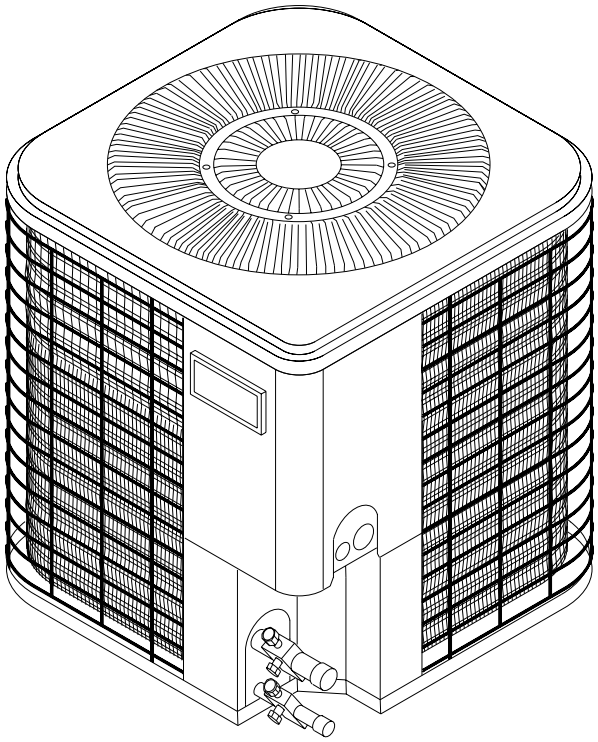
Technical Information



- Specifications
- Wiring Diagrams
- Tech Service Data
- Repair Parts

Heat Pump Outdoor Sections

Models

CH5518VKC1	**YJ018GA1**
CH5524VKC1	**YJ024GA1**
CH5530VKC1	**YJ030GA1**
CH5536VKC1	**YJ036GA1**
CH5542VKC1	**YJ042GA1**
CH5548VKC1	**YJ048GA1**
CH5560VKC1	**YJ060GA1**

Save This Manual for Future Reference

42803210100 (Preliminary)
10-20-95 LP1

System Match and Charge Data – CH55 Series

Outdoor Model	Indoor Model	Pin **	Total System Operating Charge / Feet Of Line In Oz.								
			10'	15'	20'	25'	30'	35'	40'	45'	50'
CH5518VKC	EP*5518(SA/BC)	.048	74	76	78	80	83	85	87	89	92
	EP*5524(SA/BC)	.048									
	EP*5524(SA/BC) + TD1	.048									
	EP*5524(SA/BC) + HTXV2	TXV	SEE SYSTEM CHARGING PROCEDURE ON PAGE 6								
	EX*9524(SA/BB)	TXV									
	BH5518	.048									
	BH5518 + HTXV2	TXV									
	BPW018	.048									
	BPW018 + TD1	.048									
	BPW018 + HTXV2	TXV									
CH5524VKC	EX*9524(SA/BB)	TXV	88	90	92	94	97	99	101	103	106
	EP*5530(BC/FC)	.056									
	EP*5530(BC/FC) + TD	.056									
	EP*5530(BC/FC) + HTXV2	.056									
	BH5524	.056									
	BH5524 + TD1	.056	SEE SYSTEM CHARGING PROCEDURE ON PAGE 6								
	BH5530	.056									
	BH5530 + TD1	.056									
	BH5530 + HTXV2 + TD1	TXV									
	BPW024 + TD1	.056									
	BPW030	.056									
	BPW030 + TD1	.056									
	BPW030 + HTXV2 + TD1	TXV									
CH5530VKC	EP*5536(BC/FC/JC)	.063	97	99	101	103	106	108	110	112	115
	EP*5536(BC/FC/JC) + HTXV3 + TD1	TXV									
	EX*9530(SA/FB)	TXV									
	EX*9536(SA/FB/JB)	TXV									
	BH5530	.063	SEE SYSTEM CHARGING PROCEDURE ON PAGE 6								
	BH5530 + TD1	.063									
	BH5536	.063									
	BH5536 + TD1	.063									
	BH5536 + HTXV3	TXV									
	BPW030	.063									
	BPW030 + TD1	.063									
	BPW036	.063									
	BPW036 + TD1	.063									
	BPW036 + HTXV3	TXV									
CH5536VKC	EP*5542(BC/FC/JC)	.070	117	119	121	123	126	128	130	132	135
	EP*5542(BC/FC/JC) + TD1	.070									
	EP*5542(BC/FC/JC)+ TD1 + HTXV3	TXV									
	EX*9536(SA/FB/JB)	TXV									
	BH5536	.070	SEE SYSTEM CHARGING PROCEDURE ON PAGE 6								
	BH5536 + HTXV3	TXV									
	BH5542	.070									
	BH5542 + TD1	.070									
	BH5542 + TD1 + HTXV3	TXV									
	BPW036	.070									
	BPW036 + HTXV3	.070									

* - A = Loose Coil, C = Cased Upflow Coil, D = Cased Downflow Coil, H = Cased Horizontal Coil.

= Installer must change indoor coil refrigerant control orifice for system match as listed. Correct orifice(s) shipped with outdoor unit.

TD1 = AMA001TDA indoor blower time delay kit required to make SEER indicated.

HTXV2 = AXB002TKA, HTXV3 = AXB003TKA, etc. Expansion Valve Accessory Kits (H denotes bi-flow).

B, F, J, N, in the coil (cased and horizontal) model numbers indicate coil cabinet width. B = 15 1/2", F = 19 1/8", J = 22 3/4", N = 26 3/8"

** Orifce Pin required shipped with outdoor unit.

System Match and Charge Data - CH55 Series (Cont.)

Outdoor Model	Indoor Model	Pin **	Total System Operating Charge / Feet Of Line In Oz.								
			10'	15'	20'	25'	30'	35'	40'	45'	50'
CH5542VKC	EPA5542FC	.073	142	145	148	151	154	157	160	163	166
	EPA5542FC + HTXV4	TXV									
	EPA5548FC + TD1 + HTXV4	TXV	SEE SYSTEM CHARGING PROCEDURE ON PAGE 6								
	EX*9542(FC/JC)	TXV									
	BH5542	.073									
	BH5542 + HTXV4	TXV									
	BH5542 + TD1 + HTXV4	TXV									
CH5548VKC	EPA5548JC	.082									
	EPA5548JC + TD1	.082									
	EPA5548JC + HTXV4	TXV									
	EPA5560JC	.082									
	EPA5560JC + HTXV4	.082									
	EP*5555NC	.082	194	197	200	203	206	209	212	215	218
	EP*5555NC + TD1	.082									
	EP*5555NC + HTXV4	TXV									
	EXA9548SB	TXV									
	BH5060	.082	SEE SYSTEM CHARGING PROCEDURE ON PAGE 6								
	BH5060 + TD1	.082									
	BH5060 + HTXV4	TXV									
CH5560VKC	EXA9560SB	TXV									
	EXA9560SA + BCM060 + TD1	TXV									
	BH5060	.093									
	BH5060 + HTXV5	TXV									

* - A = Loose Coil, C = Cased Upflow Coil, D = Cased Downflow Coil, H = Cased Horizontal Coil.
# = Installer must change indoor coil refrigerant control orifice for system match as listed. Correct orifice(s) shipped with outdoor unit.
TD1 = AMA001TDA indoor blower time delay kit required to make SEER indicated.
HTXV2 = AXB002TKA, HTXV3 = AXB003TKA, etc. Expansion Valve Accessory Kits (H denotes bi-flow).
B, F, J, N, in the coil (cased and horizontal) model numbers indicate coil cabinet width. B = 15 1/2", F = 19 1/8", J = 22 3/4", N = 26 3/8"
** Orifce Pin required shipped with outdoor unit.

V = Sweat valve models shipped with refrigerant charge for Unit, Coil & 25 ft. line.
Rated Line Size/Charge Per Foot:
1.0 - 3.0 Ton 5/16" Liquid Line - 3/4" Vapor @ .45 Oz. per Foot of Liquid Line.
3.5 - 5.0 Ton 3/8" Liquid Line - 7/8" Vapor @ .60 Oz. per Foot of Liquid Line.
For those Units not so equipped an accumulator is required after 50' of line or 12 lb. Charge.

Refrigerant Added for Field Installed Drier

Liquid Line Drier	
Size	Add Oz.
5 Cu. In.	5
8 Cu. In	8
16 Cu. In.	11
30 Cu. In.	17

System Match and Charge Data – YJ Series

Outdoor Model	Indoor Model	Pin *	Total System Operating Charge / Feet Of Line In Oz.								
			10'	15'	20'	25'	30'	35'	40'	45'	50'
YJ018GA	U(H,D)18P**	.048	74	76	78	80	83	85	87	89	92
	U(HD)24P**	.048									
	U(HD)24P** + TD1	.048									
	U(HD)24P** + HTXV2	TXV				SEE SYSTEM CHARGING PROCEDURE ON PAGE 6					
	U(H,D)24YX	TXV									
	BUHB18G	.048									
	BUHB18G + HTXV2	TXV									
	DBYNB018	.048									
	DBYNB + TD1	.048									
	DBYNB + HTXV2	TXV									
YJ024GA	U(H,D)24YX	TXV	88	90	92	94	97	99	101	103	106
	U(HD)30P**	.056									
	U(HD)30P** + TD1	.056									
	U(HD)30P** + HTXV2	.056									
	BUHB24G	.056									
	BUHB24G + TD1	.056				SEE SYSTEM CHARGING PROCEDURE ON PAGE 6					
	BUHB30G	.056									
	BUHB30G + TD1	.056									
	BUHB30G + HTXV2 + TD1	TXV									
	DBYNB024 + TD1	.056									
	DBYNB030	.056									
	DBYNB030 + TD1	.056									
	DBYNB030 + HTXV2 + TD1	TXV									
YJ030GA	U(H,D)36P**	.063	97	99	101	103	106	108	110	112	115
	U(H,D)36P** + HTXV3 + TD1	TXV									
	U(H,D)30YX	TXV									
	U(H,D)36YX	TXV									
	BUHB30G	.063				SEE SYSTEM CHARGING PROCEDURE ON PAGE 6					
	BUHB30G + TD1	.063									
	BUHB36G	.063									
	BUHB36G + TD1	.063									
	BUHB36G + HTXV3	TXV									
	DBYNB030	.063									
	DBYNB030 + TD1	.063									
	DBYNB036	.063									
	DBYNB036 + TD1	.063									
	DBYNB036 + HTXV3	TXV									
YJ036GA	U(H,D)42P**	.070	117	119	121	123	126	128	130	132	135
	U(H,D)42P** + TD1	.070									
	U(H,D)42P** + TD1 + HTXV3	TXV									
	U(H,D)36YX	TXV									
	BUHB36G	.070				SEE SYSTEM CHARGING PROCEDURE ON PAGE 6					
	BUHB36G + HTXV3	TXV									
	BUHB42G	.070									
	BUHB42G + TD1	.070									
	BUHB42G + TD1 + HTXV3	TXV									
	DBYNB036	.070									
	DBYNB036 + HTXV3	.070									

TD1 = ZAMA001TDA indoor blower time delay kit required to make SEER indicated.
HTXV3 = ZAXB003TKA, HTXV4 = ZAXB004TKA, HTXV5 = ZAXB005TKA, Expansion Valve Accessory Kits (H denotes bi-flow).
* Orifice Pin required shipped with outdoor unit.

System Match and Charge Data – YJ Series

Outdoor Model	Indoor Model	Pin *	Total System Operating Charge / Feet Of Line In Oz.								
			10'	15'	20'	25'	30'	35'	40'	45'	50'
YJ042GA	U(H,D)42P**	.073	118	121	124	127	130	133	136	139	142
	U(H,D)42P** + HTXV4	TXV	SEE SYSTEM CHARGING PROCEDURE ON PAGE 6								
	U(H,D)48P** + TD1 + HTXV4	TXV									
	U(H,D)42YX	TXV									
	BUHB42G	.073									
	BUHB42G + HTXV4	TXV									
	BUHB42G + TD1 + HTXV4	TXV									
YJ048GA	U(H,D)48P**	.082	142	145	148	151	154	157	160	163	166
	U(H,D)48P** + TD1	.082									
	U(H,D)48P** + HTXV4	TXV									
	U(H,D)58P**	.082	SEE SYSTEM CHARGING PROCEDURE ON PAGE 6								
	U(H,D)58P** + HTXV4	.082									
	U(H,D)55P**	.082									
	U(H,D)55P** + TD1	.082									
	U(H,D)55P** + HTXV4	TXV									
	U(H,D)48YX	TXV									
	BUHA60G	.082									
	BUHA60G + TD1	.082									
	BUHA60G + HTXV4	TXV									
YJ060GA	U(H,D)60YX	TXV	194	197	200	203	206	209	212	215	218
	BUHA60G	.093	SEE SYSTEM CHARGING PROCEDURE ON PAGE 6								
	BUHA60G + HTXV5	TXV									

TD1 = ZAMA001TDA indoor blower time delay kit required to make SEER indicated.
HTXV3 = ZAXB003TKA, HTXV4 = ZAXB004TKA, HTXV5 = ZAXB005TKA, Expansion Valve Accessory Kits (H denotes bi-flow).
* Orifice Pin required shipped with outdoor unit.

V = Sweat valve models shipped with refrigerant charge for Unit, Coil & 25 ft. line.
Rated Line Size/Charge Per Foot:
1.0 – 3.0 Ton 5/16" Liquid Line – 3/4" Vapor @ .45 Oz. per Foot of Liquid Line.
3.5 – 5.0 Ton 3/8" Liquid Line – 7/8" Vapor @ .60 Oz. per Foot of Liquid Line.
For those Units not so equipped an accumulator is required after 50' of line or 12 lb. Charge.

Refrigerant Added for Field Installed Drier

Liquid Line Drier	
Size	Add Oz.
5 Cu. In.	5
8 Cu. In	8
16 Cu. In.	11
30 Cu. In.	17

System Charging Procedure

NOTE: Optimum performance for systems with orifice or cap tubes is obtained with 15 – 20 °F superheat at compressor inlet under DOE "B" test conditions.

The preferred method of charging is to weigh the charge in when the correct charge is known for the system match.

SUPERHEAT MEASURED AT SERVICE VALVE			
Outdoor Temp (°F)	Indoor Conditions DB/WB (50%R.H.)		
	75 / 63	80 / 67	85 / 71
105	2–6	2–6	10–12
100	2–6	5–7	12–14
95	2–6	8–10	14–17
90	4–6	11–13	16–19
85	7–10	14–16	19–22
80	10–13	16–19	22–25
75	13–16	19–22	24–27
70	17–20	22–25	27–30
65	20–23	25–28	29–33
60	23–27	27–31	32–36
55	26–30	29–34	34–38

SATURATED TEMPERATURE – PRESSURE CHART					
(°F)	R22–PSIG	(°F)	R22–PSIG	(°F)	R22–PSIG
32	57.5	44	74.5	80	143.6
33	58.8	45	76.0	85	155.7
34	60.1	46	77.6	90	168.4
35	61.5	47	79.2	95	181.8
36	62.8	48	80.8	100	195.8
37	64.2	49	82.4	105	210.8
38	65.6	50	84.0	110	226.4
39	67.1	55	92.6	115	242.7
40	68.5	60	101.6	120	259.9
41	70.0	65	111.2	125	277.9
42	71.4	70	121.4	130	296.8
43	73.0	75	132.2	140	337.3

Systems with Orifice or Cap Tube Evaporator Coil

1. Determine required superheat from chart.
2. Measure suction line temperature 6 inches from service valve.
3. Measure suction line pressure at service valve and determine saturated suction temperature from chart.
4. Subtract saturated suction temperature from measured temperature to obtain superheat.
5. Refer to chart and adjust charge as required for correct superheat at ambient conditions.

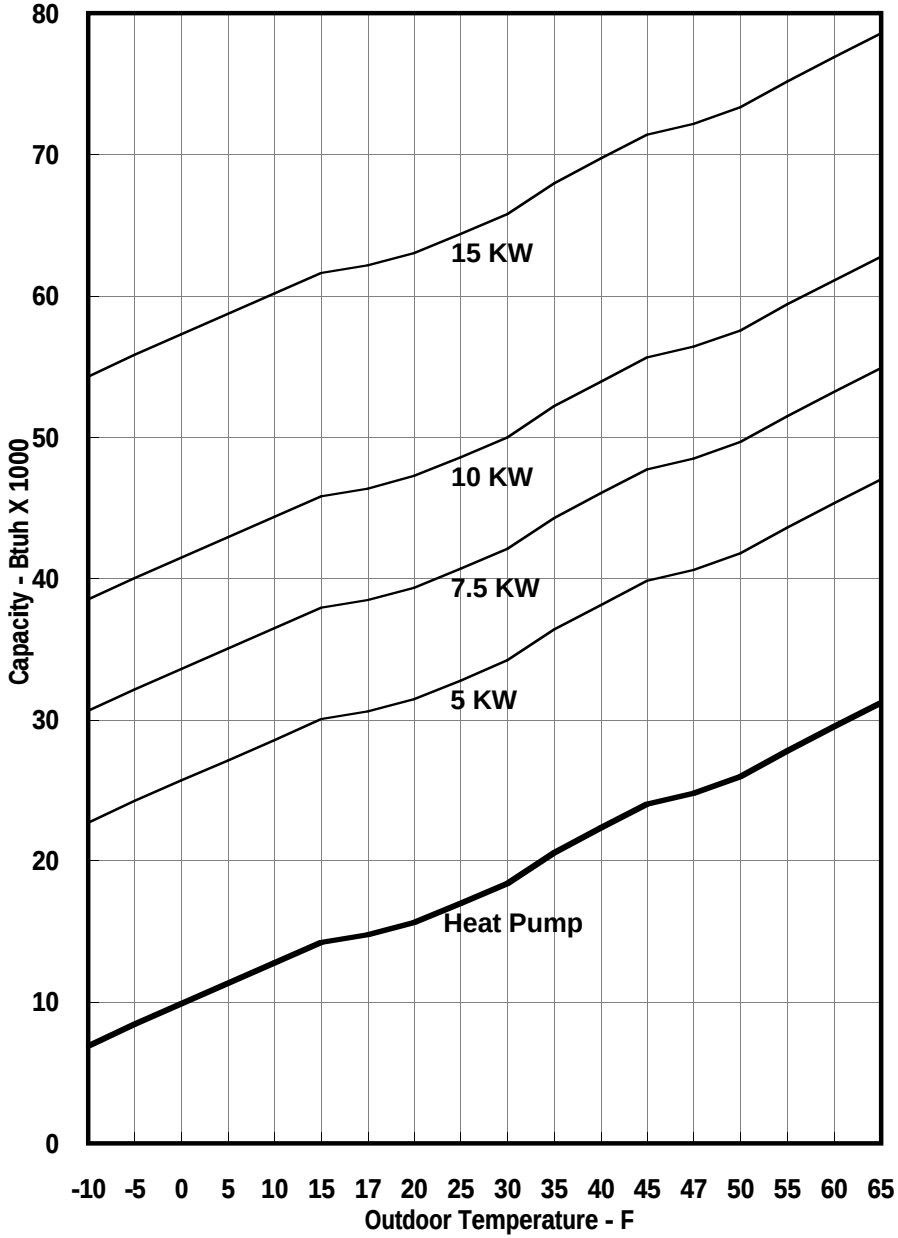
Systems with Expansion Valve controlled Evaporator Coil

1. Measure outdoor ambient, must be between 65 °F and 115 °F.
2. Measure liquid line temperature 6 inches from service valve.
3. Measure liquid line pressure at service valve and determine saturated liquid temperature from chart.
4. Subtract measured liquid line temperature from saturated liquid temperature to obtain subcooling.
5. Adjust charge as required to obtain 8 °F – 12 °F subcooling.

NOTES:

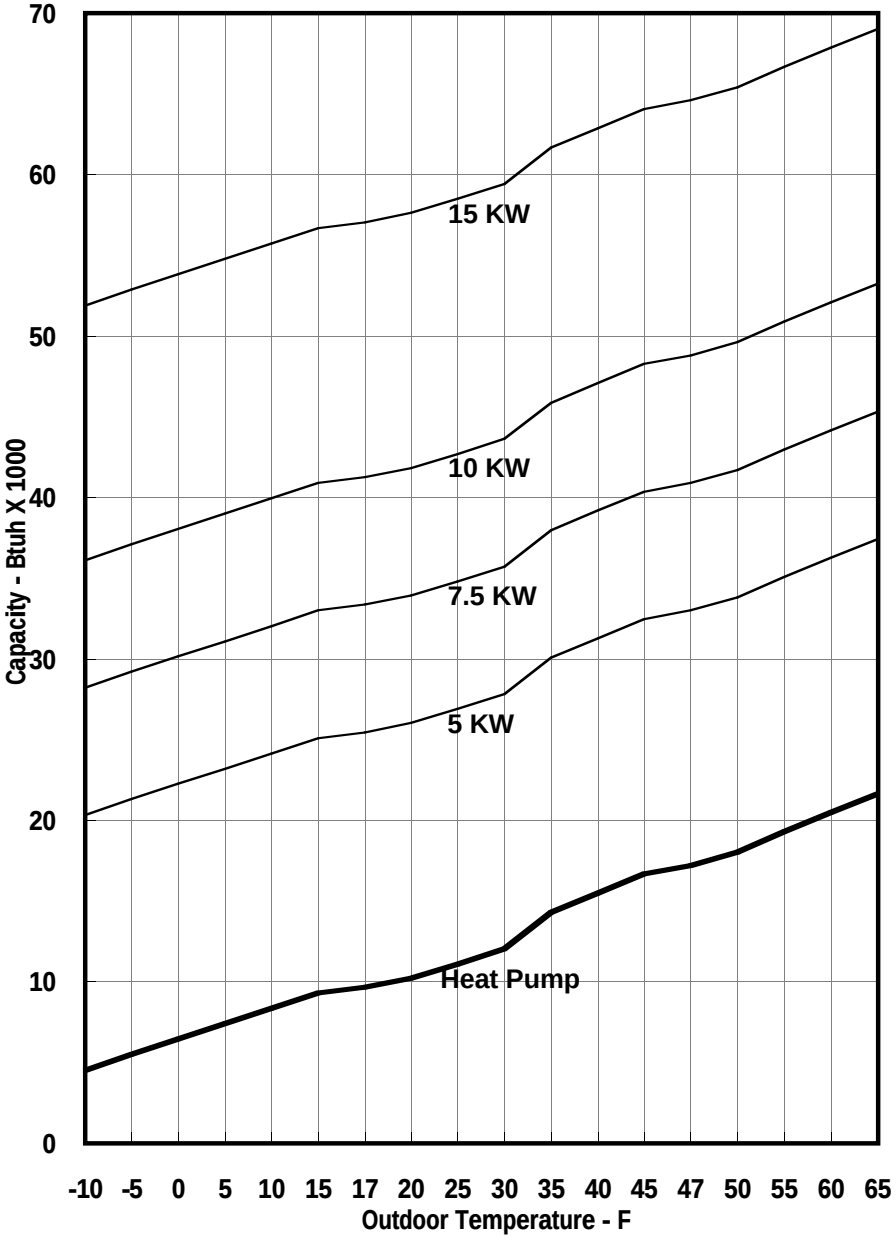
Heating Capacity Chart-2 Ton

Balance Chart Performance based on 230V Operation



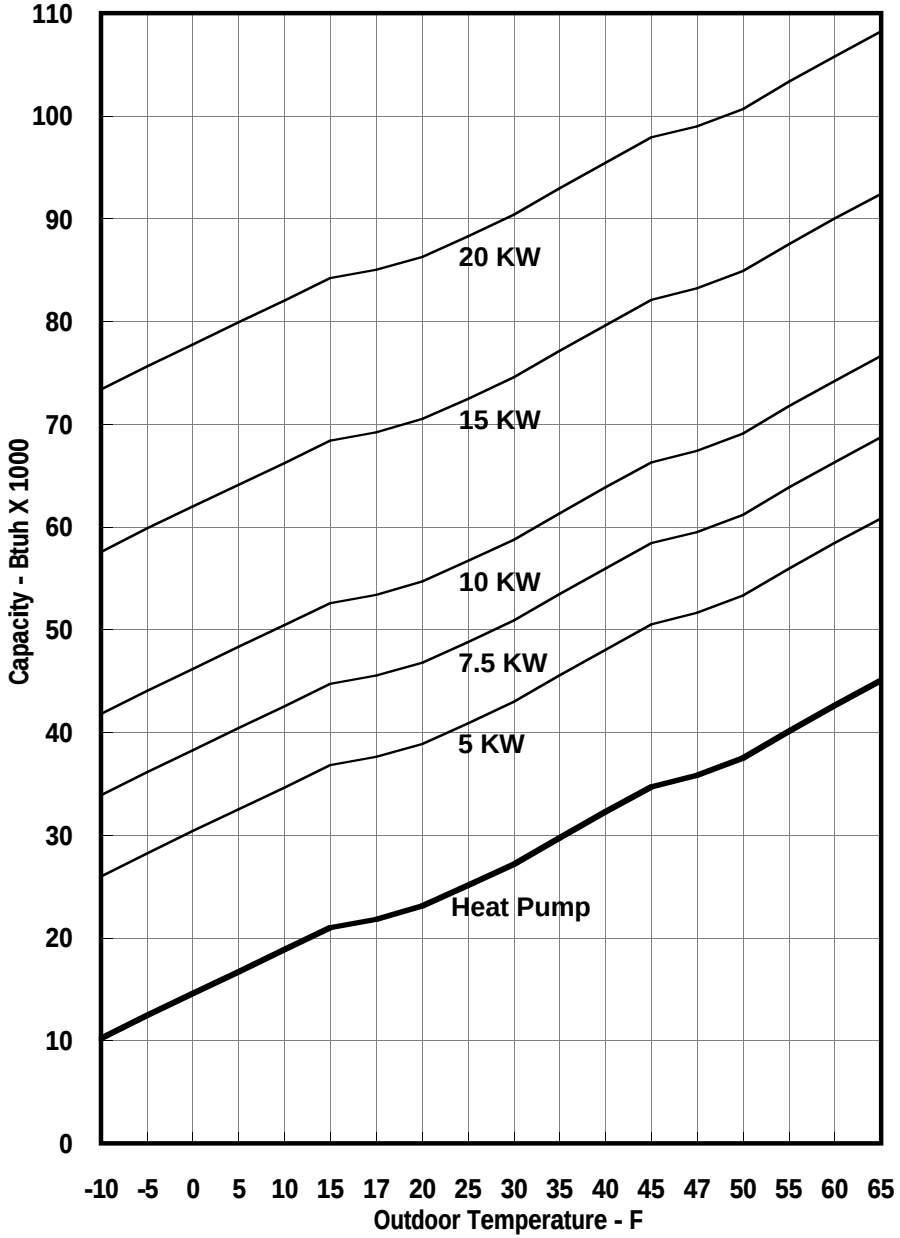
Heating Capacity Chart-1.5 Ton

Balance Chart Performance based on 230V Operation



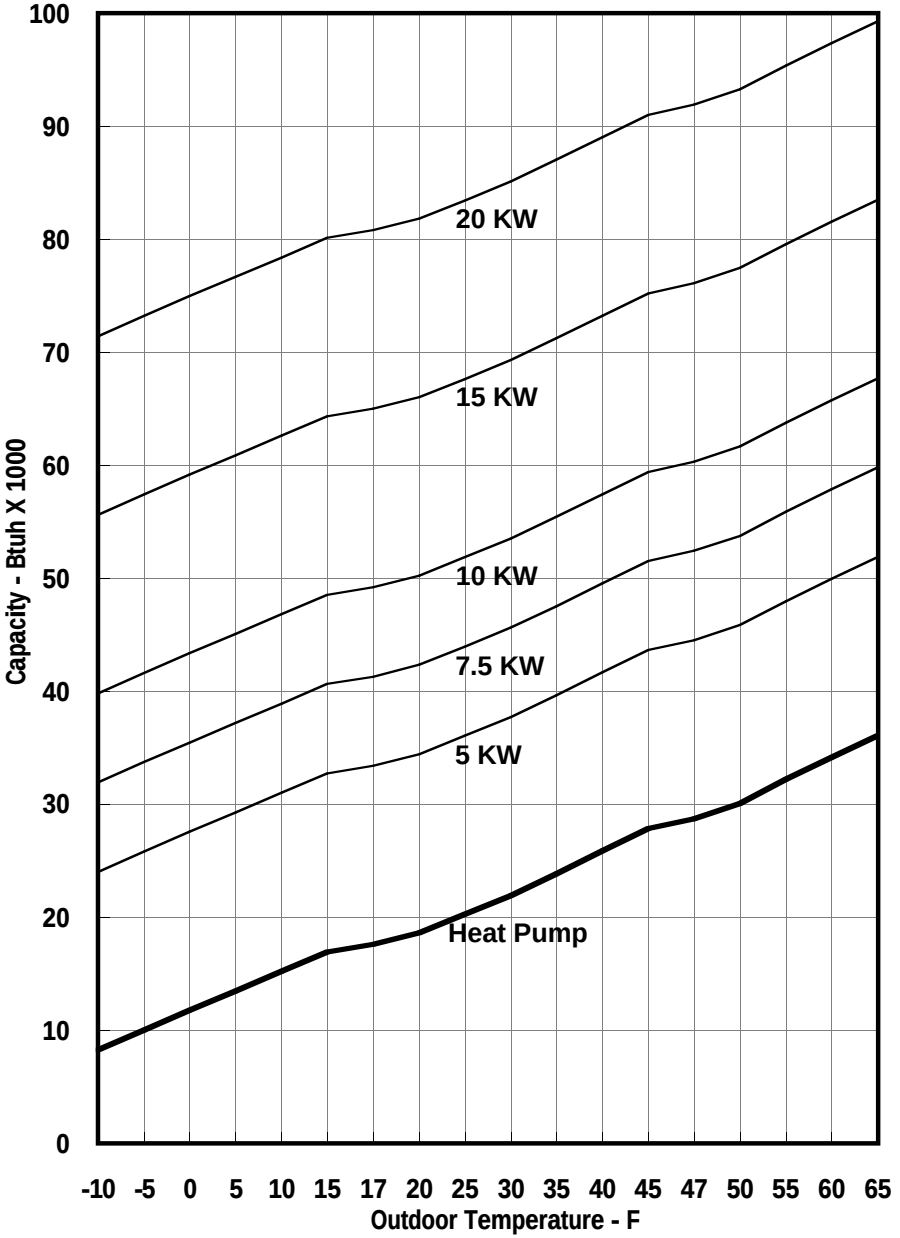
Heating Capacity Chart-3 Ton

Balance Chart Performance based on 230V Operation



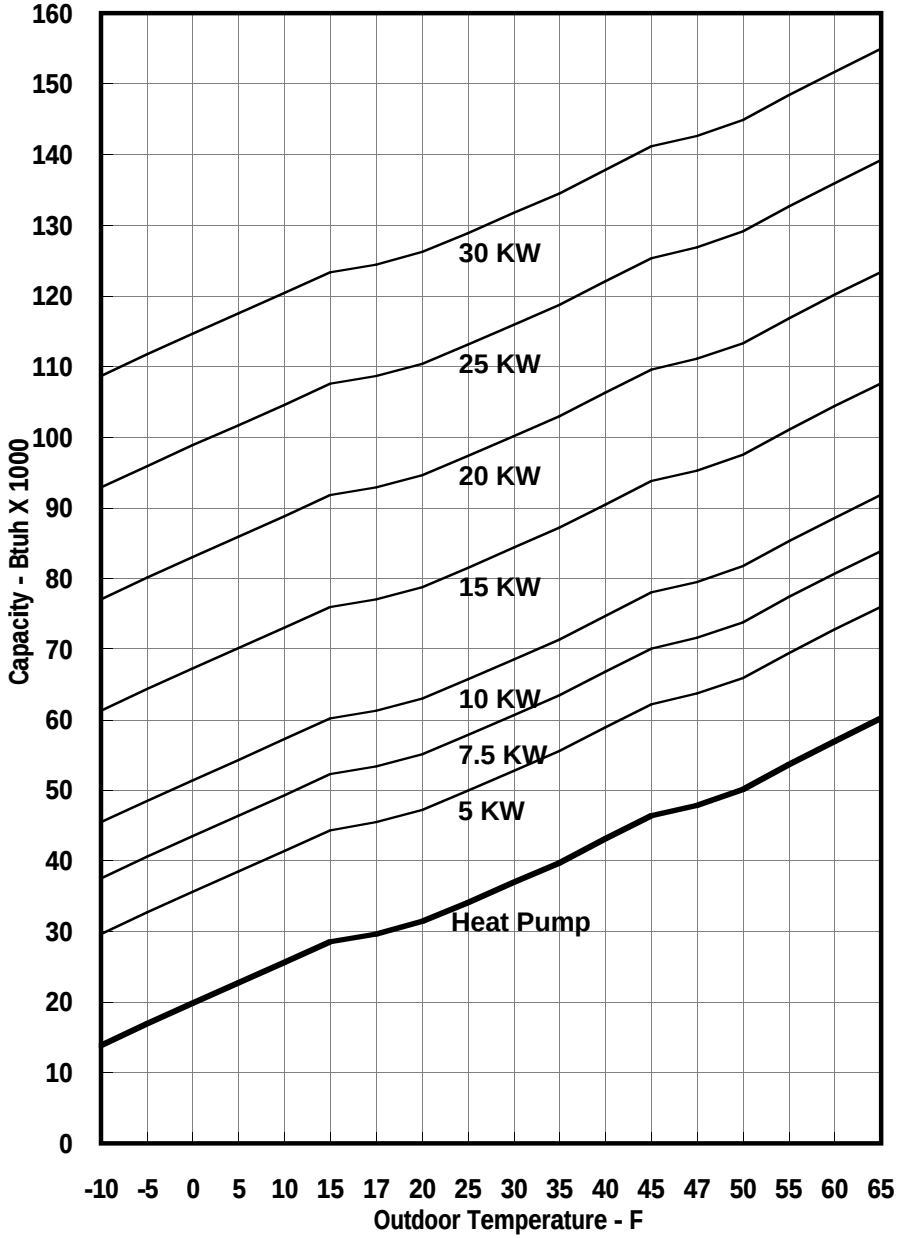
Heating Capacity Chart-2.5 Ton

Balance Chart Performance based on 230V Operation



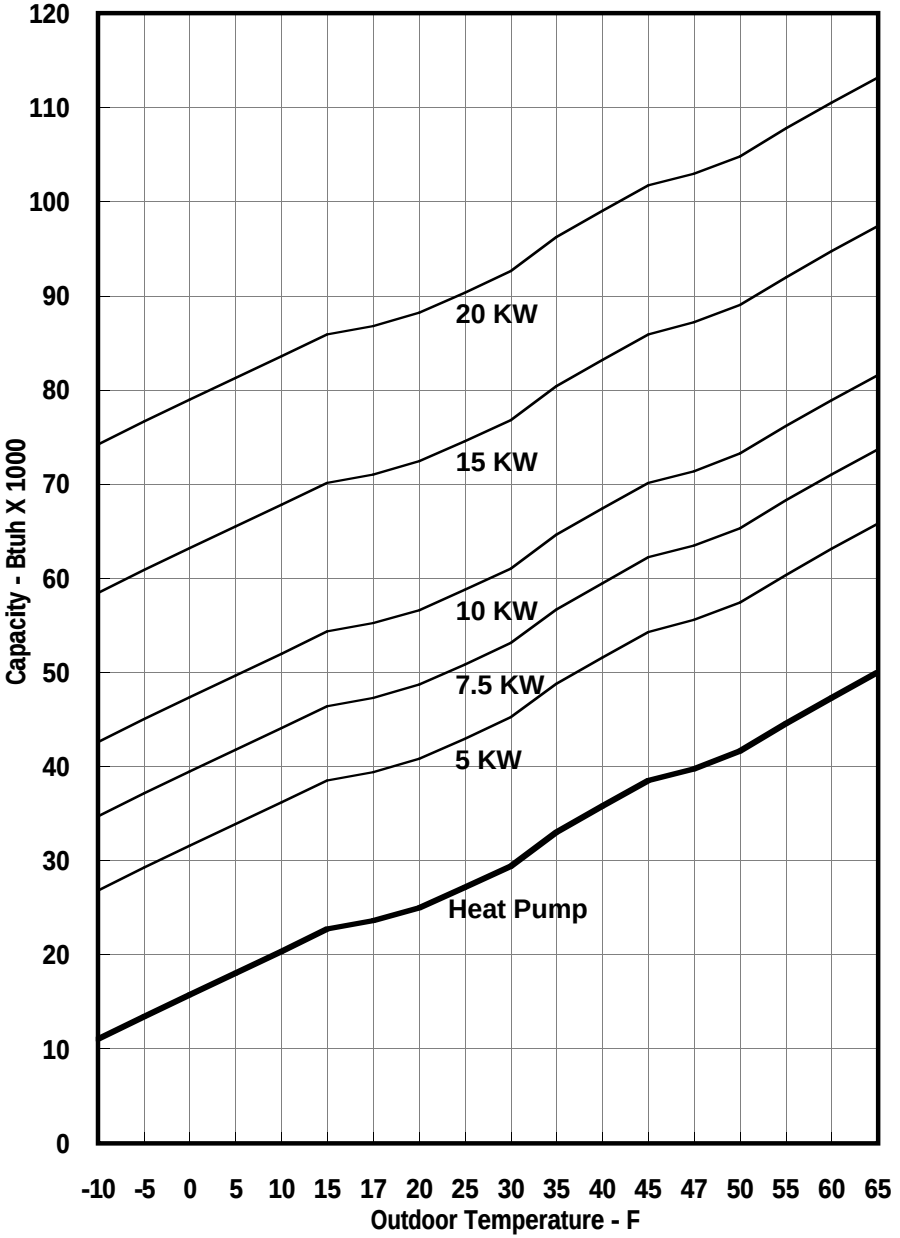
Heating Capacity Chart-4 Ton

Balance Chart Performance based on 230V Operation



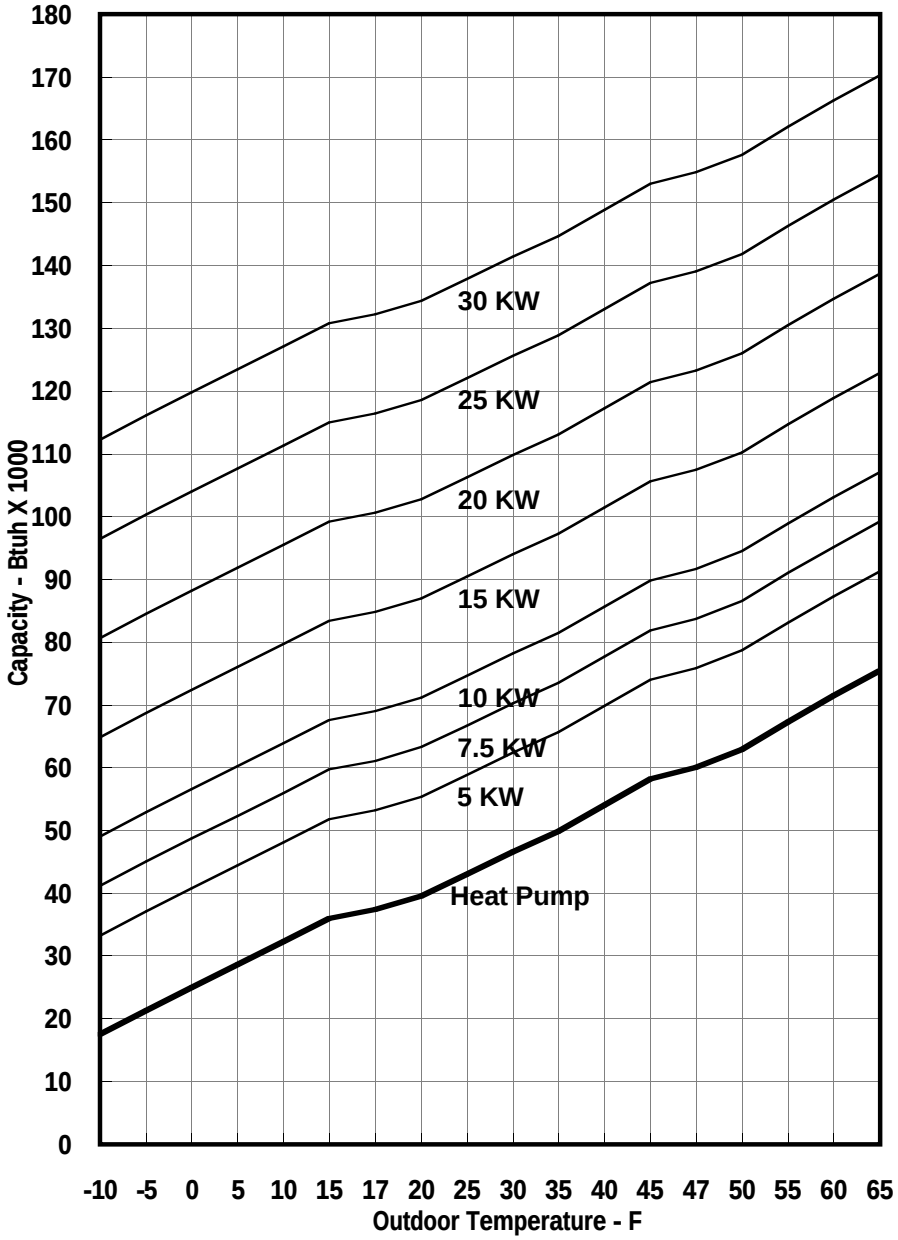
Heating Capacity Chart-3.5 Ton

Balance Chart Performance based on 230V Operation



Heating Capacity Chart-5 Ton

Balance Chart Performance based on 230V Operation



Technical Data

1 1/2 TON

Style No:	18MHD-000095ZR			Outdoor Ambient Temperature - Degrees F. Dry Bulb																			
Voltage	208-230			75				85				95				105				115			
Phase	1			Entering Indoor Temperature - Degrees F. Wet Bulb																			
Ampacity	12.7	IDB		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
Wire Ga/Ft	14		MBh	16.2	16.7	18.0	19.4	15.8	16.3	17.6	18.9	15.4	15.9	17.2	18.4	14.6	15.1	16.3	17.5	13.6	14.0	15.1	16.2
Delay Fuse	15		S/T	0.87	0.77	0.59	0.38	0.89	0.79	0.60	0.39	0.92	0.82	0.62	0.40	0.95	0.85	0.64	0.41	0.96	0.86	0.65	0.42
Max. Fuse	20	75	AMPS	5.6	5.8	6.0	6.2	6.1	6.3	6.5	6.7	6.5	6.7	6.9	7.2	7.0	7.1	7.4	7.6	7.4	7.6	7.8	8.1
Compressor	COPELAND		HI PR	180	194	205	214	205	221	233	243	233	251	265	277	263	283	298	311	290	312	330	344
RLA	9		LO PR	63	67	73	78	65	69	76	81	69	73	80	85	72	76	83	89	74	79	86	92
LRA	42		MBh	16.5	16.8	18.0	19.2	16.1	16.4	17.5	18.8	15.7	16.0	17.1	18.3	14.9	15.2	16.3	17.4	13.8	14.1	15.1	16.1
Cap MFD/V	30 / 370		S/T	0.95	0.89	0.72	0.54	0.97	0.91	0.74	0.56	1.00	0.94	0.77	0.57	1.00	0.98	0.80	0.60	1.00	0.99	0.80	0.60
CC Heater	None	80	AMPS	5.7	5.8	6.0	6.2	6.2	6.3	6.5	6.8	6.6	6.8	7.0	7.3	7.0	7.2	7.4	7.7	7.4	7.6	7.9	8.2
Start Kit	None		HI PR	182	196	207	216	207	223	235	245	236	254	268	280	265	286	302	314	293	315	333	347
Fan Motor-HP	1 / 8		LO PR	63	68	74	78	66	70	77	82	69	74	80	86	73	77	84	90	75	80	87	93
Type	PSC		MBh	16.8	17.1	17.9	19.1	16.4	16.7	17.5	18.6	16.0	16.3	17.0	18.2	15.2	15.5	16.2	17.3	14.0	14.3	15.0	16.0
FLA	0.6		S/T	1.00	0.96	0.87	0.70	1.00	0.98	0.89	0.72	1.00	1.00	0.92	0.74	1.00	1.00	0.95	0.77	1.00	1.00	0.96	0.78
LRA	1.5	85	AMPS	5.8	5.9	6.1	6.3	6.2	6.4	6.6	6.8	6.7	6.8	7.1	7.3	7.1	7.3	7.5	7.8	7.5	7.7	8.0	8.3
RPM	1120		HI PR	184	198	209	218	209	225	238	248	238	256	271	282	268	288	305	318	296	319	336	351
Cap MFD/V	5/370		LO PR	64	68	74	79	67	71	77	82	70	74	81	87	73	78	85	91	76	81	88	94

PTCR	None	Heating	Outdoor Ambient Temperature - Degrees F. Dry Bulb																	
Hi Press	NONE	IDB		65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
Low Press	0		MBh	21.6	20.5	19.3	18.0	17.2	16.7	15.5	14.3	12.0	11.1	10.2	9.7	9.3	8.3	7.4	6.4	5.5	4.5
Low Amb	None		T/R	31.8	30.1	28.3	26.5	25.3	24.5	22.8	21.0	17.7	16.3	15.0	14.2	13.7	12.3	10.9	9.5	8.1	6.6
Defrost	ElecTime-Temp		KW	1.66	1.63	1.60	1.57	1.55	1.54	1.51	1.48	1.61	1.58	1.54	1.52	1.51	1.47	1.44	1.40	1.36	1.33
Sensor	31-51	70	AMPS	7.5	7.0	6.5	6.1	5.9	5.8	5.5	5.2	5.0	4.8	4.5	4.4	4.4	4.2	3.9	3.7	3.4	3.1
Operating Chg	(R-22Oz)		COP	3.81	3.67	3.53	3.36	3.25	3.17	3.01	2.83	2.18	2.06	1.94	1.86	1.80	1.66	1.51	1.35	1.18	0.99
(25 Ft Lines)*	80		EER	13.0	12.5	12.0	11.5	11.1	10.8	10.3	9.7	7.4	7.0	6.6	6.3	6.2	5.7	5.1	4.6	4.0	3.4
Service Driers			HI PR	254	243	234	224	218	214	206	198	189	181	174	169	166	160	154	148	142	137
Liquid/Chg	5CuIn/5oz		LO PR	74	69	64	59	56	54	49	44	40	35	31	29	28	24	20	17	15	12
Suction	17SqIn	Calculated averaged performance data, for service applications for all matches.																		Part No:	
Unit Weight		*Add or Substract (Oz per Ft) for Lines: .25oz -1/4 Liq, .45oz- 5/16 Liq, .60oz - 3/8 Liq, 1.2 oz - 1/2 Liq																		**1080914**	

2 TON

Style No:	24MHD-000095ZR			Outdoor Ambient Temperature - Degrees F. Dry Bulb																			
Voltage	208-230			75				85				95				105				115			
Phase	1			Entering Indoor Temperature - Degrees F. Wet Bulb																			
Ampacity	16.3	IDB		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
Wire Ga/Ft	14		MBh	22.4	23.0	24.9	26.8	21.8	22.5	24.3	26.1	21.3	21.9	23.8	25.5	20.2	20.8	22.6	24.2	18.8	19.3	20.9	22.4
Delay Fuse	20		S/T	0.84	0.75	0.57	0.37	0.86	0.77	0.58	0.38	0.89	0.80	0.60	0.39	0.92	0.83	0.63	0.40	0.93	0.83	0.63	0.41
Max. Fuse	25	75	AMPS	8.3	8.5	8.8	9.1	9.0	9.2	9.5	9.9	9.6	9.9	10.2	10.6	10.3	10.5	10.9	11.3	10.9	11.2	11.5	12.0
Compressor	COPELAND		HI PR	187	202	213	222	213	229	242	252	243	261	276	288	273	294	310	324	302	325	343	357
RLA	11.9		LO PR	62	66	72	77	64	69	75	80	68	72	79	84	71	75	82	88	73	78	85	91
LRA	59		MBh	22.8	23.3	24.9	26.6	22.2	22.7	24.3	25.9	21.7	22.2	23.7	25.3	20.6	21.1	22.5	24.0	19.1	19.5	20.8	22.3
Cap MFD/V	35 / 370		S/T	0.92	0.87	0.70	0.53	0.95	0.89	0.72	0.54	0.98	0.92	0.75	0.56	1.00	0.95	0.77	0.58	1.00	0.96	0.78	0.58
CC Heater	None	80	AMPS	8.3	8.5	8.8	9.2	9.1	9.3	9.6	10.0	9.7	10.0	10.3	10.7	10.4	10.6	11.0	11.4	11.0	11.3	11.6	12.1
Start Kit	None		HI PR	189	204	215	224	215	232	245	255	245	264	278	290	276	297	313	327	305	328	346	361
Fan Motor-HP	1 / 8		LO PR	63	67	73	77	65	69	76	80	68	73	79	85	72	76	83	89	74	79	86	92
Type	PSC		MBh	23.2	23.6	24.7	26.4	22.6	23.1	24.2	25.8	22.1	22.5	23.6	25.1	21.0	21.4	22.4	23.9	19.4	19.8	20.7	22.1
FLA	0.6		S/T	0.97	0.93	0.84	0.68	0.99	0.96	0.86	0.70	1.00	0.99	0.89	0.72	1.00	1.00	0.93	0.75	1.00	1.00	0.93	0.76
LRA	1.5	85	AMPS	8.4	8.6	8.9	9.3	9.2	9.4	9.7	10.1	9.8	10.1	10.4	10.8	10.5	10.7	11.1	11.5	11.1	11.4	11.8	12.2
RPM	1120		HI PR	191	206	217	226	217	234	247	258	248	266	281	293	278	300	316	330	308	331	350	365
Cap MFD/V	5/370		LO PR	63	67	73	78	66	70	76	81	69	73	80	85	72	77	84	89	75	80	87	93

PTCR	None	Heating	Outdoor Ambient Temperature - Degrees F. Dry Bulb																	
Hi Press	NONE	IDB		65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
Low Press	0		MBh	31.1	29.5	27.8	25.9	24.8	24.0	22.3	20.6	18.4	17.0	15.6	14.8	14.2	12.7	11.3	9.9	8.4	6.9
Low Amb	None		T/R	36.1	34.1	32.2	30.0	28.7	27.8	25.8	23.8	21.3	19.6	18.1	17.1	16.4	14.8	13.1	11.4	9.7	8.0
Defrost	ElecTime-Temp		KW	2.30	2.25	2.21	2.16	2.14	2.12	2.08	2.03	2.08	2.03	1.99	1.96	1.94	1.89	1.85	1.80	1.75	1.71
Sensor	31-51	70	AMPS	11.2	10.4	9.7	9.1	8.8	8.6	8.1	7.7	7.3	7.0	6.7	6.5	6.4	6.1	5.7	5.3	4.9	4.4
Operating Chg	(R-22Oz)		COP	3.97	3.83	3.68	3.51	3.39	3.32	3.14	2.96	2.58	2.44	2.30	2.20	2.14	1.97	1.79	1.60	1.40	1.18
(25 Ft Lines)*	94		EER	13.6	13.1	12.6	12.0	11.6	11.3	10.7	10.1	8.8	8.3	7.9	7.5	7.3	6.7	6.1	5.5	4.8	4.0
Service Driers			HI PR	250	240	231	221	215	211	203	195	187	178	171	167	164	158	152	146	140	135
Liquid/Chg	5CuIn/5oz		LO PR	73	68	63	58	55	53	49	43	39	35	31	29	27	23	20	17	15	12
Suction	17SqIn	Calculated averaged performance data, for service applications for all matches.																		Part No:	
Unit Weight		*Add or Substract (Oz per Ft) for Lines: .25oz -1/4 Liq, .45oz- 5/16 Liq, .60oz - 3/8 Liq, 1.2 oz - 1/2 Liq																		**1080915**	

Technical Data

2 1/2 TON

Style No:	30MHD-000095ZR			Outdoor Ambient Temperature - Degrees F. Dry Bulb																			
Voltage	208-230			75				85				95				105				115			
Phase	1			Entering Indoor Temperature - Degrees F. Wet Bulb																			
Ampacity	18.9	IDB		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
Wire Ga/Ft	14/27	75	MBh	26.7	27.5	29.8	31.9	26.1	26.8	29.1	31.2	25.4	26.2	28.3	30.4	24.2	24.9	26.9	28.9	22.4	23.0	24.9	26.8
Delay Fuse	25		S/T	0.86	0.76	0.58	0.37	0.88	0.78	0.59	0.38	0.91	0.81	0.61	0.39	0.94	0.84	0.64	0.41	0.95	0.85	0.64	0.41
Max. Fuse	30		AMPS	9.1	9.3	9.6	10.0	9.9	10.1	10.5	10.9	10.6	10.8	11.2	11.6	11.2	11.5	11.9	12.3	11.9	12.2	12.6	13.1
Compressor	COPELAND		HI PR	179	192	203	212	203	219	231	241	232	249	263	274	261	280	296	309	288	310	327	341
RLA	14.1		LO PR	62	66	72	76	64	68	75	79	67	72	78	83	71	75	82	87	73	78	85	90
LRA	73	80	MBh	27.2	27.8	29.7	31.7	26.5	27.1	29.0	31.0	25.9	26.5	28.3	30.2	24.6	25.1	26.8	28.7	22.8	23.3	24.9	26.6
Cap MFD/V	35/370		S/T	0.94	0.88	0.72	0.54	0.96	0.90	0.73	0.55	0.99	0.93	0.76	0.57	1.00	0.97	0.79	0.59	1.00	0.97	0.79	0.59
CC Heater	None		AMPS	9.2	9.4	9.7	10.1	10.0	10.2	10.6	11.0	10.7	10.9	11.3	11.7	11.3	11.6	12.0	12.5	12.0	12.3	12.7	13.2
Start Kit	None		HI PR	181	194	205	214	205	221	233	243	234	252	266	277	263	283	299	312	291	313	330	345
Fan Motor-HP	1 / 3		LO PR	62	66	72	77	65	69	75	80	68	72	79	84	71	76	83	88	74	79	86	91
Type	PSC	85	MBh	27.7	28.2	29.5	31.5	27.0	27.5	28.8	30.8	26.3	26.8	28.1	30.0	25.0	25.5	26.7	28.5	23.2	23.6	24.7	26.4
FLA	1.3		S/T	0.98	0.95	0.86	0.69	1.00	0.97	0.88	0.71	1.00	1.00	0.91	0.74	1.00	1.00	0.94	0.76	1.00	1.00	0.95	0.77
LRA	3.56		AMPS	9.3	9.5	9.8	10.2	10.1	10.3	10.7	11.1	10.8	11.0	11.4	11.8	11.4	11.7	12.1	12.6	12.1	12.4	12.8	13.3
RPM	1100		HI PR	182	196	207	216	207	223	236	246	236	254	268	280	266	286	302	315	294	316	334	348
Cap MFD/V	5/370		LO PR	63	67	73	78	65	70	76	81	69	73	80	85	72	77	84	89	75	79	87	92

PTCR	None	Heating		Outdoor Ambient Temperature - Degrees F. Dry Bulb																	
Hi Press	NONE	IDB		65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
Low Press	0 PSIG	70	MBh	36.1	34.2	32.2	30.1	28.7	27.8	25.8	23.8	21.9	20.2	18.6	17.6	16.9	15.2	13.5	11.8	10.0	8.2
Low Amb	None		T/R	33.4	31.6	29.8	27.8	26.6	25.8	23.9	22.1	20.3	18.7	17.3	16.3	15.7	14.1	12.5	10.9	9.3	7.6
Defrost	ElecTime-Temp		KW	2.77	2.71	2.66	2.61	2.58	2.56	2.50	2.45	2.46	2.41	2.35	2.32	2.30	2.25	2.19	2.14	2.09	2.03
Sensor	31-51		AMPS	12.2	11.3	10.6	10.0	9.6	9.4	8.9	8.5	8.1	7.8	7.4	7.2	7.1	6.8	6.3	6.0	5.5	5.0
Operating Chg	(R-22Oz)		COP	3.82	3.68	3.54	3.37	3.26	3.19	3.02	2.84	2.60	2.46	2.32	2.22	2.15	1.98	1.80	1.61	1.41	1.18
(25 Ft Lines)*	103		EER	13.0	12.6	12.1	11.5	11.1	10.9	10.3	9.7	8.9	8.4	7.9	7.6	7.4	6.8	6.1	5.5	4.8	4.0
Service Driers			HI PR	241	231	222	212	207	203	195	187	180	171	165	161	158	152	146	140	135	130
Liquid/Chg	8CuIn/7oz		LO PR	71	66	61	56	53	51	47	42	38	34	30	28	27	23	19	16	14	11
Suction	30SqIn	Calculated averaged performance data, for service applications for all matches.																		Part No:	
Unit Weight		*Add or Substract (Oz per Ft) for Lines: .25oz -1/4 Liq, .45oz- 5/16 Liq, .60oz - 3/8 Liq, 1.2 oz - 1/2 Liq																		**1080916**	

3 TON

Style No:	36MHD-000095ZR			Outdoor Ambient Temperature - Degrees F. Dry Bulb																			
Voltage	208-230			75				85				95				105				115			
Phase	1			Entering Indoor Temperature - Degrees F. Wet Bulb																			
Ampacity	21.3	IDB		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
Wire Ga/Ft	12/32	75	MBh	33.2	34.1	37.0	39.7	32.4	33.3	36.1	38.7	31.6	32.5	35.2	37.8	30.0	30.9	33.4	35.9	27.8	28.6	31.0	33.2
Delay Fuse	30		S/T	0.80	0.72	0.54	0.35	0.82	0.74	0.56	0.36	0.85	0.76	0.57	0.37	0.88	0.79	0.60	0.38	0.89	0.79	0.60	0.39
Max. Fuse	35		AMPS	13.0	13.3	13.7	14.3	14.1	14.5	14.9	15.5	15.1	15.5	16.0	16.6	16.1	16.5	17.0	17.7	17.1	17.5	18.1	18.8
Compressor	COPELAND		HI PR	187	201	212	221	212	228	241	252	242	260	275	286	272	293	309	322	300	323	341	356
RLA	16		LO PR	60	64	69	74	62	66	72	77	65	69	76	81	68	73	79	85	71	75	82	88
LRA	100	80	MBh	33.8	34.5	36.8	39.4	32.9	33.7	36.0	38.4	32.1	32.8	35.1	37.5	30.5	31.2	33.3	35.6	28.3	28.9	30.9	33.0
Cap MFD/V	40/440		S/T	0.88	0.83	0.67	0.50	0.90	0.85	0.69	0.51	0.93	0.87	0.71	0.53	0.97	0.91	0.74	0.55	0.97	0.91	0.74	0.56
CC Heater	None		AMPS	13.1	13.4	13.9	14.4	14.2	14.6	15.1	15.7	15.2	15.6	16.1	16.8	16.2	16.6	17.2	17.9	17.2	17.6	18.3	19.0
Start Kit	None		HI PR	188	203	214	223	214	231	244	254	244	263	277	289	275	296	312	326	303	327	345	360
Fan Motor-HP	1 / 3		LO PR	60	64	70	75	63	67	73	78	66	70	77	82	69	74	80	85	71	76	83	88
Type	PSC	85	MBh	34.3	35.0	36.7	39.1	33.5	34.2	35.8	38.2	32.7	33.3	34.9	37.2	31.1	31.7	33.2	35.4	28.8	29.3	30.7	32.8
FLA	1.3		S/T	0.92	0.89	0.80	0.65	0.95	0.91	0.82	0.67	0.98	0.94	0.85	0.69	1.00	0.98	0.88	0.72	1.00	0.99	0.89	0.72
LRA	3.56		AMPS	13.2	13.5	14.0	14.5	14.4	14.7	15.2	15.8	15.4	15.8	16.3	16.9	16.4	16.8	17.4	18.0	17.4	17.8	18.4	19.1
RPM	1100		HI PR	190	205	216	226	216	233	246	257	247	265	280	292	277	299	315	329	306	330	348	363
Cap MFD/V	5/370		LO PR	61	65	71	75	63	67	74	78	67	71	77	82	70	74	81	86	72	77	84	89

PTCR	None	Heating		Outdoor Ambient Temperature - Degrees F. Dry Bulb																	
Hi Press	NONE	IDB		65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
Low Press	0 PSIG	70	MBh	45.0	42.6	40.1	37.5	35.8	34.7	32.2	29.7	27.2	25.1	23.1	21.8	21.0	18.8	16.7	14.6	12.4	10.2
Low Amb	None		T/R	35.3	33.4	31.5	29.4	28.1	27.2	25.3	23.3	21.3	19.7	18.1	17.1	16.5	14.8	13.1	11.4	9.8	8.0
Defrost	ElecTime-Temp		KW	3.37	3.30	3.24	3.18	3.14	3.11	3.05	2.99	3.05	2.98	2.92	2.88	2.85	2.78	2.72	2.65	2.58	2.52
Sensor	31-51		AMPS	17.2	15.9	14.8	14.0	13.4	13.2	12.4	11.8	11.3	10.8	10.2	10.0	9.8	9.3	8.7	8.2	7.5	6.8
Operating Chg	(R-22Oz)		COP	3.91	3.77	3.62	3.45	3.34	3.26	3.09	2.91	2.61	2.46	2.32	2.22	2.16	1.98	1.80	1.61	1.41	1.18
(25 Ft Lines)*	123		EER	13.4	12.9	12.4	11.8	11.4	11.1	10.6	9.9	8.9	8.4	7.9	7.6	7.4	6.8	6.1	5.5	4.8	4.0
Service Driers			HI PR	252	242	232	222	217	213	205	196	188	180	172	168	165	159	153	147	141	136
Liquid/Chg	16CuIn/11oz		LO PR	69	64	60	55	52	50	46	41	37	33	29	27	26	22	19	16	14	11
Suction	30SqIn	Calculated averaged performance data, for service applications for all matches.																		Part No:	
Unit Weight		*Add or Substract (Oz per Ft) for Lines: .25oz -1/4 Liq, .45oz- 5/16 Liq, .60oz - 3/8 Liq, 1.2 oz - 1/2 Liq																		**1080917**	

Technical Data

3 1/2 TON

Style No:	42MHD-000095ZR			Outdoor Ambient Temperature - Degrees F. Dry Bulb																			
Voltage	208-230			75				85				95				105				115			
Phase	1			Entering Indoor Temperature - Degrees F. Wet Bulb																			
Ampacity	24.5	IDB		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
Wire Ga/Ft	12/26	26	MBh	38.0	39.1	42.3	45.4	37.1	38.2	41.3	44.3	36.2	37.2	40.3	43.2	34.3	35.4	38.3	41.1	31.8	32.8	35.5	38.1
Delay Fuse	30		S/T	0.81	0.73	0.55	0.35	0.83	0.75	0.56	0.36	0.86	0.77	0.58	0.37	0.89	0.80	0.60	0.39	0.90	0.81	0.61	0.39
Max. Fuse	40	75	AMPS	16.9	17.3	17.9	18.6	18.4	18.9	19.5	20.3	19.7	20.2	20.9	21.7	21.0	21.5	22.3	23.2	22.3	22.9	23.7	24.6
Compressor	COPELAND		HI PR	187	202	213	222	213	229	242	253	243	261	276	288	273	294	310	324	302	325	343	358
RLA	18.6		LO PR	59	63	69	73	61	65	71	76	65	69	75	80	68	72	79	84	70	74	81	87
LRA	127		MBh	38.6	39.5	42.2	45.1	37.7	38.5	41.2	44.0	36.8	37.6	40.2	42.9	35.0	35.7	38.2	40.8	32.4	33.1	35.3	37.8
Cap MFD/V	40/440		S/T	0.89	0.84	0.68	0.51	0.91	0.86	0.70	0.52	0.94	0.88	0.72	0.54	0.98	0.92	0.75	0.56	0.99	0.93	0.75	0.56
CC Heater	None	80	AMPS	17.1	17.5	18.1	18.8	18.6	19.0	19.7	20.5	19.9	20.4	21.1	21.9	21.2	21.8	22.5	23.4	22.5	23.1	23.9	24.8
Start Kit	None		HI PR	189	204	215	224	215	232	245	255	245	264	279	291	276	297	313	327	305	328	346	361
Fan Motor-HP	1 / 3		LO PR	60	64	69	74	62	66	72	77	65	69	76	81	68	73	79	84	71	75	82	87
Type	PSC		MBh	39.3	40.1	42.0	44.8	38.4	39.1	41.0	43.7	37.4	38.2	40.0	42.6	35.6	36.3	38.0	40.5	32.9	33.6	35.2	37.5
FLA	1.3		S/T	0.93	0.90	0.81	0.66	0.96	0.92	0.83	0.68	0.99	0.95	0.86	0.70	1.00	0.99	0.89	0.73	1.00	1.00	0.90	0.73
LRA	3.56	85	AMPS	17.2	17.6	18.2	19.0	18.8	19.2	19.9	20.7	20.1	20.6	21.3	22.1	21.4	22.0	22.7	23.6	22.7	23.3	24.1	25.1
RPM	1100		HI PR	191	206	217	227	217	234	247	258	248	266	281	293	279	300	317	330	308	331	350	365
Cap MFD/V	5/370		LO PR	60	64	70	75	63	67	73	78	66	70	76	81	69	73	80	85	71	76	83	88

PTCR	None	Heating		Outdoor Ambient Temperature - Degrees F. Dry Bulb																	
Hi Press	NONE	IDB		65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
Low Press	0 PSIG		MBh	50.0	47.3	44.6	41.6	39.8	38.5	35.8	33.0	29.4	27.1	25.0	23.6	22.7	20.4	18.1	15.8	13.5	11.0
Low Amb	None		T/R	34.3	32.4	30.6	28.5	27.3	26.4	24.5	22.6	20.2	18.6	17.1	16.2	15.6	14.0	12.4	10.8	9.2	7.6
Defrost	ElecTime-Temp		KW	3.88	3.81	3.73	3.66	3.62	3.59	3.51	3.44	3.56	3.48	3.40	3.36	3.33	3.25	3.17	3.09	3.01	2.93
Sensor	31-51	70	AMPS	24.0	22.2	20.8	19.5	18.8	18.4	17.3	16.4	15.7	14.9	14.2	13.9	13.7	12.9	12.0	11.3	10.4	9.3
Operating Chg	(R-22Oz)		COP	3.77	3.64	3.49	3.33	3.22	3.14	2.98	2.81	2.42	2.28	2.15	2.06	2.00	1.84	1.67	1.49	1.31	1.10
(25 Ft Lines)*	127		EER	12.9	12.4	11.9	11.4	11.0	10.7	10.2	9.6	8.3	7.8	7.3	7.0	6.8	6.3	5.7	5.1	4.5	3.8
Service Driers			HI PR	241	231	222	212	207	203	195	188	180	172	165	161	158	152	146	140	135	130
Liquid/Chg	16CuIn/11oz		LO PR	64	60	56	51	48	47	43	38	34	31	27	25	24	20	18	15	13	10
Suction	30SqIn	Calculated averaged performance data, for service applications for all matches.																		Part No:	
Unit Weight		*Add or Substract (Oz per Ft) for Lines: .25oz -1/4 Liq, .45oz- 5/16 Liq, .60oz - 3/8 Liq, 1.2 oz - 1/2 Liq																		**1080918**	

4 TON

Style No:	48MHD-000095ZR			Outdoor Ambient Temperature - Degrees F. Dry Bulb																			
Voltage	208-230			75				85				95				105				115			
Phase	1			Entering Indoor Temperature - Degrees F. Wet Bulb																			
Ampacity	28.6	IDB		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
Wire Ga/Ft	10/40		MBh	43.9	45.2	48.9	52.5	42.8	44.1	47.7	51.2	41.8	43.0	46.6	50.0	39.7	40.9	44.3	47.5	36.8	37.9	41.0	44.0
Delay Fuse	35		S/T	0.87	0.78	0.59	0.38	0.89	0.80	0.61	0.39	0.92	0.83	0.63	0.40	0.96	0.86	0.65	0.42	0.97	0.86	0.65	0.42
Max. Fuse	50	75	AMPS	16.6	17.1	17.6	18.3	18.1	18.5	19.2	19.9	19.4	19.8	20.5	21.3	20.6	21.1	21.8	22.7	21.9	22.4	23.2	24.1
Compressor	COPELAND		HI PR	174	188	198	207	198	213	225	235	226	243	257	268	254	273	289	301	281	302	319	333
RLA	21.8		LO PR	59	63	69	73	62	66	72	76	65	69	75	80	68	72	79	84	70	75	82	87
LRA	131		MBh	44.7	45.6	48.8	52.1	43.6	44.6	47.6	50.9	42.5	43.5	46.4	49.6	40.4	41.3	44.1	47.2	37.4	38.3	40.9	43.7
Cap MFD/V	40/370		S/T	0.96	0.90	0.73	0.55	0.98	0.92	0.75	0.56	1.00	0.95	0.77	0.58	1.00	0.99	0.80	0.60	1.00	0.99	0.81	0.60
CC Heater	None	80	AMPS	16.8	17.2	17.8	18.5	18.3	18.7	19.3	20.1	19.5	20.0	20.7	21.5	20.8	21.3	22.1	22.9	22.1	22.6	23.4	24.3
Start Kit	None		HI PR	176	190	200	209	200	216	228	237	228	245	259	270	257	276	292	304	284	305	322	336
Fan Motor-HP	1 / 4		LO PR	60	64	70	74	62	66	72	77	65	70	76	81	69	73	80	85	71	76	82	88
Type	PSC		MBh	45.5	46.3	48.5	51.8	44.4	45.2	47.4	50.5	43.3	44.1	46.2	49.3	41.1	41.9	43.9	46.8	38.1	38.8	40.7	43.4
FLA	1.4		S/T	1.00	0.97	0.87	0.71	1.00	0.99	0.90	0.73	1.00	1.00	0.92	0.75	1.00	1.00	0.96	0.78	1.00	1.00	0.97	0.79
LRA	3.24	85	AMPS	17.0	17.4	17.9	18.6	18.4	18.9	19.5	20.3	19.7	20.2	20.9	21.7	21.0	21.5	22.3	23.1	22.3	22.8	23.6	24.5
RPM	840		HI PR	178	191	202	211	202	218	230	240	230	248	262	273	259	279	295	307	286	308	325	339
Cap MFD/V	5/370		LO PR	61	64	70	75	63	67	73	78	66	70	77	82	69	74	81	86	72	76	83	89

PTCR	None	Heating		Outdoor Ambient Temperature - Degrees F. Dry Bulb																	
Hi Press	NONE	IDB		65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
Low Press	0 PSIG		MBh	60.1	56.9	53.6	50.1	47.8	46.4	43.1	39.7	36.9	34.1	31.4	29.6	28.5	25.6	22.7	19.8	16.9	13.8
Low Amb	None		T/R	34.8	32.9	31.0	29.0	27.7	26.8	24.9	23.0	21.4	19.7	18.2	17.1	16.5	14.8	13.1	11.5	9.8	8.0
Defrost	ElecTime-Temp		KW	4.42	4.34	4.25	4.17	4.12	4.09	4.01	3.92	3.97	3.88	3.79	3.74	3.71	3.62	3.53	3.45	3.36	3.27
Sensor	31-51	70	AMPS	23.2	21.4	20.1	18.9	18.2	17.8	16.8	15.9	15.2	14.5	13.8	13.5	13.3	12.6	11.8	11.1	10.2	9.2
Operating Chg	(R-22Oz)		COP	3.98	3.84	3.69	3.51	3.40	3.32	3.14	2.96	2.72	2.57	2.42	2.32	2.25	2.07	1.88	1.68	1.47	1.24
(25 Ft Lines)*	151		EER	13.6	13.1	12.6	12.0	11.6	11.3	10.7	10.1	9.3	8.8	8.3	7.9	7.7	7.1	6.4	5.7	5.0	4.2
Service Driers			HI PR	241	231	222	212	207	203	195	187	179	171	165	161	158	152	146	140	135	130
Liquid/Chg	30CuIn/17oz		LO PR	67	62	59	54	51	49	45	40	36	32	28	26	25	21	19	16	14	11
Suction	30SqIn	Calculated averaged performance data, for service applications for all matches.																		Part No:	
Unit Weight		*Add or Substract (Oz per Ft) for Lines: .25oz -1/4 Liq, .45oz- 5/16 Liq, .60oz - 3/8 Liq, 1.2 oz - 1/2 Liq																		**1080919**	

Technical Data

5 TON

Style No:	60MHD-000095ZR
Voltage	208-230
Phase	1
Ampacity	35.2
Wire Ga/Ft	8/49
Delay Fuse	45
Max. Fuse	60
Compressor	COPELAND
RLA	27.1
LRA	172
Cap MFD/V	60/370
CC Heater	None
Start Kit	None
Fan Motor-HP	1 / 4
Type	PSC
FLA	1.4
LRA	3.24
RPM	840
Cap MFD/V	5/370
PTCR	None
Hi Press	NONE
Low Press	0 PSIG
Low Amb	None
Defrost	ElecTime-Temp
Sensor	31-51
Operating Chg	(R-22Oz)
(25 Ft Lines)*	203
Service Driers	
Liquid/Chg	30CuIn/17oz
Suction	30SqIn
Unit Weight	

Outdoor Ambient Temperature - Degrees F. Dry Bulb

IDB		75				85				95				105				115			
		Entering Indoor Temperature - Degrees F. Wet Bulb																			
		59	**63**	**67**	**71**	**59**	**63**	**67**	**71**	**59**	**63**	**67**	**71**	**59**	**63**	**67**	**71**	**59**	**63**	**67**	**71**
75	**MBh**	54.8	56.4	61.1	65.6	53.5	55.1	59.6	64.0	52.2	53.7	58.2	62.4	49.6	51.1	55.3	59.3	45.9	47.3	51.2	54.9
	S/T	0.81	0.73	0.55	0.35	0.83	0.75	0.56	0.36	0.86	0.77	0.58	0.37	0.89	0.80	0.60	0.39	0.90	0.81	0.61	0.39
	AMPS	22.7	23.2	24.0	25.0	24.7	25.3	26.2	27.2	26.5	27.1	28.1	29.2	28.2	29.0	30.0	31.1	30.0	30.7	31.8	33.1
	HI PR	179	193	204	212	204	219	232	242	232	250	264	275	261	281	297	310	289	311	328	342
	LO PR	58	62	67	72	60	64	70	75	63	67	74	78	66	71	77	82	69	73	80	85
80	**MBh**	55.8	57.0	60.9	65.1	54.5	55.6	59.5	63.6	53.1	54.3	58.0	62.0	50.5	51.6	55.1	58.9	46.8	47.8	51.0	54.6
	S/T	0.89	0.84	0.68	0.51	0.91	0.86	0.70	0.52	0.94	0.88	0.72	0.54	0.98	0.92	0.75	0.56	0.99	0.93	0.75	0.56
	AMPS	22.9	23.5	24.3	25.2	24.9	25.6	26.5	27.5	26.7	27.4	28.4	29.5	28.5	29.2	30.2	31.4	30.3	31.0	32.1	33.4
	HI PR	181	195	206	215	206	222	234	244	235	252	267	278	264	284	300	313	292	314	331	346
	LO PR	59	62	68	72	61	65	71	75	64	68	74	79	67	71	78	83	69	74	80	86
85	**MBh**	56.8	57.9	60.6	64.6	55.4	56.5	59.2	63.1	54.1	55.1	57.7	61.6	51.4	52.3	54.8	58.5	47.6	48.5	50.8	54.2
	S/T	0.93	0.90	0.81	0.66	0.96	0.92	0.83	0.68	0.99	0.95	0.86	0.70	1.00	0.99	0.89	0.73	1.00	1.00	0.90	0.73
	AMPS	23.1	23.7	24.5	25.4	25.2	25.8	26.7	27.7	27.0	27.7	28.6	29.7	28.8	29.5	30.5	31.7	30.6	31.3	32.4	33.7
	HI PR	183	197	208	217	208	224	236	247	237	255	269	281	266	287	303	316	294	317	335	349
	LO PR	59	63	69	73	61	65	71	76	65	69	75	80	68	72	79	84	70	74	81	87

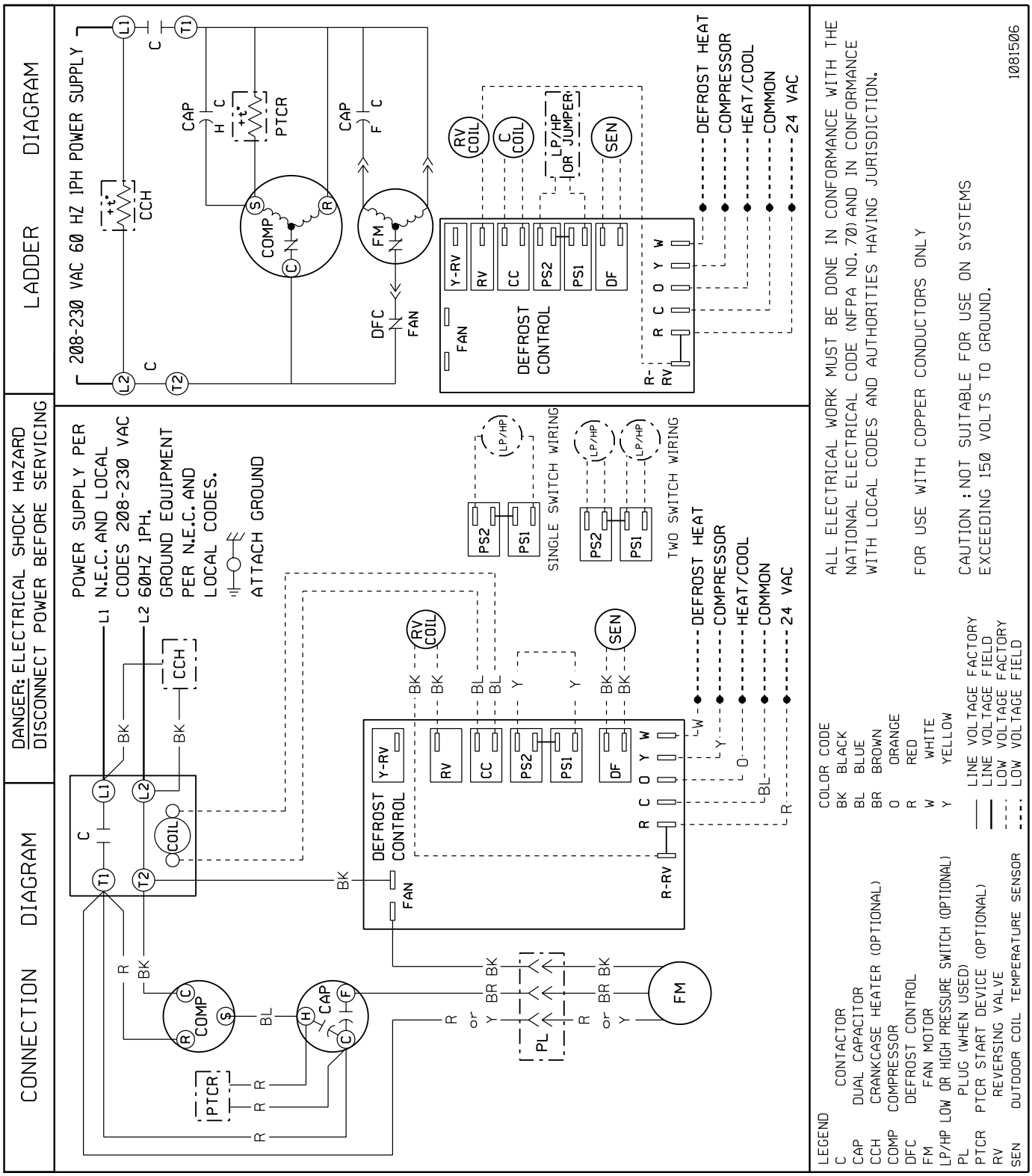
Heating — **Outdoor Ambient Temperature - Degrees F. Dry Bulb**

IDB		65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
70	**MBh**	75.4	71.4	67.3	62.8	60.0	58.1	54.0	49.8	46.5	43.0	39.6	37.4	36.0	32.3	28.6	24.9	21.3	17.4
	T/R	39.9	37.8	35.6	33.2	31.7	30.8	28.6	26.3	24.6	22.7	20.9	19.8	19.0	17.1	15.1	13.2	11.3	9.2
	KW	5.77	5.66	5.54	5.43	5.36	5.31	5.20	5.09	5.00	4.88	4.77	4.70	4.65	4.54	4.43	4.31	4.20	4.08
	AMPS	31.4	29.0	27.1	25.4	24.5	24.0	22.6	21.4	20.4	19.5	18.5	18.0	17.8	16.8	15.7	14.7	13.5	12.1
	COP	3.82	3.69	3.55	3.39	3.27	3.20	3.04	2.86	2.73	2.58	2.43	2.33	2.26	2.08	1.89	1.69	1.48	1.25
	EER	13.1	12.6	12.1	11.6	11.2	10.9	10.4	9.8	9.3	8.8	8.3	7.9	7.7	7.1	6.5	5.8	5.1	4.3
	HI PR	263	252	243	232	227	222	214	205	196	188	180	176	173	166	160	153	148	143
	LO PR	64	59	55	51	48	46	42	38	34	30	27	25	24	20	18	15	13	10

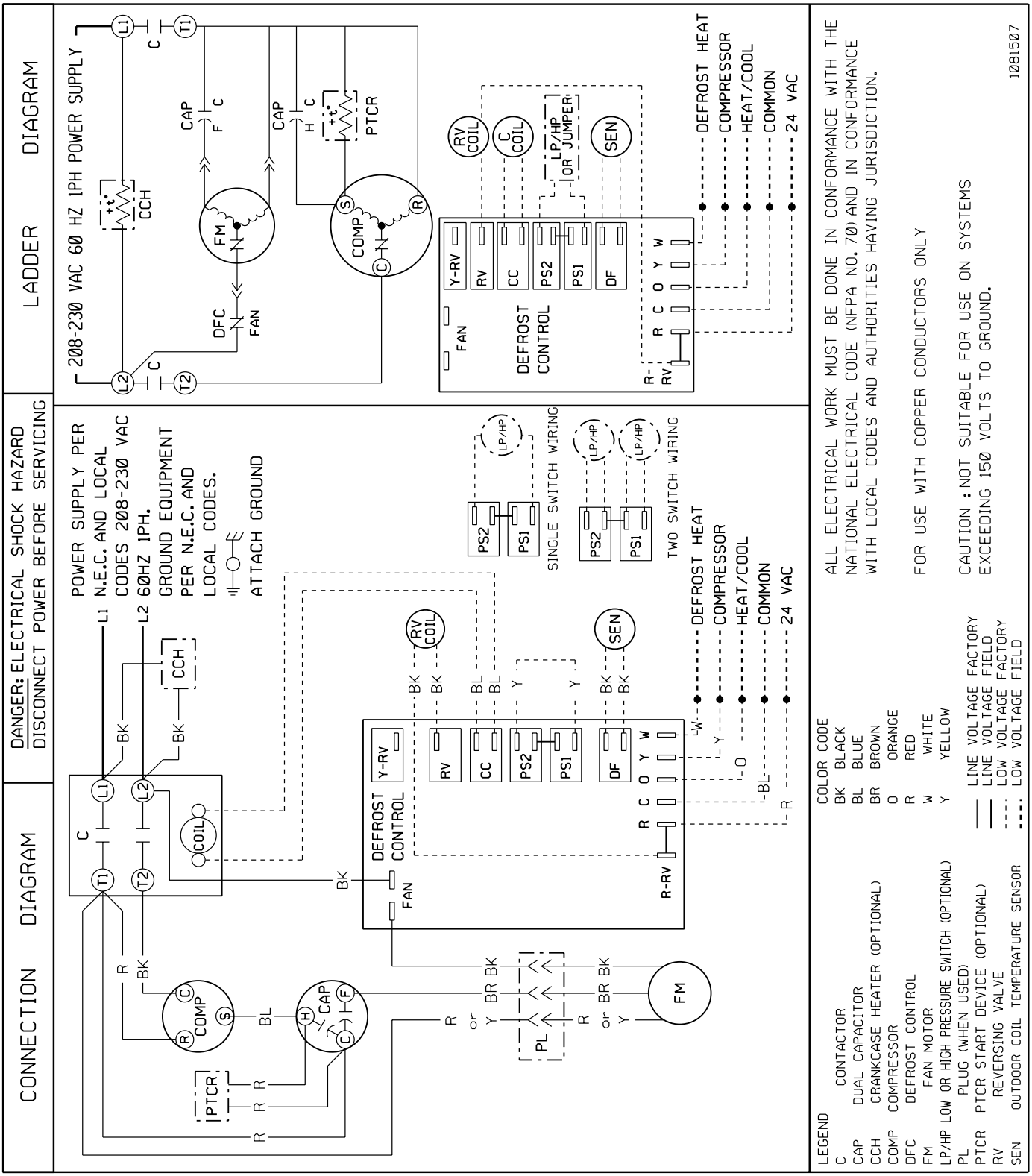
Calculated averaged performance data, for service applications for all matches. Part No:

*Add or Substract (Oz per Ft) for Lines: .25oz -1/4 Liq, .45oz- 5/16 Liq, .60oz - 3/8 Liq, 1.2 oz - 1/2 Liq **1080920**

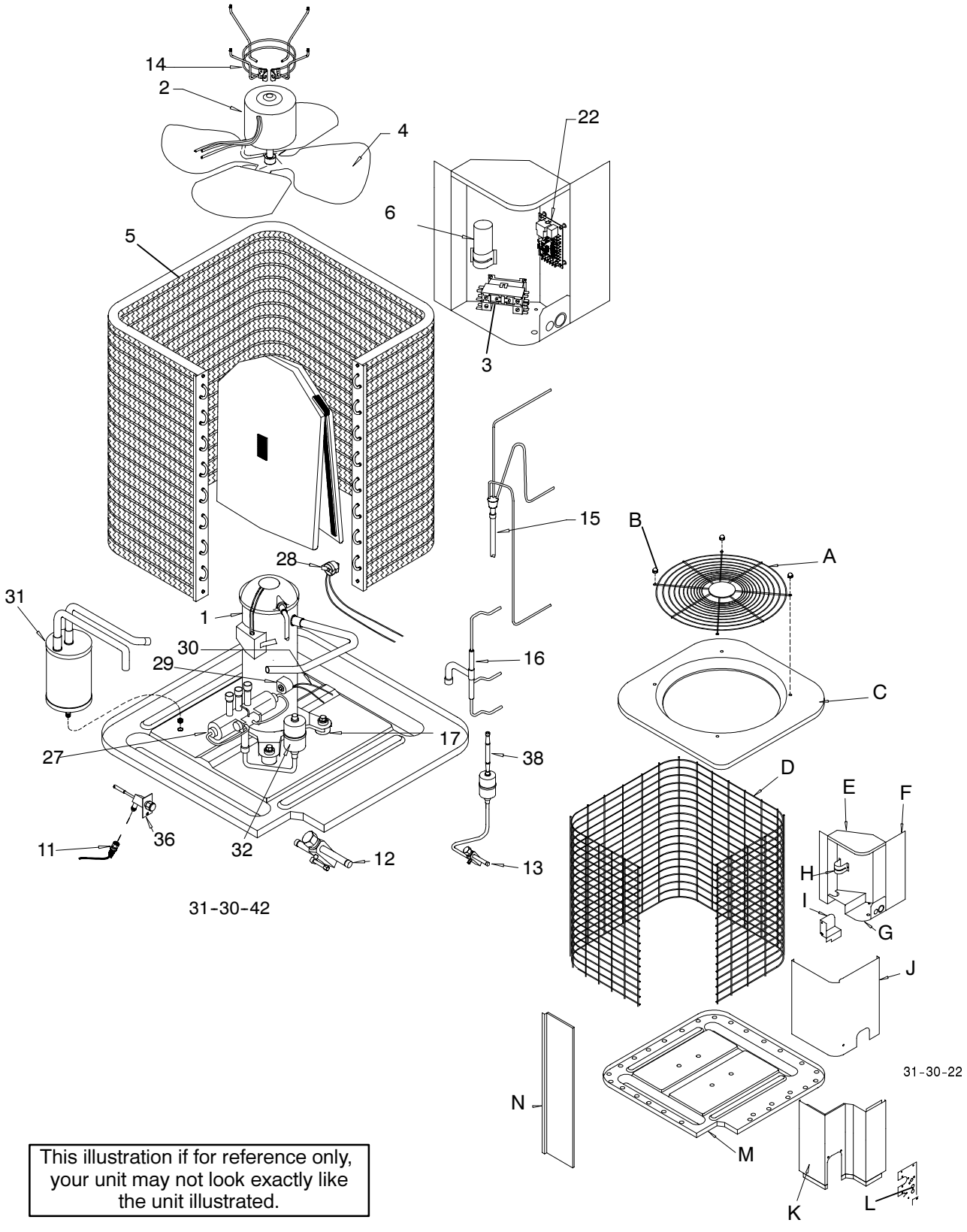
Wiring Diagram - 1 1/2 thru 4 TON



Wiring Diagram - 5 TON



CH55 PARTS ILLUSTRATION



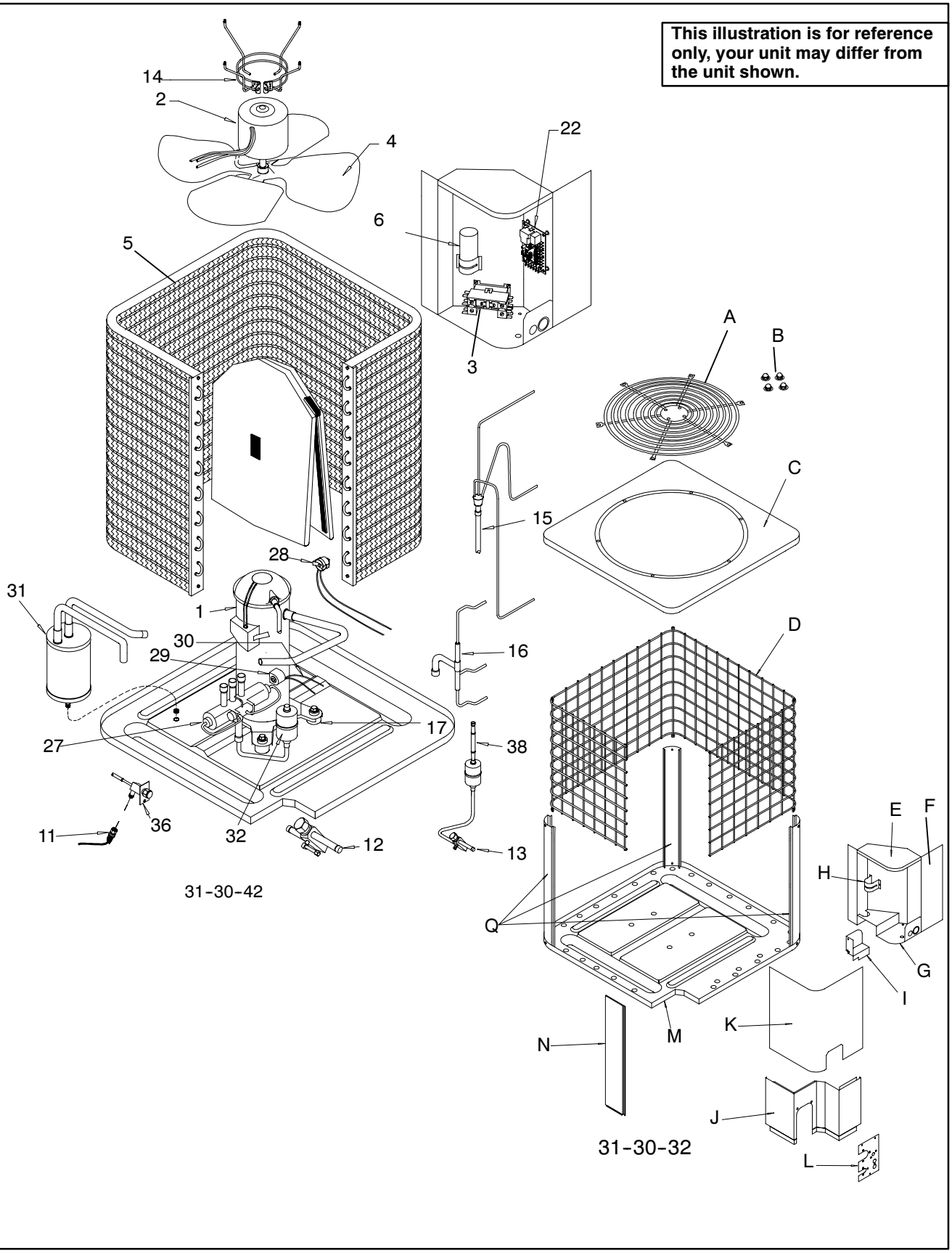
This illustration if for reference only, your unit may not look exactly like the unit illustrated.

Models - CH5518VKC1, CH5524VKC1, CH5530VKC1, CH5536VKC1, CH5542VKC1, CH5548VKC1, CH5560VKC1

NO.	DESCPIPTION	PART No.	018	024	030	036	042	048	060
1	COMP. ZR16KCPFV	1080975	1						
	ZR24KCPFV	1080976	-	1					
	ZR28KCPFV	1080974	-	-	1				
	ZR36KCPFV	1080978	-	-	-	1			
	ZR42KCPFV	1080979	-	-	-	-	1		
	ZR47KCPFV	1097011	-	-	-	-	-	1	
	ZR61KCPFV	1069319	-	-	-	-	-	-	1
2	MOTOR, FAN	1052662	1						
		1052659	-	1					
		1052703	-	-	1	1	1		
		1052820	-	-	-	-	-	1	1
3	CONTACTOR 25AMP	1050699	1	1	1	1			
	35AMP	1050839	-	-	-	-	1	1	
	40AMP	1149653	-	-	-	-	-	-	1
4	FAN	1080775	1						
		1080771	-	1					
		1050852	-	-	1	1			
		1052671	-	-	-	-	1		
		1053345	-	-	-	-	-	1	
		1053341	-	-	-	-	-	-	1
5	CONDENSER	1080906	1						
		1080960	-	1					
		1081003	-	-	1				
		1080969	-	-	-	1			
		1081076	-	-	-	-	1		
		1080966	-	-	-	-	-	1	
		1080963	-	-	-	-	-	-	1
6	CAPACITOR, 25+5MFD,370V	1094975	1						
	30+5MFD,370V	1094977	-	1					
	35+5MFD,440V	1094984	-	-	1	1			
	40+5MFD,370V	1094980	-	-	-	-	1	1	
	60+5MFD,370V	1095025	-	-	-	-	-	-	1
11	SWITCH, LOW PRESSURE	1081019	1	1	1	1	1	1	1
12	VALVE, SERVICE SUCTION	1080995	1	1	1				
		1080980	-	-	-	1			
		1081023	-	-	-	-	1		
		1080996	-	-	-	-	-	1	
		1080997	-	-	-	-	-	-	1
13	VALVE, SERVICE LIQUID	1080999	1	1	1	1			
		1081000	-	-	-	-	1	1	1
14	MOUNT, FAN MOTOR	1051460	-	-	1	1	1		
		1052968	-	-	-	-	-	1	1
15	DISTRIBUTOR ASSEMBLY	1081091	1						
		1081069	-	1		1			
		1081004	-	-	1				
		1081074	-	-	-	-	1		
		1081082	-	-	-	-	-	1	
		1081087	-	-	-	-	-	-	1
16	MANIFOLD	1081047	1						
		1081043	-	1		1			
		1081042	-	-	1				
		1081044	-	-	-	-	1		
		1081045	-	-	-	-	-	1	
		1081046	-	-	-	-	-	-	1
17	GROMMET, COMPRESSOR	1052060	4	4	4	4	4	4	4
22	CONTROL, DEFROST	1069364	1	1	1	1	1	1	1
25	DRIER, FILTER	1064507	1	1	1	1	1	1	1
27	VALVE, REVERSING	1095322	1						
		1095321	-	1	1				
		1095226	-	-	-	1	1		
		1095319	-	-	-	-	-	1	
		34329030	-	-	-	-	-	-	1

NO.	DESCPIPTION	PART No.	018	024	030	036	042	048	060
28	SENSOR, DEFROST	1080977	1	1	1	1	1	1	1
29	COIL, REVERSING VALVE	34329055	1	1	1	1	1	1	1
30	HARNESS, REV. VALVE	1066711	1	1	1	1	1	1	1
31	ACCUMULATOR	1063781	1	1					
		1092835	-	-	1				
		1081064	-	-	-	1	1		
		1081063	-	-	-	-	-	1	
		1081065	-	-	-	-	-	-	1
32	MUFFLER	1059730	1	1	1	1	1	1	1
36	PORT ASY, HI/LO (TEST)	1081020	1	1	1	1	1	1	1
38	RESTRICTOR, .041	1080981	1						
	.051	1080982	-	1					
	.054	1080983	-	-	1				
	.063	1080984	-	-	-	1			
	.069	1080985	-	-	-	-	1		
	.076	1080986	-	-	-	-	-	1	
	.080	1080987	-	-	-	-	-	-	1
)(	MANUAL, PARTS LIST	1080910	1	1	1	1	1	1	1
)(	MANUAL, INSTALLATION	1053083	1	1	1	1	1	1	1
)(	MANUAL, USERS	1067618	1	1	1	1	1	1	1
A	GRILLE, OUTLET	1061974	-	-	-	-	-	1	1
B	NUT, CAP	1052962	4	4					
		1052963	-	-	4	4	4		
		1053248	-	-	-	-	-	4	4
C	PANEL, TOP	1052697	1	1					
		1052701	-	-	1	1	1		
		1052700	-	-	-	-	-	1	1
D	GRILLE, INLET	1051482	1						
		1054086	-	1					
		1053148	-	-	1				
		1053250	-	-	-	1			
		1060379	-	-	-	-	1		
		1060383	-	-	-	-	-	1	
		1053369	-	-	-	-	-	-	1
E	TOP, CONTROL BOX	1064781	1	1					
		1064362	-	-	1	1	1	1	1
F	BOX, CONTROL	1060004	1	1					
		1060005	-	-	1	1	1	1	1
G	BOTTOM, CONTROL BOX	1052888	1	1					
		1064364	-	-	1	1	1	1	1
H	CLAMP, CAPACITOR	1095021	1	1	1	1	1		
		1064218	-	-	-	-	-	1	
		1051476	-	-	-	-	-	-	1
I	DIVIDER, LOW VOLTAGE	1051297	1	1	1	1	1	1	1
J	COVER, CONTROL BOX	1052790	1	1					
		1052702	-	-	1	1	1	1	1
K	PANEL, CORNER	1052690	1						
		1052692	-	1					
		1052770	-	-	1				
		1052705	-	-	-	1	-	-	1
		1052798	-	-	-	-	1		
		1052704	-	-	-	-	-	1	
L	PLATE, FITTING	1052849	1	1	1	1		1	
		1081007	-	-	-	-	1		1
M	BASEPAN	1052699	1	1					
		1052693	-	-	1	1	1		
		1068671	-	-	-	-	-	1	1
N	PANEL, ACCESS	1052898	-	-	-	-	-	1	
		1052800	-	-	-	-	-	-	1

This illustration is for reference only, your unit may differ from the unit shown.



Models - YJ018GA1, YJ024GA1, YJ030GA1, YJ036GA1, YJ042GA1, YJ048GA1, YJ060GA1

NO.	DESCPIPTION	PART No.	018	024	030	036	042	048	060
1	COMP. ZR16KCPFV	1080975	1						
	ZR24KCPFV	1080976	-	1					
	ZR28KCPFV	1080974	-	-	1				
	ZR36KCPFV	1080978	-	-	-	1			
	ZR42KCPFV	1080979	-	-	-	-	1		
	ZR47KCPFV	1097011	-	-	-	-	-	1	
	ZR61KCPFV	1069319	-	-	-	-	-	-	1
2	MOTOR, FAN	1052662	1						
		1052659	-	1					
		1052703	-	-	1	1	1		
		1052820	-	-	-	-	-	1	1
3	CONTACTOR 25AMP	1050699	1	1	1	1			
	35AMP	1050839	-	-	-	-	1	1	
	40AMP	1149653	-	-	-	-	-	-	1
4	FAN	1080775	1						
		1080771	-	1					
		1050852	-	-	1	1			
		1052671	-	-	-	-	1		
		1053345	-	-	-	-	-	1	
		1053341	-	-	-	-	-	-	1
5	CONDENSER	1080906	1						
		1080960	-	1					
		1081003	-	-	1				
		1080969	-	-	-	1			
		1081076	-	-	-	-	1		
		1080966	-	-	-	-	-	1	
		1080963	-	-	-	-	-	-	1
6	CAPACITOR, 25+5MFD,370V	1094975	1						
	30+5MFD,370V	1094977	-	1					
	35+5MFD,440V	1094984	-	-	1	1			
	40+5MFD,370V	1094980	-	-	-	-	1	1	
	60+5MFD,370V	1095025	-	-	-	-	-	-	1
11	SWITCH, LOW PRESSURE	1081019	1	1	1	1	1	1	1
12	VALVE, SERVICE SUCTION	1080995	1	1	1				
		1080980	-	-	-	1			
		1081023	-	-	-	-	1		
		1080996	-	-	-	-	-	1	
		1080997	-	-	-	-	-	-	1
13	VALVE, SERVICE LIQUID	1080999	1	1	1	1			
		1081000	-	-	-	-	1	1	1
14	MOUNT, FAN MOTOR	1051460	-	-	1	1	1		
		1052968	-	-	-	-	-	1	1
15	DISTRIBUTOR ASSEMBLY	1081091	1						
		1081069	-	1		1			
		1081004	-	-	1				
		1081074	-	-	-	-	1		
		1081082	-	-	-	-	-	1	
		1081087	-	-	-	-	-	-	1
16	MANIFOLD	1081047	1						
		1081043	-	1		1			
		1081042	-	-	1				
		1081044	-	-	-	-	1		
		1081045	-	-	-	-	-	1	
		1081046	-	-	-	-	-	-	1
17	GROMMET, COMPRESSOR	1052060	4	4	4	4	4	4	4
22	CONTROL, DEFROST	1069364	1	1	1	1	1	1	1
25	DRIER, FILTER	1064507	1	1	1	1	1	1	1
27	VALVE, REVERSING	1095322	1						
		1095321	-	1	1				
		1095226	-	-	-	1	1		
		1095319	-	-	-	-	-	1	
		34329030	-	-	-	-	-	-	1

NO.	DESCPIPTION	PART No.	018	024	030	036	042	048	060
28	SENSOR, DEFROST	1080977	1	1	1	1	1	1	1
29	COIL, REVERSING VALVE	34329055	1	1	1	1	1	1	1
30	HARNESS, REV. VALVE	1066711	1	1	1	1	1	1	1
31	ACCUMULATOR	1063781	1	1					
		1092835	-	-	1				
		1081064	-	-	-	1	1		
		1081063	-	-	-	-	-	1	
		1081065	-	-	-	-	-	-	1
32	MUFFLER	1059730	1	1	1	1	1	1	1
36	PORT ASY, HI/LO (TEST)	1081020	1	1	1	1	1	1	1
38	RESTRICTOR, .041	1080981	1						
	.051	1080982	-	1					
	.054	1080983	-	-	1				
	.063	1080984	-	-	-	1			
	.069	1080985	-	-	-	-	1		
	.076	1080986	-	-	-	-	-	1	
	.080	1080987	-	-	-	-	-	-	1
)(	MANUAL, PARTS LIST	7780051	1	1	1	1	1	1	1
)(	MANUAL, INSTALLATION	7511056	1	1	1	1	1	1	1
)(	MANUAL, USERS	1067618	1	1	1	1	1	1	1
A	GRILLE, OUTLET	1064780	1	1					
		1067519	-	-	1	1	1		
		1068737	-	-	-	-	-	1	1
B	NUT, CAP	1052962	4	4	4	4	4		
		1053248	-	-	-	-	-	4	4
C	PANEL, TOP	1069829	1	1					
		1069831	-	-	1	1	1		
		1068660	-	-	-	-	-	1	1
D	GRILLE, INLET	1069701	1						
		1069700	-	1					
		1069708	-	-	1				
		1069709	-	-	-	1			
		1069710	-	-	-	-	1		
		1080688	-	-	-	-	-	1	
		1080683	-	-	-	-	-	-	1
E	TOP, CONTROL BOX	1064781	1	1					
		1064362	-	-	1	1	1	1	1
F	BOX, CONTROL	1060004	1	1					
		1060005	-	-	1	1	1	1	1
G	BOTTOM, CONTROL BOX	1052888	1	1					
		1064364	-	-	1	1	1	1	1
H	CLAMP, CAPACITOR	1095021	1	1	1	1	1		
		1064218	-	-	-	-	-	1	
		1051476	-	-	-	-	-	-	1
I	DIVIDER, LOW VOLTAGE	1051297	1	1	1	1	1	1	1
J	COVER, CONTROL BOX	1068798	1	1					
		1068667	-	-	1	1	1	1	1
K	PANEL, CORNER	1068518	1						
		1068517	-	1					
		1068664	-	-	1				
		1068665	-	-	-	1	-	-	1
		1068666	-	-	-	-	1		
		1068663	-	-	-	-	-	1	
L	PLATE, FITTING	1052849	1	1	1	1		1	
		1081007	-	-	-	-	1		1
M	BASEPAN	1069833	1	1					
		1069837	-	-	1	1	1		
		1068673	-	-	-	-	-	1	1
N	PANEL, ACCESS	1068670	-	-	-	-	-	1	
		1068668	-	-	-	-	-	-	1
Q	POST, CORNER	1069732	3		3				
		1069733	-	3		3			
		1069734	-	-	-	-	3		