4,-5; 60HPQ4,-5; RPMH60-3; PRMA60-3
8000-076	AB225JT-014	240*220	1	50	20/15-370V	SK101		Obsolete, replace with 8000-143	4	PH24-1,-2; P24A2; WPVD30; 18ECQ2; 18HPQ2,-4; 24WA2; 24WH2,-4; WPV30; (50 HZ only)
8000-077	AG144ET-002	230/208	1	60	55/440V	SK102	SK108	Obsolete.		P60A4,-5; PH60-4,-5; 60HPQ4, -5 (Export models)
8000-078	AG144RT-001	230/200	3	60	N/A	N/A	N/A	Obsolete.		P60A4,-5; PH60-4,-5; 60HPQ4, -5 (50 HZ models)
8000-079	AG144UT-001	460	3	60	N/A	N/A	N/A			P60A4,-5; PH60-4,-5; 60HPQ4, -5 (50 HZ models)
8000-080	AB223FT-015	230/208	1	60	20/15-370V	SK101		(NOTE), replace with 8000-165	4	MH30A,-B; P31A1; 30ECQ4
8000-081	AV168ET-005	230/208	1	60	40/440V	SK102	SK108			MH42A,-B; 48WH4,-5; P48A5; PH48-4; 48HPQ5; RPMH48; RPMA48; HAC421-G
8000-082	AV169RT-012	230/208	3	60	N/A	N/A	N/A			48WH4,-5; P48A5; PH48-4; 48HPQ5-3; RPMH48-3; PRMA48-3; HAC421-E

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'ART NO.	MODEL	VOLTAGE	PH	HZ	CAPACITOR	START KIT (CAPACITOR TYPE)	START KIT (PTCR TYPE)	REPLACEMENT INFORMATION	NOTE	UNIT
8000-083	AV169TT-013	460	3	60	N/A	N/A	N/A			48WH4,-5; P48A5; PH48-4; 48HPQ5-3; RPMH48-3; PRMA48-3; HAC421-F
8000-084	AV135ET-005	230/208	1	60	45/440V	SK104	SK109	Obsolete, replace with 8000-130	1	37ECQ1;
8000-085	AV168JT-005	240/220	1	50	40/440V	SK102	SK108	Obsolete, no replacement		P48A5; PH48-2 (50HZ only)
8000-086	H21A293ABCA	230/208	1	60	35/370V	SK107	SK109	Obsolete, replace with 8000-132	1	30WA4; RPMA30A
8000-087	H23A383ABCA	230/208	1	60	35/440V	SK104	SK109	Obsolete, replace with 8000-130	N/A	36WH5; 36HPQ6
8000-088	AV145RT-012-A4	230/200	3	60	N/A	N/A	N/A	Obsolete, replace with 8000-127	N/A	36HPQ5-3; 42HPQ2-3; RPMH42-3; 42WH-3
8000-089	AV145TT-013-A4	460	3	60	N/A	N/A	N/A	Obsolete, replace with 8000-128	N/A	RPMH42-3; 42HPQ2-3
8000-090	H22B233ABCA	230/208	1	60	35/370V	SK101	SK109	Obsolete, replace with 8000-140		24WA4; 24WA5; 24WH5; PH25; P25A
8000-091	H23A543ABCA	230/208	1	60	45/440V	SK104	SK108			HAC481-G
8000-092	H23A303ABCA	230/208	1	60	40/370V	SK106	SK109	Obsolete, replace with 8000-166	N/A	PH31-4; MAC30A
8000-093	H22B153ABCA	230/208	1	60	30/370V	SK101	SK109	Obsolete, replace with 8000-139	N/A	20WA2; 18WH5
8000-094	H22B193ABCA	230/208	1	60	35/370V	SK101	SK109	Obsolete, replace with 8000-110	2	24UAC
8000-095	H23A263ABCA	230/208	1	60	35/370V	SK101	SK109	Obsolete, replace with 8000-132	N/A	30UAC
8000-096	JRL4-0100-PAV	230/208	1	60	20/370V		SK108	Obsolete, no replacement	7	DMC014A (Liebert version of 18ECQ)
8000-097	AB260RT-097-A4	230/208	3	60	N/A	N/A	N/A	Obsolete, replace with 8000-160	N/A	P25A-3
8000-098	H23A203ABCA	230/208	1	60	25/370V	SK101	SK109	Obsolete, replace with 8000-167	N/A	P1024A1
8000-099	H23B283ABCA	230/208	1	60	35/370V	SK101	SK109	Obsolete, replace with 8000-132	N/A	P103A1; MHP30A; WAG30A
8000-100	AW100ET-001	230/208	1	60	25/370V	N/A	SK109	Obsolete, replace with 8000-168		18HPQ5; 18WH6; 18ECQ4; 18HPQ6
8000-101	H23B223ABCA	230/208	1	60	30/370V	SK101		Obsolete, replace with 8000-140	N/A	24HPQ5; 24WH6; 24HPQ6
8000-102	H23B173ABCA	230/208	1	60	25/370V	SK101	SK109	Obsolete, replace with 8000-139	N/A	20WA4
8000-103	AW108ET-001-A4	230/208	1	60	45/370V	SK101	SK109	Obsolete, replace with 8000-165		30HPQ6
8000-104	AV146ET-024-A4	230/208	1	60	45/440V	SK102	SK108	Obsolete, replace with 8000-126	N/A	45WH1
8000-105										
8000-106	AV188ET-038-A4	230/208	1	60	45/440V	SK104	SK108	Obsolete, replace with 8000-178	1	WPV62B
8000-107	CRL3-0350-PFV	230/208	1	60	40/440V	SK104	SK108	Obsolete, replace with 8000-218	1	48WH6
8000-108	CRP5-0450-PFV	230/208	1	60	45/440V	SK104	SK108	Obsolete, replace with 8000-153	1	60WH1

PART NO.	MODEL	VOLTAGE	PH	HZ	CAPACITOR	START KIT (CAPACITOR TYPE)	START KIT (PTCR TYPE)	REPLACEMENT INFORMATION	NOTE	UNIT
8000-109	ZR40K1-PFV-230	230/208	1	60	35/440V	N/A	N/A	Obsolete, replace with 8000-176	1	36WH7; 4212UACSA; WQS42A
8000-110	AW103ET-001	230/208	1	60	25/370V	N/A	SK109	Obsolete, replace wit 8000-167	N/A	24UACQB
8000-111	AW105FT-014-A4	230/208	1	60	35/370V 35/5-370V	SK101	SK109	Obsolete, replace with 8000-140	1	24ECQ5 P25A1; PH251
8000-112	AW105KT-014-A4 AW705JT-093-A4	240/220	1	50	35/370V 35/5-370V	SK101	SK109	Obsolete, replace with 8000-143	1	24ECQ5-D P25A1-D; PH251-D
8000-113	AW100JT-001-A4	240/220	1	50	25/370V	N/A	SK109	Obsolete, replace with 8000-143	1	18ECQ-D
8000-114	AW102FT-014-A4	230/208	1	60	45/370V 45/5-370V	SK101	SK109	Obsolete, replace with 8000-165		30ECQ5 P31A2
8000-115	ZR34K1-PFV-230	230/208	1	60	35/440V	N/A	N/A	Obsolete, replace with 8000-175	1	RPMH36C; 3612UACSA; WQS36A
8000-116	ZR23K1-PFV-230	230/208	1	60	30/370V	N/A	N/A	Obsolete, replace with 8000-170	1	2412UACSA; 24UHPQB
8000-117	ZR28K1-PFV-230	230/208	1	60	35/370V	N/A	N/A	Obsolete, replace with 8000-172	1	3012UACSA; WQS30A
8000-118	AW102KT-014-A4	240/220	1	60	40/5-370V			Obsolete, replace with 8000-165	1	P31A2-D
8000-119	ZR49K2-PFV-230	230/208	1	60	40/440V 40/5-440V	N/A	N/A	Obsolete, replace with 8000-218	1	48UHPQB; 4812UACSA
8000-120	ZR49K2-TF5-230	230/208	3	60	N/A	N/A	N/A	Obsolete, replace with 8000-221	N/A	48UHPQB-B
8000-121	ZR61K2-PFV-230	230/208	1	60	55/5-440V	N/A	N/A	Obsolete, replace with 8000-153	1	60UHPQB; 6012UACSA
8000-122	ZR61K2-TF5-230	230/208	3	60	N/A	N/A	N/A	Obsolete, replace with 8000-154	N/A	60UHPQB-B
8000-123	H23A263ABCA	230/208	1	60	35/440V	SK101	SK109	Obsolete, replacement not required		WW303
8000-124	AG188UT-001-A4	460	3	60	N/A	N/A	N/A			P72
8000-125	CR35K6-PFV-270	230/208	1	60	40/370V	SK107	SK109			WH361; WA361
8000-126	CR42K6-PFV-270	230/208	1	60	40/440V	SL104	SK108			48UACQB; 42WH1; HAC481-A; WG421-A
8000-127	CR42K6-TF5-270	230/200	3	60	N/A	N/A	N/A			48UACQB-B; 42WH1; HAC481-B; WG421-B
8000-128	CR42K6-TFD-270	460	3	60	N/A	N/A	N/A			42WH1; WG421-C
8000-129	ZR18K1-PFV-230	230/208	1	60	25/370V	N/A	N/A	Obsolete, replace with 8000-224	1	WPV24
8000-130	CR38K6-PFV-270	230/208	1	60	40/440V	SK104	SK108			42UACQB; HAC421-A
8000-131	CR38K6-TF5-270	230/200	3	60	N/A	N/A	N/A			42UACQB-B
8000-132	CR28K6-PFV-270	230/208	1	60	35/370V	SK107	SK109			WA301-A; WH301-A
8000-133	CR35K6-TF5-270	230/200	3	60	N/A	N/A	N/A			WA361-B; WH361-B

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PART NO.	MODEL	VOLTAGE	PH	HZ	CAPACITOR	START KIT (CAPACITOR TYPE)	START KIT (PTCR TYPE)	REPLACEMENT INFORMATION	NOTE	UNIT
8000-134	CR35K6-TFD-270	460	3	60	N/A	N/A	N/A			WA361-C; WH361-C
8000-135	CR28K6-TF5-270	230/200	3	60	N/A	N/A	N/A			WA301-B; WH301-B
8000-136	CR28K6-TFD-270	460	3	60	N/A	N/A	N/A			WA301-C; WH301-C
8000-137	ZR46K2-PFV-270	230/208	1	60	40/440V	N/A	N/A	Obsolete, replace with 8000-149	1	WA481-A; WH481-A
8000-138	ZR57K2-PFV-270	230/208	1	60	55/440V	N/A	N/A	Obsolete, replace with 8000-150	1	WA601-A; WH601-A
8000-139	CR16K6-PFV-270	230/208	1	60	25/370V	SK107	SK109			WA181-A
8000-140	CR22K6-PFV-270	230/208	1	60	30/370V	SK107	SK109			WA241-A; WH241-A
8000-141	CR22K6-TF5-270	230/208	3	60	N/A	N/A	N/A			WA241-B; WH241-B
8000-142	CR22K6-TFD-270	460	3	60	N/A	N/A	N/A			WA241-C; WH241-C
8000-143	CR22K6-PFJ-270	240/220	1	50	30/440V	SK107	SK109			WA241-D; WH241-D
8000-144	CR28K6-PFJ-270	240/220	1	50	35/440V	SK107	SK109			WA301-D; WH301-D
8000-145	CR35K6-PFJ-270	240/220	1	50	40/440V	SK107	SK109			WA301-D; WH301-D
8000-146	ZR46K2-TF5-230	230/208	3	60	N/A	N/A	N/A	Obsolete, replace with 8000-156		WA481-B; WH481-B
8000-147	ZR46K2-TFD-230	460	3	60	N/A	N/A	N/A	Obsolete, replace with 8000-157		WA481-C; WH481-C
8000-148	ZR61K2-TFD-	460	3	60	N/A	N/A	N/A	Obsolete, replace with 8000-155		WA601-C; WH601-C
8000-149	ZR46K3-PFV-230	230/208	1	60	60/370V	N/A	N/A			4812UACSB; WA481-A; WH481-A; P1148; PH1048
8000-150	ZR57K3-PFV-230	230/208	1	60	80/370V	N/A	N/A	Obsolete, replace with 8000-153	N/A	6012UACSB; QH602A
8000-151	H25A54QCBC	230/208	1	60	60/370V	*Factory Installed* (1) 8201-070 Relay AND (1) 8551-006 Capacitor	N/A	Obsolete, replace with 8000-179	N/A	60UACQ, SB
8000-152	H25A54QDBL	230/208	3	60	N/A	N/A	N/A	Obsolete, replace with 8000-180	N/A	60UACSB-B
8000-153	ZR61K3-PFV-230	230/208	1	60	80/440V	N/A	N/A			PH1060; P1060; WA602-A; WH602-A; WG601-A
8000-154	ZR61K3-TF5-230	230/208	3	60	N/A	N/A	N/A			WA602-B; WH602-B; P1060-B; PH1060-B; WG601-B
8000-155	ZR61K3-TFD-230	460	3	60	N/A	N/A	N/A			WA602-C; WH602-C; P1060-C; PH1060-C; WG601C
8000-156	ZR46K3-TF5-230	230/208	3	60	N/A	N/A	N/A			WA482-B; WH482-B; P1148-B; PH1048-B
8000-157	ZR46K3-TFD-230	460	3	60	N/A	N/A	N/A			WA482-C; WH482-C; P1148-C; PH104[illegible]

PART NO.	MODEL	VOLTAGE	PH	HZ	CAPACITOR	START KIT (CAPACITOR TYPE)	START KIT (PTCR TYPE)	REPLACEMENT INFORMATION	NOTE	UNIT
8000-158	RK147ET-002-A4	230/208	1	60	25/370V	N/A	N/A			WA121-A
8000-159	RK147AT-002-A4	115	1	60	25/370V	N/A	N/A			WA121-K
8000-160	AW111RT-022-A4	230/208	3	60	N/A	N/A	N/A			Service
8000-161	RK147JT-002-A2	240/220	1	50	25/370V	N/A	N/A			WA121-G
8000-162	ZR57K3-TF5-230	230/208	3	60	N/A	N/A	N/A			QH602-B
8000-163	ZR34K3-TF5	230/208	3	60	N/A	N/A	N/A			P1136-B; PH1136-B; QW421-B
8000-164	ZR34K3-TFD	460	3	60	N/A	N/A	N/A			P1136-C; PH1136-C; QW421-C
8000-165	CR32K6-PFV-370	230/208	1	60	35/440V	SK107	SK109			HAC361-A
8000-166	CR28K6-PFV-370	230/208	1	60	35/370V	SK107	SK109			HAC301-A
8000-167	CR22K6-PFV-370	230/208	1	60	30/370V	SK107	SK109			HAC241-A
8000-168	CR16K6-PFV-370	230/208	1	60	25/370V	SK107	SK109			HAC181-A
8000-169	ZR23K1-PFJ-230	240/220	1	50	30/370V	N/A	N/A			PH1124-D
8000-170	ZR22K3-PFV-230	230/208	1	60	40/370V	N/A	N/A			24UHPQC; 2412UACSB; GSVS301-A; QW241-A
8000-171	ZR24K3-PFV-230	230/208	1	60	40/370V	N/A	N/A			WPV30C; CT241-A; QW301-A; QH241-A; QH242-A
8000-172	ZR28K3-PFV-230	230/208	1	60	45/370V	N/A	N/A			30UHPQC; 3012UACSB; 3614UAC; GSVS361-A; QW361-A
8000-173	ZR28K1-PFJ-522	240/220	1	50	35/370V	N/A	N/A			P1130A1-D
8000-174	ZR32K3-PFV-230	230/208	1	60	45/370V	N/A	N/A			WPV36C
8000-175	ZR34K3-PFV-230	230/208	1	60	50/370V	N/A	N/A			36UHPQC; 3612UACSB; GSVS421-A; QW421-A
8000-176	ZR40K3-PFV-230	230/208	1	60	55/370V	N/A	N/A			42UHPQC; 4212UACSB, QW481-A
8000-177	ZR42K3-PFV-230	230/208	1	60	60/370V	N/A	N/A			WPV42C
8000-178	ZR54K3-PFV-230	230/208	1	60	80/370V	N/A	N/A			WPV60C; QW601-A
8000-179	H27A56QCBC	230/208	1	60	60/370V	N/A	8551-007			HAC601-A
8000-180	H27A56QDBL	230/280	3	60	N/A	N/A	N/A			HAC601-B
8000-181 8000-182 8000-183	Not Used									
8000-184	ZR34K3-PFJ-230	240-200	1	50	35/440V	N/A	N/A			PH1136-D

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PART NO.	MODEL	VOLTAGE	PH	HZ	CAPACITOR	START KIT (CAPACITOR TYPE)	START KIT (PTCR TYPE)	REPLACEMENT INFORMATION	NOTE	UNIT
8000-185	SA101ET-004-A4	230/208	1	60	60/370V	N/A	N/A			PH11421
8000-186	CR16K6-PFJ-270	240/220	1	50	25-370V	SK107	SK109			WA181-D
8000-187	ZR72KC-TF5-230	230/208	3	60	N/A	N/A	N/A			WA701-B; WA721-B
8000-188	ZR49K3-PFV-230	230/208	1	60	60/370V	N/A	N/A	Obsolete, replace with 8000-190	N/A	48UHPQC
8000-189	ZR49K3-TFS-230	230/208	3	60	N/A	N/A	N/A	Obsolete, replace with 8000-155	N/A	48UHPQC-B
8000-190	ZR72KC-TFD-230	460	3	60	N/A	N/A	N/A			WA701C
8000-191	AW103KT-014-A4	240/220	1	50	25/370V	N/A	SK109			HAC181-D
8000-192	AW101LT-014-A4	240/220	1	50	35/370V	N/A	SK109			HAC241-D
8000-193	AV122KT-029-A4	240/220	1	50	40/370V	N/A	SK109			HAC301-D
8000-194	H23A543DBL	230/208	3	60	N/A	N/A	N/A			HAC481-E
8000-195	H23A543DBE	460	3	60	N/A	N/A	N/A			HAC481-F
8000-196	H23A623ABC	230/208	1	60	55/440V	SK104	SK109			HAC601-G
8000-197	H23A623DBL	230/208	3	60	N/A	N/A	N/A			HAC601-E
8000-198	H23A623DBE	460	2	60	N/A	N/A	N/A			HAC601-F
8000-199	ZR61K3-TFE-230	575	3	60	N/A	N/A	N/A			WA602-Z
8000-200	AE222AT-419-A4	115	1	60						None
8000-201	ZR24K3-TF5-230	230/208	3	60	N/A	N/A	N/A			QH241; CT241; QW301-B; QH242-B, WG241-B
8000-202	ZR24K3-TFD	460	3	60	N/A	N/A	N/A			QH241-CQW301-C; QH242-C, WG241-C
8000-203	ZR28K3-TF5	230/208	3	60	N/A	N/A	N/A			QH301-B; QW361-B; QH302-B, WG301B
8000-204	ZR28K3-TFD	460	3	60	N/A	N/A	N/A			QH301-C; QW361-C; QH302-C, WG301-C
8000-205	ZR42K3-TF5	230/208	3	60	N/A	N/A	N/A			QH421-B; QH422-B, WG422-B
8000-206	ZR42K3-TFD	230/208	3	60	N/A	N/A	N/A			QH421-CQH422-C, WG422-C
8000-207	CR13-0290-TFD	380/460	3	60	N/A	N/A	N/A			WA361TN
8000-208	ZR46KC-TF7	380	3	60	N/A	N/A	N/A	N/A		Never Used
8000-209	ZR 61KC-TF7	380	3	60	N/A	N/A	N/A			WA602TN
8000-210	CRE1-0225-270	380/460	3	60	N/A	N/A	N/A	N/A		Never Used
8000-211	CRK3-0325-270	380/460	3	60	N/A	N/A	N/A	N/A		Never Used
8000-212	CR32K6-PFV	230/208	1	60	35/440V	N/A	N/A			WY303

PART NO.	MODEL	VOLTAGE	PH	HZ	CAPACITOR	START KIT (CAPACITOR TYPE)	START KIT (PTCR TYPE)	REPLACEMENT INFORMATION	NOTE	UNIT
8000-213	CR42K6-PFV	230/208	1	60	40/440V	N/A	N/A			WY363
8000-214	ZR36K3-TF5	230/208	3	60	N/A	N/A	N/A	N/A		Never Used
8000-215	ZR68KC-TFD	460	3	60	N/A	N/A	N/A	*Obsolete, replace with 8000-190*		HHP601-F
8000-216	ZR61KC-TFD	460	3	60	N/A	N/A	N/A	Obsolete, replace with 8000-155		HHP501-F
8000-217	ZR36K3-TFD	460	3	60	N/A	N/A	N/A			WA351-F
8000-218	ZR47K3-PFV	230/208	1	60	40/370V	N/A	N/A			QH481-A; QH482-A
8000-219	ZR47K3-TF5	230/208	3	60	N/A	N/A	N/A	N/A		Never Used
8000-220	ZR47K3-TFD	460	3	60	N/A	N/A	N/A	N/A		Never Used
8000-221	ZR47KC-TF5	230/208	3	60	N/A	N/A	N/A			QH481-B; WG481-B; QH482-B
8000-222	ZR47KC-TFD	460	3	60	N/A	N/A	N/A			QH481-C; WG481-C; QH482-C
8000-223										
8000-224	ZR18K3-PFV	230/208	1	60	30/370V	N/A	N/A			GSVS241-A; WH182-A
8000-225	ZR36KC-PFV	230/208	1	60	40/440V	N/A	N/A			WA371-A
8000-226	ZR36K3-PFJ	240/220	3	50	N/A	N/A	N/A			WA371-D
8000-227	ZR24K3-PFJ	240/220	1	50	40/370	N/A	N/A			WA251-D
8000-228	ZR67KC-PFV	230/208	1	60	60/370V	N/A	N/A			WA701-A
8000-229	ZR40K3-TF5	230/208	3	60	N/A	N/A	N/A			WH431-B; QW481-B
8000-230	ZR40K3-TFD	460	3	60	N/A	N/A	N/A			WH431-C; QW481-C
8000-231	ZR22K3-TF5	230/208	3	60	N/A	N/A	N/A			WH261-B; QW241-B
8000-232	ZR22K3-TFD	460	3	60	N/A	N/A	N/A			WH261-C; QW241-C
8000-233	ZR26K3-PFV	230/208	1	60	40/370	N/A	N/A			WH311-A
8000-234	ZR26K3-TF5	230/208	3	60	N/A	N/A	N/A			WH311-B
8000-235	ZR26K3-TFD	460	3	60	N/A	N/A	N/A			WH311-C
8000-236	ZR47KC-PFV	230/208	1	60	45/370	N/A	N/A			WG481-A
8000-237	ZR24K3E-PFJ	220/240	1	50	40/370	N/A	N/A			WE252-D
8000-238	ZR24K3E-TFD	460	3	60	N/A	N/A	N/A			WE252-F
8000-239	ZR28K3E-PFJ	220/240	1	50	45/370	N/A	N/A			WE301-D

COMPRESSOR DATA SHEET

PART NO.	MODEL	VOLTAGE	PH	HZ	CAPACITOR	START KIT (CAPACITOR TYPE)	START KIT (PTCR TYPE)	REPLACEMENT INFORMATION	NOTE	UNIT
8000-240	ZR28K3E-TFD	460	3	60	N/A	N/A	N/A			WE301-F
8000-241	ZR36K3E-PFJ	220-240	1	50	50/370	N/A	N/A			WE371-D
8000-242	ZR36K3E-TFD	460	3	60	N/A	N/A	N/A			WE371-F
8000-243	ZR42K3E-TFD	460	3	60	N/A	N/A	N/A			WE421-F
8000-244	ZR47K3E-TFD	460	3	60	N/A	N/A	N/A			WE482-F
8000-245	ZR61K3E-TFD	460	3	60	N/A	N/A	N/A			WE602-F
8000-246	ZR72KCE-TFD	460	3	60	N/A	N/A	N/A			WE701-F
8000-247	RK147KT-002	220-240	1	50	25/370	N/A	N/A			WE121-G
8000-248	ZR57K3-TFD	460	3	60	N/A	N/A	N/A			QH602-C
8000-249	ZR54K3-TF5	230/208	3	60	N/A	N/A	N/A			QH602-B
8000-250	ZR54K3-TFD	460	3	60	N/A	N/A	N/A			QW601-C
8000-251	ZR34KC-PFV	230/208	1	60	40/370	N/A	N/A			WA381-A
8000-252	ZR48K3-PFJ	220/240	1	50	60/370	N/A	N/A			
8000-253	ZR42KC-PFV	230/208	1	60	40/440	N/A	N/A			WG422-A
8000-254	ZR22KC-PFV	230/208	1	60	35/370	N/A	N/A			
8000-255	ZR28KC-PFV	230/208	1	60	35/370	N/A	N/A			WG301-A
8000-256	ZR24KC-PFV	230/208	1	60	35/440	N/A	N/A			WG241-A
8000-257	ZR18K4-PFV	230/208	1	60	35/370	N/A	N/A			
8000-258	ZR22K4-PFV	230/208	1	60	35/370	N/A	N/A			
8000-259	ZR24K4-PFV	230/208	1	60	35/370	N/A	N/A			
8000-260	ZR22K4-PFJ	220-240	1	50	45/370	N/A	N/A			
8000-261	ZR28K3-PFJ	220-240	1	50	45/440	N/A	N/A			
8000-262										
8000-263										