



Installation Instructions

SAFETY CONSIDERATIONS

Installing, starting up, and servicing this equipment can be hazardous due to system pressures, electrical components, and equipment location.

Only trained, qualified installers and service mechanics should install, start up, and service this equipment.

Untrained personnel can perform basic maintenance functions, such as cleaning coils. All other operations should be performed by trained service personnel.

When working on the equipment, observe precautions in the literature, and on tags, stickers, and labels attached to the equipment.

- Follow all safety codes.
- Wear safety glasses and work gloves.
- Use care in handling, rigging, and setting bulky equipment.



ELECTRIC SHOCK HAZARD.

Open all remote disconnects before servicing this equipment.

IMPORTANT: This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with these instructions may cause radio interference. It has been tested and found to comply with the limits of a Class A computing device as defined by FCC (Federal Communications Commission, U.S.A.) regulations, Subpart J of Part 15, which are designed to provide reasonable protection against such interference when operated in a commercial environment.

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INTRODUCTION

These instructions cover installation of 30GTN, GTR040-420 liquid chillers with electronic controls and units with factory-installed options (FIOPs).

NOTE: Unit sizes 230-420 are modular units which are shipped in separate sections as modules A and B. Installation directions specific to these units are noted in these instructions. For modules 230B-315B, follow all general instructions as noted for unit sizes 080-110. For all remaining modules, follow instructions for unit sizes 130-210. See Table 1 for a listing of unit sizes and modular combinations.

Inspect the unit upon arrival for damage. If damage is found, file a claim right away with the shipping company. When considering location for the unit, be sure to consult National Electrical Code (NEC, U.S.A.) and local code requirements. Allow sufficient space for airflow, wiring, piping, and service. See Fig. 1-13. Be sure surface beneath the unit is level, and is capable of supporting the operating weight of the unit. See Fig. 14-17 and Tables 2A-3B for unit mounting and operating weights.

NOTE: To facilitate refrigerant vent piping, unit sizes 130-210, 230A-315A, and 330A/B-420A/B will have fusible plugs with 3/8-in. SAE (Society of Automotive Engineers, U.S.A.) flares if required by local codes.

INSTALLATION

Step 1 — Rig and Place the Unit — These units are designed for overhead rigging and *it is important that this method be used*. Holes are provided in frame base channels, marked for rigging (see rigging label on unit). It is recommended that field-supplied 2-in. Schedule 40 steel pipes be passed through these holes, extending beyond frame enough to attach cables or chains on both sides for 040-110 and 230B-315B units. All other units come with 6 lifting lugs. Use spreader bars to keep cables or chains clear of unit sides. As further protection for the coil faces, plywood sheets may be placed against sides of unit, behind cables or chains. Run cables or chains to a central suspension point so that angle from horizontal is not less than 45 degrees. Raise and set unit down carefully. See Fig. 14-17 for rigging centers of gravity.

Table 1 — Unit Sizes and Modular Combinations

UNIT MODEL 30GTN,GTR	NOMINAL TONS	SECTION A UNIT 30GTN,GTR	SECTION B UNIT 30GTN,GTR
40	40	—	—
45	45	—	—
50	50	—	—
60	60	—	—
70	70	—	—
80	80	—	—
90	90	—	—
100	100	—	—
110	110	—	—
130	125	—	—
150	145	—	—
170	160	—	—
190	180	—	—
210	200	—	—
230	220	150	080
245	230	150	090
255	240	150	100
270	260	170	100
290	280	190	110
315	300	210	110
330	325	170	170
360	350	190	190/170*
390	380	210	190
420	400	210	210

*60 Hz units/50 Hz units.

⚠ CAUTION

1. Do not use forklift trucks on these units.
2. Modular (230-420) units MUST be rigged and placed as separate sections.

For shipping, some domestic units and all export units are mounted on a wooden skid under entire base of unit. Skid can be removed before unit is moved to installation site. *Lift the unit from above to remove skid.* See Fig. 14-17 for rigging centers of gravity. On export units, the top skid can be used as the spreader bars. If the unit is shipped with coil protection, it must be removed before start-up. The shipping bag for export units must be removed before start-up. On export units with a full crate, the crate sides must be removed to aid in rigging.

If overhead rigging is not available, the unit can be moved on rollers or dragged. When unit is moved on rollers, the unit skid, if equipped, must be removed. To lift the unit, use jacks at the rigging points. Use a minimum of 3 rollers to distribute the load. If the unit is to be dragged, lift the unit as described above, and place unit on a pad. *Apply moving force to the pad, and not the unit.* When in its final location, raise the unit and remove the pad.

Locate the unit so that the condenser airflow is unrestricted both above and on the sides of the unit. See Fig. 1-13 for required clearances. Provide ample room for servicing and removing cooler, depending upon unit location. The unit may be mounted on a level pad directly on the base rails or on a raised perimeter rail around the unit. If unit is mounted on a raised perimeter rail, fasten the unit to the rail using the mounting holes provided (sizes 080-420). For all units, ensure placement area is strong enough to support unit operating weight. Bolt the unit securely to pad or rails. If vibration isolators (field-supplied) are required for a particular installation, refer to unit weight distribution in Fig. 14-17 to aid in the proper selection of isolators. Do NOT mount directly on spring isolators.

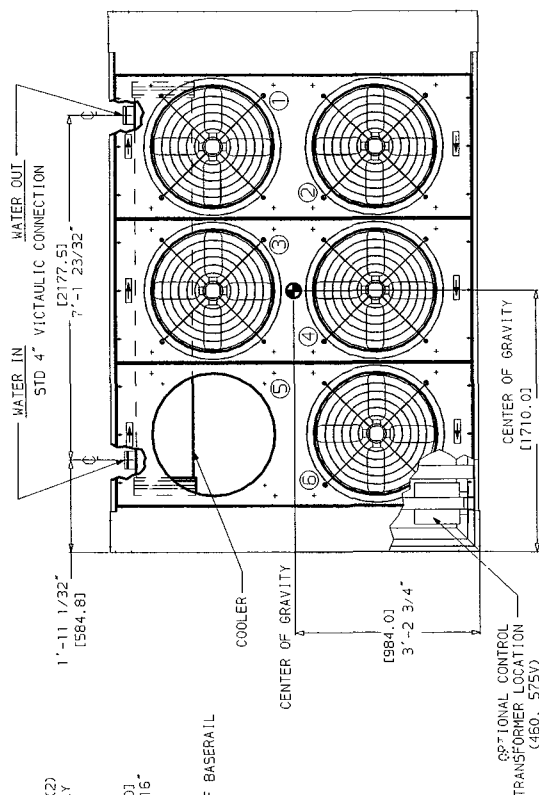
NOTE: Once the unit is in place, check to be sure unit is level so that oil will equalize properly.

IMPORTANT: When placing unit modules for unit sizes 330-420, either end of module A can be placed next to either end of module B. When placing unit modules for unit sizes 230-315, make sure modules are placed to permit access to the control box located in module B.

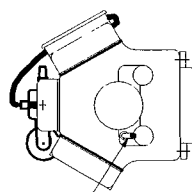
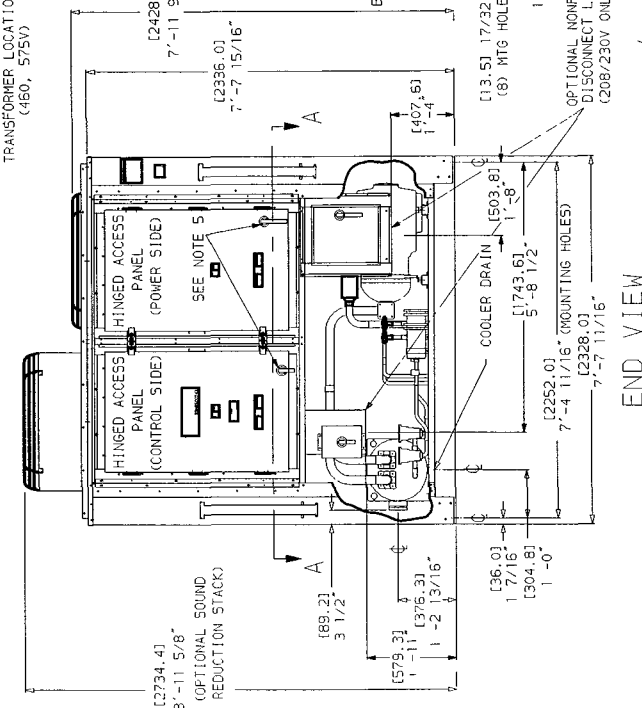
Instructions continued on page 40.

NOTES.

1. Dimensions in [] are in mm.
2. Unit must have clearances for airflow as follows:
Top — Do not restrict in any way.
Ends — [1524 mm] 5 ft
Sides — [1829 mm] 6 ft
3. Mounting holes may be used to mount unit to concrete pad. They are not recommended for spring isolator location.
4. If spring isolators are used, a perimeter support channel between the unit and the isolators is recommended.
5. When unit has non-fused disconnect option, power side door opens in opposite direction. Non-fused disconnect option mounted in control box on 380, 460, 575 v (60 Hz) and 380/415 v (50 Hz). For 208/230 v (60 Hz), non-fused disconnect mounted underneath control box.
6. 30G/TN/GTR090 is also Module B for 30G/TN/GTR245.



VIEW A-A
TOP VIEW OF CONTROL BOX SHELF
WITH FIELD POWER SUPPLY CONNECTIONS



SIDE VIEW

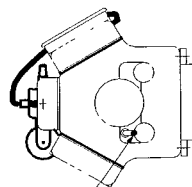
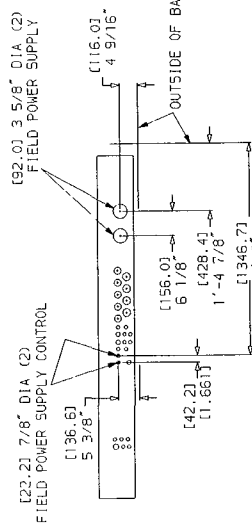
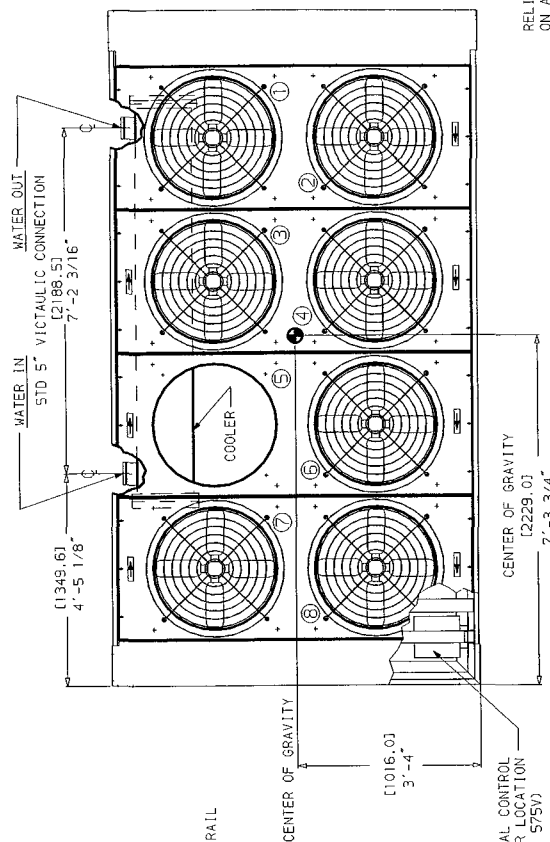
CONDENSER COIL

RELIEF VALVES ARE EQUIPPED WITH A 3/8" SAE FLARE FOR FIELD CONNECTION

Fig. 4 — Dimensions, Unit Size 090

NOTES:

1. Dimensions in [] are in mm.
2. Unit must have clearances for airflow as follows:
Top — Do not restrict in any way.
Sides — [1524 mm] 5 ft
Ends — [1829 mm] 6 ft
3. Mounting holes may be used to mount unit to concrete pad. They are not recommended for spring isolator location.
4. If spring isolators are used, a perimeter support channel between the unit and the isolators is recommended.
5. 30GTN.GTR100 is also Module B for 30GTN, GTR255.270.
6. When unit has non-fused disconnect option, power side door opens in opposite direction. Non-fused disconnect option mounted in control box on 380, 460, 575 v (60 Hz) and 380/415 v (50 Hz). For 208/230 v (60 Hz), non-fused disconnect mounted underneath control box.



SIDE VIEW

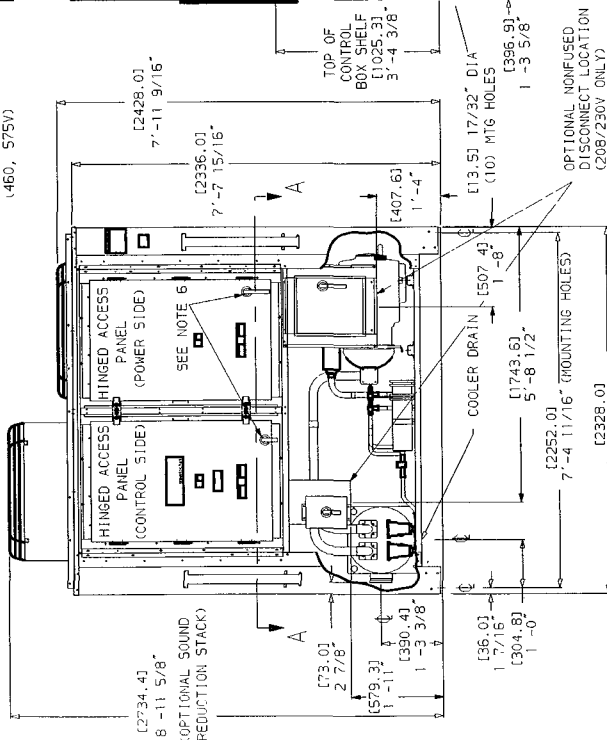
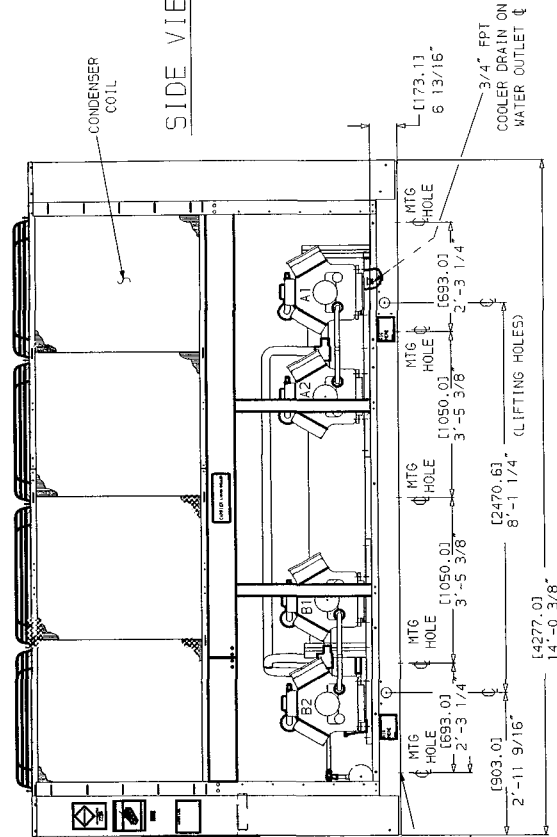
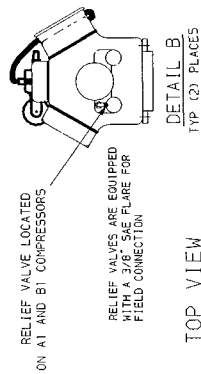
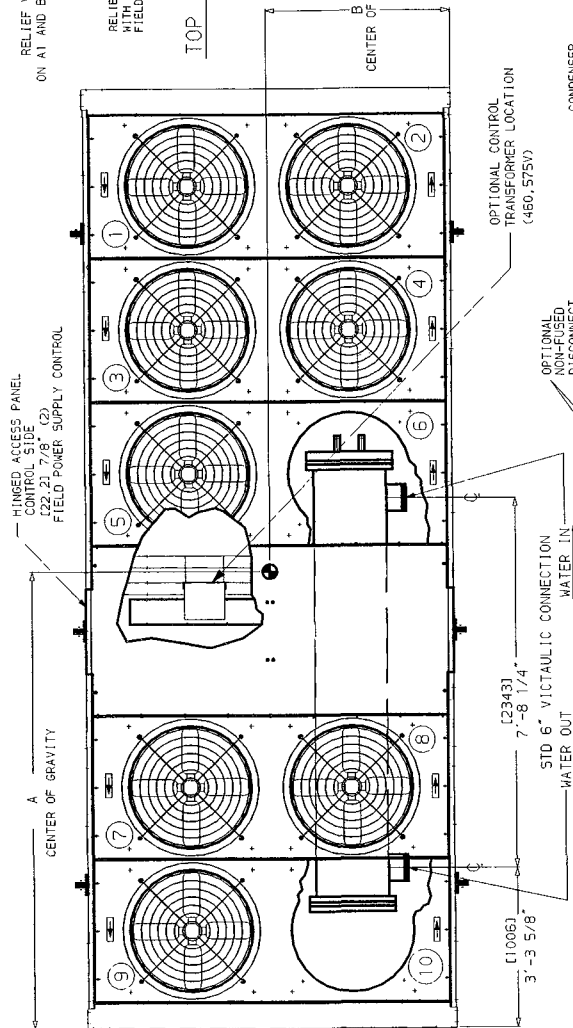


Fig. 5 — Dimensions, Unit Sizes 100, 110

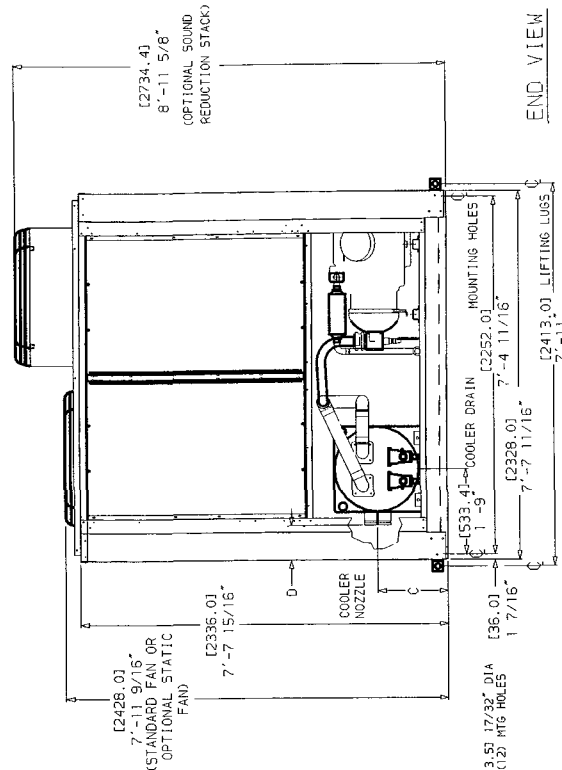
UNIT 30GTN,GTR	DIMENSIONS — ft.-in. [mm]			
	A	B	C	D
130	9-4 1/2 [2858]	4-1 1/4 [1267]	1-4 3/4 [425]	0-9 1/2 [242]
150	9-4 [2849]	4-2 1/2 [1283]	1-4 3/4 [425]	0-9 1/2 [242]
170	9-4 1/8 [2865]	4-2 1/2 [1283]	1-5 5/8 [448]	0-8 5/8 [219]



TOP VIEW



FRONT VIEW



END VIEW

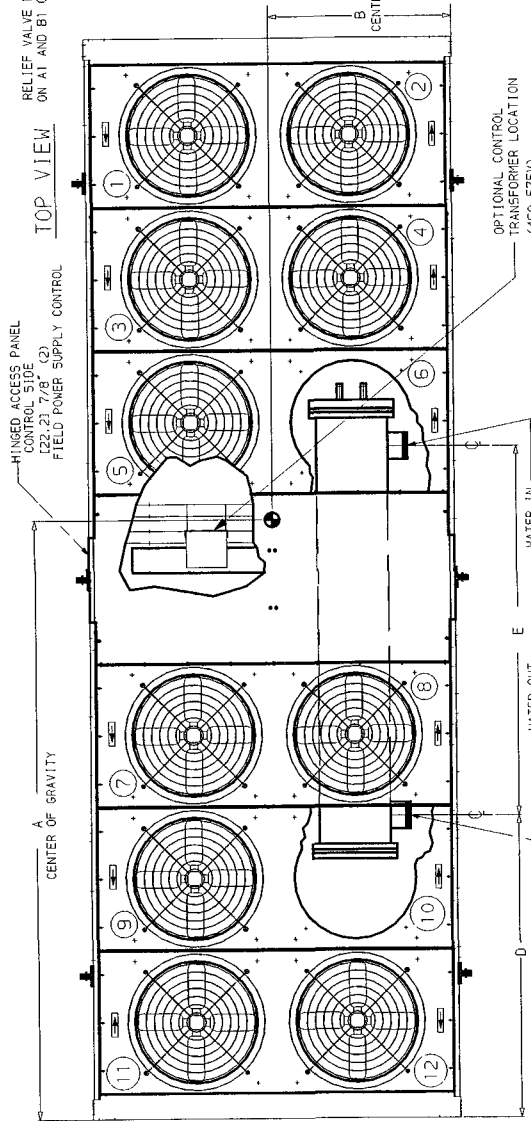
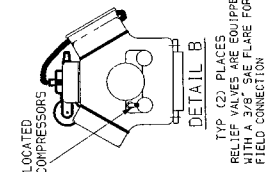
NOTES.

1. Dimensions in [] are in mm.
2. Unit must have clearances for airflow as follows:
Top — Do not restrict in any way
Ends — [1524 mm] 5 ft
Sides — [1829 mm] 6 ft
3. Mounting holes may be used to mount unit to concrete pad. They are not recommended for spring isolator location.
4. If spring isolators are used, a perimeter support channel between the unit and the isolators is recommended.
5. 30GTN, GTR150 also Module A for 30GTN, GTR230, 245, 255.
30GTN, GTR170 also Module A for 30GTN, GTR270, 330.
30GTN, GTR170 also Module B for 30GTN, GTR330, 360 (50 Hz).

Fig. 6 — Dimensions, Unit Sizes 130-170

NOTES.

1. Dimensions in [] are in mm.
2. Unit must have clearances for airflow as follows:
Top — Do not restrict in any way
Ends — [1524 mm] 5 ft
Sides — [1524 mm] 5 ft
3. Mounting holes may be used to mount unit to concrete pad. They are not recommended for spring isolator location.
4. If spring isolators are used, a perimeter support channel between the unit and the isolators is recommended.
5. 30GTM, GTR190 also Module A for 30GTM, GTR290, 360, 390, 420. 30GTM, GTR190 also Module B for 30GTM, GTR315, 390, 420. 30GTM, GTR210 also Module A for 30GTM, GTR315, 390, 420. 30GTM, GTR210 also Module B for 30GTM, GTR420.



UNIT 30GTM, GTR	DIMENSIONS — ft-in. [mm]							
	A	B	C	D	E	F	G	H
190	11-4 [3454]	4-2 1/2 [1283]	1-5 5/8 [448]	6-3 7/8 [1916]	7-8 1/4 [2343]	0-8 5/8 [219]	1-9 [533.4]	6-4 7/8 [1941.3]
210	11-3 [3444]	4-2 [1270]	1-6 7/8 [468]	5-11 1/2 [1816]	8-2 9/16 [2504]	0-9 1/2 [242]	1-11 [584]	5-11 1/2 [1816.2]

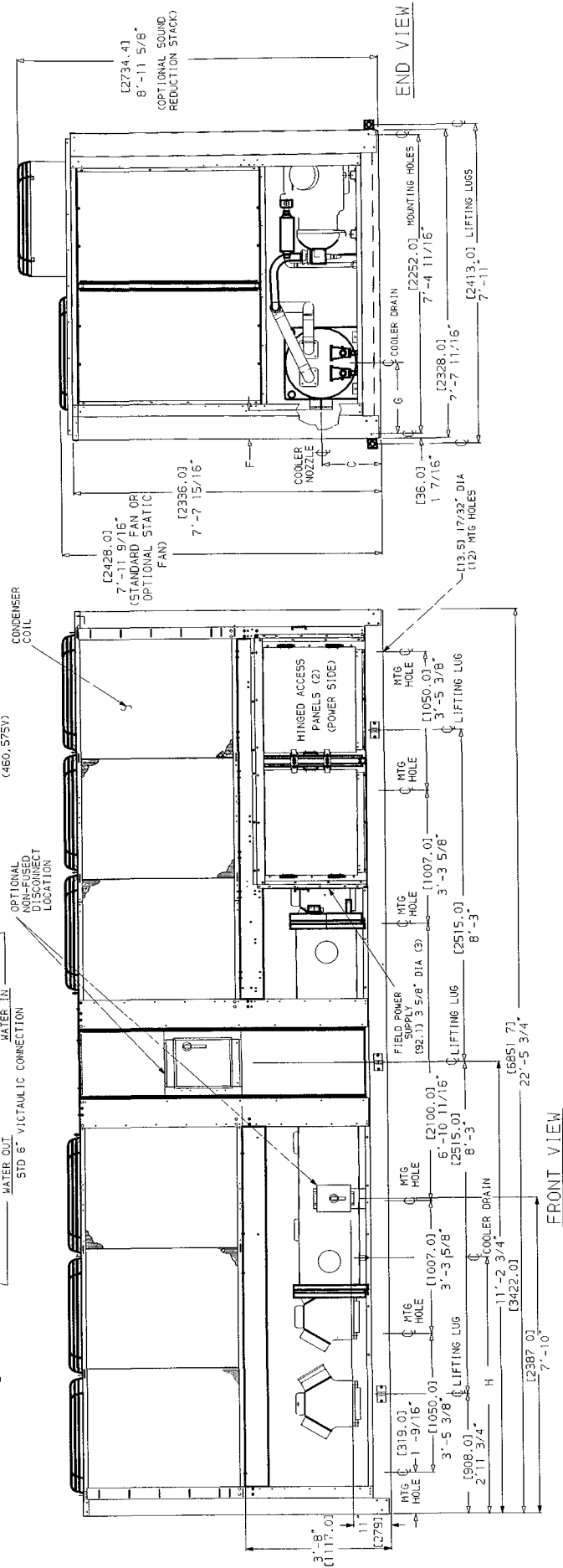


Fig. 7 — Dimensions, Unit Sizes 190-210

1. Dimensions in [] are in mm.
2. Unit must have clearances for airflow as follows:
 - Top — Do not restrict in any way
 - Ends — [1524 mm] 5 ft
 - Sides — [1829 mm] 6 ft
3. Mounting holes may be used to mount unit to concrete pad. They are not recommended for spring isolator location.
4. If spring isolators are used, a perimeter support channel between the unit and the isolators is recommended.
5. Unit shipped in 2 pieces.
6. When units have non-fused disconnect option, power side door opens in opposite direction. Non-fused disconnect option mounted in control box on 380, 400, 575 v (60 Hz) and 380/415 v (50 Hz). For 208/230 v (60 Hz), nonfused disconnect mounted underneath control box.



RELIEF VALVES ARE EQUIPPED
WITH A 3/8" SAE FLARE FOR
FIELD CONNECTION

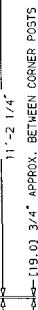


Fig. 8 — Dimensions, Unit Sizes 230, 245

NOTES:
1. Dimensions in [] are in mm.
2. Unit must have clearances for airflow as follows:

1. Dimensions in [] are in mm.
2. Unit must have clearances for airflow as follows:
 - Top — Do not restrict in any way
 - Sides — [1524 mm] 5 ft
 - Ends — [1829 mm] 6 ft
3. Mounting holes may be used to mount unit to concrete pad. They are not recommended for spring isolator location.
4. If spring isolators are used, a perimeter support channel between the unit and the isolators is recommended.
5. Unit shipped in 2 pieces.
6. When unit has door-fused disconnect option, power side door opens in opposite direction. Non-fused disconnect option mounted in control box on 380, 460, 575 v (60 hz) and 380/415 v (50 Hz). For 208/230 v (60 Hz), non-fused disconnect mounted underneath control box.

UNIT 30GTN,GTR	DIMENSIONS — ft.-in. [mm]	
	A	B
255	0-9½ [241]	1-4¾ [425]
270	0-8½ [216]	1-5⅝ [448]

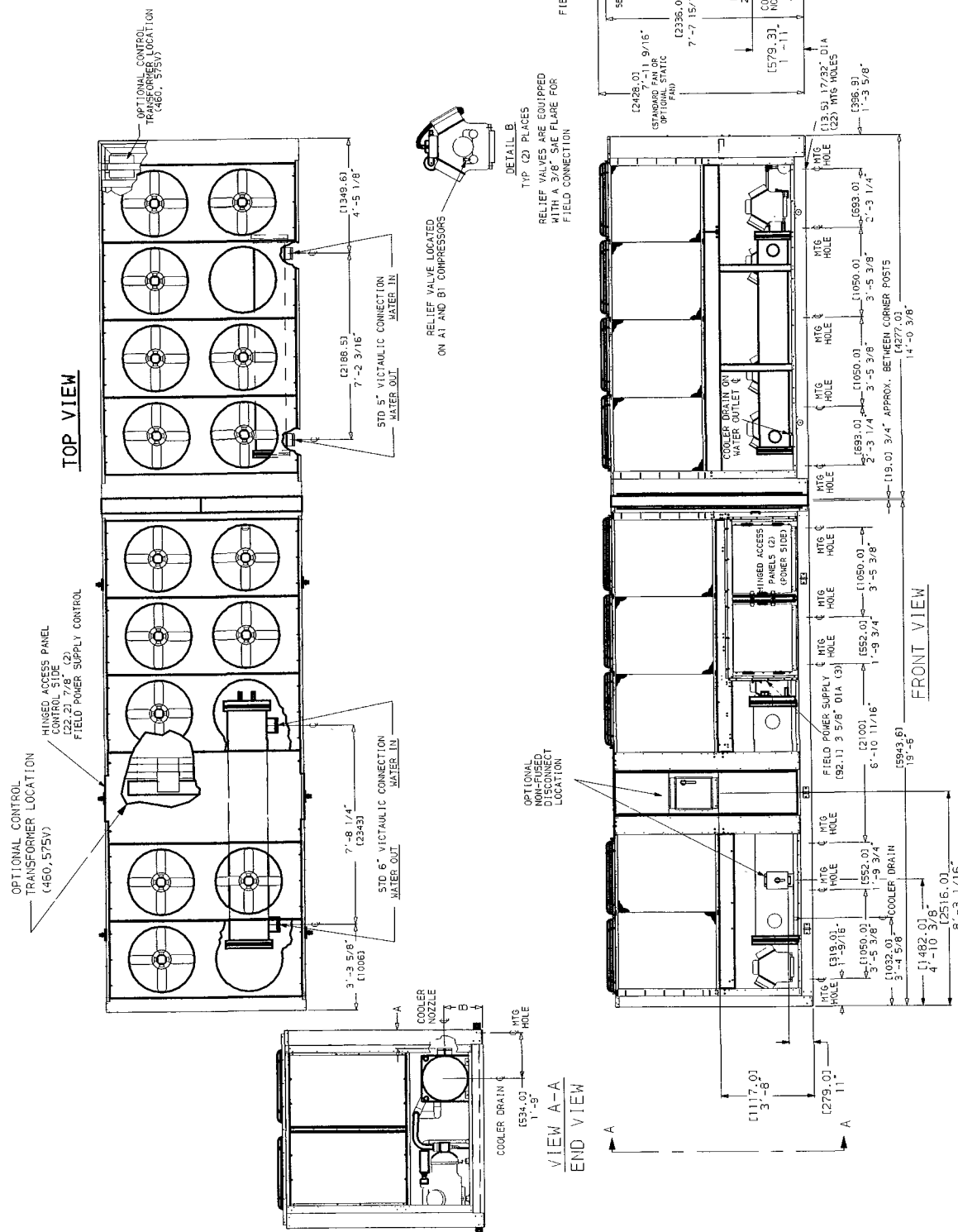


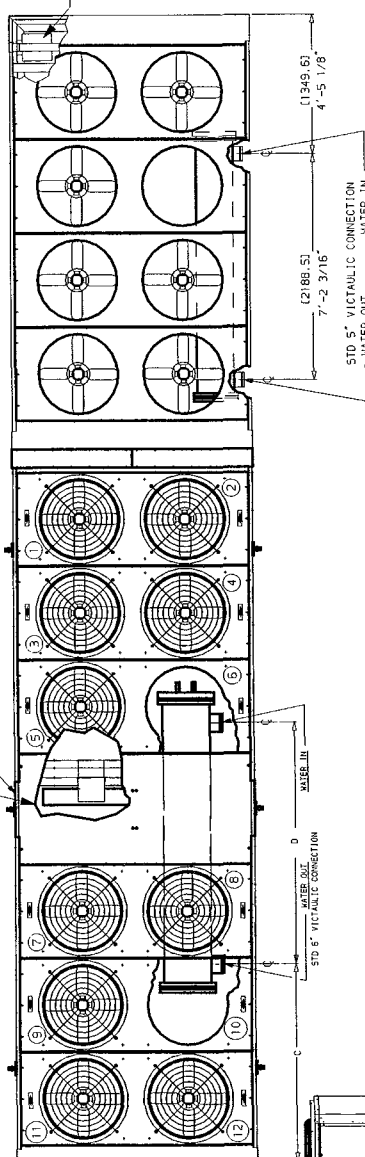
Fig. 9 — Dimensions. Unit Sizes 255, 270

NOTES:

1. Dimensions in [] are in mm.
2. Unit must have clearances for airflow as follows:
Top — Do not restrict in any way
Ends — [1524 mm] 5 ft
Sides — [1829 mm] 6 ft
3. Mounting holes may be used to mount unit to concrete pad. They are not recommended for spring isolator location.
4. If spring isolators are used, a perimeter support channel between the unit and the isolators is recommended.
5. Unit shipped in 2 pieces.
6. When unit has non-fused disconnect option, power side door opens in opposite direction. Non-fused disconnect option mounted in control box on 380, 460, 575 v (60 Hz) and 380/415 v (50 Hz). For 208/230 v (60 Hz), non-fused disconnect mounted underneath control box.

OPTIONAL CONTROL TRANSFORMER LOCATION (460, 575V)

TOP VIEW



UNIT 30GTD, GTR	DIMENSIONS — ft-in. [mm]				
	A	B	C	D	E
290	0-8 5/8 [219]	1-5 5/8 [448]	6-3 7/8 [1916]	7-8 1/4 [2343]	6-4 7/8 [1941.3]
315	0-9 1/2 [242]	1-6 7/8 [468]	5-11 1/2 [1816]	8-2 5/8 [2504]	5-11 1/2 [1816.2]

OPTIONAL CONTROL TRANSFORMER LOCATION (460, 575V)



RELIEF VALVE LOCATED ON A1 AND B1 COMPRESSORS
TYP (2) PLACES
RELIEF VALVES ARE EQUIPPED WITH A 3/8" SAE FLARE FOR FIELD CONNECTION

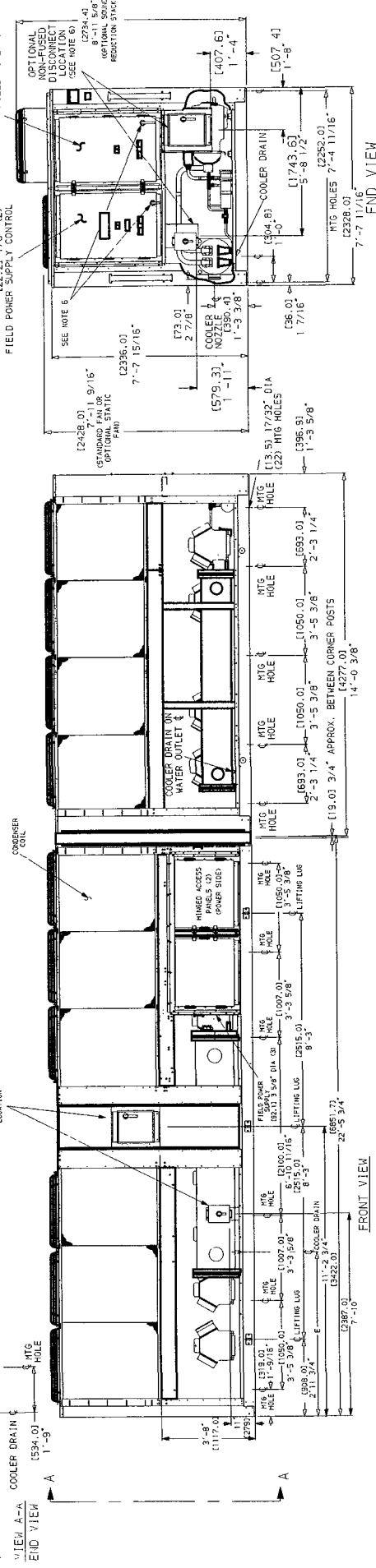
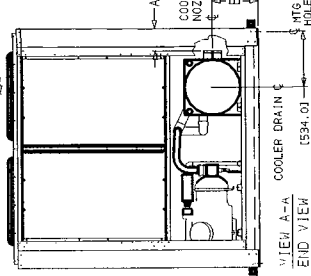


Fig. 10 — Dimensions, Unit Sizes 290, 315

- | UNIT
30GTN,GTR | DIMENSIONS —
ft-in. [mm] | |
|-------------------|-----------------------------|----------------|
| | A | B |
| 330 | 0-9/2
[242] | 1-5/8
[448] |

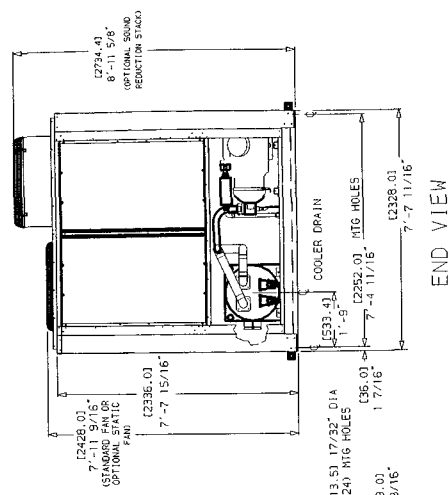
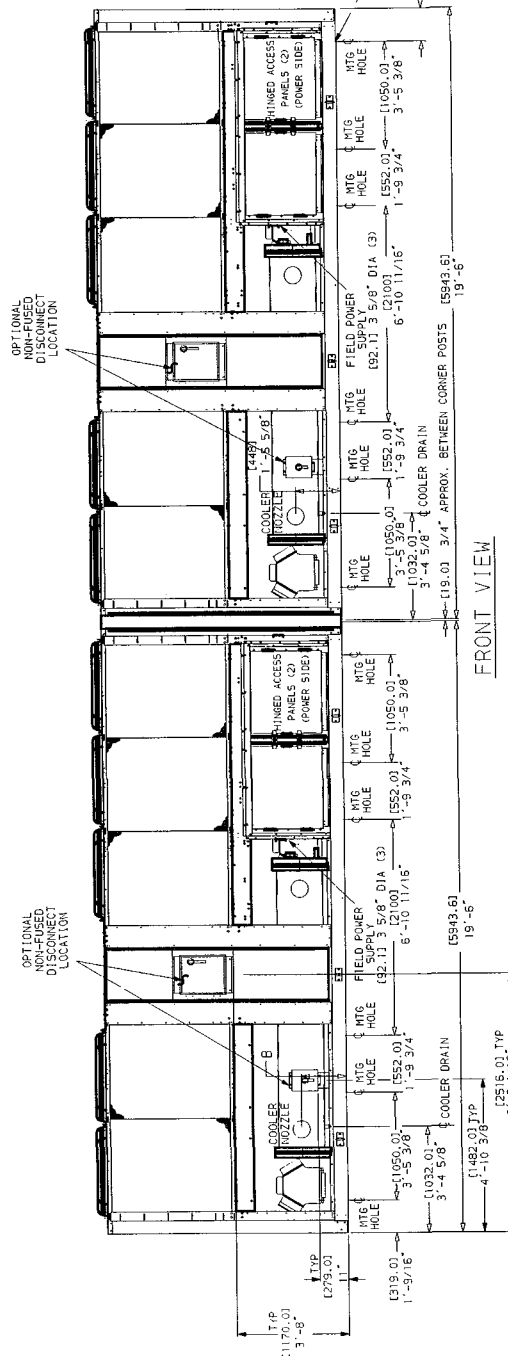
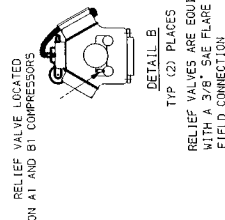
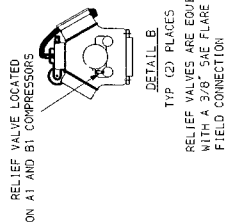


Fig. 11 — Dimensions, Unit Size 330

1. Dimensions in [] are in mm.
2. Unit must have clearances for airflow as follows:
 - Top — Do not restrict in any way
 - Ends — [1524 mm] 5 ft
 - Sides — [1829 mm] 6 ft
3. Mounting holes may be used to mount unit to concrete pad. They are not recommended for spring isolator location.
4. If spring isolators are used, a perimeter support channel between the unit and the isolators is recommended.
5. Unit shipped in 2 pieces.



FRONT VIEW

- NOTES:
1. Dimensions in [] are in mm.
 2. Unit must have clearances for airflow as follows:
Top — Do not restrict in any way
Ends — [1524 mm] 5 ft
Sides — [1829 mm] 6 ft
3. Mounting holes may be used to mount unit to concrete location.
4. If spring isolators are used, a perimeter support channel between the unit and the isolators is recommended.
 5. Unit shipped in 2 pieces.

UNIT 30GTR, GTR	DIMENSIONS — ft.-in. [mm]											
	A	B	C	D	E	F	G	H	J	K	L	M
360 (60 Hz)	0-8 5/8" [219]	0-8 5/8" [219]	7-8 1/4" [2343]	7-8 1/4" [2343]	1-10 7/16" [570]	1-10 7/16" [570]	6-3 7/16" [1916]	8-6 7/16" [2593]	1-5 5/8" [448]	1-5 5/8" [448]	6-4 1/2" [1942]	5-11 1/2" [1816]
390	0-9 1/2" [242]	0-8 5/8" [219]	8-2 9/16" [2504]	7-8 1/4" [2343]	2-2 3/8" [620]	1-10 7/16" [570]	5-11 1/2" [1816]	8-6 7/16" [2593]	1-6 7/16" [468]	1-5 5/8" [448]	5-11 1/2" [1816]	6-4 1/2" [1942]
420	0-9 1/2" [242]	0-9 1/2" [242]	8-2 9/16" [2504]	8-2 9/16" [2504]	2-2 3/8" [620]	2-2 3/8" [620]	5-11 1/2" [1816]	8-3 1/16" [2532]	1-6 7/16" [468]	1-6 7/16" [468]	5-11 1/2" [1816]	6-4 1/2" [1942]

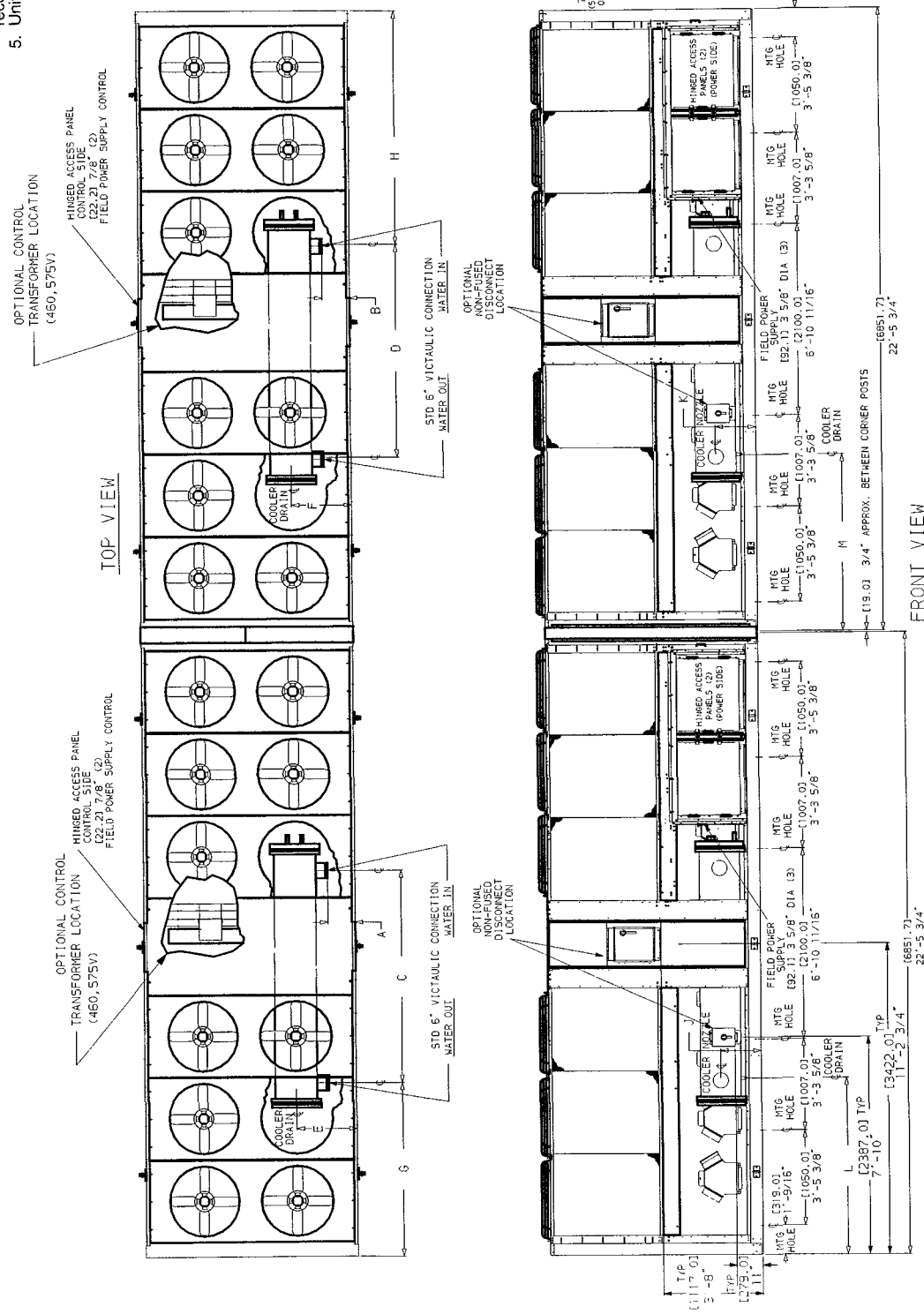
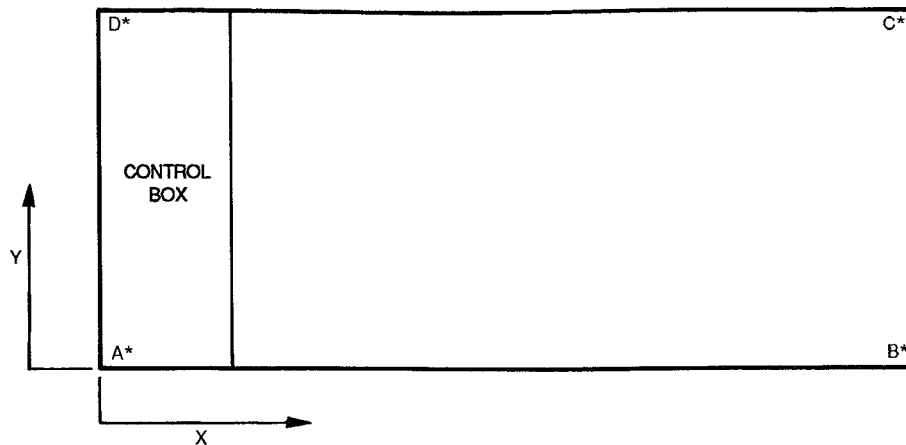


Fig. 13 — Dimensions, Unit Sizes 360 (60 Hz), 390, 420



60 Hz UNITS

UNIT SIZE 30GTN,GTR	CONDENSER COIL†	LB				KG			
		A	B	C	D	A	B	C	D
040	C-AL	972	876	807	895	441	397	366	406
	C-C	1044	948	879	968	473	430	399	439
045	C-AL	999	895	845	943	453	406	383	428
	C-C	1071	967	917	1015	486	438	416	460
050	C-AL	1047	948	884	976	475	430	401	443
	C-C	1155	1057	992	1085	524	479	450	492
060	C-AL	1258	1130	1130	1113	570	512	505	562
	C-C	1362	1234	1217	1344	618	560	552	609
070	C-AL	1332	1212	1184	1301	604	550	537	590
	C-C	1489	1369	1340	1458	675	621	608	661

50 Hz UNITS

UNIT SIZE 30GTN,GTR	CONDENSER COIL†	LB				KG			
		A	B	C	D	A	B	C	D
040	C-AL	992	886	808	904	450	402	366	410
	C-C	1064	959	880	976	482	435	399	443
045	C-AL	1065	934	812	925	483	424	368	420
	C-C	1137	1007	883	998	515	457	401	452
050	C-AL	1074	968	889	986	487	439	403	447
	C-C	1182	1076	997	1095	536	488	452	496
060	C-AL	1269	1151	1123	1238	575	522	509	561
	C-C	1373	1255	1227	1342	623	569	556	609
070	C-AL	1508	1369	1226	1350	684	621	556	612
	C-C	1664	1526	1383	1508	755	692	627	684

LEGEND

C-AL — Copper Tubing, Aluminum Fins
C-C — Copper Tubing, Copper Fins

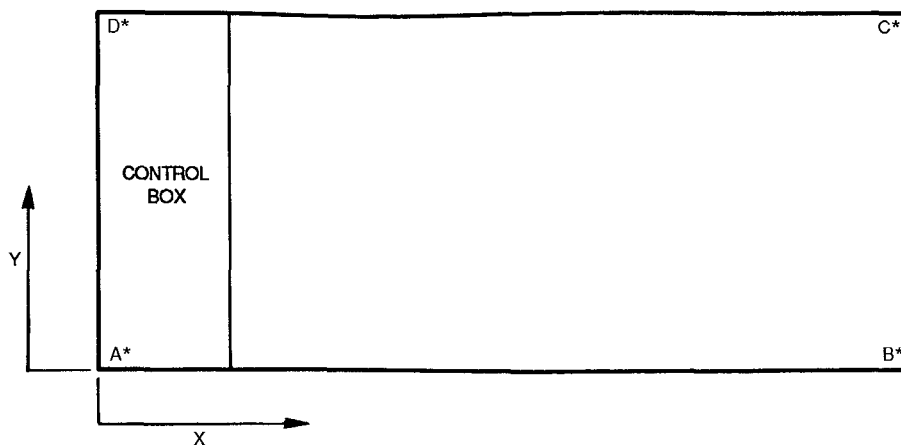
*Points A, B, C, and D are located in the corners of the unit. See Fig. 1 and 2 for dimensions
†Contact your local Carrier representative for more information on Epoxy-coated and pre-coated aluminum fins.

NOTE: If spring isolators are used, a perimeter support channel between the unit and the isolators is recommended.

RIGGING CENTER OF GRAVITY

UNIT SIZE 30GTN,GTR	040		045		050		060		070	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
X Dimension	46 ¹³ / ₁₆	1189	46 ¹³ / ₁₆	1189	47	1194	58 ⁵ / ₁₆	1481	58 ¹ / ₂	1486
Y Dimension	41 ¹¹ / ₁₆	1059	42 ¹ / ₁₆	1069	41 ⁷ / ₈	1064	42 ⁷ / ₈	1090	42	1067

Fig. 14 — Mounting Weights (Approximate); Unit Sizes 040-070



60 Hz

UNIT SIZE 30GTN,GTR	CONDENSER COIL†	lb				kg			
		A	B	C	D	A	B	C	D
080,230B	C-AL	1624	1690	1666	1650	738	768	757	750
	C-C	1797	1880	1847	1831	817	854	840	832
090,245B	C-AL	1817	1793	1720	1685	826	815	782	766
	C-C	1997	1970	1893	1880	908	895	860	855
100,255B,270B	C-AL	2185	2185	2120	2120	993	993	964	964
	C-C	2420	2420	2360	2360	1100	1100	1073	1073
110,290B,315B	C-AL	2191	2217	2136	2116	996	1007	970	962
	C-C	2428	2454	2374	2354	1104	1115	1079	1070

50 Hz

UNIT SIZE 30GTN,GTR	CONDENSER COIL†	lb				kg			
		A	B	C	D	A	B	C	D
080,230B	C-AL	1650	1730	1680	1660	750	786	764	755
	C-C	1830	1910	1863	1842	832	868	847	837
090,245B	C-AL	1833	1864	1724	1714	833	847	784	779
	C-C	2014	2040	1907	1899	915	927	867	863
100,255B,270B	C-AL	2222	2222	2133	2133	1010	1010	970	970
	C-C	2460	2460	2370	2370	1118	1118	1077	1077
110,290B,315B	C-AL	2271	2271	2149	2149	1032	1032	976	976
	C-C	2508	2508	2387	2387	1140	1140	1085	1085

LEGEND

C-AL — Copper Tubing — Aluminum Fins

C-C — Copper Tubing — Copper Fins

*Points A, B, C, and D are in the corners of the unit. See Fig. 3-5 for dimensions.

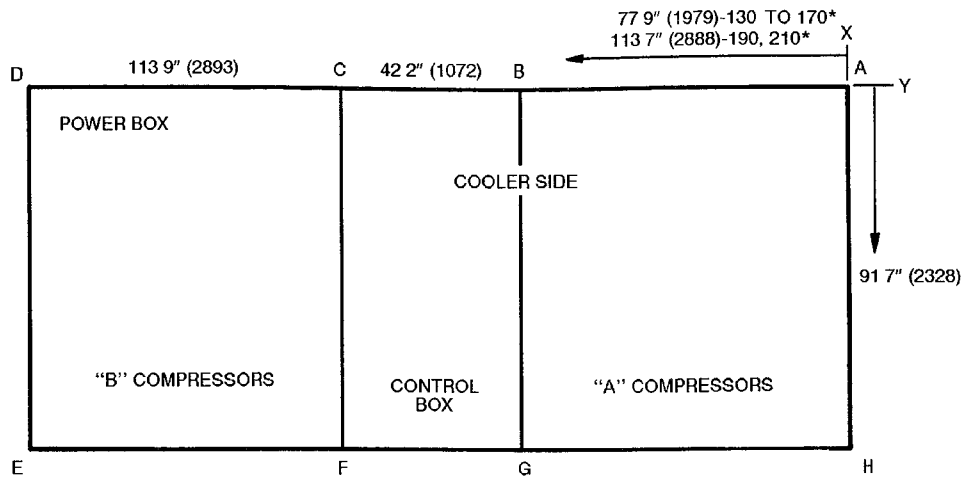
†Contact your local Carrier representative for more information on epoxy-coated and pre-coated aluminum fins.

NOTE: If spring isolators are used, a perimeter support channel between the unit and the isolators is recommended.

RIGGING CENTER OF GRAVITY

UNIT SIZE 30GTN,GTR	080,230B		090,245B		100,110,255B-315B	
	in.	mm	in.	mm	in.	mm
X Dimension	69.6	1769	67.3	1710	87.8	2229
Y Dimension	42.0	1067	38.8	984	40.0	1016

Fig. 15 — Mounting Weights (Approximate); Unit Sizes 080-110 and 230B-315B



60 Hz

UNIT SIZE 30GTN,GTR	CONDENSER COIL	lb							
		A	B	C	D	E	F	G	H
130	C-AL	923	1466	1156	825	1411	1365	1469	1439
	C-C	1051	1593	1283	952	1601	1556	1659	1622
150,230A-255A	C-AL	926	1563	1160	834	1438	1375	1747	1438
	C-C	1053	1690	1287	961	1628	1566	1938	1629
170,270A,330A/B	C-AL	962	1732	1333	862	1497	1629	1816	1462
	C-C	1089	1860	1460	990	1688	1819	2007	1653
190,290A,360A/B,390B	C-AL	1346	1942	1793	1111	1385	1799	1733	1567
	C-C	1536	2132	1983	1301	1575	1989	1923	1757
210,315A,390A,420A/B	C-AL	1376	2128	1871	1120	1407	1846	2037	1595
	C-C	1566	2318	2061	1310	1597	2036	2227	1784

60 Hz

UNIT SIZE 30GTN,GTR	CONDENSER COIL	kg							
		A	B	C	D	E	F	G	H
130	C-AL	419	666	525	375	641	620	668	650
	C-C	478	723	583	433	728	707	754	737
150, 230A-255A	C-AL	420	710	527	379	653	625	794	653
	C-C	478	768	585	436	285	711	880	740
170,270A,330A/B	C-AL	437	787	605	392	680	740	825	664
	C-C	495	845	663	450	767	826	912	751
190,290A,360A/B,390B	C-AL	611	882	815	505	629	817	787	712
	C-C	698	969	901	591	715	904	874	798
210,315A,390A,420A/B	C-AL	625	967	850	509	639	384	925	725
	C-C	711	1053	937	595	725	925	1012	810

LEGEND

C-AL — Copper Tubing — Aluminum Fins

C-C — Copper Tubing — Copper Fins

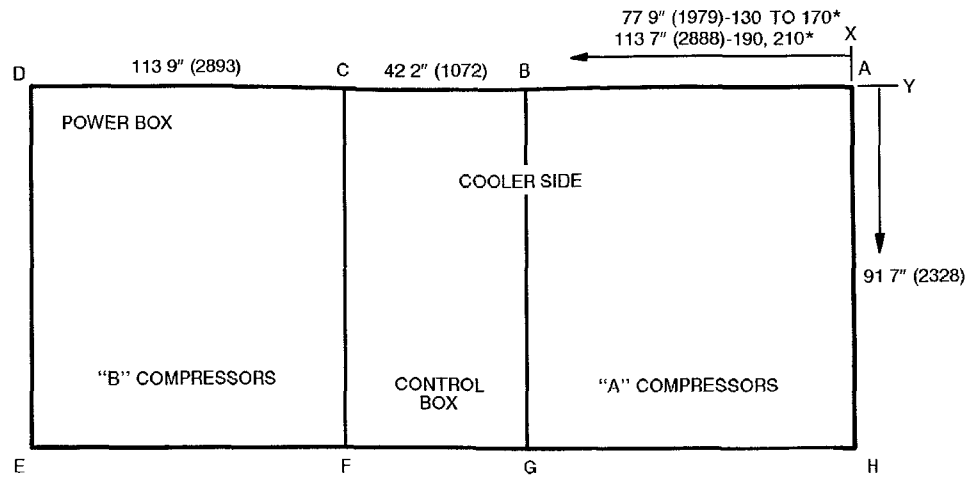
*And associated modules

NOTE: Dimensions in () are millimeters.

RIGGING CENTER OF GRAVITY

UNIT SIZE 30GTN,GTR	130		150,230A-255A		170,270A, 330A/B		190,290A, 360A/B,390B		210,315A,390A, 420A/B	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
X Dimension	112.5	2858	112.1	2849	112.8	2865	136.0	3454	135.6	3444
Y Dimension	49.9	1267	50.5	1283	50.5	1283	50.5	1283	50.0	1270

Fig. 16 — Mounting Weights (Approximate); Unit Sizes 130-210, 230A-315A, 330A/B-420A/B (60 Hz)



50 Hz

UNIT SIZE 30GTN,GTR	CONDENSER COIL	lb							
		A	B	C	D	E	F	G	H
130	C-AL	928	1569	1160	834	1438	1375	1764	1444
	C-C	1056	1696	1287	961	1628	1566	1954	1635
150,230A-255A	C-AL	948	1591	1160	834	1438	1375	1829	1502
	C-C	1075	1719	1287	961	1628	1566	2020	1692
170,270A,330A/B,360B	C-AL	963	1744	1348	873	1527	1673	1849	1466
	C-C	1090	1871	1475	1000	1718	1864	2040	1657
190,290A,360A,390B	C-AL	1365	1953	1807	1127	1430	1839	1765	1621
	C-C	1555	2143	1997	1316	1620	2029	1955	1811
210,315A,390A,420A/B	C-AL	1383	2151	1876	1128	1430	1860	2102	1615
	C-C	1573	2341	2066	1318	1620	2050	2292	1805

50 Hz

UNIT SIZE 30GTN,GTR	CONDENSER COIL	kg							
		A	B	C	D	E	F	G	H
130	C-AL	422	714	527	379	654	625	802	656
	C-C	480	770	585	436	740	711	888	743
150,230A-255A	C-AL	430	723	527	379	653	625	831	682
	C-C	486	781	585	437	740	711	918	769
170,270A,330A/B,360B	C-AL	437	792	612	397	694	760	840	666
	C-C	495	850	670	454	780	847	927	753
190,290A,360A,390B	C-AL	620	887	821	512	650	835	802	736
	C-C	707	974	907	598	736	922	977	823
210,315A,390A,420A/B	C-AL	628	977	852	512	650	845	955	734
	C-C	715	1064	940	599	736	931	1042	820

LEGEND

C-AL — Copper Tubing — Aluminum Fins
C-C — Copper Tubing — Copper Fins

*And associated modules

NOTE Dimensions in () are millimeters

RIGGING CENTER OF GRAVITY

UNIT SIZE 30GTN,GTR	130		150,230A-255A		170,270A, 330A/B,360B		190,290A, 360A,390B		210,315A,390A, 420A/B	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
X Dimension	112 5	2858	112 1	2849	112 8	2865	136.0	3454	135 6	3444
Y Dimension	49 9	1267	50.5	1283	50 5	1283	50 5	1283	50 0	1270

Fig. 17 — Mounting Weights (Approximate); Unit Sizes 130-210, 230A-315A, 330A/B-420A/B (50 Hz)

Table 2A — Physical Data — 60 Hz, English

30GTR UNIT SIZE	040	045	050	060	070	080	090	100	110
SYSTEM MODULES									
APPROX OPERATING WEIGHT (lb)									
Cu-Al	3550	3681	3856	4740	5028	6630	7015	8610	8660
Cu-Cu	3838	3969	4289	5157	5656	7355	7740	9560	9610
REFRIGERANT TYPE									
Charge, Total/Over Clear Glass (lb)									
Ckt A	39/12	40/12	48/12	52/14	70/15	78/15	78/15	98/20	98/20
Ckt B	48/12	46/12	60/12	54/14	69/15	78/15	78/15	105/20	105/20
COMPRESSORS									
Speed (rpm)									
06E* (Qty) Ckt A	(1) 250	(1) 250	(1) 265	(1) 275	(1) 299	(1) 250, (1) 275	(1) 250, (1) 265	(1) 265, (1) 275	(1) 265, (1) 299
06E* (Qty) Ckt B	(1) 250	(1) 265	(1) 275	(1) 299	(1) 299	(1) 299	(2) 265	(1) 265, (1) 275	(1) 265, (1) 275
Oil Charge (Compressor/pt)						250/14.0, 265/19.0, 275/19.0, 299/19.0			
No. Capacity Control Steps	4	4	4	4	4	6	8	8	8
Capacity (%)									
Ckt A	50.0	42.4	47.6	43.3	50.0	56.0	47.0	50.0	54.0
Ckt B	50.0	57.6	52.4	56.7	50.0	44.0	53.0	50.0	46.0
Minimum Capacity Step (%)	25.0	21.2	31.7	28.8	33.3	22.0	18.0	15.0	14.0
CONDENSER FANS									
Standard									
Fan Speed (rpm)									
No. Blades...Dia. (in.)	4...1/0.746	4...1/0.746	4...1/0.746	6...1/0.746	6...1/0.746	6...1/0.746	6...1/0.746	8...1/0.746	8...1/0.746
No. Fans...Hp/kW (each)	35,000	35,000	34,000	52,000	51,000	57,000	57,000	76,000	76,000
Total Airflow (cfm)									
High Static									
Fan Speed (rpm)									
No. Blades...Dia. (in.)	4...5/3.73	4...5/3.73	4...5/3.73	6...5/3.73	6...5/3.73	6...5/3.73	6...5/3.73	8...5/3.73	8...5/3.73
No. Fans...Hp/kW (each)	40,000	40,000	40,000	60,000	60,000	60,000	60,000	80,000	80,000
Total Airflow (cfm)†									
CONDENSER COILS									
Fins/in.	17	17	17	17	17	17	17	17	17
No. Rows (Ckt A or B)	2	2	3	2	3	3	3	3	3
Face Area, Ckt A and B Total (sq ft)	80.5	80.5	80.5	116.7	116.7	128.3	128.3	168.0	168.0
Max Working Pressure Refrigerant (psig)									
One... Direct Expansion, Shell and Tube									
COOLER									
Weight (empty, lb)	485	545	545	620	620	745	745	860	860
No. Refrigerant Circuits									
Net Water Volume, Includes nozzles (gal.)	10.9	13.5	13.5	18.0	18.0	24.5	24.5	30.3	30.3
Max Working Pressure Refrigerant Side (psig)	278	278	278	278	278	278	278	278	278
Max Working Pressure Fluid Side (psig)	300	300	300	300	300	300	300	300	300
FLUID CONNECTIONS (in.)									
Inlet and Outlet	3	3	3	4	4	4	4	5	5
Drain (NPT)									

LEGEND

Cu-Al — Copper Tubing — Aluminum Fins Condenser Coil
Cu-Cu — Copper Tubing — Copper Fins Condenser Coil
OD — Outside Diameter

*06E250 compressors have 4 cylinders; all others have 6.

†Based on rated external static pressure of 0.4 or 1.0 in. wg as appropriate.

NOTE: Facing the compressors, Circuit A is on the right and Circuit B is on the left.

Table 2A — Physical Data — 60 Hz, English (cont)

30GTN.GTR UNIT SIZE		130	150	170	190	210	230	Total	
SYSTEM MODULES		—	—	—	—	—	—	—	
APPROX OPERATING WEIGHT (lb)		10,046 11,318	10,481 11,753	11,293 12,565	12,676 14,195	13,380 14,899	6630 7355	17,111 19,108	—
REFRIGERANT TYPE		R-22							
Charge, Total/Over Clear Glass (lb)		133/28 137/28	143/35 144/35	153/45 162/45	178/30 173/30	190/40 185/40	78/15 78/15	—/— —/—	—/— —/—
COMPRESSORS		Reciprocating, Semi- Hermetic							
Speed (rpm)		1750							
06E* (Qty) Ckt A		(1) 275, (1) 299	(3) 265	(3) 275	(1) 265, (1) 275, (1) 299	(3) 265, (1) 275	(1) 250, (1) 275	—/—	—/—
(Qty) Ckt B		(1) 275, (1) 299	(2) 299	(3) 275	(1) 265, (1) 275, (1) 299	(1) 275, (2) 299	(1) 299	—/—	—/—
Oil Charge (Compressor/pt)		250/14.0, 265/19.0, 275/19.0, 299/19.0							
No. Capacity Control Steps		8	10	12	6	7	6	—	—
Capacity (%)		50	50	50	50	50	56	—	—
Ckt A		50	50	50	50	50	44	—	—
Ckt B		14	11	11	14	12	22	—	—
Minimum Capacity Step (%)		—							
CONDENSER FANS		Propeller, Direct Drive							
Standard		1140	1140	1140	1140	1140	1140	—	—
Fan Speed (rpm)		4...30	4...30	4...30	4...30	4...30	4...30	—	—
No. Blades...Dia. (in.)		10...1/0.746	10...1/0.746	10...1/0.746	12...1/0.746	12...1/0.746	6...1/0.746	16...1/0.746	—
No. Fans...Hp/kW (each)		100,000	100,000	100,000	120,000	120,000	57,000	157,000	—
Total Airflow (cfm)		1740	1740	1740	1740	1740	1740	—	—
High Static		12...30	12...30	12...30	12...30	12...30	12...30	—	—
Fan Speed (rpm)		10...5/3.73	10...5/3.73	10...5/3.73	12...5/3.73	12...5/3.73	6...5/3.73	16...5/3.73	—
No. Blades...Dia. (in.)		100,000	100,000	100,000	120,000	120,000	60,000	160,000	—
No. Fans...Hp/kW (each)		—							
Total Airflow (cfm)†		—							
CONDENSER COILS		¾-in. OD, Vertical and Horizontal, Plate Fin, Enhanced Copper Tubing							
Fins/in.		17	17	17	17	17	17	—	—
No. Rows (Ckt A or B)		3	3	3	3	3	3	—	—
Face Area, Ckt A and B Total (sq ft)		225.1	225.1	225.1	268.9	225.1	128.3	353.4	—
Max Working Pressure Refrigerant (psig)		450	450	450	450	450	450	—	—
COOLER		One Per Module...Direct Expansion, Shell and Tube							
Weight (empty, lb)		1320	1320	1630	1630	1865	745	2065	—
No. Refrigerant Circuits		2	2	2	2	2	2	4	—
Net Water Volume, includes nozzles (gal.)		52.0	52.0	61.0	61.0	70.4	24.5	76.5	—
Max Working Pressure Refrigerant Side (psig)		278	278	278	278	278	278	—	—
Max Working Pressure Fluid Side (psig)		300	300	300	300	300	300	—	—
FLUID CONNECTIONS (in.)		Victaulic Type							
Inlet and Outlet		6	6	6	6	6	4	—	—
Drain (NPT)		¾							

LEGEND

Cu-Al — Copper Tubing — Aluminum Fins Condenser Coil
 Cu-Cu — Copper Tubing — Copper Fins Condenser Coil
 OD — Outside Diameter

*06E250 compressors have 4 cylinders; all others have 6.

†Based on rated external static pressure of 0.4 or 1.0 in. wg as appropriate.

NOTE: Facing the compressors, Circuit A is on the right and Circuit B is on the left.

Table 2A — Physical Data — 60 Hz, English (cont)

30GTR UNIT SIZE			245			255			270		
SYSTEM MODULES			A	B	Total	A	B	Total	A	B	Total
APPROX OPERATING WEIGHT (lb)											
Cu-Al			10,481	7015	17,496	10,481	8610	19,091	11,293	8610	19,903
Cu-Cu			11,753	7740	19,493	11,753	9560	21,313	12,565	9560	22,125
REFRIGERANT TYPE			R-22								
Charge, Total/Over Clear Glass (lb)											
Ckt A			143/35	78/15	—/—	143/35	98/20	—/—	153/45	98/20	—/—
Ckt B			144/35	78/15	—/—	144/35	105/20	—/—	162/45	105/20	—/—
COMPRESSORS			Reciprocating, Semi-Hermetic								
Speed (rpm)			1750								
06E* (Qty) Ckt A			(3) 265	(1) 265	—	(3) 265	(1) 265	—	(3) 275	(1) 275	—
(Qty) Ckt B			(2) 299	(2) 265	—	(2) 299	(1) 265	—	(3) 275	(1) 275	—
Oil Charge (Compressor/pt)			250/14.0, 265/19.0, 275/19.0, 299/19.0								
No. Capacity Control Steps			10	8	—	10	8	—	12	8	—
Capacity (%)			50	47	—	50	50	—	50	50	—
Ckt A			50	53	—	50	50	—	50	50	—
Ckt B			11	18	—	11	15	—	11	15	—
Minimum Capacity Step (%)			—								
CONDENSER FANS			Propeller, Direct Drive								
Standard			1140	1140	—	1140	1140	—	1140	1140	—
Fan Speed (rpm)			4...30	4...30	—	4...30	4...30	—	4...30	4...30	—
No. Blades...Dia. (in.)			10...1/0.746	6...1/0.746	16...1/0.746	10...1/0.746	8...1/0.746	18...1/0.746	10...1/0.746	8...1/0.746	18...1/0.746
No. Fans...Hp/kW (each)			100,000	57,000	157,000	100,000	76,000	176,000	100,000	76,000	176,000
Total Airflow (cfm)			—	—	—	—	—	—	—	—	—
High Static			1740	1740	—	1740	1740	—	1740	1740	—
Fan Speed (rpm)			12...30	12...30	—	12...30	12...30	—	12...30	12...30	—
No. Blades...Dia. (in.)			10...5/3.73	6...5/3.73	16...5/3.73	10...5/3.73	8...5/3.73	18...5/3.73	10...5/3.73	8...5/3.73	18...5/3.73
No. Fans...Hp/kW (each)			100,000	60,000	160,000	100,000	80,000	180,000	100,000	80,000	180,000
Total Airflow (cfm)†			—	—	—	—	—	—	—	—	—
CONDENSER COILS			3/8-in. OD, Vertical and Horizontal, Plate Fin, Enhanced Copper Tubing								
Fins/in.			17	17	—	17	17	—	17	17	—
No. Rows (Ckt A or B)			3	3	—	3	3	—	3	3	—
Face Area, Ckt A and B Total (sq ft)			225.1	128.3	353.4	225.1	168.0	393.1	225.1	168.0	393.1
Max Working Pressure Refrigerant (psig)			450	450	—	450	450	—	450	450	—
COOLER			One Per Module... Direct Expansion, Shell and Tube								
Weight (empty, lb)			1320	745	2065	1320	860	2180	1630	860	2490
No. Refrigerant Circuits			2	2	4	2	2	4	2	2	4
Net Water Volume, includes nozzles (gal.)			52.0	24.5	76.5	52.0	30.3	82.3	61.0	30.3	91.3
Max Working Pressure Refrigerant Side (psig)			278	278	—	278	278	—	278	278	—
Max Working Pressure Fluid Side (psig)			300	300	—	300	300	—	300	300	—
FLUID CONNECTIONS (in.)			Victaulic Type								
Inlet and Outlet			6	4	—	6	5	—	6	5	—
Drain (NPT)			3/4	3/4	—	3/4	3/4	—	3/4	3/4	—

LEGEND

Cu-Al — Copper Tubing — Aluminum Fins Condenser Coil
Cu-Cu — Copper Tubing — Copper Fins Condenser Coil
OD — Outside Diameter

*06E250 compressors have 4 cylinders; all others have 6.

†Based on rated external static pressure of 0.4 or 1.0 in. wg as appropriate.

NOTE: Facing the compressors, Circuit A is on the right and Circuit B is on the left.

Table 2A — Physical Data — 60 Hz, English (cont)

30GTR UNIT SIZE		290			315			330		
SYSTEM MODULES		A	Total	B	A	Total	B	A	Total	B
APPROX OPERATING WEIGHT (lb)										
Cu-Al		12,676	21,336	8660	13,380	22,040	8660	11,293	22,586	11,293
Cu-Cu		14,195	23,805	9610	14,899	24,509	9610	12,565	25,130	12,565
REFRIGERANT TYPE										
Charge, Total/Over Clear Glass (lb)										
Ckt A		178/30	—/—	98/20	190/40	—/—	98/20	153/45	—/—	153/45
Ckt B		173/30	—/—	105/20	185/40	—/—	105/20	162/45	—/—	162/45
COMPRESSORS										
Speed (rpm)										
06E* (Qty) Ckt A		(1) 265, (1) 275, (1) 299	(1) 265, (1) 299	(1) 265, (1) 299	(1) 265, (1) 275	(1) 265, (1) 299	(1) 265, (1) 275	(3) 275	(3) 275	(3) 275
06E* (Qty) Ckt B		(1) 265, (1) 275, (1) 299	(1) 265, (1) 299	(1) 265, (1) 299	(1) 265, (1) 275	(1) 265, (1) 299	(1) 265, (1) 275	(3) 275	(3) 275	(3) 275
Oil Charge (Compressor/pt)										
No. Capacity Control Steps		6	—	8	7	—	8	12	—	12
Capacity (%)										
Ckt A		50	—	54	50	—	54	50	—	50
Ckt B		50	—	46	50	—	46	50	—	50
Minimum Capacity Step (%)		14	—	14	12	—	14	11	—	11
CONDENSER FANS										
Standard										
Fan Speed (rpm)		1140	—	1140	1140	—	1140	1140	—	1140
No. Blades...Dia. (in.)		4...30	—	4...30	4...30	—	4...30	4...30	—	4...30
No. Fans...Hp/kW (each)		12...1/0.746	20...1/0.746	8...1/0.746	12...1/0.746	20...1/0.746	8...1/0.746	10...1/0.746	20...1/0.746	10...1/0.746
Total Airflow (cfm)		120,000	196,000	76,000	120,000	196,000	76,000	100,000	200,000	100,000
High Static										
Fan Speed (rpm)		1740	—	1740	1740	—	1740	1740	—	1740
No. Blades...Dia. (in.)		12...30	—	12...30	12...30	—	12...30	12...30	—	12...30
No. Fans...Hp/kW (each)		12...5/3.73	20...5/3.73	8...5/3.73	12...5/3.73	20...5/3.73	8...5/3.73	10...5/3.73	20...5/3.73	10...5/3.73
Total Airflow (cfm)†		120,000	200,000	80,000	120,000	200,000	80,000	100,000	200,000	100,000
CONDENSER COILS										
Fins/in.		17	—	17	17	—	17	17	—	17
No. Rows (Ckt A or B)		3	—	3	3	—	3	3	—	3
Face Area, Ckt A and B Total (sq ft)		268.9	436.9	168.0	268.9	436.9	168.0	225.1	450.2	225.1
Max Working Pressure Refrigerant (psig)		450	—	450	450	—	450	450	—	450
COOLER										
Weight (empty, lb)		1630	2490	860	1865	2725	860	1630	3260	1630
No. Refrigerant Circuits		2	4	2	2	4	2	2	4	2
Net Water Volume, includes nozzles (gal.)		61.0	91.3	30.3	70.4	100.7	30.3	61.0	122.0	61.0
Max Working Pressure Refrigerant Side (psig)		278	—	278	278	—	278	278	—	278
Max Working Pressure Fluid Side (psig)		300	—	300	300	—	300	300	—	300
FLUID CONNECTIONS (in.)										
Inlet and Outlet		6	—	5	6	—	5	6	—	6
Drain (NPT)		3/4	—	3/4	3/4	—	3/4	3/4	—	3/4

LEGEND

Cu-Al — Copper Tubing — Aluminum Fins Condenser Coil
 Cu-Cu — Copper Tubing — Copper Fins Condenser Coil
 OD — Outside Diameter

*06E250 compressors have 4 cylinders; all others have 6.

†Based on rated external static pressure of 0.4 or 1.0 in. wg as appropriate.

NOTE: Facing the compressors, Circuit A is on the right and Circuit B is on the left.

Table 2A — Physical Data — 60 Hz, English (cont)

SYSTEM MODULES	360			390			420		
	A	B	Total	A	B	Total	A	B	Total
APPROX OPERATING WEIGHT (lb)									
Cu-Al	12,676	12,676	25,352	13,380	12,676	26,056	13,380	13,380	26,760
Cu-Cu	14,195	14,195	28,390	14,899	14,195	29,094	14,899	14,899	29,798
REFRIGERANT TYPE	R-22								
Charge, Total/Over Clear Glass (lb)									
Ckt A	178/30	178/30	—/—	190/40	178/30	—/—	190/40	190/40	—/—
Ckt B	173/30	173/30	—/—	185/40	173/30	—/—	185/40	185/40	—/—
COMPRESSORS	Reciprocating, Semi-Hermetic								
Speed (rpm)	1750								
06E* (Qty) Ckt A	(1) 265, (1) 275, (1) 299	(1) 265, (1) 275, (1) 299	—	(3) 265, (1) 275, (1) 299	(1) 265, (1) 275, (1) 299	—	(3) 265, (1) 275, (1) 299	(1) 265, (1) 275, (1) 299	—
(Qty) Ckt B	(1) 265, (1) 275, (1) 299	(1) 265, (1) 275, (1) 299	—	(1) 275, (2) 299	(1) 265, (1) 275, (1) 299	—	(1) 275, (2) 299	(1) 275, (2) 299	—
Oil Charge (Compressor/pt)	265/19.0, 275/19.0, 299/19.0								
No. Capacity Control Steps	6	6	—	7	6	—	7	7	—
Capacity (%)	50	50	—	50	50	—	50	50	—
Ckt A	50	50	—	50	50	—	50	50	—
Ckt B	14	14	—	12	14	—	12	12	—
Minimum Capacity Step (%)	—								
CONDENSER FANS	Propeller, Direct Drive								
Standard	—								
Fan Speed (rpm)	1140	1140	—	1140	1140	—	1140	1140	—
No. Blades...Dia. (in.)	4...30	4...30	—	4...30	4...30	—	4...30	4...30	—
No. Fans...Hp/kW (each)	12...1/0.746	12...1/0.746	24...1/0.746	12...1/0.746	12...1/0.746	24...1/0.746	12...1/0.746	12...1/0.746	24...1/0.746
Total Airflow (cfm)	120,000	120,000	240,000	120,000	120,000	240,000	120,000	120,000	240,000
High Static	—								
Fan Speed (rpm)	1740	1740	—	1740	1740	—	1740	1740	—
No. Blades...Dia. (in.)	12...30	12...30	—	12...30	12...30	—	12...30	12...30	—
No. Fans...Hp/kW (each)	12...5/3.73	12...5/3.73	24...5/3.73	12...5/3.73	12...5/3.73	24...5/3.73	12...5/3.73	12...5/3.73	24...5/3.73
Total Airflow (cfm)†	120,000	120,000	240,000	120,000	120,000	240,000	120,000	120,000	240,000
CONDENSER COILS	¾-in. OD, Vertical and Horizontal, Plate Fin, Enhanced Copper Tubing								
Fins/in.	17	17	—	17	17	—	17	17	—
No. Rows (Ckt A or B)	3	3	—	3	3	—	3	3	—
Face Area, Ckt A and B Total (sq ft)	268.9	268.9	537.8	268.9	268.9	537.8	268.9	268.9	537.8
Max Working Pressure Refrigerant (psig)	450	450	—	450	450	—	450	450	—
COOLER	One Per Module...Direct Expansion, Shell and Tube								
Weight (empty, lb)	1630	1630	3260	1865	1630	3495	1865	1865	3730
No. Refrigerant Circuits	2	2	4	2	2	4	2	2	4
Net Water Volume, Includes nozzles (gal.)	61.0	61.0	122	70.4	61.0	131.4	70.4	70.4	140.8
Max Working Pressure Refrigerant Side (psig)	278	278	—	278	278	—	278	278	—
Max Working Pressure Fluid Side (psig)	300	300	—	300	300	—	300	300	—
FLUID CONNECTIONS (in.)	Victaulic Type								
Inlet and Outlet	6	6	—	6	6	—	6	6	—
Drain (NPT)	¾	¾	—	¾	¾	—	¾	¾	—

LEGEND

Cu-Al — Copper Tubing — Aluminum Fins Condenser Coil
 Cu-Cu — Copper Tubing — Copper Fins Condenser Coil
 OD — Outside Diameter

*06E250 compressors have 4 cylinders; all others have 6.

†Based on rated external static pressure of 0.4 or 1.0 in. wg as appropriate.

NOTE: Facing the compressors, Circuit A is on the right and Circuit B is on the left.

Table 2B — Physical Data — 60 Hz, SI

30GTN.GTR UNIT SIZE	040	045	050	060	070	080	090	100	110
SYSTEM MODULES									
APPROX OPERATING WEIGHT (kg)									
Cu-Al	1610	1669	1749	2150	2280	3013	3189	3914	3935
Cu-Cu	1741	1800	1945	2339	2565	3343	3518	4346	4368
REFRIGERANT TYPE									
Charge, Total/Over Clear Glass (kg)									
Ckt A	17.7/5.4	18.1/5.4	21.8/5.4	23.6/6.3	31.7/6.8	35.4/6.8	35.4/6.8	44.5/9.1	44.5/9.1
Ckt B	21.8/5.4	20.9/5.4	27.2/5.4	24.5/6.3	31.3/6.8	35.4/6.8	35.4/6.8	47.7/9.1	47.7/9.1
COMPRESSORS									
Speed (r/s)									
06E* (Qty) Ckt A	(1) 250	(1) 250	(1) 265	(1) 275	(1) 299	(1) 250, (1) 275	(1) 250, (1) 265	(1) 265, (1) 275	(1) 265, (1) 275
(Qty) Ckt B	(1) 250	(1) 265	(1) 275	(1) 299	(1) 299	(1) 299	(2) 265	(1) 265, (1) 275	(1) 265, (1) 275
Oil Charge (Compressor/L)									
No. Capacity Control Steps	4	4	4	4	4	6	8	8	8
Capacity (%)									
Ckt A	50.0	42.4	47.6	43.3	50.0	56.0	47.0	50.0	54.0
Ckt B	50.0	57.6	52.4	56.7	50.0	44.0	53.0	50.0	46.0
Minimum Capacity Step (%)	25.0	21.2	31.7	28.8	33.3	22.0	18.0	15.0	14.0
CONDENSER FANS									
Standard									
Fan Speed (r/s)									
No. Blades...Dia. (mm)									
No. Fans...kW (each)	4...0.746	4...0.746	4...0.746	6...0.746	6...0.746	6...0.746	6...0.746	8...0.746	8...0.746
Total Airflow (L/s)	16,517	16,517	16,045	25,540	24,068	26,898	26,898	35,864	35,864
High Static									
Fan Speed (r/s)									
No. Blades...Dia. (mm)									
No. Fans...kW (each)	4...3.73	4...3.73	4...3.73	6...3.73	6...3.73	6...3.73	6...3.73	8...3.73	8...3.73
Total Airflow (L/s)†	18,876	18,876	18,876	28,315	28,315	28,315	28,315	37,750	37,750
CONDENSER COILS									
Fins/in.	669	669	669	669	669	669	669	669	669
No. Rows (Ckt A or B)	2	2	3	2	3	3	3	3	3
Face Area, Ckt A and B Total (sq m)	7.48	7.48	7.48	10.84	10.84	11.92	11.92	15.61	15.61
Max Working Pressure Refrigerant (kPa)				9.53 mm OD, Vertical and Horizontal, Plate Fin, Enhanced Copper Tubing					
COOLER									
Weight (empty, kg)	220	248	248	282	282	338	338	391	391
No. Refrigerant Circuits									
Net Water Volume, Includes nozzles (L)	41.3	51.1	51.1	68.1	68.1	92.7	92.7	114.7	114.7
Max Working Pressure Refrigerant Side (kPa)	1916	1916	1916	1916	1916	1916	1916	1916	1916
Max Working Pressure Fluid Side (kPa)	2068	2068	2068	2068	2068	2068	2068	2068	2068
FLUID CONNECTIONS (in.)									
Inlet and Outlet	3	3	3	4	4	4	4	5	5
Drain (NPT)						3/4			

LEGEND

Cu-Al — Copper Tubing — Aluminum Fins Condenser Coil
Cu-Cu — Copper Tubing — Copper Fins Condenser Coil
OD — Outside Diameter

*06E250 compressors have 4 cylinders; all others have 6.

†Based on rated external static pressure of 100 Pa or 250 Pa, as appropriate.

NOTE: Facing the compressors, Circuit A is on the right and Circuit B is on the left.

Table 2B — Physical Data — 60 Hz, SI (cont)

30GTR UNIT SIZE	130	150	170	190	210	230
SYSTEM MODULES	—	—	—	—	—	—
APPROX OPERATING WEIGHT (kg)						
Cu-Al	4566	4754	5133	5761	6081	6813
Cu-Cu	5144	5342	5711	6452	6772	7747
REFRIGERANT TYPE						
Charge, Total/Over Clear Glass (kg)						
Ckt A	60.5/12.7	65.0/15.9	69.5/20.5	80.9/13.6	86.4/18.2	95.4/16.8
Ckt B	67.3/12.7	65.0/15.9	73.6/20.5	78.6/13.6	84.1/18.2	95.4/16.8
COMPRESSORS						
Speed (r/s)						
06E* (Qty) Ckt A	(1) 275, (1) 299	(3) 265	(3) 275	(1) 265, (1) 275, (1) 299	(3) 265, (1) 275	(1) 250, (1) 275
06E* (Qty) Ckt B	(1) 275, (1) 299	(2) 299	(3) 275	(1) 265, (1) 275, (1) 299	(1) 275, (2) 299	(1) 299
Oil Charge (Compressor/L)				250/6.6, 265/9.0, 275/9.0, 299/9.0		
No. Capacity Control Steps	8	10	12	6	7	6
Capacity (%)						
Ckt A	50	50	50	50	50	56
Ckt B	50	50	50	50	50	56
Minimum Capacity Step (%)	14	11	11	14	12	22
CONDENSER FANS						
Standard						
Fan Speed (r/s)	19.0	19.0	19.0	19.0	19.0	19.0
No. Blades...Dia. (mm)	4...762	4...762	4...762	4...762	4...762	4...762
No. Fans...kW (each)	10...0.746	10...0.746	10...0.746	12...0.746	12...0.746	16...0.746
Total Airflow (L/s)	47,190	47,190	47,190	56,630	56,630	74,088
High Static						
Fan Speed (r/s)	29.0	29.0	29.0	29.0	29.0	29.0
No. Blades...Dia. (mm)	12...762	12...762	12...762	12...762	12...762	12...762
No. Fans...kW (each)	10...3.73	10...3.73	10...3.73	12...3.73	12...3.73	16...3.73
Total Airflow (L/s)†	47,190	47,190	47,190	56,630	56,630	75,505
CONDENSER COILS						
Face Area, Ckt A and B	669	669	669	669	669	669
Face Area, Ckt A and B Total (sq m)	3	3	3	3	3	3
Max Working Pressure Refrigerant (kPa)	20.91	20.91	20.91	24.98	24.98	32.83
	3103	3103	3103	3103	3103	3103
COOLER						
Weight (empty, kg)	600	600	741	741	848	938
No. Refrigerant Circuits	2	2	2	2	2	2
Net Water Volume, includes nozzles (L)	196.8	196.8	230.9	230.9	266.5	290.5
Max Working Pressure Refrigerant Side (kPa)	1916	1916	1916	1916	1916	1916
Max Working Pressure Fluid Side (kPa)	2068	2068	2068	2068	2068	2068
FLUID CONNECTIONS (in.)						
Inlet and Outlet	6	6	6	6	6	4
Drain (NPT)						

LEGEND

Cu-Al — Copper Tubing — Aluminum Fins Condenser Coil
 Cu-Cu — Copper Tubing — Copper Fins Condenser Coil
 OD — Outside Diameter

*06E250 compressors have 4 cylinders; all others have 6.

†Based on rated external static pressure of 100 Pa or 250 Pa, as appropriate.

NOTE: Facing the compressors, Circuit A is on the right and Circuit B is on the left.

Table 2B — Physical Data — 60 Hz, SI (cont)

30GTN.GTR UNIT SIZE		245			255			270		
SYSTEM MODULES		A	B	Total	A	B	Total	A	B	Total
APPROX OPERATING WEIGHT (kg)										
Cu-Al		4754	3189	7943	4754	3914	8668	5133	3914	9,047
Cu-Cu		5342	3518	8860	5342	4346	9688	5711	4346	10,057
REFRIGERANT TYPE										
Charge, Total/Over Clear Glass (kg)										
Ckt A		65.0/15.9	35.4/6.8	—/—	65.0/15.9	44.5/9.1	—/—	69.5/20.5	44.5/9.1	—/—
Ckt B		65.0/15.9	35.4/6.8	—/—	65.0/15.9	47.7/9.1	—/—	73.6/20.5	47.7/9.1	—/—
COMPRESSORS										
Speed (r/s)		(3) 265	(1) 265, (1) 250	—	(3) 265	(1) 265, (1) 275	—	(3) 275	(1) 265, (1) 275	—
06E* Qty) Ckt A		(2) 299	(2) 265	—	(2) 299	(1) 265, (1) 275	—	(3) 275	(1) 265, (1) 275	—
Oil Charge (Compressor/L)				—	250/6.6, 265/9.0, 275/9.0, 299/9.0		—			—
No. Capacity Control Steps		10	8	—	10	8	—	12	8	—
Capacity (%)				—			—			—
Ckt A		50	47	—	50	50	—	50	50	—
Ckt B		50	53	—	50	50	—	50	50	—
Minimum Capacity Step (%)		11	18	—	11	15	—	11	15	—
CONDENSER FANS										
Standard										
Fan Speed (r/s)		19.0	19.0	—	19.0	19.0	—	19.0	19.0	—
No. Blades...Dia. (mm)		4...762	4...762	—	4...762	4...762	—	4...762	4...762	—
No. Fans...kW (each)		10...0.746	6...0.746	16...0.746	10...0.746	8...0.746	18...0.746	10...0.746	8...0.746	18...0.746
Total Airflow (L/s)		47,190	26,898	74,088	47,190	35,864	85,054	47,190	35,864	85,054
High Static				—			—			—
Fan Speed (r/s)		29.0	29.0	—	29.0	29.0	—	29.0	29.0	—
No. Blades...Dia. (mm)		12...762	12...762	—	12...762	12...762	—	12...762	12...762	—
No. Fans...kW (each)		10...3.73	6...3.73	16...3.73	10...3.73	8...3.73	18...3.73	10...3.73	8...3.73	18...3.73
Total Airflow (L/s)†		47,190	28,315	75,505	47,190	37,750	84,940	47,190	37,750	84,940
CONDENSER COILS										
Fins/in.		669	669	—	669	669	—	669	669	—
No. Rows (Ckt A or B)		3	3	—	3	3	—	3	3	—
Face Area, Ckt A and B Total (sq m)		20.91	11.92	32.83	20.91	15.61	36.52	20.91	15.61	36.52
Max Working Pressure Refrigerant (kPa)		3103	3103	—	3103	3103	—	3103	3103	—
COOLER										
Weight (empty, kg)		600	338	938	600	391	991	741	391	1132
No. Refrigerant Circuits		2	2	4	2	2	4	2	2	4
Net Water Volume, includes nozzles (L)		196.8	92.7	289.5	196.8	114.7	311.5	230.9	114.7	345.6
Max Working Pressure Refrigerant Side (kPa)		1916	1916	—	1916	1916	—	1916	1916	—
Max Working Pressure Fluid Side (kPa)		2068	2068	—	2068	2068	—	2068	2068	—
FLUID CONNECTIONS (in.)										
Inlet and Outlet		6	4	—	6	5	—	6	5	—
Drain (NPT)		3/4	3/4	—	3/4	3/4	—	3/4	3/4	—

LEGEND

Cu-Al — Copper Tubing — Aluminum Fins Condenser Coil
 Cu-Cu — Copper Tubing — Copper Fins Condenser Coil
 OD — Outside Diameter

*06E250 compressors have 4 cylinders; all others have 6.

†Based on rated external static pressure of 100 Pa or 250 Pa, as appropriate.

NOTE: Facing the compressors, Circuit A is on the right and Circuit B is on the left.

Table 2B — Physical Data — 60 Hz, SI (cont)

30GTN,GTR UNIT SIZE				290				315				330			
SYSTEM MODULES				A	B	Total	A	B	Total	A	B	Total	A	B	Total
APPROX OPERATING WEIGHT (kg)															
Cu-Al				5761	3935	9,696	6081	3935	10,016	5133	5133	10,266	5133	5133	10,266
Cu-Cu				6452	4368	10,820	6772	4368	11,140	5711	5711	11,422	5711	5711	11,422
REFRIGERANT TYPE				R-22											
Charge, Total/Over Clear Glass (kg)															
Ckt A				80.9/13.6	44.5/9.1	—/—	86.4/18.2	44.5/9.1	—/—	69.5/20.5	69.5/20.5	—/—	69.5/20.5	69.5/20.5	—/—
Ckt B				78.6/13.6	47.7/9.1	—/—	84.1/18.2	47.7/9.1	—/—	73.6/20.5	73.6/20.5	—/—	73.6/20.5	73.6/20.5	—/—
COMPRESSORS				Reciprocating, Semi-Hermetic											
Speed (r/s)				(1) 265, (1) 275, (1) 299	(1) 265, (1) 299	—	(3) 265, (1) 275	(1) 265, (1) 299	—	(3) 275	(3) 275	—	(3) 275	(3) 275	—
06E* (Qty) Ckt A				(1) 265, (1) 275, (1) 299	(1) 265, (1) 275	—	(1) 275, (2) 299	(1) 265, (1) 275	—	(3) 275	(3) 275	—	(3) 275	(3) 275	—
06E* (Qty) Ckt B				(1) 265, (1) 275, (1) 299	(1) 265, (1) 275	—	265/9.0, 275/9.0, 299/9.0	265/9.0, 275/9.0, 299/9.0	—	12	12	—	12	12	—
Oil Charge (Compressor/L)				6	8	—	7	8	—	12	12	—	12	12	—
No. Capacity Control Steps				50	54	—	50	54	—	50	50	—	50	50	—
Capacity (%)				50	46	—	50	46	—	50	50	—	50	50	—
Ckt A				14	14	—	12	14	—	11	11	—	11	11	—
Ckt B				14	14	—	12	14	—	11	11	—	11	11	—
Minimum Capacity Step (%)				—	—	—	—	—	—	—	—	—	—	—	—
CONDENSER FANS				Propeller, Direct Drive											
Standard				19.0	19.0	—	19.0	19.0	—	19.0	19.0	—	19.0	19.0	—
Fan Speed (r/s)				4...762	4...762	—	4...762	4...762	—	4...762	4...762	—	4...762	4...762	—
No. Blades...Dia. (mm)				12...0.746	8...0.746	20...0.746	12...0.746	8...0.746	20...0.746	10...0.746	10...0.746	20...0.746	10...0.746	10...0.746	20...0.746
No. Fans...kW (each)				56,630	35,864	92,494	56,630	35,864	92,494	47,190	47,190	94,380	47,190	47,190	94,380
Total Airflow (L/s)				—	—	—	—	—	—	—	—	—	—	—	—
High Static				29.0	29.0	—	29.0	29.0	—	29.0	29.0	—	29.0	29.0	—
Fan Speed (r/s)				12...762	12...762	—	12...762	12...762	—	12...762	12...762	—	12...762	12...762	—
No. Blades...Dia. (mm)				12...3.73	8...3.73	20...3.73	12...3.73	8...3.73	20...3.73	10...3.73	10...3.73	20...3.73	10...3.73	10...3.73	20...3.73
No. Fans...kW (each)				56,630	37,750	94,380	56,630	37,750	94,380	47,190	47,190	94,380	47,190	47,190	94,380
Total Airflow (L/s)†				—	—	—	—	—	—	—	—	—	—	—	—
CONDENSER COILS				9.53 mm OD, Vertical and Horizontal, Plate Fin, Enhanced Copper Tubing											
Fins/m				669	669	—	669	669	—	669	669	—	669	669	—
No. Rows (Ckt A or B)				3	3	—	3	3	—	3	3	—	3	3	—
Face Area, Ckt A and B Total (sq m)				24.98	15.61	40.59	24.98	15.61	40.59	20.91	20.91	41.82	20.91	20.91	41.82
Max Working Pressure Refrigerant (kPa)				3103	3103	—	3103	3103	—	3103	3103	—	3103	3103	—
COOLER				One Per Module...Direct Expansion, Shell and Tube											
Weight (empty, kg)				741	391	1132	848	391	1239	741	741	1482	741	741	1482
No. Refrigerant Circuits				2	2	4	2	2	4	2	2	4	2	2	4
Net Water Volume, includes nozzles (L)				230.9	114.7	345.6	266.5	114.7	381.2	230.9	230.9	461.8	230.9	230.9	461.8
Max Working Pressure Refrigerant Side (kPa)				1916	1916	—	1916	1916	—	1916	1916	—	1916	1916	—
Max Working Pressure Fluid Side (kPa)				2068	2068	—	2068	2068	—	2068	2068	—	2068	2068	—
FLUID CONNECTIONS (in.)				Victaulic Type											
Inlet and Outlet				6	5	—	6	5	—	6	6	—	6	6	—
Drain (NPT)				3/4	3/4	—	3/4	3/4	—	3/4	3/4	—	3/4	3/4	—

LEGEND

Cu-Al — Copper Tubing — Aluminum Fins Condenser Coil
Cu-Cu — Copper Tubing — Copper Fins Condenser Coil
OD — Outside Diameter

*06E250 compressors have 4 cylinders; all others have 6.

†Based on rated external static pressure of 100 Pa or 250 Pa, as appropriate.

NOTE: Facing the compressors, Circuit A is on the right and Circuit B is on the left.

Table 2B — Physical Data — 60 Hz, SI (cont)

30GTR UNIT SIZE	360			390			420		
	A	B	Total	A	B	Total	A	B	Total
SYSTEM MODULES									
APPROX OPERATING WEIGHT (kg)									
Cu-Al	5761	5761	11,522	6081	5761	11,842	6081	6081	12,162
Cu-Cu	6452	6452	12,904	6772	6452	13,224	6772	6772	13,544
REFRIGERANT TYPE									
Charge, Total/Over Clear Glass (kg)									
Ckt A	80.9/13.6	80.9/13.6	—/—	86.4/18.2	80.9/13.6	—/—	86.4/18.2	86.4/18.2	—/—
Ckt B	78.6/13.6	78.6/13.6	—/—	84.1/18.2	78.6/13.6	—/—	84.1/18.2	84.1/18.2	—/—
COMPRESSORS									
Speed (r/s)									
06F* (Qty) Ckt A	(1) 265, (1) 275, (1) 299	(1) 265, (1) 275, (1) 299	—	(3) 265, (1) 275, (1) 299	(1) 265, (1) 275, (1) 299	—	(3) 265, (1) 275, (1) 299	(3) 265, (1) 275, (1) 299	—
06F* (Qty) Ckt B	(1) 265, (1) 275, (1) 299	(1) 265, (1) 275, (1) 299	—	(1) 275, (2) 299	(1) 265, (1) 275, (1) 299	—	(1) 275, (2) 299	(1) 275, (2) 299	—
Oil Charge (Compressor/L)									
No. Capacity Control Steps	6	6	—	7	6	—	7	7	—
Capacity (%)									
Ckt A	50	50	—	50	50	—	50	50	—
Ckt B	50	50	—	50	50	—	50	50	—
Minimum Capacity Step (%)	14	14	—	12	14	—	12	12	—
CONDENSER FANS									
Standard									
Fan Speed (r/s)	19.0	19.0	—	19.0	19.0	—	19.0	19.0	—
No. Blades, Dia. (mm)	4...762	4...762	—	12...0.746	4...762	—	12...0.746	4...762	—
No. Fans...kW (each)	12...0.746	12...0.746	24...0.746	12...0.746	12...0.746	24...0.746	12...0.746	12...0.746	24...0.746
Total Airflow (L/s)	56,630	56,630	113,260	56,630	56,630	113,260	56,630	56,630	113,260
High Static									
Fan Speed (r/s)	29.0	29.0	—	29.0	29.0	—	29.0	29.0	—
No. Blades, Dia. (mm)	12...762	12...762	—	12...762	12...762	—	12...762	12...762	—
No. Fans...kW (each)	12...3.73	12...3.73	24...3.73	12...44.4	12...3.73	24...3.73	12...3.73	12...3.73	24...3.73
Total Airflow (L/s)†	56,630	56,630	113,260	56,630	56,630	113,260	56,630	56,630	113,260
CONDENSER COILS									
Face Area, Ckt A or B	669	669	—	669	669	—	669	669	—
Max Working Pressure Refrigerant (kPa)	3	3	—	3	3	—	3	3	—
Face Area, Ckt A and B Total (sq m)	24.98	24.98	49.96	24.98	24.98	49.96	24.98	24.98	49.96
Max Working Pressure Refrigerant (kPa)	3103	3103	—	3103	3103	—	3103	3103	—
COOLER									
Weight (empty, kg)	741	741	1482	848	741	1589	848	848	1696
No. Refrigerant Circuits	2	2	4	2	2	4	2	2	4
Net Water Volume, includes nozzles (L)	230.9	230.9	461.8	266.5	230.9	497.4	266.5	266.5	533.0
Max Working Pressure Refrigerant Side (kPa)	1916	1916	—	1916	1916	—	1916	1916	—
Max Working Pressure Fluid Side (kPa)	2068	2068	—	2068	2068	—	2068	2068	—
FLUID CONNECTIONS (in.)									
Inlet and Outlet	6	6	—	6	6	—	6	6	—
Drain (NPT)	3/4	3/4	—	3/4	3/4	—	3/4	3/4	—

LEGEND

Cu-Al — Copper Tubing — Aluminum Fins Condenser Coil
Cu-Cu — Copper Tubing — Copper Fins Condenser Coil
OD — Outside Diameter

*06E250 compressors have 4 cylinders; all others have 6.
†Based on rated external static pressure of 100 Pa or 250 Pa, as appropriate.

NOTE: Facing the compressors, Circuit A is on the right and Circuit B is on the left.

Table 3A — Physical Data — 50 Hz, English

30GTR UNIT SIZE	040	045	050	060	070	080	090	100	110
SYSTEM MODULES	—	—	—	—	—	—	—	—	—
APPROX OPERATING WEIGHT (lb)									
Cu-Al	3550	3736	3916	4780	5453	6720	7135	8710	8840
Cu-Cu	3878	4024	4329	5197	6081	7445	7860	9660	9790
REFRIGERANT TYPE									
Charge, Total/Over Clear Glass (lb)									
Ckt A	39/12	40/12	48/12	52/14	71/15	78/15	78/15	98/20	98/20
Ckt B	48/12	46/12	60/12	54/14	69/15	78/15	78/15	105/20	105/20
COMPRESSORS									
Speed (rpm)									
06E* (Qty) Ckt A	(1) 250	(1) 265	(1) 275	(1) 299	(1) 265, (1) 265	(1) 265, (1) 299	(1) 265, (1) 299	(1) 265, (1) 299	(2) 299
06E* (Qty) Ckt B	(1) 265	(1) 275	(1) 299	(1) 299	(1) 299	(1) 299	(1) 265, (1) 275	(1) 265, (1) 299	(2) 299
Oil Charge (Compressor/pt)									
No. Capacity Control Steps	4	4	4	4	250/14.0, 265/19.0, 275/19.0, 299/19.0	6	8	8	8
Capacity (%)									
Ckt A	42.4	47.6	43.3	50.0	58.0	62.0	54.0	50.0	50.0
Ckt B	57.6	52.4	56.7	50.0	42.0	38.0	46.0	50.0	50.0
Minimum Capacity Step (%)	21.2	31.7	28.8	33.3	19.3	16.0	14.0	13.0	17.0
CONDENSER FANS									
Standard									
Fan Speed (rpm)									
No. Blades...Dia. (in.)									
No. Fans...Hp/kW (each)	4...1/0.746	4...1/0.746	4...1/0.746	6...1/0.746	6...1/0.746	6...1/0.746	6...1/0.746	8...1/0.746	8...1/0.746
Total Airflow (cfm)	35,000	35,000	34,000	52,000	51,000	57,000	57,000	76,000	76,000
High Static									
Fan Speed (rpm)									
No. Blades...Dia. (in.)									
No. Fans...Hp/kW (each)	4...5/3.73	4...5/3.73	4...5/3.73	6...5/3.73	6...5/3.73	6...5/3.73	6...5/3.73	8...5/3.73	8...5/3.73
Total Airflow (cfm)†	40,000	40,000	40,000	60,000	60,000	60,000	60,000	80,000	80,000
CONDENSER COILS									
Fins/in.	17	17	17	17	17	17	17	17	17
No. Rows (Ckt A or B)	2	2	3	2	3	3	3	3	3
Face Area, Ckt A and B Total (sq ft)	80.5	80.5	80.5	116.7	116.7	128.3	128.3	168.0	168.0
Max Working Pressure Refrigerant (psig)									
COOLER									
Weight (empty, lb)	485	545	545	620	620	745	745	860	860
No. Refrigerant Circuits									
Net Water Volume, includes nozzles (gal.)	10.9	13.5	13.5	18.0	18.0	24.5	24.5	30.3	30.3
Max Working Pressure Refrigerant Side (psig)	278	278	278	278	278	278	278	278	278
Max Working Pressure Fluid Side (psig)	300	300	300	300	300	300	300	300	300
FLUID CONNECTIONS (in.)									
Inlet and Outlet	3	3	3	4	4	4	4	5	5
Drain (NPT)									

LEGEND

Cu-Al — Copper Tubing — Aluminum Fins Condenser Coil
Cu-Cu — Copper Tubing — Copper Fins Condenser Coil
OD — Outside Diameter

*06E250 compressors have 4 cylinders; all others have 6.

†Based on rated external static pressure of 0.4 or 1.0 in. wg as appropriate.

NOTE: Facing the compressors, Circuit A is on the right and Circuit B is on the left.

Table 3A — Physical Data — 50 Hz, English (cont)

30GTN,GTR UNIT SIZE		130	150	170	190	210	230	
SYSTEM MODULES		—	—	—	—	—	A	B
APPROX OPERATING WEIGHT (lb)								Total
Cu-Al		10,511	10,676	11,443	12,906	13,545	10,676	6720
Cu-Cu		11,783	11,948	12,715	14,425	15,064	11,948	7445
REFRIGERANT TYPE		R-22						
Charge, Total/Over Clear Glass (lb)								
Ckt A		133/28	143/35	153/45	178/30	190/40	143/35	78/15
Ckt B		137/28	144/35	162/45	173/30	185/40	144/35	78/15
COMPRESSORS		Reciprocating, Semi-Hermetic						
Speed (rpm)								
06E* (Qty) Ckt A		(1) 265, (2) 275	(3) 299	(2) 275, (1) 299	(3) 299	(2) 265, (1) 299	(3) 299	(1) 265, (1) 299
(Qty) Ckt B		(2) 299	(2) 299	(1) 275, (2) 299	(3) 299	(3) 299	(2) 299	(1) 299
Oil Charge (Compressor/pt)					265/19.0, 275/19.0, 299/19.0			
No. Capacity Control Steps		10	10	12	6	7	10	6
Capacity (%)								
Ckt A		52	60	48	50	52	60	62
Ckt B		48	40	52	50	48	40	38
Minimum Capacity Step (%)		10	13	10	17	10	13	16
CONDENSER FANS		Propeller, Direct Drive						
Standard		950	950	950	950	950	950	950
Fan Speed (rpm)		6...30	6...30	6...30	6...30	6...30	6...30	6...30
No. Blades...Dia. (in.)		10...1/0.746	10...1/0.746	10...1/0.746	12...1/0.746	12...1/0.746	10...1/0.746	6...1/0.746
No. Fans...Hp/kW (each)		100,000	100,000	100,000	120,000	120,000	100,000	57,000
Total Airflow (cfm)								
High Static								
Fan Speed (rpm)		1445	1445	1445	1445	1445	1445	1445
No. Blades...Dia. (in.)		12...30	12...30	12...30	12...30	12...30	12...30	12...30
No. Fans...Hp/kW (each)		10...5/3.73	10...5/3.73	10...5/3.73	12...5/3.73	12...5/3.73	10...5/3.73	6...5/3.73
Total Airflow (cfm)†		100,000	100,000	100,000	120,000	120,000	100,000	60,000
CONDENSER COILS		%in. OD, Vertical and Horizontal, Plate Fin, Enhanced Copper Tubing						
Fins/in.		17	17	17	17	17	17	17
No. Rows (Ckt A or B)		3	3	3	3	3	3	3
Face Area, Ckt A and B Total (sq ft)		225.1	225.1	225.1	268.9	268.9	225.1	128.3
Max Working Pressure Refrigerant (psig)		450	450	450	450	450	450	450
COOLER		One Per Module... Direct Expansion, Shell and Tube						
Weight (empty, lb)		1320	1320	1630	1630	1865	1320	745
No. Refrigerant Circuits		2	2	2	2	2	2	2
Net Water Volume, includes nozzles (gal.)		52.0	52.0	61.0	61.0	70.4	52.0	24.5
Max Working Pressure Refrigerant Side (psig)		278	278	278	278	278	278	278
Max Working Pressure Fluid Side (psig)		300	300	300	300	300	300	300
FLUID CONNECTIONS (in.)		Victaulic Type						
Inlet and Outlet		6	6	6	6	6	6	4
Drain (NPT)						3/4		

LEGEND

Cu-Al — Copper Tubing — Aluminum Fins Condenser Coil
Cu-Cu — Copper Tubing — Copper Fins Condenser Coil
OD — Outside Diameter

*06E250 compressors have 4 cylinders; all others have 6.

†Based on rated external static pressure of 0.4 or 1.0 in. wg as appropriate.

NOTE: Facing the compressors, Circuit A is on the right and Circuit B is on the left.

Table 3A — Physical Data — 50 Hz, English (cont)

30GTR UNIT SIZE			245		255		270	
SYSTEM MODULES			A	B	Total	A	B	Total
APPROX OPERATING WEIGHT (lb)								
Cu-Al			10,676	7135	17,811	10,676	8710	19,386
Cu-Cu			11,948	7860	19,808	11,948	9660	21,608
REFRIGERANT TYPE			R-22					
Charge, Total/Over Clear Glass (lb)								
Ckt A			143/35	78/15	—/—	143/35	98/20	—/—
Ckt B			144/35	78/15	—/—	144/35	105/20	—/—
COMPRESSORS			Reciprocating, Semi-Hermetic					
Speed (rpm)			1450					
06E* (Qty) Ckt A			(3) 299	(1) 265, (1) 299	—	(3) 299	(1) 265, (1) 299	—
06E* (Qty) Ckt B			(2) 299	(1) 265, (1) 275	—	(2) 299	(1) 265, (1) 299	—
Oil Charge (Compressor/pt)			—	—	—	—	—	—
No. Capacity Control Steps			—	265/19.0, 275/19.0, 299/19.0	—	—	—	—
Capacity (%)			10	8	—	10	8	—
Ckt A			60	54	—	60	48	—
Ckt B			40	46	—	40	50	—
Minimum Capacity Step (%)			13	14	—	13	10	—
CONDENSER FANS			Propeller, Direct Drive					
Standard			950	950	—	950	950	—
Fan Speed (rpm)			6...30	6...30	—	6...30	6...30	—
No. Blades...Dia. (in.)			10...1/0.746	6...1/0.746	16...1/0.746	10...1/0.746	8...1/0.746	18...1/0.746
No. Fans...Hp/kW (each)			100,000	57,000	157,000	100,000	76,000	176,000
Total Airflow (cfm)			—	—	—	—	—	—
High Static			1445	1445	—	1445	1445	—
Fan Speed (rpm)			12...30	12...30	—	12...30	12...30	—
No. Blades...Dia. (in.)			10...5/3.73	6...5/3.73	16...5/3.73	10...5/3.73	8...5/3.73	18...5/3.73
No. Fans...Hp/kW (each)			100,000	60,000	160,000	100,000	80,000	180,000
Total Airflow (cfm)†			—	—	—	—	—	—
CONDENSER COILS			¾-in. OD, Vertical and Horizontal, Plate Fin, Enhanced Copper Tubing					
Fins/in.			17	17	—	17	17	—
No. Rows (Ckt A or B)			3	3	—	3	3	—
Face Area, Ckt A and B Total (sq ft)			225.1	128.3	353.4	225.1	168.0	393.1
Max Working Pressure Refrigerant (psig)			450	450	—	450	450	—
COOLER			One Per Module... Direct Expansion, Shell and Tube					
Weight (empty, lb)			1320	745	2065	1320	860	2180
No. Refrigerant Circuits			2	2	4	2	2	4
Net Water Volume, includes nozzles (gal.)			52.0	24.5	76.5	52.0	30.3	82.3
Max Working Pressure Refrigerant Side (psig)			278	278	—	278	278	—
Max Working Pressure Fluid Side (psig)			300	300	—	300	300	—
FLUID CONNECTIONS (in.)			Victaulic Type					
Inlet and Outlet			6	4	—	6	5	—
Drain (NPT)			¾	¾	—	¾	¾	—

LEGEND

Cu-Al — Copper Tubing — Aluminum Fins Condenser Coil
 Cu-Cu — Copper Tubing — Copper Fins Condenser Coil
 OD — Outside Diameter

*06E250 compressors have 4 cylinders; all others have 6.

†Based on rated external static pressure of 0.4 or 1.0 in. wg as appropriate.

NOTE: Facing the compressors, Circuit A is on the right and Circuit B is on the left.

Table 3A — Physical Data — 50 Hz, English (cont)

SYSTEM MODULES	290			315			330		
	A	B	Total	A	B	Total	A	B	Total
APPROX OPERATING WEIGHT (lb)									
Cu-Al	12,906	8840	21,746	13,545	8840	22,385	11,443	11,443	22,886
Cu-Cu	14,425	9790	24,215	15,064	9790	24,854	12,715	12,715	25,430
REFRIGERANT TYPE									
Charge, Total/Over Clear Glass (lb)									
Ckt A	178/30	98/20	—/—	190/40	98/20	—/—	153/45	153/45	—/—
Ckt B	173/30	105/20	—/—	185/40	105/20	—/—	162/45	162/45	—/—
COMPRESSORS									
Speed (rpm)									
06E* (Qty) Ckt A	(3) 299	(2) 299	—	(2) 265, (2) 299	(2) 299	—	(2) 275, (1) 299	(2) 275, (1) 299	—
06E* (Qty) Ckt B	(3) 299	(2) 299	—	(3) 299	(2) 299	—	(1) 275, (2) 299	(1) 275, (2) 299	—
Oil Charge (Compressor/pt)									
No. Capacity Control Steps	6	8	—	7	8	—	12	12	—
Capacity (%)									
Ckt A	50	50	—	52	50	—	48	48	—
Ckt B	50	50	—	48	50	—	52	52	—
Minimum Capacity Step (%)	17	17	—	10	17	—	10	10	—
CONDENSER FANS									
Standard									
Fan Speed (rpm)	950	950	—	950	950	—	950	950	—
No. Blades...Dia. (in.)	6...30	6...30	—	6...30	6...30	—	6...30	6...30	—
No. Fans...Hp/kW (each)	12...1/0.746	8...1/0.746	20...1/0.746	12...1/0.746	8...1/0.746	20...1/0.746	10...1/0.746	10...1/0.746	20...1/0.746
Total Airflow (cfm)	120,000	76,000	196,000	120,000	76,000	196,000	100,000	100,000	200,000
High Static									
Fan Speed (rpm)	1445	1445	—	1445	1445	—	1445	1445	—
No. Blades...Dia. (in.)	12...30	12...30	—	12...30	12...30	—	12...30	12...30	—
No. Fans...Hp/kW (each)	12...5/3.73	8...5/3.73	20...5/3.73	12...5/3.73	8...5/3.73	20...5/3.73	10...5/3.73	10...5/3.73	20...5/3.73
Total Airflow (cfm)†	120,000	80,000	200,000	120,000	80,000	200,000	100,000	100,000	200,000
CONDENSER COILS									
Fins/in.	17	17	—	17	17	—	17	17	—
No. Rows (Ckt A or B)	3	3	—	3	3	—	3	3	—
Face Area, Ckt A and B Total (sq ft)	268.9	168.0	436.9	268.9	168.0	436.9	225.1	225.1	450.2
Max Working Pressure Refrigerant (psig)	450	450	—	450	450	—	450	450	—
COOLER									
Weight (empty, lb)	1630	860	2490	1665	860	2725	1630	1630	3260
No. Refrigerant Circuits	2	2	4	2	2	4	2	2	4
Net Water Volume, includes nozzles (gal.)	61.0	30.3	91.3	70.4	30.3	100.7	61.0	61.0	122.0
Max Working Pressure Refrigerant Side (psig)	278	278	—	278	278	—	278	278	—
Max Working Pressure Fluid Side (psig)	300	300	—	300	300	—	300	300	—
FLUID CONNECTIONS (in.)									
Inlet and Outlet	6	5	—	6	5	—	6	6	—
Drain (NPT)	3/4	3/4	—	3/4	3/4	—	3/4	3/4	—

LEGEND

Cu-Al — Copper Tubing — Aluminum Fins Condenser Coil
Cu-Cu — Copper Tubing — Copper Fins Condenser Coil
OD — Outside Diameter

*06E250 compressors have 4 cylinders; all others have 6.

†Based on rated external static pressure of 0.4 or 1.0 in. wg as appropriate.

NOTE: Facing the compressors, Circuit A is on the right and Circuit B is on the left.

Table 3A — Physical Data — 50 Hz, English (cont)

30GTR UNIT SIZE			360			390			420		
SYSTEM MODULES			A	B	Total	A	B	Total	A	B	Total
APPROX OPERATING WEIGHT (lb)											
Cu-Al			12,906	11,443	24,349	13,545	12,906	26,451	13,545	13,545	27,090
Cu-Cu			14,425	12,715	27,140	15,064	14,425	29,489	15,064	15,064	30,128
REFRIGERANT TYPE			R-22								
Charge, Total/Over Clear Glass (lb)											
Ckt A			178/30	153/45	—/—	190/40	178/30	—/—	190/40	190/40	—/—
Ckt B			173/30	162/45	—/—	185/40	173/30	—/—	185/40	185/40	—/—
COMPRESSORS			Reciprocating, Semi-Hermetic								
Speed (rpm)			(3) 299	(2) 275, (1) 299	—	(2) 265, (2) 299	(3) 299	—	(2) 265, (2) 299	(2) 265, (2) 299	—
06E* (Qty) Ckt A			(3) 299	(1) 275, (2) 299	—	(3) 299	(3) 299	—	(3) 299	(3) 299	—
Oil Charge (Compressor/pt)			—	—	—	265/19.0, 275/19.0, 299/19.0	—	—	—	—	—
No. Capacity Control Steps			6	12	—	7	6	—	7	7	—
Capacity (%)			—	—	—	—	—	—	—	—	—
Ckt A			50	48	—	52	50	—	52	52	—
Ckt B			50	52	—	48	50	—	48	48	—
Minimum Capacity Step (%)			17	19	—	10	17	—	10	10	—
CONDENSER FANS			Propeller, Direct Drive								
Standard			950	950	—	950	950	—	950	950	—
Fan Speed (rpm)			6...30	6...30	—	6...30	6...30	—	6...30	6...30	—
No. Blades...Dia. (in.)			12...1/0.746	12...1/0.746	24...1/0.746	12...1/0.746	12...1/0.746	24...1/0.746	12...1/0.746	12...1/0.746	24...1/0.746
No. Fans...Hp/kW (each)			120,000	100,000	220,000	120,000	120,000	240,000	120,000	120,000	240,000
Total Airflow (cfm)			—	—	—	—	—	—	—	—	—
High Static			1445	1445	—	1445	1445	—	1445	1445	—
Fan Speed (rpm)			12...30	12...30	—	12...30	12...30	—	12...30	12...30	—
No. Blades...Dia. (in.)			12...5/3.73	12...5/3.73	24...5/3.73	12...5/3.73	12...5/3.73	24...5/3.73	12...5/3.73	12...5/3.73	24...5/3.73
No. Fans...Hp/kW (each)			120,000	100,000	220,000	120,000	120,000	240,000	120,000	120,000	240,000
Total Airflow (cfm)†			—	—	—	—	—	—	—	—	—
CONDENSER COILS			3/8-in. OD, Vertical and Horizontal, Plate Fin, Enhanced Copper Tubing								
Fins/in.			17	17	—	17	17	—	17	17	—
No. Rows (Ckt A or B)			3	3	—	3	3	—	3	3	—
Face Area, Ckt A and B Total (sq ft)			268.9	225.1	494.0	268.9	268.9	537.8	268.9	268.9	537.8
Max Working Pressure Refrigerant (psig)			450	450	—	450	450	—	450	450	—
COOLER			One Per Module... Direct Expansion, Shell and Tube								
Weight (empty, lb)			1630	1630	3260	1865	1630	3495	1865	1865	3730
No. Refrigerant Circuits			2	2	4	2	2	4	2	2	4
Net Water Volume, includes nozzles (gal.)			61.0	61.0	122	70.4	61.0	131.4	70.4	70.4	140.8
Max Working Pressure Refrigerant Side (psig)			278	278	—	278	278	—	278	278	—
Max Working Pressure Fluid Side (psig)			300	300	—	300	300	—	300	300	—
FLUID CONNECTIONS (in.)			Victaulic Type								
Inlet and Outlet			6	6	—	6	6	—	6	6	—
Drain (NPT)			3/4	3/4	—	3/4	3/4	—	3/4	3/4	—

LEGEND

Cu-Al — Copper Tubing — Aluminum Fins Condenser Coil
Cu-Cu — Copper Tubing — Copper Fins Condenser Coil
OD — Outside Diameter

*06E250 compressors have 4 cylinders; all others have 6.
†Based on rated external static pressure of 0.4 or 1.0 in. wg as appropriate.

NOTE: Facing the compressors, Circuit A is on the right and Circuit B is on the left.

Table 3B — Physical Data — 50 Hz, SI

30G TN, GTR UNIT SIZE	040	045	050	060	070	080	090	100	110
SYSTEM MODULES									
APPROX OPERATING WEIGHT (kg)									
Cu-Al	1628	1694	1776	2168	2473	3055	3243	3960	4018
Cu-Cu	1759	1825	1972	2357	2758	3384	3573	4390	4450
REFRIGERANT TYPE									
Charge, Total/over Clear Glass (kg)									
Ckt A	17.7/5.4	18.1/5.4	21.8/5.4	23.6/6.3	32.2/6.8	35.4/6.8	35.4/6.8	44.5/9.1	44.5/9.1
Ckt B	21.8/5.4	20.9/5.4	27.2/5.4	24.5/6.3	31.3/6.8	35.4/6.8	35.4/6.8	47.7/9.1	47.7/9.1
COMPRESSORS									
Speed (r/s)									
06E* (Qty) Ckt A	(1) 250	(1) 265	(1) 275	(1) 299	(1) 265, (1) 265	(1) 265, (1) 299	(1) 265, (1) 299	(1) 265, (1) 299	(2) 299
(Qty) Ckt B	(1) 265	(1) 275	(1) 299	(1) 299	(1) 299	(1) 299	(1) 265, (1) 275	(1) 265, (1) 299	(2) 299
Oil Charge (Compressor/L)									
No. Capacity Control Steps	4	4	4	4	4	6	8	8	8
Capacity (%)									
Ckt A	42.4	47.6	43.3	50.0	58.0	62.0	54.0	50.0	50.0
Ckt B	57.6	52.4	56.7	50.0	42.0	38.0	46.0	50.0	50.0
Minimum Capacity Step (%)	21.2	31.7	28.8	33.3	19.3	16.0	14.0	13.0	17.0
CONDENSER FANS									
Standard									
Fan Speed (r/s)									
No. Blades...Dia. (mm)									
No. Fans...kW (each)	4...0.746	4...0.746	4...0.746	6...0.746	6...0.746	6...0.746	6...0.746	8...0.746	8...0.746
Total Airflow (L/s)	16,517	16,517	16,045	25,540	24,068	26,898	26,898	35,864	35,864
High Static									
Fan Speed (r/s)									
No. Blades...Dia. (mm)									
No. Fans...kW (each)	4...3.73	4...3.73	4...3.73	6...3.73	6...3.73	6...3.73	6...3.73	8...3.73	8...3.73
Total Airflow (L/s)†	18,876	18,876	18,876	28,315	28,315	28,315	28,315	37,750	37,750
CONDENSER COILS									
Fins/in.	669	669	669	669	669	669	669	669	669
No. Rows (Ckt A or B)	2	2	3	2	3	3	3	3	3
Face Area, Ckt A and B Total (sq m)	7.48	7.48	7.48	10.84	10.84	11.92	11.92	15.61	15.61
Max Working Pressure Refrigerant (kPa)									
One... Direct Expansion, Shell and Tube									
COOLER									
Weight (empty, kg)	220	248	248	282	282	338	338	391	391
No. Refrigerant Circuits									
Net Water Volume, includes nozzles (L)	41.3	51.1	51.1	68.1	68.1	92.7	92.7	114.7	114.7
Max Working Pressure Refrigerant Side (kPa)	1916	1916	1916	1916	1916	1916	1916	1916	1916
Max Working Pressure Fluid Side (kPa)	2068	2068	2068	2068	2068	2068	2068	2068	2068
FLUID CONNECTIONS (in.)									
Inlet and Outlet	3	3	3	4	4	4	4	5	5
Drain (NPT)									

LEGEND

Cu-Al — Copper Tubing — Aluminum Fins Condenser Coil
Cu-Cu — Copper Tubing — Copper Fins Condenser Coil
OD — Outside Diameter

*06E250 compressors have 4 cylinders; all others have 6.

†Based on rated external static pressure of 100 Pa or 250 Pa, as appropriate.

NOTE: Facing the compressors, Circuit A is on the right and Circuit B is on the left.

Table 3B — Physical Data — 50 Hz, SI (cont)

30GTR UNIT SIZE		130	150	170	190	210	230	
SYSTEM MODULES		—	—	—	—	—	A	B
APPROX OPERATING WEIGHT (kg)		4778 5335	4852 5430	5201 5779	5866 6556	6156 6847	4852 5430	3055 3384
REFRIGERANT TYPE		R-22						
Charge, Total/Over Clear Glass (kg)		60.5/12.7 62.2/12.7	65.0/15.9 65.0/15.9	69.5/20.5 73.6/20.5	80.9/13.6 78.6/13.6	86.4/18.2 84.1/18.2	60.5/15.9 65.4/15.9	35.4/6.8 35.4/6.8
COMPRESSORS		Reciprocating, Semi-Hermetic						
Speed (r/s)		24.2						
06E* (Qty) Ckt A		(1) 265, (2) 275	(3) 299	(2) 275, (1) 299	(3) 299	(2) 265, (1) 299	(3) 299	(1) 265, (1) 299
Oil Charge (Compressor/L)		(2) 299	(2) 299	(1) 275, (2) 299	(3) 299	(3) 299	(2) 299	(1) 299
No. Capacity Control Steps		10	10	12	6	265/9.0, 275/9.0, 299/9.0	10	6
Capacity (%)		52	60	48	50	7	60	62
Ckt A		48	40	52	50	48	38	38
Ckt B		10	13	10	17	10	13	16
Minimum Capacity Step (%)		—	—	—	—	—	—	—
CONDENSER FANS		Propeller, Direct Drive						
Standard		15.8	15.8	15.8	15.8	15.8	15.8	15.8
Fan Speed (r/s)		6..762	6..762	6..762	6..762	6..762	6..762	6..762
No. Blades...Dia. (mm)		10...0.746	10...0.746	10...0.746	12...0.746	12...0.746	10...0.746	16...0.746
No. Fans...kW (each)		47,190	47,190	47,190	56,630	56,630	47,190	26,898
Total Airflow (L/s)		—	—	—	—	—	—	—
High Static		24.1	24.1	24.1	24.1	24.1	24.1	24.1
Fan Speed (r/s)		12..762	12..762	12..762	12..762	12..762	12..762	12..762
No. Blades...Dia. (mm)		10...3.73	10...3.73	10...3.73	12...3.73	12...3.73	10...3.73	16...3.73
No. Fans...kW (each)		47,190	47,190	47,190	56,630	56,630	47,190	28,315
Total Airflow (L/s)†		—	—	—	—	—	—	—
CONDENSER COILS		9.53 mm OD, Vertical and Horizontal, Plate Fin, Enhanced Copper Tubing						
Fins/m		669	669	669	669	669	669	669
No. Rows (Ckt A or B)		3	3	3	3	3	3	3
Face Area, Ckt A and B Total (sq m)		20.91	20.91	20.91	24.98	24.98	20.91	11.92
Max Working Pressure Refrigerant (kPa)		3103	3103	3103	3103	3103	3103	3103
COOLER		One...Direct Expansion, Shell and Tube						
Weight (empty, kg)		600	600	741	741	848	600	338
No. Refrigerant Circuits		2	2	2	2	2	2	2
Net Water Volume, includes nozzles (L)		196.8	196.8	230.9	230.9	266.5	196.8	92.7
Max Working Pressure Refrigerant Side (kPa)		1916	1916	1916	1916	1916	1916	1916
Max Working Pressure Fluid Side (kPa)		2068	2068	2068	2068	2068	2068	2068
FLUID CONNECTIONS (in.)		Victaulic Type						
Inlet and Outlet		6	6	6	6	6	6	4
Drain (NPT)		—	—	—	3/4	—	—	—

LEGEND

Cu-Al — Copper Tubing — Aluminum Fins Condenser Coil
Cu-Cu — Copper Tubing — Copper Fins Condenser Coil
OD — Outside Diameter

*06E250 compressors have 4 cylinders; all others have 6.

†Based on rated external static pressure of 100 Pa or 250 Pa, as appropriate.

NOTE: Facing the compressors, Circuit A is on the right and Circuit B is on the left.

Table 3B — Physical Data — 50 Hz, SI (cont)

306TN,GTR UNIT SIZE		245			255			270		
SYSTEM MODULES		A	B	Total	A	B	Total	A	B	Total
APPROX OPERATING WEIGHT (kg)										
Cu-Al		4852	3243	8095	4852	3960	8812	5201	3960	9161
Cu-Cu		5430	4390	9003	5430	4390	9820	5779	4390	10,169
REFRIGERANT TYPE		R-22								
Charge, Total/Over Clear Glass (kg)										
Ckt A		65.0/15.9	35.4/6.8	—/—	65.0/15.9	44.5/9.1	—/—	69.5/20.5	44.5/9.1	—/—
Ckt B		65.4/15.9	35.4/6.8	—/—	65.4/15.9	47.7/9.1	—/—	73.6/20.5	47.7/9.1	—/—
COMPRESSORS		Reciprocating, Semi-Hermetic								
Speed (r/s)		24.2								
06E* (Qty) Ckt A		(3) 299	(1) 265, (1) 299	—	(3) 299	(1) 265, (1) 299	—	(2) 275, (1) 299	(1) 265, (1) 299	—
(Qty) Ckt B		(2) 299	(1) 265, (1) 275	—	(2) 299	(1) 265, (1) 299	—	(1) 275, (2) 299	(1) 265, (1) 299	—
Oil Charge (Compressor/L)		265/9.0, 275/9.0, 299/9.0								
No. Capacity Control Steps		10	8	—	10	8	—	12	8	—
Capacity (%)		60	54	—	60	50	—	48	50	—
Ckt A		40	46	—	40	50	—	52	50	—
Ckt B		13	14	—	13	13	—	10	13	—
Minimum Capacity Step (%)		Propeller, Direct Drive								
CONDENSER FANS										
Standard										
Fan Speed (r/s)		15.8	15.8	—	15.8	15.8	—	15.8	15.8	—
No. Blades, Dia. (mm)		6...762	6...762	—	6...762	6...762	—	6...762	6...762	—
No. Fans...kW (each)		10...0.746	6...0.746	16...0.746	10...0.746	8...0.746	18...0.746	10...0.746	8...0.746	18...0.746
Total Airflow (L/s)		47,190	26,898	74,088	47,190	35,864	85,054	47,190	35,864	85,054
High Static										
Fan Speed (r/s)		24.1	24.1	—	24.1	24.1	—	24.1	24.1	—
No. Blades, Dia. (mm)		12...762	12...762	—	12...762	12...762	—	12...762	12...762	—
No. Fans...kW (each)		10...3.73	6...3.73	16...3.73	10...3.73	8...3.73	18...3.73	10...3.73	8...3.73	18...3.73
Total Airflow (L/s)†		47,190	28,315	75,505	47,190	37,750	84,940	47,190	37,750	84,940
CONDENSER COILS		9.53 mm OD, Vertical and Horizontal, Plate Fin, Enhanced Copper Tubing								
Fins/in.		669	669	—	669	669	—	669	669	—
No. Rows (Ckt A or B)		3	3	—	3	3	—	3	3	—
Face Area, Ckt A and B Total (sq m)		20.91	11.92	32.83	20.91	15.61	36.52	20.91	15.61	36.52
Max Working Pressure Refrigerant (kPa)		3103	3103	—	3103	3103	—	3103	3103	—
COOLER		One Per Module... Direct Expansion, Shell and Tube								
Weight (empty, kg)		600	338	938	600	391	991	741	391	1132
No. Refrigerant Circuits		2	2	4	2	2	4	2	2	4
Net Water Volume, Includes nozzles (L)		196.8	92.7	289.5	196.8	114.7	311.5	230.9	114.7	345.6
Max Working Pressure Refrigerant Side (kPa)		1916	1916	—	1916	1916	—	1916	1916	—
Max Working Pressure Fluid Side (kPa)		2068	2068	—	2068	2068	—	2068	2068	—
FLUID CONNECTIONS (in.)		Victaulic Type								
Inlet and Outlet		6	4	—	6	5	—	6	5	—
Drain (NPT)		3/4	3/4	—	3/4	3/4	—	3/4	3/4	—

LEGEND

Cu-Al — Copper Tubing — Aluminum Fins Condenser Coil
 Cu-Cu — Copper Tubing — Copper Fins Condenser Coil
 OD — Outside Diameter

*06E250 compressors have 4 cylinders; all others have 6.

†Based on rated external static pressure of 100 Pa or 250 Pa, as appropriate.

NOTE: Facing the compressors, Circuit A is on the right and Circuit B is on the left.

Table 3B — Physical Data — 50 Hz, SI (cont)

30GTN, GTR UNIT SIZE				315			330		
SYSTEM MODULES				A	B	Total	A	B	Total
APPROX OPERATING WEIGHT (kg)									
Cu-Al				5866	4018	9884	6156	4018	10,174
Cu-Cu				6556	4450	11,006	6847	4450	11,297
REFRIGERANT TYPE				R-22					
Charge, Total/Over Clear Glass (kg)									
Ckt A				80.9/13.6	44.5/9.1	—/—	86.4/18.2	44.5/9.1	69.5/20.5
Ckt B				78.6/13.6	47.7/9.1	—/—	84.1/18.2	47.7/9.1	73.6/20.5
COMPRESSORS				Reciprocating, Semi-Hermetic					
Speed (r/s)									
06E* (Qty) Ckt A				(3) 299	(2) 299	—	(2) 265, (2) 299	(2) 299	(2) 275, (1) 299
06E* (Qty) Ckt B				(3) 299	(2) 299	—	(3) 299	(2) 299	(1) 275, (2) 299
Oil Charge (Compressor/L)									
No. Capacity Control Steps				6	8	—	7	8	12
Capacity (%)									
Ckt A				50	50	—	52	50	48
Ckt B				50	50	—	48	50	52
Minimum Capacity Step (%)				17	17	—	10	17	10
CONDENSER FANS				Propeller, Direct Drive					
Standard									
Fan Speed (r/s)				15.8	15.8	—	15.8	15.8	15.8
No. Blades...Dia. (mm)				6...762	6...762	—	6...762	6...762	6...762
No. Fans...kW (each)				12...0.746	8...0.746	20...0.746	12...0.746	10...0.746	20...0.746
Total Airflow (L/s)				56,630	35,864	92,494	56,630	35,864	92,494
High Static									
Fan Speed (r/s)				24.1	24.1	—	24.1	24.1	24.1
No. Blades...Dia. (mm)				12...762	12...762	—	12...762	12...762	12...762
No. Fans...kW (each)				12...3.73	8...3.73	20...3.73	12...3.73	10...3.73	20...3.73
Total Airflow (L/s)†				56,630	37,750	94,380	56,630	37,750	94,380
CONDENSER COILS				9.53 mm OD, Vertical and Horizontal, Plate Fin, Enhanced Copper Tubing					
Fins/m				669	669	—	669	669	—
No. Rows (Ckt A or B)				3	3	—	3	3	—
Face Area, Ckt A and B Total (sq m)				24.98	15.61	40.59	24.98	20.91	41.82
Max Working Pressure Refrigerant (kPa)				3103	3103	—	3103	3103	—
COOLER				One Per Module...Direct Expansion, Shell and Tube					
Weight (empty, kg)				741	391	1132	848	391	1239
No. Refrigerant Circuits				2	2	4	2	2	4
Net Water Volume, includes nozzles (L)				230.9	114.7	345.6	266.5	114.7	381.2
Max Working Pressure Refrigerant Side (kPa)				1916	1916	—	1916	1916	—
Max Working Pressure Fluid Side (kPa)				2068	2068	—	2068	2068	—
FLUID CONNECTIONS (in.)				Victaulic Type					
Inlet and Outlet				6	5	—	6	5	—
Drain (NPT)				¾	¾	—	¾	¾	—

LEGEND

Cu-Al — Copper Tubing — Aluminum Fins Condenser Coil
Cu-Cu — Copper Tubing — Copper Fins Condenser Coil
OD — Outside Diameter

*06E250 compressors have 4 cylinders; all others have 6.

†Based on rated external static pressure of 100 Pa or 250 Pa, as appropriate.

NOTE: Facing the compressors, Circuit A is on the right and Circuit B is on the left.

Table 3B — Physical Data — 50 Hz, SI (cont)

30GTR UNIT SIZE		360			390			420		
SYSTEM MODULES		A	B	Total	A	B	Total	A	B	Total
APPROX OPERATING WEIGHT (kg)										
Cu-Al		5866	5201	11,067	6156	5866	12,022	6156	6156	12,312
Cu-Cu		6556	5779	12,335	6847	6556	13,403	6847	6847	13,694
REFRIGERANT TYPE										
Charge, Total/Over Clear Glass (kg)										
Ckt A		80.9/13.6	80.9/13.6	—/—	86.4/18.2	80.9/13.6	—/—	86.4/18.2	86.4/18.2	—/—
Ckt B		78.6/13.6	73.6/13.6	—/—	84.1/18.2	78.6/13.6	—/—	84.1/18.2	84.1/18.2	—/—
COMPRESSORS										
Speed (r/s)										
06E* (Qty) Ckt A		(3) 299	(2) 275, (1) 299	—	(2) 265, (2) 299	(3) 299	—	(2) 265, (2) 299	(3) 299	—
06E* (Qty) Ckt B		(3) 299	(1) 275, (2) 299	—	(3) 299	(3) 299	—	(3) 299	(3) 299	—
Oil Charge (Compressor/L)										
No. Capacity Control Steps		6	12	—	7	6	—	7	7	—
Capacity (%)		50	48	—	52	50	—	52	52	—
Ckt A		50	52	—	48	50	—	48	48	—
Ckt B		17	19	—	10	17	—	10	10	—
Minimum Capacity Step (%)										
CONDENSER FANS										
Standard										
Fan Speed (r/s)		15.8	15.8	—	15.8	15.8	—	15.8	15.8	—
No. Blades, Dia. (mm)		6...762	6...762	—	6...762	6...762	—	6...762	6...762	—
No. Fans...kW (each)		12...0.746	12...0.746	24...0.746	12...0.746	12...0.746	24...0.746	12...0.746	12...0.746	24...0.746
Total Airflow (L/s)		56,630	47,190	103,820	56,630	56,630	113,260	56,630	56,630	113,260
High Static										
Fan Speed (r/s)		24.1	24.1	—	24.1	24.1	—	24.1	24.1	—
No. Blades, Dia. (mm)		12...762	12...762	—	12...762	12...762	—	12...762	12...762	—
No. Fans...kW (each)		12...3.73	12...3.73	24...3.73	12...3.73	12...3.73	24...3.73	12...3.73	12...3.73	24...3.73
Total Airflow (L/s)†		56,630	47,190	103,820	56,630	56,630	113,260	56,630	56,630	113,260
CONDENSER COILS										
Fins/in		669	669	—	669	669	—	669	669	—
No. Rows (Ckt A or B)		3	3	—	3	3	—	3	3	—
Face Area, Ckt A and B Total (sq m)		24.98	20.91	45.89	24.98	24.98	49.96	24.98	24.98	49.96
Max Working Pressure Refrigerant (kPa)		3103	3103	—	3103	3103	—	3103	3103	—
COOLER										
Weight (empty, kg)		741	741	1482	848	741	1589	848	848	1696
No. Refrigerant Circuits		2	2	4	2	2	4	2	2	4
Net Water Volume, Includes nozzles (L)		230.9	230.9	461.8	266.5	230.9	497.4	266.5	266.5	533.0
Max Working Pressure Refrigerant Side (kPa)		1916	1916	—	1916	1916	—	1916	1916	—
Max Working Pressure Fluid Side (kPa)		2068	2068	—	2068	2068	—	2068	2068	—
FLUID CONNECTIONS (in.)										
Inlet and Outlet		6	6	—	6	6	—	6	6	—
Drain (NPT)		3/4	3/4	—	3/4	3/4	—	3/4	3/4	—

LEGEND

Cu-Al — Copper Tubing — Aluminum Fins Condenser Coil
 Cu-Cu — Copper Tubing — Copper Fins Condenser Coil
 OD — Outside Diameter

*06E250 compressors have 4 cylinders; all others have 6.

†Based on rated external static pressure of 100 Pa or 250 Pa, as appropriate.

NOTE: Facing the compressors, Circuit A is on the right and Circuit B is on the left.

Step 2 — Join Modules A and B (230-420 Units Only) — If accessory trim kit has been purchased to join the modules together, install it now. Refer to accessory installation instructions for installation details

Step 3 — Check Compressor Mounting — All compressors for size 040-070 units are mounted on pans and are held down by 4 bolts during shipment. After the unit is installed, loosen each of these bolts until flat washer can be moved with finger pressure. Compressors are mounted on rails for size 080-420 units. Each rail is mounted on springs (one at each end, and one between each compressor) when applicable. For shipping, the rails are secured to the frame base at each support. Before start-up, loosen the hold-down bolts so that the compressor rails float freely. See Fig. 18-21 for views of compressor mounting.

⚠ CAUTION

Do not remove angle brace spanning the tops of the compressors (if installed) on size 080-420 units. Removal of angle brace may result in line breakage.

Step 4 — Cooler Fluid and Drain Piping Connections — When facing cooler side of unit, inlet (return) fluid connection is on the right. It is recommended that a screen strainer with a minimum size of 20 mesh be installed ahead of the cooler inlet to prevent debris from damaging internal tubes of cooler. Outlet (supply) fluid connection is on the left. The cooler has fluid-side Victaulic-type connections (follow connection directions as provided by the coupling manufacturer) If compressor and cooler grilles have been added, holes must be cut in grilles for field piping and insulation.

IMPORTANT: Installation of a cooler flow switch is strongly recommended to prevent potential system damage due to loss of fluid flow. Connect flow switch to TB5-1 and TB5-2.

NOTE: For 130-210 and associated modular units (see Table 1), be sure that cooler piping does not interfere with the electrical connections.

Although cooler has an air vent, it is recommended that field-supplied air vents be installed in system to facilitate servicing. Field-supplied shut-off valves should also be installed to facilitate servicing and flow balancing. Locate valves in return and supply cooler fluid lines as close to the chiller as possible. Locate air vents at highest point of the cooler fluid system.

IMPORTANT Before starting unit, be sure all of the air has been purged from the system.

Upon completion of the field piping installation, in areas where the piping is exposed to 32 F (0° C) or lower ambient temperatures, freeze-up protection is recommended using inhibited ethylene glycol or other suitable corrosion-inhibited anti-freeze solution and electric heater tapes. Heater tapes should have a rating for area ambient temperatures and should be covered with a suitable thickness of closed-cell insulation. Route power for the heater tapes from a separate fused disconnect. Mount the disconnect within sight from the unit per NEC or local codes. Label disconnect as heater tape power source with warning that power must not be turned off except when servicing the unit.

IMPORTANT: Glycol anti-freeze solutions are highly recommended since heater tapes provide no protection in the event of a power failure.

A drain connection is located at leaving fluid (supply) end of cooler. See Fig. 1-13 for connection location.

PREPARATION FOR YEAR-ROUND OPERATION — If unit is to operate all year, add sufficient inhibited ethylene glycol or other suitable corrosion-inhibited anti-freeze solution to the cooler fluid to prevent freeze-up under cold operating conditions. Consult local water authority on characteristics of area water and a recommended inhibitor for the cooler fluid loop.

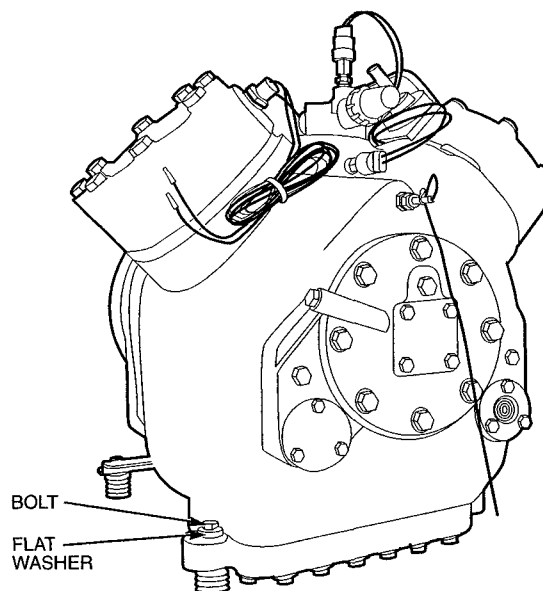


Fig. 18 — Compressor Mounting View; Unit Sizes 040-070

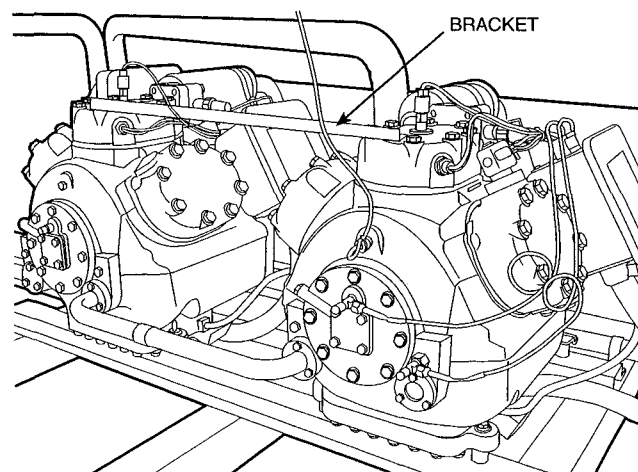


Fig. 19 — Compressor Mounting View; Unit Sizes 080-420

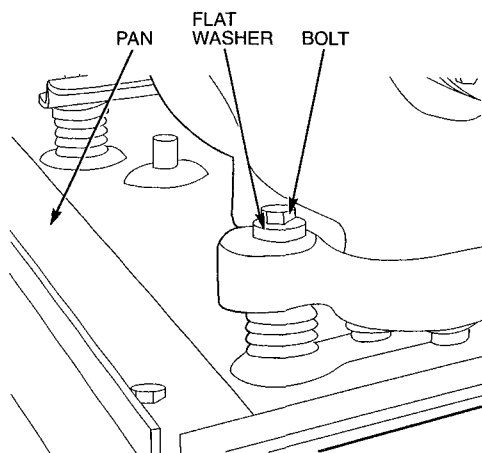


Fig. 20 — Compressor Mounting Bolts; Unit Sizes 040-070

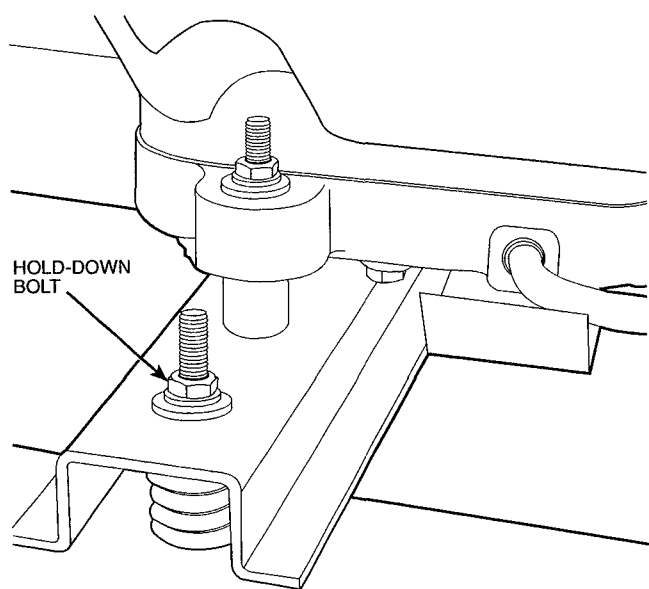


Fig. 21 — Compressor Mounting Bolts; Unit Sizes 080-420

PREPARATION FOR WINTER SHUTDOWN — At end of cooling season:

1. If the unit has optional heater tapes on the cooler and the cooler will not be drained, do not shut off control power disconnect during off-season shutdown. If the unit has optional heater tapes on the cooler and the cooler will be drained, shut off control power during off-season shutdown.

⚠ CAUTION

Failure to remove control power before draining heater-equipped coolers can result in heater tape and insulation damage.

2. Drain the fluid from the system.
3. Replace the drain plug and add 2 gallons (8 liters) (040-110 and associated modular units), 3 gallons (11.4 liters) (130-190 and associated modular units), or 4 gallons (15.1 liters) (210 and associated modular units) of inhibited ethylene glycol or other suitable corrosion corrosion-inhibited anti-freeze solution to the cooler to

prevent freezing of any remaining water in system. Anti-freeze can be added through the vent on top of cooler.

4. Open one of the thermistor connections to allow air to escape the vessel and the anti-freeze to enter.
5. At the beginning of the next cooling season, refill cooler, add recommended inhibitor, and replace FU1 (if removed).

Step 5 — Make Electrical Connections The electrical characteristics of the available power supply must agree with the unit nameplate rating. Supply voltage must be within the limits shown. The control box is divided into field power side on the right, and control power supply on the left (when facing control box) for 040-110 and associated modular unit (see Table 1). For 130-210 and associated modular units (see Table 1), the power box is located on the cooler side of the unit, and the control box is located on the compressor side.

FIELD POWER CONNECTIONS (See Fig. 22-24) — All power wiring must comply with applicable local and national codes. Install field-supplied, branch circuit fused disconnect(s) of a type that can be locked off or open. Disconnect(s) must be located within sight from and readily accessible from unit in compliance with NEC Article 440-14. See Tables 4A-7 for unit electrical data.

IMPORTANT: The 30GTN, GTR040-420 units have a factory-installed option for a non-fused disconnect for power and control entry. If the unit is equipped with this option, all field wiring should be to the non-fused disconnect rather than the terminal blocks

30GTN, GTR040-110 and 230B-315B Units — All field power enters the unit through the control box at the left end when facing the compressors. An access hole is under the control box. All units have a single location for power connection to simplify the field power wiring (except size 050-070, 208/230 v units). Maximum wire size that the unit terminal block will accept is 500 kcmil. Unit may use copper, copper-clad aluminum, or aluminum conductors at all voltages, except 30GTN, GTR110, 290B, and 315B 380/415-3-50 part wind units. These units require copper conductors.

For 208/230-3-60 units (sizes 050-110 and associated modules) 6 parallel conductors are required.

30GTN, GTR130-210, 230A-315A, and 330-420 Units — The field power wiring enters the unit through the left side of the cooler side power box. The control power enters the control box on the compressor side of the unit.

NOTE: If optional non-fused disconnect is installed, power wiring must enter through center panel of unit (disconnect location).

IMPORTANT: Do not obstruct the field cooler connections when installing field power into the power box. Use 90-degree liquid-tight conduit fittings to connect field power to the unit and avoid the cooler piping area.

All units have a single location for power connection (one per module on 230-420 units) to simplify field power wiring. The maximum acceptable wire size for the terminal block is 500 kcmil. Copper, copper-clad aluminum, or aluminum conductors are acceptable for all units except 30GTN, GTR210, 315A, 390A, and 420A/B 208/230-3-60 units. These units require copper conductors. For 208/230-3-60 units, 9 parallel conductors are required. All other voltages require 6 parallel conductors.

FIELD CONTROL POWER CONNECTIONS (See Fig. 22-24) — *For 208/230-, 460- and 575-3-60 units:* If the control transformer (FIOP or Accessory) is not used, provide a 115-1-60 power source for the control circuit, through a field-supplied fused disconnect (per NEC). This conductor must be copper only. Control power enters the control box through a 7/8-in. (22.2-mm) conduit connection located on the right side of the control section.

For 30GTN/GTR040-110 and 230B-315B units with 380-3-60 or 380/415-3-50 power: Control circuit voltage is taken from the line voltage, therefore, no additional power supply is required. If a separate power source is required, follow these instructions and disconnect the wires between the control and power terminal blocks.

For 30GTN, GTR130-210, 230A-315A, and 330A/B-420A/B units with 380-3-60 and 380/415-3-50 power: Control voltage is tapped from line to neutral. No additional power supply is required. If a separate power source is required, follow these instructions and disconnect the wires between the control and power terminal blocks.

Units with a power supply of 380-3-60 have 230-1-60 control circuit power, which is taken from the unit's power supply voltage. Units with a power supply of 380/415-3-50 have 230-1-50 control circuit power, which is also taken from the unit's power supply voltage. For control circuit current draw, see Table 5.

All Units: Control circuit power draw includes the compressor crankcase heaters at 180 watts each, the 2 (040-050), 4 (060,070) or 8 (080-420) cooler heaters (if equipped) at 210 watts each.

⚠ CAUTION

Crankcase heaters and cooler heaters are all wired into the control circuit ahead of the control circuit switch. Therefore, they are always active even if the control circuit switch is off.

An interlock circuit for external safeties, such as the chilled fluid flow switch (CWFS) and chilled fluid pump interlock

(CWPI) is provided between terminals TB5-1 and TB5-2 for field use. To use this circuit, install the switch contacts between these two points. Remote on-off contacts should be installed between TB5-13 and TB5-14. To use this circuit, install the switch contacts between these two points.

LEGEND AND NOTES FOR WIRING DIAGRAMS (Fig. 22-24)

LEGEND

A	— Alarm
CWFS	— Chilled Water (Fluid) Flow Switch
CWP	— Cooler Pump Relay
CWPI	— Chilled Water (Fluid) Pump Interlock
EQUIP	— Equipment
NEC	— National Electrical Code (U.S.A.)
TB	— Terminal Block
----	Field Power Wiring
----	Field Control Wiring
—	Factory-Installed Wiring

NOTES.

- 1 Factory wiring is in accordance with NEC (U.S.A.). Field modifications or additions must be in compliance with all applicable codes.
- 2 Wiring for main field power supply must be rated 75° C minimum. Use copper, copper-clad aluminum, or aluminum conductors for all units, except use copper conductors only for the following units: 30GTN, GTR110, 290B, 315B 380/415-v part-wind start units; 30GTN, GTR210, 315A, 390A, 420A/B 208/230-volts across-the-line and part-wind units.
3. Power for control circuit should be supplied from a separate source through a field-supplied fused disconnect. See Table 5 for required amp value for disconnect. Connect control circuit power to terminals 1 and 2 of TB4. Connect neutral side of supply to terminal 2 of TB4. Control circuit conductors for all units must be copper only.
4. Terminals 13 and 14 of TB5 are for field connection for remote on-off control. The contacts must be rated for dry circuit application capable of reliably switching a 5 vdc, 0.5 mA load.
- 5 The maximum load allowed for the remote alarm and cooler pump relay circuit is 75 va sealed, 360 va inrush at 115- or 230-v, depending on model.
- 6 Dimensions in [] are millimeters.

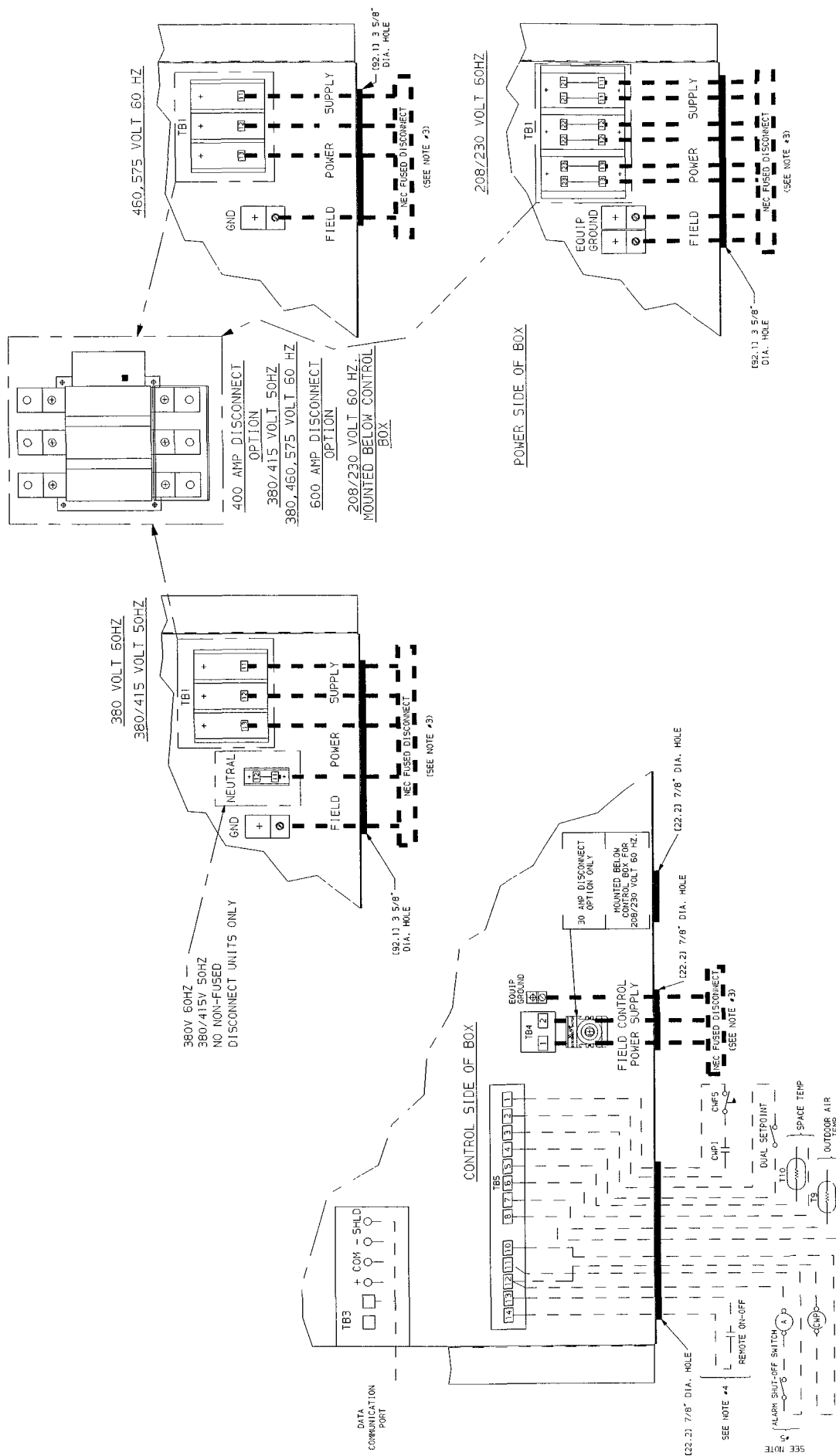


Fig. '23 — Field Wiring; Unit Sizes 080-110, 230B-315B

Table 4A — Unit Electrical Data, 30GTN,GTR040-210

UNIT SIZE 30GTN,GTR	VOLTAGE			STANDARD CONDENSER FAN								HIGH STATIC CONDENSER FAN							
	Nominal V-Hz (3 Phase)	Supplied*		MCA		MOCP		Rec Fuse Size		ICF		MCA		MOCP		Rec Fuse Size		ICF	
		Min	Max	XL	PW	XL	PW	XL	PW	XL	PW	XL	PW	XL	PW	XL	PW	XL	PW
040	208/230-60	187	253	177 0	177.0	225	225	200	200	437 1	299 1	211 2	211 2	250	250	250	250	471.3	333.3
	460-60	414	506	90 1	87 1	110	110	100	100	219 8	149 5	103 1	100 1	125	125	125	110	232.8	162 5
	575-60	518	633	78.4	77 1	100	100	90	90	162 4	113 8	85 6	84.3	110	110	100	100	169.6	121 0
	380-60	342	418	93.5	90 5	125	110	110	100	241 2	163 9	107 5	104.5	125	125	125	125	255 2	177 9
	380/415-50	342	440	102 7	103.0	125	125	125	125	271.2	180.9	118 3	118.6	150	150	150	150	286 8	196.5
045	208/230-60	187	253	204 2	204 2	250	250	250	250	538.1	360 1	238.4	238 4	300	300	300	300	572.3	394.3
	460-60	414	506	101.3	101.6	125	125	125	125	269.8	179 5	114.3	114 6	150	150	150	150	282 8	192.5
	575-60	518	633	88.0	83.4	110	110	100	100	206 4	139.8	95.2	90 6	125	110	110	100	213 6	147.0
	380-60	342	418	107 1	105.0	150	125	125	125	297 2	196.9	121 1	119.0	150	150	150	150	311 2	210.9
	380/415-50	342	440	115.7	119.4	150	150	150	150	310.2	220.5	131 3	135 0	175	175	150	150	325.8	236 1
050	208/230-60	187	253	246.9	246.9	350	350	300	300	721.9	417 9	281 1	281 1	350	350	350	350	756.1	452 1
	460-60	414	506	114 3	118.0	150	150	150	150	308.8	219.1	127 3	131 0	150	175	150	150	321.8	232.1
	575-60	518	633	100.6	88 5	125	110	125	100	226 1	152 9	107 8	95 7	125	125	125	110	233.3	160.1
	380-60	342	418	126.9	127 8	175	175	150	150	341 1	228.5	140 9	141 8	175	175	175	175	355.1	242.5
	380/415-50	342	440	142.2	147 2	200	200	175	175	405 4	269.3	157.8	162.8	200	225	175	200	421.0	284 9
060	208/230-60	187	253	328 1	328.1	450	450	400	400	833.8	557 8	378 3	378.3	500	500	450	450	884.0	608.0
	460-60	414	506	147 4	152 4	200	200	175	175	410.6	274 5	166 4	171 4	225	225	200	200	429.6	293 5
	575-60	518	633	132 2	121 0	175	150	150	150	336.8	218.7	143 0	131 8	200	175	175	150	347.6	229.5
	380-60	342	418	174.5	176.6	250	250	200	200	458.0	307.2	195.5	197 6	250	250	225	225	479.0	328.2
	380/415-50	342	440	167.6	173 2	225	225	200	200	430 8	295.3	191 0	196 6	250	250	225	225	454 2	318.7
070	208/230-60	187	253	369.1	369 1	500	500	450	450	874.8	598 8	419 3	419 3	500	500	500	500	925.0	649.0
	460-60	414	506	166 0	171.6	225	225	200	200	429.2	293.7	185 0	190 6	250	250	225	225	448.2	312.7
	575-60	518	633	148 9	141 5	200	175	175	175	353.5	239 2	159.7	152.3	200	200	175	175	364.3	250.0
	380-60	342	418	200 7	202 3	250	250	225	225	484.2	332.9	221.7	223.3	300	300	250	250	505.2	353 9
	380/415-50	342	440	189 4	195.1	250	250	225	225	452.6	317 2	212.8	218 5	250	250	250	250	476.0	340.6
080	208/230-60	187	253	396 0	396.0	500	500	450	450	901.7	625.7	446 2	446.2	500	500	500	500	951 9	675.9
	460-60	414	506	182 0	185 7	225	250	200	225	445.2	307 8	201 0	204.7	250	250	225	225	464.2	326.8
	575-60	518	633	161.0	149 2	200	200	200	175	365.6	246.9	171 8	160 0	225	200	200	175	376.4	257 7
	380-60	342	418	209.1	209.9	250	250	250	250	492.6	340.5	230.1	230 9	300	300	250	300	513.6	361 5
	380/415-50	342	440	211.2	218.1	250	250	250	250	474 4	340.2	234.6	241 5	250	300	300	300	497.8	363 6
090	208/230-60	187	253	375.0	375.0	450	450	400	400	708 9	530.9	425.2	425.2	500	500	450	450	759.1	581.1
	460-60	414	506	186 1	186 4	225	225	200	200	354 6	264 3	205.1	205 4	225	250	225	225	373.6	283.3
	575-60	518	633	160 1	151 7	175	175	175	175	278.5	208 1	170.9	162.5	200	175	200	175	289.3	218.9
	380-60	342	418	195.0	191 0	225	225	225	225	385.1	282.9	216.0	212.0	250	250	225	225	406.1	303.9
	380/415-50	342	440	236.2	243 8	300	300	300	300	499.4	365.9	259.6	267 2	300	300	300	300	522 8	389.3
100	208/230-60	187	253	469.4	469.4	500	500	500	500	944.4	640.4	535.6	535 6	600	600	600	600	1010.6	706 6
	460-60	414	506	217.9	224.8	250	250	250	250	412.4	325.9	242.9	249.8	250	250	300	300	437.4	350.9
	575-60	518	633	191.1	168.7	225	200	225	200	316.6	233.1	205.5	183 1	225	200	225	200	331.0	247.5
	380-60	342	418	240 6	242.1	250	250	300	300	454.8	342.8	268.6	270.1	300	300	300	300	482.8	370.8
	380/415-50	342	440	261.6	269 8	300	300	300	300	524.8	391 9	292.8	301 0	350	350	350	350	556.0	423.1
110	208/230-60	187	253	520 7	520 7	600	600	600	600	1026.4	750.4	586 9	586 9	700	700	700	700	1092.6	816.6
	460-60	414	506	241.2	248 8	300	300	300	300	504.4	370.9	266.2	273.8	300	300	300	300	529 4	395.9
	575-60	518	633	212.0	194.4	250	225	250	225	416.6	292.1	226.4	208 8	250	250	250	225	431 0	306.5
	380-60	342	418	273.3	274.2	350	350	300	300	556 8	404.8	301.3	302 2	350	350	350	350	584 8	432.8
	380/415-50	342	440	305.2	315 8	350	350	350	350	568.4	437 9	336.4	347 0	400	400	400	400	599 6	469.1
130	208/230-60	187	253	617 4	617 4	700	700	700	700	1118.3	842.3	701 8	701 8	800	800	800	800	1202 7	926 7
	460-60	414	506	271 8	271 8	300	300	300	300	535.0	397.0	303 8	303 8	350	350	350	350	567 0	429.0
	575-60	518	633	245.9	245 9	300	300	300	300	450 5	339.5	263 9	263 9	300	300	300	300	468 5	357.5
	380-60	342	418	327 9	329 5	400	400	350	350	611 4	459.1	362 9	364 5	400	400	400	400	646.4	494.1
	380/415-50	342	440	319.9	319 9	350	350	350	350	583 0	445.0	358.9	358.9	400	400	400	400	622.0	484.0
150	208/230-60	187	253	671.4	671.4	800	800	800	800	1172.3	896.3	755.8	755 8	800	800	800	800	1256 7	980 7
	460-60	414	506	312.9	312.9	350	350	350	350	576.1	438.1	344 9	344 9	400	400	400	400	608 1	470 1
	575-60	518	633	272 3	272.3	300	300	300	300	476.9	365 9	290 3	290 3	300	300	350	350	494 9	383.9
	380-60	342	418	356 7	358.3	400	400	400	400	640.2	487 9	391.7	393 3	450	450	450	450	675 2	522.9
	380/415-50	342	440	377 9	377.9	400	400	400	400	641 0	503.0	416 9	416 9	450	450	450	450	680 0	542.0

See legend and notes on page 47.

Table 4A — Unit Electrical Data, 30GTN,GTR040-210 (cont)

UNIT SIZE 30GTN,GTR	VOLTAGE			STANDARD CONDENSER FAN								HIGH STATIC CONDENSER FAN							
	Nominal V-Hz (3 Phase)	Supplied*		MCA		MOCP		Rec Fuse Size		ICF		MCA		MOCP		Rec Fuse Size		ICF	
		Min	Max	XL	PW	XL	PW	XL	PW	XL	PW	XL	PW	XL	PW	XL	PW	XL	PW
170	208/230-60	187	253	734.7	734.7	800	800	800	800	1208.1	904.1	819.1	819.1	800	800	1000	1000	1292.5	988.5
	460-60	414	506	323.5	323.5	350	350	350	350	518.0	427.0	355.5	355.5	400	400	400	400	550.0	459.0
	575-60	518	633	294.6	294.6	300	300	350	350	418.5	348.5	312.6	312.6	350	350	350	350	436.5	366.5
	380-60	342	418	387.8	387.8	400	400	450	450	598.0	486.0	422.8	422.8	450	450	450	450	633.0	521.0
	380/415-50	342	440	387.3	387.3	450	450	450	450	650.4	512.4	426.3	426.3	450	450	450	450	689.4	551.4
190	208/230-60	187	253	810	810	800	800	1000	1000	1311.1	1035.1	911	911	1000	1000	1000	1000	1411.5	1135.5
	460-60	414	506	368	368	400	400	400	400	631.4	493.4	406	406	450	450	450	450	669.4	531.4
	575-60	518	633	326	326	350	350	350	350	530.5	419.5	347	347	400	400	400	400	552.1	441.1
	380-60	342	418	429	431	500	500	450	500	712.8	560.5	471	473	500	500	500	500	754.8	602.5
	380/415-50	342	440	450	450	500	500	500	500	713.3	575.3	497	497	500	500	600	600	760.1	622.1
210	208/230-60	187	253	900	900	1000	1000	1000	1000	1400.9	1124.9	1000	1000	1000	1000	1200	1200	1501.3	1225.3
	460-60	414	506	413	413	450	450	450	450	676.3	538.3	451	451	500	500	500	500	714.3	576.3
	575-60	518	633	362	362	400	400	400	400	567.1	456.1	384	384	400	400	400	400	588.7	477.7
	380-60	342	418	476	478	500	500	500	500	759.6	607.3	518	520	500	500	600	600	801.6	649.3
	380/415-50	342	440	474	474	500	500	500	500	738	599.6	521	521	500	500	600	600	784.4	646.4

LEGEND AND NOTES FOR TABLES 4A-7

LEGEND

FLA	— Full Load Amps (Fan Motors)
ICF	— Maximum Instantaneous Current Flow during starting (the point in the starting sequence where the sum of the LRA for the starting compressor, plus the total RLA for all running compressors, plus the total FLA for all running fan motors is maximum)
LRA	— Locked Rotor Amps
MCA	— Minimum Circuit Amps (for wire sizing) — complies with NEC Section 430-24
MOCP	— Maximum Overcurrent Protective Device Amps
NEC	— National Electrical Code, U.S.A.
PW	— Part Wind Start
Rec Fuse	— Recommended dual-element fuse amps: 150% of largest Size compressor RLA plus 100% of sum of remaining compressor RLAs. Size up to the next larger fuse size
RLA	— Rated Load Amps (Compressors)
XL	— Across-the-Line Start

*Units are suitable for use on electrical systems where voltage supplied to the unit terminals is not below or above the listed minimum and maximum limits. Maximum allowable phase imbalance is: voltage, 2%, amps 10%

NOTES.

1. All units/modules have single point primary power connection. (Each unit/module requires its own power supply.) Main power must be supplied from a field-supplied disconnect.
2. The unit control circuit power (115 v, single-phase for 208/230-, 460-, and 575-v units; 230 v, single-phase for all other voltages) must be supplied from a separate source through a field-supplied disconnect. The control circuit transformer accessory may be applied to power from primary unit power
3. Crankcase and cooler heaters are wired into the control circuit so they are always operable as long as the control circuit power supply disconnect is on, even if any safety device is open, and the unit ON/OFF switch is in the OFF position

4. Units have the following power wiring terminal blocks and parallel conductors:

UNIT SIZE 30GTN,GTR	VOLTAGE	TERMINAL BLOCKS	PARALLEL CONDUCTORS
040 to 070	208/230	1	3 (040, 045), 6 (050-070)
	460	1	3
	575	1	3
	380	1	3
	380/415	1	3
080 to 110, 230B to 315B	208/230	1	6
	460	1	3
	575	1	3
	380	1	3
	380/415	1	3
130 to 210, 230A to 315A 330A/B to 420A/B	208/230	3	9
	460	2	6
	575	2	6
	380	2	6
	380/415	2	6

5. Maximum incoming wire size for each terminal block is 500 kcmil
6. Power draw control circuits include both crankcase heaters and cooler heaters (where used) Each compressor has a crankcase heater which draws 180 watts of power.

Units ordered with cooler heater option have 2 (040-050), 4 (060,070), or 8 (080-420) cooler heaters, 210 watts each.

Table 4B — Unit Electrical Data, 30GTN,GTR230-420

UNIT SIZE 30GTN,GTR	VOLTAGE			MODULE A																
				Standard Condenser Fan								High Static Condenser Fan								
	Nominal V-Hz (3 Phase)	Supplied*		MCA		MOCP		Rec Fuse Size		ICF		MCA		MOCP		Rec Fuse Size		ICF		
		Min	Max	XL	PW	XL	PW	XL	PW	XL	PW	XL	PW	XL	PW	XL	PW	XL	PW	
230A	208/230-60	187	253	671.4	671.4	800	800	800	800	1172.3	896.3	755.8	755.8	800	800	800	800	1256.7	980.7	
	460-60	414	506	312.9	312.9	350	350	350	350	576.1	438.1	344.9	344.9	400	400	400	400	608.1	470.1	
	575-60	518	633	272.3	272.3	300	300	300	300	476.9	365.9	290.3	290.3	300	300	350	350	494.9	383.9	
	380-60	342	418	356.7	358.3	400	400	400	400	640.2	487.9	391.7	393.3	450	450	450	450	675.2	522.9	
	380/415-50	342	440	377.9	377.9	400	400	400	400	641.0	503.0	416.9	416.9	450	450	450	450	680.0	542.0	
245A	208/230-60	187	253	671.4	671.4	800	800	800	800	1172.3	896.3	755.8	755.8	800	800	800	800	1256.7	980.7	
	460-60	414	506	312.9	312.9	350	350	350	350	576.1	438.1	344.9	344.9	400	400	400	400	608.1	470.1	
	575-60	518	633	272.3	272.3	300	300	300	300	476.9	365.9	290.3	290.3	300	300	350	350	494.9	383.9	
	380-60	342	418	356.7	358.3	400	400	400	400	640.2	487.9	391.7	393.3	450	450	450	450	675.2	522.9	
	380/415-50	342	440	377.9	377.9	400	400	400	400	641.0	503.0	416.9	416.9	450	450	450	450	680.0	542.0	
255A	208/230-60	187	253	671.4	671.4	800	800	800	800	1172.3	896.3	755.8	755.8	800	800	800	800	1256.7	980.7	
	460-60	414	506	312.9	312.9	350	350	350	350	576.1	438.1	344.9	344.9	400	400	400	400	608.1	470.1	
	575-60	518	633	272.3	272.3	300	300	300	300	476.9	365.9	290.3	290.3	300	300	350	350	494.9	383.9	
	380-60	342	418	356.7	358.3	400	400	400	400	640.2	487.9	391.7	393.3	450	450	450	450	675.2	522.9	
	380/415-50	342	440	377.9	377.9	400	400	400	400	641.0	503.0	416.9	416.9	450	450	450	450	680.0	542.0	
270A	208/230-60	187	253	734.7	734.7	800	800	800	800	1208.1	904.1	819.1	819.1	800	800	1000	1000	1292.5	988.5	
	460-60	414	506	323.5	323.5	350	350	350	350	518.0	427.0	355.5	355.5	400	400	400	400	550.0	459.0	
	575-60	518	633	294.6	294.6	300	300	350	350	418.5	348.5	312.6	312.6	350	350	350	350	436.5	366.5	
	380-60	342	418	387.8	387.8	400	400	450	450	598.0	486.0	422.8	422.8	450	450	450	450	633.0	521.0	
	380/415-50	342	440	387.3	387.3	450	450	450	450	650.4	512.4	426.3	426.3	450	450	450	450	689.4	551.4	
290A	208/230-60	187	253	810.2	810.2	800	800	1000	1000	1311.1	1035.1	910.6	910.6	1000	1000	1000	1000	1411.5	1135.5	
	460-60	414	506	368.2	368.2	400	400	400	400	631.4	493.4	406.2	406.2	450	450	450	450	669.4	531.4	
	575-60	518	633	325.9	325.9	350	350	350	350	530.5	419.5	347.5	347.5	400	400	400	400	552.1	441.1	
	380-60	342	418	429.3	430.9	500	500	500	500	712.8	560.5	471.3	472.9	500	500	500	500	754.8	602.5	
	380/415-50	342	440	450.2	450.2	500	500	500	500	713.3	575.3	497.0	497.0	500	500	500	600	760.1	622.1	
315A	208/230-60	187	253	900.0	900.0	1000	1000	1000	1000	1400.9	1124.9	1000.4	1000.4	1000	1000	1200	1200	1501.3	1225.3	
	460-60	414	506	413.1	413.1	450	450	450	450	676.3	538.3	451.1	451.1	500	500	500	500	714.3	576.3	
	575-60	518	633	362.5	362.5	400	400	400	400	567.1	456.1	384.1	384.1	400	400	400	400	588.7	477.7	
	380-60	342	418	476.1	477.7	500	500	500	500	759.6	607.3	518.1	519.7	500	500	600	600	801.6	649.3	
	380/415-50	342	440	474.5	474.5	500	500	500	500	737.6	599.6	521.3	521.3	500	500	600	600	784.4	646.4	
330A	208/230-60	187	253	734.7	734.7	800	800	800	800	1208.1	904.1	819.1	819.1	800	800	1000	1000	1292.5	988.5	
	460-60	414	506	323.5	323.5	350	350	350	350	518.0	427.0	355.5	355.5	400	400	400	400	550.0	459.0	
	575-60	518	633	294.6	294.6	300	300	350	350	418.5	348.5	312.6	312.6	350	350	350	350	436.5	366.5	
	380-60	342	418	387.8	387.8	400	400	450	450	598.0	486.0	422.8	422.8	450	450	450	450	633.0	521.0	
	380/415-50	342	440	387.3	387.3	450	450	450	450	650.4	512.4	426.3	426.3	450	450	450	450	689.4	551.4	
360A	208/230-60	187	253	810.2	810.2	800	800	1000	1000	1311.1	1035.1	910.6	910.6	1000	1000	1000	1000	1411.5	1135.5	
	460-60	414	506	368.2	368.2	400	400	400	400	631.4	493.4	406.2	406.2	450	450	450	450	669.4	531.4	
	575-60	518	633	325.9	325.9	350	350	350	350	530.5	419.5	347.5	347.5	400	400	400	400	552.1	441.1	
	380-60	342	418	429.3	430.9	500	500	500	500	712.8	560.5	471.3	472.9	500	500	500	500	754.8	602.5	
	380/415-50	342	440	450.2	450.2	500	500	500	500	713.3	575.3	497.0	497.0	500	500	500	600	760.1	622.1	
390A	208/230-60	187	253	900.0	900.0	1000	1000	1000	1000	1400.9	1124.9	1000.4	1000.4	1000	1000	1200	1200	1501.3	1225.3	
	460-60	414	506	413.1	413.1	450	450	450	450	676.3	538.3	451.1	451.1	500	500	500	500	714.3	576.3	
	575-60	518	633	362.5	362.5	400	400	400	400	567.1	456.1	384.1	384.1	400	400	400	400	588.7	477.7	
	380-60	342	418	476.1	477.7	500	500	500	500	759.6	607.3	518.1	519.7	500	500	600	600	801.6	649.3	
	380/415-50	342	440	474.5	474.5	500	500	500	500	737.6	599.6	521.3	521.3	500	500	600	600	784.4	646.4	
420A	208/230-60	187	253	900.0	900.0	1000	1000	1000	1000	1400.9	1124.9	1000.4	1000.4	1000	1000	1200	1200	1501.3	1225.3	
	460-60	414	506	413.1	413.1	450	450	450	450	676.3	538.3	451.1	451.1	500	500	500	500	714.3	576.3	
	575-60	518	633	362.5	362.5	400	400	400	400	567.1	456.1	384.1	384.1	400	400	400	400	588.7	477.7	
	380-60	342	418	476.1	477.7	500	500	500	500	759.6	607.3	518.1	519.7	500	500	600	600	801.6	649.3	
	380/415-50	342	440	474.5	474.5	500	500	500	500	737.6	599.6	521.3	521.3	500	500	600	600	784.4	646.4	

Table 4B — Unit Electrical Data, 30GTN,GTR230-420 (cont)

UNIT SIZE 30GTN,GTR	VOLTAGE			MODULE B																
				Standard Condenser Fan								High Static Condenser Fan								
	Nominal V-Hz (3 Phase)	Supplied*		MCA		MOCP		Rec Fuse Size		ICF		MCA		MOCP		Rec Fuse Size		ICF		
		Min	Max	XL	PW	XL	PW	XL	PW	XL	PW	XL	PW	XL	PW	XL	PW	XL	PW	
230B	208/230-60	187	253	396.0	396 0	500	500	450	450	901 7	625 7	446.2	446 2	500	500	500	500	951.9	675 9	
	460-60	414	506	182.0	185.7	225	250	200	225	445.2	307.8	201 0	204.7	250	250	225	225	464.2	326.8	
	575-60	518	633	161 0	149 2	200	200	200	175	365.6	246 9	171.8	160.0	225	200	200	175	376.4	257 7	
	380-60	342	418	209.1	209 9	250	250	250	250	492 6	340.5	230.1	230.9	300	300	250	300	513 6	361.5	
	380/415-50	342	440	211.2	218.1	250	250	250	250	474.4	340.2	234.6	241.5	250	300	300	300	497.8	363.6	
245B	208/230-60	187	253	375.0	375.0	450	450	400	400	708.9	530 9	425 2	425.2	500	500	450	450	759.1	581 1	
	460-60	414	506	186 1	186.4	225	225	200	200	354.6	264 3	205.1	205.4	225	250	225	225	373 6	283 3	
	575-60	518	633	160 1	151.7	175	175	175	175	278 5	208 1	170.9	162.5	200	175	200	175	289.3	218.9	
	380-60	342	418	195.0	191 0	225	225	225	225	385.1	282.9	216.0	212 0	250	250	250	225	406.1	303.9	
	380/415-50	342	440	236.2	243.8	300	300	300	300	499.4	365.9	259 6	267.2	300	300	300	300	522.8	389 3	
255B	208/230-60	187	253	469.4	469 4	500	500	500	500	944 4	640 4	535 6	535 6	600	600	600	600	1010.6	706.6	
	460-60	414	506	217 9	224 8	250	250	250	250	412 4	325.9	242.9	249.8	250	250	300	300	437.4	350.9	
	575-60	518	633	191 1	168.7	225	200	225	200	316.6	233 1	205 5	183.1	225	200	225	200	331 0	247 5	
	380-60	342	418	240 6	242 1	250	250	300	300	454 8	342 8	268.6	270.1	300	300	300	300	482.8	370 8	
	380/415-50	342	440	261.6	269 8	300	300	300	300	524 8	391.9	292.8	301.0	350	350	350	350	556.0	423.1	
270B	208/230-60	187	253	469 4	469 4	500	500	500	500	944.4	640 4	535 6	535 6	600	600	600	600	1010.6	706.6	
	460-60	414	506	217 9	224 8	250	250	250	250	412.4	325 9	242 9	249.8	250	250	300	300	437.4	350.9	
	575-60	518	633	191 1	168 7	225	200	225	200	316 6	233 1	205.5	183.1	225	200	225	200	331.0	247.5	
	380-60	342	418	240.6	242.1	250	250	300	300	454 8	342 8	268.6	270 1	300	300	300	300	482.8	370.8	
	380/415-50	342	440	261.6	269.8	300	300	300	300	524.8	391.9	292.8	301.0	350	350	350	350	556.0	423.1	
290B	208/230-60	187	253	520.7	520 7	600	600	600	600	1026 4	750 4	586.9	586 9	700	700	700	700	1092.6	816.6	
	460-60	414	506	241 2	248 8	300	300	300	300	504.4	370 9	266.2	273 8	300	300	300	300	529.4	395.9	
	575-60	518	633	212.0	194.4	250	225	250	225	416.6	292.1	226.4	208.8	250	250	250	225	431.0	306.5	
	380-60	342	418	273.3	274.2	350	350	300	300	556 8	404.8	301.3	302.2	350	350	350	350	584.8	432.8	
	380/415-50	342	440	305.2	315.8	350	350	350	350	568.4	437.9	336 4	347.0	400	400	400	400	599.6	469.1	
315B	208/230-60	187	253	520.7	520 7	600	600	600	600	1026.4	750 4	586.9	586 9	700	700	700	700	1092.6	816.6	
	460-60	414	506	241.2	248 8	300	300	300	300	504 4	370 9	266.2	273 8	300	300	300	300	529 4	395.9	
	575-60	518	633	212.0	194 4	250	225	250	225	416 6	292.1	226.4	208.8	250	250	225	225	431.0	306 5	
	380-60	342	418	273.3	274.2	350	350	300	300	556 8	404 8	301.3	302.2	350	350	350	350	584.8	432.8	
	380/415-50	342	440	305.2	315 8	350	350	350	350	568.4	437 9	336.4	347 0	400	400	400	400	599.6	469.1	
330B	208/230-60	187	253	734.7	734.7	800	800	800	800	1208 1	904.1	819.1	819 1	800	800	1000	1000	1292.5	988.5	
	460-60	414	506	323.5	323 5	350	350	350	350	518 0	427 0	355.5	355.5	400	400	400	400	550.0	459.0	
	575-60	518	633	294.6	294 6	300	300	350	350	418.5	348.5	312.6	312.6	350	350	350	350	436.5	366.5	
	380-60	342	418	387 8	387 8	400	400	450	450	598.0	486.0	422.8	422 8	450	450	450	450	633.0	521 0	
	380/415-50	342	440	387.3	387 3	450	450	450	450	650.4	512 4	426.3	426 3	450	450	450	450	689 4	551 4	
360B	208/230-60	187	253	810.2	810 2	800	800	1000	1000	1311.1	1035.1	910.6	910 6	1000	1000	1000	1000	1411.5	1135.5	
	460-60	414	506	368.2	368.2	400	400	400	400	631.4	493.4	406 2	406.2	450	450	450	450	669.4	531.4	
	575-60	518	633	325.9	325 9	350	350	350	350	530.5	419 5	347.5	347 5	400	400	400	400	552.1	441.1	
	380-60	342	418	429.3	430 9	500	500	450	500	712 8	560 5	471.3	472 9	500	500	500	500	754.8	602.5	
	380/415-50	342	440	387 3	387.3	450	450	450	450	650.4	512.4	426.3	426.3	450	450	450	450	689.4	551.4	
390B	208/230-60	187	253	810.2	810 2	800	800	1000	1000	1311.1	1035 1	910 6	910 6	1000	1000	1000	1000	1411.5	1135.5	
	460-60	414	506	368.2	368.2	400	400	400	400	631.4	493 4	406.2	406 2	450	450	450	450	669 4	531.4	
	575-60	518	633	325.9	325.9	350	350	350	350	530.5	419 5	347 5	347 5	400	400	400	400	552 1	441 1	
	380-60	342	418	429.3	430.9	500	500	450	500	712.8	560 5	471 3	472.9	500	500	500	500	754.8	602.5	
	380/415-50	342	440	450.2	450.2	500	500	500	500	713.3	575 3	497 0	497 0	500	500	600	600	760 1	622.1	
420B	208/230-60	187	253	900.0	900 0	1000	1000	1000	1000	1400 9	1124 9	1000.4	1000 4	1000	1000	1200	1200	1501 3	1225.3	
	460-60	414	506	413.1	413.1	450	450	450	450	676 3	538 3	451.1	451 1	500	500	500	500	714.3	576.3	
	575-60	518	633	362.5	362.5	400	400	400	400	567.1	456.1	384 1	384.1	400	400	400	400	588.7	477.7	
	380-60	342	418	476.1	477 7	500	500	500	500	759 6	607 3	518 1	519 7	500	500	600	600	801.6	649.3	
	380/415-50	342	440	474.5	474 5	500	500	500	500	737 6	599 6	521 3	521 3	500	500	600	600	784 4	646 4	

See legend and notes on page 47.

Table 5 — Control Circuit

UNIT POWER V-Ph-Hz	CONTROL POWER			MCA and MOCP
	V-Ph-Hz	Min	Max	
208/230-3-60	115-60	104	127	30
460-3-60	115-60	104	127	30
575-3-60	115-60	104	127	30
380-3-60	230-60	207	254	15
380/415-3-50	230-50	198	254	15

Table 6A — Compressor Electrical Data, 30GTN,GTR040-210

UNIT SIZE 30GTN,GTR	NOMINAL VOLTAGE V-Ph-Hz	COMPRESSOR NUMBERS													
		A1		A2		A3		A4		B1		B2		B3	
		RLA	LRA	RLA	LRA	RLA	LRA	RLA	LRA	RLA	LRA	RLA	LRA	RLA	LRA
040-XL	208/230-3-60	67.9	345.0	—	—	—	—	—	—	67.9	345.0	—	—	—	—
	460-3-60	34.6	173.0	—	—	—	—	—	—	34.6	173.0	—	—	—	—
	575-3-60	28.8	120.0	—	—	—	—	—	—	28.8	120.0	—	—	—	—
	380-3-60	34.6	191.0	—	—	—	—	—	—	34.6	191.0	—	—	—	—
	380/415-3-50	34.6	173.0	—	—	—	—	—	—	43.6	223.0	—	—	—	—
040-PW	208/230-3-60	67.9	207.0	—	—	—	—	—	—	67.9	207.0	—	—	—	—
	460-3-60	33.3	104.0	—	—	—	—	—	—	33.3	104.0	—	—	—	—
	575-3-60	28.2	72.0	—	—	—	—	—	—	28.2	72.0	—	—	—	—
	380-3-60	33.3	115.0	—	—	—	—	—	—	33.3	115.0	—	—	—	—
	380/415-3-50	33.3	104.0	—	—	—	—	—	—	44.9	134.0	—	—	—	—
045-XL	208/230-3-60	67.9	345.0	—	—	—	—	—	—	89.7	446.0	—	—	—	—
	460-3-60	34.6	173.0	—	—	—	—	—	—	43.6	223.0	—	—	—	—
	575-3-60	28.8	120.0	—	—	—	—	—	—	36.5	164.0	—	—	—	—
	380-3-60	34.6	191.0	—	—	—	—	—	—	45.5	247.0	—	—	—	—
	380/415-3-50	43.6	223.0	—	—	—	—	—	—	46.8	253.0	—	—	—	—
045-PW	208/230-3-60	67.9	207.0	—	—	—	—	—	—	89.7	268.0	—	—	—	—
	460-3-60	33.3	104.0	—	—	—	—	—	—	44.9	134.0	—	—	—	—
	575-3-60	28.2	72.0	—	—	—	—	—	—	33.3	98.0	—	—	—	—
	380-3-60	33.3	115.0	—	—	—	—	—	—	44.9	148.0	—	—	—	—
	380/415-3-50	44.9	134.0	—	—	—	—	—	—	48.7	162.0	—	—	—	—
050-XL	208/230-3-60	89.7	446.0	—	—	—	—	—	—	106.4	608.0	—	—	—	—
	460-3-60	43.6	223.0	—	—	—	—	—	—	46.8	253.0	—	—	—	—
	575-3-60	36.5	164.0	—	—	—	—	—	—	40.4	176.0	—	—	—	—
	380-3-60	45.5	247.0	—	—	—	—	—	—	52.6	280.0	—	—	—	—
	380/415-3-50	46.8	253.0	—	—	—	—	—	—	65.4	345.0	—	—	—	—
050-PW	208/230-3-60	89.7	268.0	—	—	—	—	—	—	106.4	304.0	—	—	—	—
	460-3-60	44.9	134.0	—	—	—	—	—	—	48.7	162.0	—	—	—	—
	575-3-60	33.3	98.0	—	—	—	—	—	—	33.3	106.0	—	—	—	—
	380-3-60	44.9	148.0	—	—	—	—	—	—	53.8	168.0	—	—	—	—
	380/415-3-50	48.7	162.0	—	—	—	—	—	—	67.9	207.0	—	—	—	—
060-XL	208/230-3-60	106.4	608.0	—	—	—	—	—	—	147.4	690.0	—	—	—	—
	460-3-60	46.8	253.0	—	—	—	—	—	—	65.4	345.0	—	—	—	—
	575-3-60	40.4	176.0	—	—	—	—	—	—	57.1	276.0	—	—	—	—
	380-3-60	52.6	280.0	—	—	—	—	—	—	78.8	382.0	—	—	—	—
	380/415-3-50	65.4	345.0	—	—	—	—	—	—	65.4	345.0	—	—	—	—
060-PW	208/230-3-60	106.4	304.0	—	—	—	—	—	—	147.4	414.0	—	—	—	—
	460-3-60	48.7	162.0	—	—	—	—	—	—	67.9	207.0	—	—	—	—
	575-3-60	33.3	106.0	—	—	—	—	—	—	53.8	165.0	—	—	—	—
	380-3-60	53.8	168.0	—	—	—	—	—	—	79.5	230.0	—	—	—	—
	380/415-3-50	67.9	207.0	—	—	—	—	—	—	67.9	207.0	—	—	—	—
070-XL	208/230-3-60	147.4	690.0	—	—	—	—	—	—	147.4	690.0	—	—	—	—
	460-3-60	65.4	345.0	—	—	—	—	—	—	65.4	345.0	—	—	—	—
	575-3-60	57.1	276.0	—	—	—	—	—	—	57.1	276.0	—	—	—	—
	380-3-60	78.8	382.0	—	—	—	—	—	—	78.8	382.0	—	—	—	—
	380/415-3-50	43.6	223.0	43.6	223.0	—	—	—	—	65.4	345.0	—	—	—	—
070-PW	208/230-3-60	147.4	414.0	—	—	—	—	—	—	147.4	414.0	—	—	—	—
	460-3-60	67.9	207.0	—	—	—	—	—	—	67.9	207.0	—	—	—	—
	575-3-60	53.8	165.0	—	—	—	—	—	—	53.8	165.0	—	—	—	—
	380-3-60	79.5	230.0	—	—	—	—	—	—	79.5	230.0	—	—	—	—
	380/415-3-50	44.9	134.0	44.9	134.0	—	—	—	—	67.9	207.0	—	—	—	—

See legend and notes on page 47

Table 6A — Compressor Electrical Data, 30GTN,GTR040-210 (cont)

UNIT SIZE 30GTN,GTR	NOMINAL VOLTAGE V-Ph-Hz	COMPRESSOR NUMBERS													
		A1		A2		A3		A4		B1		B2		B3	
		RLA	LRA	RLA	LRA	RLA	LRA	RLA	LRA	RLA	LRA	RLA	LRA	RLA	LRA
080-XL	208/230-3-60	106.4	608.0	67.9	345.0	—	—	—	—	147.4	690.0	—	—	—	—
	460-3-60	46.8	253.0	34.6	173.0	—	—	—	—	65.4	345.0	—	—	—	—
	575-3-60	40.4	176.0	28.8	120.0	—	—	—	—	57.1	276.0	—	—	—	—
	380-3-60	52.6	280.0	34.6	191.0	—	—	—	—	78.8	382.0	—	—	—	—
	380/415-3-50	43.6	223.0	65.4	345.0	—	—	—	—	65.4	345.0	—	—	—	—
080-PW	208/230-3-60	106.4	304.0	67.9	207.0	—	—	—	—	147.4	414.0	—	—	—	—
	460-3-60	48.7	162.0	33.3	104.0	—	—	—	—	67.9	207.0	—	—	—	—
	575-3-60	33.3	106.0	28.2	72.0	—	—	—	—	53.8	165.0	—	—	—	—
	380-3-60	53.8	168.0	33.3	115.0	—	—	—	—	79.5	230.0	—	—	—	—
	380/415-3-50	44.9	134.0	67.9	207.0	—	—	—	—	67.9	207.0	—	—	—	—
090-XL	208/230-3-60	89.7	446.0	67.9	345.0	—	—	—	—	89.7	446.0	67.9	345.0	—	—
	460-3-60	43.6	223.0	34.6	173.0	—	—	—	—	43.6	223.0	34.6	173.0	—	—
	575-3-60	36.5	164.0	28.8	120.0	—	—	—	—	36.5	164.0	28.8	120.0	—	—
	380-3-60	45.5	247.0	34.6	191.0	—	—	—	—	45.5	247.0	34.6	191.0	—	—
	380/415-3-50	43.6	223.0	65.4	345.0	—	—	—	—	43.6	223.0	46.8	253.0	—	—
090-PW	208/230-3-60	89.7	268.0	67.9	207.0	—	—	—	—	89.7	268.0	67.9	207.0	—	—
	460-3-60	44.9	134.0	33.3	104.0	—	—	—	—	44.9	134.0	33.3	104.0	—	—
	575-3-60	33.3	98.0	28.2	72.0	—	—	—	—	33.3	98.0	28.2	72.0	—	—
	380-3-60	44.9	148.0	33.3	115.0	—	—	—	—	44.9	148.0	33.3	115.0	—	—
	380/415-3-50	44.9	134.0	67.9	207.0	—	—	—	—	44.9	134.0	48.7	162.0	—	—
100-XL	208/230-3-60	89.7	446.0	106.4	608.0	—	—	—	—	89.7	446.0	106.4	608.0	—	—
	460-3-60	43.6	223.0	46.8	253.0	—	—	—	—	43.6	223.0	46.8	253.0	—	—
	575-3-60	36.5	164.0	40.4	176.0	—	—	—	—	36.5	164.0	40.4	176.0	—	—
	380-3-60	45.5	247.0	52.6	280.0	—	—	—	—	45.5	247.0	52.6	280.0	—	—
	380/415-3-50	43.6	223.0	65.4	345.0	—	—	—	—	43.6	223.0	65.4	345.0	—	—
100-PW	208/230-3-60	89.7	268.0	106.4	304.0	—	—	—	—	89.7	268.0	106.4	304.0	—	—
	460-3-60	44.9	134.0	48.7	162.0	—	—	—	—	44.9	134.0	48.7	162.0	—	—
	575-3-60	33.3	98.0	33.3	106.0	—	—	—	—	33.3	98.0	33.3	106.0	—	—
	380-3-60	44.9	148.0	53.8	168.0	—	—	—	—	44.9	148.0	53.8	168.0	—	—
	380/415-3-50	44.9	134.0	67.9	207.0	—	—	—	—	44.9	134.0	67.9	207.0	—	—
110-XL	208/230-3-60	89.7	446.0	147.4	690.0	—	—	—	—	89.7	446.0	106.4	608.0	—	—
	460-3-60	43.6	223.0	65.4	345.0	—	—	—	—	43.6	223.0	46.8	253.0	—	—
	575-3-60	36.5	164.0	57.1	276.0	—	—	—	—	36.5	164.0	40.4	176.0	—	—
	380-3-60	45.5	247.0	78.8	382.0	—	—	—	—	45.5	247.0	52.6	280.0	—	—
	380/415-3-50	65.4	345.0	65.4	345.0	—	—	—	—	65.4	345.0	65.4	345.0	—	—
110-PW	208/230-3-60	89.7	268.0	147.4	414.0	—	—	—	—	89.7	268.0	106.4	304.0	—	—
	460-3-60	44.9	134.0	67.9	207.0	—	—	—	—	44.9	134.0	48.7	162.0	—	—
	575-3-60	33.3	98.0	53.8	165.0	—	—	—	—	33.3	98.0	33.3	106.0	—	—
	380-3-60	44.9	148.0	79.5	230.0	—	—	—	—	44.9	148.0	53.8	168.0	—	—
	380/415-3-50	67.9	207.0	67.9	207.0	—	—	—	—	67.9	207.0	67.9	207.0	—	—
130-XL	208/230-3-60	106.4	608.0	147.4	690.0	—	—	—	—	106.4	608.0	147.4	690.0	—	—
	460-3-60	46.8	253.0	65.4	345.0	—	—	—	—	46.8	253.0	65.4	345.0	—	—
	575-3-60	40.4	176.0	57.1	276.0	—	—	—	—	40.4	176.0	57.1	276.0	—	—
	380-3-60	52.6	280.0	78.8	382.0	—	—	—	—	52.6	280.0	78.8	382.0	—	—
	380/415-3-50	43.6	223.0	46.8	253.0	46.8	253.0	—	—	65.4	345.0	65.4	345.0	—	—
130-PW	208/230-3-60	106.4	304.0	147.4	414.0	—	—	—	—	106.4	304.0	147.4	414.0	—	—
	460-3-60	48.7	162.0	67.9	207.0	—	—	—	—	48.7	162.0	67.9	207.0	—	—
	575-3-60	33.3	106.0	53.8	165.0	—	—	—	—	33.3	106.0	53.8	165.0	—	—
	380-3-60	53.8	168.0	79.5	230.0	—	—	—	—	53.8	168.0	79.5	230.0	—	—
	380/415-3-50	44.9	134.0	48.7	162.0	48.7	162.0	—	—	67.9	207.0	67.9	207.0	—	—

See legend and notes on page 47

Table 6A — Compressor Electrical Data, 30GTN,GTR040-210 (cont)

UNIT SIZE 30GTN,GTR	NOMINAL VOLTAGE V-Ph-Hz	COMPRESSOR NUMBERS													
		A1		A2		A3		A4		B1		B2		B3	
		RLA	LRA	RLA	LRA	RLA	LRA	RLA	LRA	RLA	LRA	RLA	LRA	RLA	LRA
150-XL	208/230-3-60	89.7	446.0	89.7	446.0	89.7	446.0	—	—	147.4	690.0	147.4	690.0	—	—
	460-3-60	43.6	223.0	43.6	223.0	43.6	223.0	—	—	65.4	345.0	65.4	345.0	—	—
	575-3-60	36.5	164.0	36.5	164.0	36.5	164.0	—	—	57.1	276.0	57.1	276.0	—	—
	380-3-60	45.5	247.0	45.5	247.0	45.5	247.0	—	—	78.8	382.0	78.8	382.0	—	—
	380/415-3-50	65.4	345.0	65.4	345.0	65.4	345.0	—	—	65.4	345.0	65.4	345.0	—	—
150-PW	208/230-3-60	89.7	268.0	89.7	268.0	89.7	268.0	—	—	147.4	414.0	147.4	414.0	—	—
	460-3-60	44.9	134.0	44.9	134.0	44.9	134.0	—	—	67.9	207.0	67.9	207.0	—	—
	575-3-60	33.3	98.0	33.3	98.0	33.3	98.0	—	—	53.8	165.0	53.8	165.0	—	—
	380-3-60	44.9	148.0	44.9	148.0	44.9	148.0	—	—	79.5	230.0	79.5	230.0	—	—
	380/415-3-50	67.9	207.0	67.9	207.0	67.9	207.0	—	—	67.9	207.0	67.9	207.0	—	—
170-XL	208/230-3-60	106.4	608.0	106.4	608.0	106.4	608.0	—	—	106.4	608.0	106.4	608.0	106.4	608.0
	460-3-60	46.8	253.0	46.8	253.0	46.8	253.0	—	—	46.8	253.0	46.8	253.0	46.8	253.0
	575-3-60	40.4	176.0	40.4	176.0	40.4	176.0	—	—	40.4	176.0	40.4	176.0	40.4	176.0
	380-3-60	52.6	280.0	52.6	280.0	52.6	280.0	—	—	52.6	280.0	52.6	280.0	52.6	280.0
	380/415-3-50	46.8	345.0	46.8	253.0	65.4	345.0	—	—	46.8	253.0	65.4	345.0	65.4	345.0
170-PW	208/230-3-60	106.4	304.0	106.4	304.0	106.4	304.0	—	—	106.4	304.0	106.4	304.0	106.4	304.0
	460-3-60	48.7	162.0	48.7	162.0	48.7	162.0	—	—	48.7	162.0	48.7	162.0	48.7	162.0
	575-3-60	33.3	106.0	33.3	106.0	33.3	106.0	—	—	33.3	106.0	33.3	106.0	33.3	106.0
	380-3-60	53.8	168.0	53.8	168.0	53.8	168.0	—	—	53.8	168.0	53.8	168.0	53.8	168.0
	380/415-3-50	48.7	207.0	48.7	162.0	67.9	207.0	—	—	48.7	162.0	67.9	207.0	67.9	207.0
190-XL	208/230-3-60	89.7	446.0	106.4	608.0	147.4	690.0	—	—	89.7	446.0	106.4	608.0	147.4	690.0
	460-3-60	43.6	223.0	46.8	253.0	65.4	345.0	—	—	43.6	223.0	46.8	253.0	65.4	345.0
	575-3-60	36.5	164.0	40.4	176.0	57.1	276.0	—	—	36.5	164.0	40.4	176.0	57.1	276.0
	380-3-60	45.5	247.0	52.6	280.0	78.8	382.0	—	—	45.5	247.0	52.6	280.0	78.8	382.0
	380/415-3-50	65.4	345.0	65.4	345.0	65.4	345.0	—	—	65.4	345.0	65.4	345.0	65.4	345.0
190-PW	208/230-3-60	89.7	268.0	106.4	304.0	147.4	414.0	—	—	89.7	268.0	106.4	304.0	147.4	414.0
	460-3-60	44.9	134.0	48.7	162.0	67.9	207.0	—	—	44.9	134.0	48.7	162.0	67.9	207.0
	575-3-60	33.3	98.0	33.3	106.0	53.8	165.0	—	—	33.3	98.0	33.3	106.0	53.8	165.0
	380-3-60	44.9	148.0	53.8	168.0	79.5	230.0	—	—	44.9	148.0	53.8	168.0	79.5	230.0
	380/415-3-50	67.9	207.0	67.9	207.0	67.9	207.0	—	—	67.9	207.0	67.9	207.0	67.9	207.0
210-XL	208/230-3-60	89.7	446.0	89.7	446.0	89.7	446.0	106.4	608.0	106.4	608.0	147.4	690.0	147.4	690.0
	460-3-60	43.6	223.0	43.6	223.0	43.6	223.0	46.8	253.0	46.8	253.0	65.4	345.0	65.4	345.0
	575-3-60	36.5	164.0	36.5	164.0	36.5	164.0	40.4	176.0	40.4	176.0	57.1	276.0	57.1	276.0
	380-3-60	45.5	247.0	45.5	247.0	45.5	247.0	52.6	280.0	52.6	280.0	78.8	382.0	78.8	382.0
	380/415-3-50	43.6	223.0	43.6	223.0	65.4	345.0	65.4	345.0	65.4	345.0	65.4	345.0	65.4	345.0
210-PW	208/230-3-60	89.7	268.0	89.7	268.0	89.7	268.0	106.4	304.0	106.4	304.0	147.4	414.0	147.4	414.0
	460-3-60	44.9	134.0	44.9	134.0	44.9	134.0	48.7	162.0	48.7	162.0	67.9	207.0	67.9	207.0
	575-3-60	33.3	98.0	33.3	98.0	33.3	98.0	33.3	106.0	33.3	106.0	53.8	165.0	53.8	165.0
	380-3-60	44.9	148.0	44.9	148.0	44.9	148.0	53.8	168.0	53.8	168.0	79.5	230.0	79.5	230.0
	380/415-3-50	44.9	134.0	44.9	134.0	67.9	207.0	67.9	207.0	67.9	207.0	67.9	207.0	67.9	207.0

See legend and notes on page 47

Table 6B — Compressor Electrical Data, 30GTN,GTR230-420

UNIT SIZE 30GTN,GTR	NOMINAL VOLTAGE V-Ph-Hz	MODULE A													
		Compressor Numbers													
		A1		A2		A3		A4		B1		B2		B3	
		RLA	LRA	RLA	LRA	RLA	LRA	RLA	LRA	RLA	LRA	RLA	LRA	RLA	LRA
230A-XL	208/230-3-60	89.7	446.0	89.7	446.0	89.7	446.0	—	—	147.4	690.0	147.4	690.0	—	—
	460-3-60	43.6	223.0	43.6	223.0	43.6	223.0	—	—	65.4	345.0	65.4	345.0	—	—
	575-3-60	36.5	164.0	36.5	164.0	36.5	164.0	—	—	57.1	276.0	57.1	276.0	—	—
	380-3-60	45.5	247.0	45.5	247.0	45.5	247.0	—	—	78.8	382.0	78.8	382.0	—	—
	380/415-3-50	65.4	345.0	65.4	345.0	65.4	345.0	—	—	65.4	345.0	65.4	345.0	—	—
230A-PW	208/230-3-60	89.7	268.0	89.7	268.0	89.7	268.0	—	—	147.4	414.0	147.4	414.0	—	—
	460-3-60	44.9	134.0	44.9	134.0	44.9	134.0	—	—	67.9	207.0	67.9	207.0	—	—
	575-3-60	33.3	98.0	33.3	98.0	33.3	98.0	—	—	53.8	165.0	53.8	165.0	—	—
	380-3-60	44.9	148.0	44.9	148.0	44.9	148.0	—	—	79.5	230.0	79.5	230.0	—	—
	380/415-3-50	67.9	207.0	67.9	207.0	67.9	207.0	—	—	67.9	207.0	67.9	207.0	—	—
245A-XL	208/230-3-60	89.7	446.0	89.7	446.0	89.7	446.0	—	—	147.4	690.0	147.4	690.0	—	—
	460-3-60	43.6	223.0	43.6	223.0	43.6	223.0	—	—	65.4	345.0	65.4	345.0	—	—
	575-3-60	36.5	164.0	36.5	164.0	36.5	164.0	—	—	57.1	276.0	57.1	276.0	—	—
	380-3-60	45.5	247.0	45.5	247.0	45.5	247.0	—	—	78.8	382.0	78.8	382.0	—	—
	380/415-3-50	65.4	345.0	65.4	345.0	65.4	345.0	—	—	65.4	345.0	65.4	345.0	—	—
245A-PW	208/230-3-60	89.7	268.0	89.7	268.0	89.7	268.0	—	—	147.4	414.0	147.4	414.0	—	—
	460-3-60	44.9	134.0	44.9	134.0	44.9	134.0	—	—	67.9	207.0	67.9	207.0	—	—
	575-3-60	33.3	98.0	33.3	98.0	33.3	98.0	—	—	53.8	165.0	53.8	165.0	—	—
	380-3-60	44.9	148.0	44.9	148.0	44.9	148.0	—	—	79.5	230.0	79.5	230.0	—	—
	380/415-3-50	67.9	207.0	67.9	207.0	67.9	207.0	—	—	67.9	207.0	67.9	207.0	—	—
255A-XL	208/230-3-60	89.7	446.0	89.7	446.0	89.7	446.0	—	—	147.4	690.0	147.4	690.0	—	—
	460-3-60	43.6	223.0	43.6	223.0	43.6	223.0	—	—	65.4	345.0	65.4	345.0	—	—
	575-3-60	36.5	164.0	36.5	164.0	36.5	164.0	—	—	57.1	276.0	57.1	276.0	—	—
	380-3-60	45.5	247.0	45.5	247.0	45.5	247.0	—	—	78.8	382.0	78.8	382.0	—	—
	380/415-3-50	65.4	345.0	65.4	345.0	65.4	345.0	—	—	65.4	345.0	65.4	345.0	—	—
255A-PW	208/230-3-60	89.7	268.0	89.7	268.0	89.7	268.0	—	—	147.4	414.0	147.4	414.0	—	—
	460-3-60	44.9	134.0	44.9	134.0	44.9	134.0	—	—	67.9	207.0	67.9	207.0	—	—
	575-3-60	33.3	98.0	33.3	98.0	33.3	98.0	—	—	53.8	165.0	53.8	165.0	—	—
	380-3-60	44.9	148.0	44.9	148.0	44.9	148.0	—	—	79.5	230.0	79.5	230.0	—	—
	380/415-3-50	67.9	207.0	67.9	207.0	67.9	207.0	—	—	67.9	207.0	67.9	207.0	—	—
270A-XL	208/230-3-60	106.4	608.0	106.4	608.0	106.4	608.0	—	—	106.4	608.0	106.4	608.0	106.4	608.0
	460-3-60	46.8	253.0	46.8	253.0	46.8	253.0	—	—	46.8	253.0	46.8	253.0	46.8	253.0
	575-3-60	40.4	176.0	40.4	176.0	40.4	176.0	—	—	40.4	176.0	40.4	176.0	40.4	176.0
	380-3-60	52.6	280.0	52.6	280.0	52.6	280.0	—	—	52.6	280.0	52.6	280.0	52.6	280.0
	380/415-3-50	46.8	253.0	46.8	253.0	65.4	345.0	—	—	46.8	253.0	65.4	345.0	65.4	345.0
270A-PW	208/230-3-60	106.4	304.0	106.4	304.0	106.4	304.0	—	—	106.4	304.0	106.4	304.0	106.4	304.0
	460-3-60	48.7	162.0	48.7	162.0	48.7	162.0	—	—	48.7	162.0	48.7	162.0	48.7	162.0
	575-3-60	33.3	106.0	33.3	106.0	33.3	106.0	—	—	33.3	106.0	33.3	106.0	33.3	106.0
	380-3-60	53.8	168.0	53.8	168.0	53.8	168.0	—	—	53.8	168.0	53.8	168.0	53.8	168.0
	380/415-3-50	48.7	162.0	48.7	162.0	67.9	207.0	—	—	48.7	162.0	67.9	207.0	67.9	207.0
290A-XL	208/230-3-60	89.7	446.0	106.4	608.0	147.4	690.0	—	—	89.7	446.0	106.4	608.0	147.4	690.0
	460-3-60	43.6	223.0	46.8	253.0	65.4	345.0	—	—	43.6	223.0	46.8	253.0	65.4	345.0
	575-3-60	36.5	164.0	40.4	176.0	57.1	276.0	—	—	36.5	164.0	40.4	176.0	57.1	276.0
	380-3-60	45.5	247.0	52.6	280.0	78.8	382.0	—	—	45.5	247.0	52.6	280.0	78.8	382.0
	380/415-3-50	65.4	345.0	65.4	345.0	65.4	345.0	—	—	65.4	345.0	65.4	345.0	65.4	345.0
290A-PW	208/230-3-60	89.7	268.0	106.4	304.0	147.4	414.0	—	—	89.7	268.0	106.4	304.0	147.4	414.0
	460-3-60	44.9	134.0	48.7	162.0	67.9	207.0	—	—	44.9	134.0	48.7	162.0	67.9	207.0
	575-3-60	33.3	98.0	33.3	106.0	53.8	165.0	—	—	33.3	98.0	33.3	106.0	53.8	165.0
	380-3-60	44.9	148.0	53.8	168.0	79.5	230.0	—	—	44.9	148.0	53.8	168.0	79.5	230.0
	380/415-3-50	67.9	207.0	67.9	207.0	67.9	207.0	—	—	67.9	207.0	67.9	207.0	67.9	207.0

See legend and notes on page 47

Table 6B — Compressor Electrical Data, 30GTN,GTR230-420 (cont)

UNIT SIZE 30GTN,GTR	NOMINAL VOLTAGE V-Ph-Hz	MODULE B													
		Compressor Numbers													
		A1		A2		A3		A4		B1		B2		B3	
		RLA	LRA	RLA	LRA	RLA	LRA	RLA	LRA	RLA	LRA	RLA	LRA	RLA	LRA
230B-XL	208/230-3-60	106.4	608.0	67.9	345.0	—	—	—	—	147.4	690.0	—	—	—	—
	460-3-60	46.8	253.0	34.6	173.0	—	—	—	—	65.4	345.0	—	—	—	—
	575-3-60	40.4	176.0	28.8	120.0	—	—	—	—	57.1	276.0	—	—	—	—
	380-3-60	52.6	280.0	34.6	191.0	—	—	—	—	78.8	382.0	—	—	—	—
	380/415-3-50	43.6	223.0	65.4	345.0	—	—	—	—	65.4	345.0	—	—	—	—
230B-PW	208/230-3-60	106.4	304.0	67.9	207.0	—	—	—	—	147.4	414.0	—	—	—	—
	460-3-60	48.7	162.0	33.3	104.0	—	—	—	—	67.9	207.0	—	—	—	—
	575-3-60	33.3	106.0	28.2	72.0	—	—	—	—	53.8	165.0	—	—	—	—
	380-3-60	53.8	168.0	33.3	115.0	—	—	—	—	79.5	230.0	—	—	—	—
	380/415-3-50	44.9	134.0	67.9	207.0	—	—	—	—	67.9	207.0	—	—	—	—
245B-XL	208/230-3-60	89.7	446.0	67.9	345.0	—	—	—	—	89.7	446.0	67.9	345.0	—	—
	460-3-60	43.6	223.0	34.6	173.0	—	—	—	—	43.6	223.0	34.6	173.0	—	—
	575-3-60	36.5	164.0	28.8	120.0	—	—	—	—	36.5	164.0	28.8	120.0	—	—
	380-3-60	45.5	247.0	34.6	191.0	—	—	—	—	45.5	247.0	34.6	191.0	—	—
	380/415-3-50	43.6	223.0	65.4	345.0	—	—	—	—	43.6	223.0	46.8	253.0	—	—
245B-PW	208/230-3-60	89.7	268.0	67.9	207.0	—	—	—	—	89.7	268.0	67.9	207.0	—	—
	460-3-60	44.9	134.0	33.3	104.0	—	—	—	—	44.9	134.0	33.3	104.0	—	—
	575-3-60	33.3	98.0	28.2	72.0	—	—	—	—	33.3	98.0	28.2	72.0	—	—
	380-3-60	44.9	148.0	33.3	115.0	—	—	—	—	44.9	148.0	33.3	115.0	—	—
	380/415-3-50	44.9	134.0	67.9	207.0	—	—	—	—	44.9	134.0	48.7	162.0	—	—
255B-XL	208/230-3-60	89.7	446.0	106.4	608.0	—	—	—	—	89.7	446.0	106.4	608.0	—	—
	460-3-60	43.6	223.0	46.8	253.0	—	—	—	—	43.6	223.0	46.8	253.0	—	—
	575-3-60	36.5	164.0	40.4	176.0	—	—	—	—	36.5	164.0	40.4	176.0	—	—
	380-3-60	45.5	247.0	52.6	280.0	—	—	—	—	45.5	247.0	52.6	280.0	—	—
	380/415-3-50	43.6	223.0	65.4	345.0	—	—	—	—	43.6	223.0	65.4	345.0	—	—
255B-PW	208/230-3-60	89.7	268.0	106.4	304.0	—	—	—	—	89.7	268.0	106.4	304.0	—	—
	460-3-60	44.9	134.0	48.7	162.0	—	—	—	—	44.9	134.0	48.7	162.0	—	—
	575-3-60	33.3	98.0	33.3	106.0	—	—	—	—	33.3	98.0	33.3	106.0	—	—
	380-3-60	44.9	148.0	53.8	168.0	—	—	—	—	44.9	148.0	53.8	168.0	—	—
	380/415-3-50	44.9	134.0	67.9	207.0	—	—	—	—	44.9	134.0	67.9	207.0	—	—
270B-XL	208/230-3-60	89.7	446.0	106.4	608.0	—	—	—	—	89.7	446.0	106.4	608.0	—	—
	460-3-60	43.6	223.0	46.8	253.0	—	—	—	—	43.6	223.0	46.8	253.0	—	—
	575-3-60	36.5	164.0	40.4	176.0	—	—	—	—	36.5	164.0	40.4	176.0	—	—
	380-3-60	45.5	247.0	52.6	280.0	—	—	—	—	45.5	247.0	52.6	280.0	—	—
	380/415-3-50	43.6	223.0	65.4	345.0	—	—	—	—	43.6	223.0	65.4	345.0	—	—
270B-PW	208/230-3-60	89.7	268.0	106.4	304.0	—	—	—	—	89.7	268.0	106.4	304.0	—	—
	460-3-60	44.9	134.0	48.7	162.0	—	—	—	—	44.9	134.0	48.7	162.0	—	—
	575-3-60	33.3	98.0	33.3	106.0	—	—	—	—	33.3	98.0	33.3	106.0	—	—
	380-3-60	44.9	148.0	53.8	168.0	—	—	—	—	44.9	148.0	53.8	168.0	—	—
	380/415-3-50	44.9	134.0	67.9	207.0	—	—	—	—	44.9	134.0	67.9	207.0	—	—
290B-XL	208/230-3-60	89.7	446.0	147.4	690.0	—	—	—	—	89.7	446.0	106.4	608.0	—	—
	460-3-60	43.6	223.0	65.4	345.0	—	—	—	—	43.6	223.0	46.8	253.0	—	—
	575-3-60	36.5	164.0	57.1	276.0	—	—	—	—	36.5	164.0	40.4	176.0	—	—
	380-3-60	45.5	247.0	78.8	382.0	—	—	—	—	45.5	247.0	52.6	280.0	—	—
	380/415-3-50	65.4	345.0	65.4	345.0	—	—	—	—	65.4	345.0	65.4	345.0	—	—
290B-PW	208/230-3-60	89.7	268.0	147.4	414.0	—	—	—	—	89.7	268.0	106.4	304.0	—	—
	460-3-60	44.9	134.0	67.9	207.0	—	—	—	—	44.9	134.0	48.7	162.0	—	—
	575-3-60	33.3	98.0	53.8	165.0	—	—	—	—	33.3	98.0	33.3	106.0	—	—
	380-3-60	44.9	148.0	79.5	230.0	—	—	—	—	44.9	148.0	53.8	168.0	—	—
	380/415-3-50	67.9	207.0	67.9	207.0	—	—	—	—	67.9	207.0	67.9	207.0	—	—

See legend and notes on page 47.

Table 6B — Compressor Electrical Data, 30GTN,GTR230-420 (cont)

UNIT SIZE 30GTN,GTR	NOMINAL VOLTAGE V-Ph-Hz	MODULE A													
		Compressor Numbers													
		A1		A2		A3		A4		B1		B2		B3	
		RLA	LRA	RLA	LRA	RLA	LRA	RLA	LRA	RLA	LRA	RLA	LRA	RLA	LRA
315A-XL	208/230-3-60	89.7	446.0	89.7	446.0	89.7	446.0	106.4	608.0	106.4	608.0	147.4	690.0	147.4	690.0
	460-3-60	43.6	223.0	43.6	223.0	43.6	223.0	46.8	253.0	46.8	253.0	65.4	345.0	65.4	345.0
	575-3-60	36.5	164.0	36.5	164.0	36.5	164.0	40.4	176.0	40.4	176.0	57.1	276.0	57.1	276.0
	380-3-60	45.5	247.0	45.5	247.0	45.5	247.0	52.6	280.0	52.6	280.0	78.8	382.0	78.8	382.0
	380/415-3-50	43.6	223.0	43.6	223.0	65.4	345.0	65.4	345.0	65.4	345.0	65.4	345.0	65.4	345.0
315A-PW	208/230-3-60	89.7	268.0	89.7	268.0	89.7	268.0	106.4	304.0	106.4	304.0	147.4	414.0	147.4	414.0
	460-3-60	44.9	134.0	44.9	134.0	44.9	134.0	48.7	162.0	48.7	162.0	67.9	207.0	67.9	207.0
	575-3-60	33.3	98.0	33.3	98.0	33.3	98.0	33.3	106.0	33.3	106.0	53.8	165.0	53.8	165.0
	380-3-60	44.9	148.0	44.9	148.0	44.9	148.0	53.8	168.0	53.8	168.0	79.5	230.0	79.5	230.0
	380/415-3-50	44.9	134.0	44.9	134.0	67.9	207.0	67.9	207.0	67.9	207.0	67.9	207.0	67.9	207.0
330A-XL	208/230-3-60	106.4	608.0	106.4	608.0	106.4	608.0	—	—	106.4	608.0	106.4	608.0	106.4	608.0
	460-3-60	46.8	253.0	46.8	253.0	46.8	253.0	—	—	46.8	253.0	46.8	253.0	46.8	253.0
	575-3-60	40.4	176.0	40.4	176.0	40.4	176.0	—	—	40.4	176.0	40.4	176.0	40.4	176.0
	380-3-60	52.6	280.0	52.6	280.0	52.6	280.0	—	—	52.6	280.0	52.6	280.0	52.6	280.0
	380/415-3-50	46.8	253.0	46.8	253.0	65.4	345.0	—	—	46.8	253.0	65.4	345.0	65.4	345.0
330A-PW	208/230-3-60	106.4	304.0	106.4	304.0	106.4	304.0	—	—	106.4	304.0	106.4	304.0	106.4	304.0
	460-3-60	48.7	162.0	48.7	162.0	48.7	162.0	—	—	48.7	162.0	48.7	162.0	48.7	162.0
	575-3-60	33.3	106.0	33.3	106.0	33.3	106.0	—	—	33.3	106.0	33.3	106.0	33.3	106.0
	380-3-60	53.8	168.0	53.8	168.0	53.8	168.0	—	—	53.8	168.0	53.8	168.0	53.8	168.0
	380/415-3-50	48.7	162.0	48.7	162.0	67.9	207.0	—	—	48.7	162.0	67.9	207.0	67.9	207.0
360A-XL	208/230-3-60	89.7	446.0	106.4	608.0	147.4	690.0	—	—	89.7	446.0	106.4	608.0	147.4	690.0
	460-3-60	43.6	223.0	46.8	253.0	65.4	345.0	—	—	43.6	223.0	46.8	253.0	65.4	345.0
	575-3-60	36.5	164.0	40.4	176.0	57.1	276.0	—	—	36.5	164.0	40.4	176.0	57.1	276.0
	380-3-60	45.5	247.0	52.6	280.0	78.8	382.0	—	—	45.5	247.0	52.6	280.0	78.8	382.0
	380/415-3-50	65.4	345.0	65.4	345.0	65.4	345.0	—	—	65.4	345.0	65.4	345.0	65.4	345.0
360A-PW	208/230-3-60	89.7	268.0	106.4	304.0	147.4	414.0	—	—	89.7	268.0	106.4	304.0	147.4	414.0
	460-3-60	44.9	134.0	48.7	162.0	67.9	207.0	—	—	44.9	134.0	48.7	162.0	67.9	207.0
	575-3-60	33.3	98.0	33.3	106.0	53.8	165.0	—	—	33.3	98.0	33.3	106.0	53.8	165.0
	380-3-60	44.9	148.0	53.8	168.0	79.5	230.0	—	—	44.9	148.0	53.8	168.0	79.5	230.0
	380/415-3-50	67.9	207.0	67.9	207.0	67.9	207.0	—	—	67.9	207.0	67.9	207.0	67.9	207.0
390A-XL	208/230-3-60	89.7	446.0	89.7	446.0	89.7	446.0	106.4	608.0	106.4	608.0	147.4	690.0	147.4	690.0
	460-3-60	43.6	223.0	43.6	223.0	43.6	223.0	46.8	253.0	46.8	253.0	65.4	345.0	65.4	345.0
	575-3-60	36.5	164.0	36.5	164.0	36.5	164.0	40.4	176.0	40.4	176.0	57.1	276.0	57.1	276.0
	380-3-60	45.5	247.0	45.5	247.0	45.5	247.0	52.6	280.0	52.6	280.0	78.8	382.0	78.8	382.0
	380/415-3-50	43.6	223.0	43.6	223.0	65.4	345.0	65.4	345.0	65.4	345.0	65.4	345.0	65.4	345.0
390A-PW	208/230-3-60	89.7	268.0	89.7	268.0	89.7	268.0	106.4	304.0	106.4	304.0	147.4	414.0	147.4	414.0
	460-3-60	44.9	134.0	44.9	134.0	44.9	134.0	48.7	162.0	48.7	162.0	67.9	207.0	67.9	207.0
	575-3-60	33.3	98.0	33.3	98.0	33.3	98.0	33.3	106.0	33.3	106.0	53.8	165.0	53.8	165.0
	380-3-60	44.9	148.0	44.9	148.0	44.9	148.0	53.8	168.0	53.8	168.0	79.5	230.0	79.5	230.0
	380/415-3-50	44.9	134.0	44.9	134.0	67.9	207.0	67.9	207.0	67.9	207.0	67.9	207.0	67.9	207.0
420A-XL	208/230-3-60	89.7	446.0	89.7	446.0	89.7	446.0	106.4	608.0	106.4	608.0	147.4	690.0	147.4	690.0
	460-3-60	43.6	223.0	43.6	223.0	43.6	223.0	46.8	253.0	46.8	253.0	65.4	345.0	65.4	345.0
	575-3-60	36.5	164.0	36.5	164.0	36.5	164.0	40.4	176.0	40.4	176.0	57.1	276.0	57.1	276.0
	380-3-60	45.5	247.0	45.5	247.0	45.5	247.0	52.6	280.0	52.6	280.0	78.8	382.0	78.8	382.0
	380/415-3-50	43.6	223.0	43.6	223.0	65.4	345.0	65.4	345.0	65.4	345.0	65.4	345.0	65.4	345.0
420A-PW	208/230-3-60	89.7	268.0	89.7	268.0	89.7	268.0	106.4	304.0	106.4	304.0	147.4	414.0	147.4	414.0
	460-3-60	44.9	134.0	44.9	134.0	44.9	134.0	48.7	162.0	48.7	162.0	67.9	207.0	67.9	207.0
	575-3-60	33.3	98.0	33.3	98.0	33.3	98.0	33.3	106.0	33.3	106.0	53.8	165.0	53.8	165.0
	380-3-60	44.9	148.0	44.9	148.0	44.9	148.0	53.8	168.0	53.8	168.0	79.5	230.0	79.5	230.0
	380/415-3-50	44.9	134.0	44.9	134.0	67.9	207.0	67.9	207.0	67.9	207.0	67.9	207.0	67.9	207.0

See legend and notes on page 47

Table 6B — Compressor Electrical Data, 30GTN,GTR230-420 (cont)

UNIT SIZE 30GTN,GTR	NOMINAL VOLTAGE V-Ph-Hz	MODULE B													
		Compressor Numbers													
		A1		A2		A3		A4		B1		B2		B3	
		RLA	LRA	RLA	LRA	RLA	LRA	RLA	LRA	RLA	LRA	RLA	LRA	RLA	LRA
315B-XL	208/230-3-60	89.7	446.0	147.4	690.0	—	—	—	—	89.7	446.0	106.4	608.0	—	—
	460-3-60	43.6	223.0	65.4	345.0	—	—	—	—	43.6	223.0	46.8	253.0	—	—
	575-3-60	36.5	164.0	57.1	276.0	—	—	—	—	36.5	164.0	40.4	176.0	—	—
	380-3-60	45.5	247.0	78.8	382.0	—	—	—	—	45.5	247.0	52.6	280.0	—	—
	380/415-3-50	65.4	345.0	65.4	345.0	—	—	—	—	65.4	345.0	65.4	345.0	—	—
315B-PW	208/230-3-60	89.7	268.0	147.4	414.0	—	—	—	—	89.7	268.0	106.4	304.0	—	—
	460-3-60	44.9	134.0	67.9	207.0	—	—	—	—	44.9	134.0	48.7	162.0	—	—
	575-3-60	33.3	98.0	53.8	165.0	—	—	—	—	33.3	98.0	33.3	106.0	—	—
	380-3-60	44.9	148.0	79.5	230.0	—	—	—	—	44.9	148.0	53.8	168.0	—	—
	380/415-3-50	67.9	207.0	67.9	207.0	—	—	—	—	67.9	207.0	67.9	207.0	—	—
330B-XL	208/230-3-60	106.4	608.0	106.4	608.0	106.4	608.0	—	—	106.4	608.0	106.4	608.0	106.4	608.0
	460-3-60	46.8	253.0	46.8	253.0	46.8	253.0	—	—	46.8	253.0	46.8	253.0	46.8	253.0
	575-3-60	40.4	176.0	40.4	176.0	40.4	176.0	—	—	40.4	176.0	40.4	176.0	40.4	176.0
	380-3-60	52.6	280.0	52.6	280.0	52.6	280.0	—	—	52.6	280.0	52.6	280.0	52.6	280.0
	380/415-3-50	46.8	253.0	46.8	253.0	65.4	345.0	—	—	46.8	253.0	65.4	345.0	65.4	345.0
330B-PW	208/230-3-60	106.4	304.0	106.4	304.0	106.4	304.0	—	—	106.4	304.0	106.4	304.0	106.4	304.0
	460-3-60	48.7	162.0	48.7	162.0	48.7	162.0	—	—	48.7	162.0	48.7	162.0	48.7	162.0
	575-3-60	33.3	106.0	33.3	106.0	33.3	106.0	—	—	33.3	106.0	33.3	106.0	33.3	106.0
	380-3-60	53.8	168.0	53.8	168.0	53.8	168.0	—	—	53.8	168.0	53.8	168.0	53.8	168.0
	380/415-3-50	48.7	162.0	48.7	162.0	67.9	207.0	—	—	48.7	162.0	67.9	207.0	67.9	207.0
360B-XL	208/230-3-60	89.7	446.0	106.4	608.0	147.4	690.0	—	—	89.7	446.0	106.4	608.0	147.4	690.0
	460-3-60	43.6	223.0	46.8	253.0	65.4	345.0	—	—	43.6	223.0	46.8	253.0	65.4	345.0
	575-3-60	36.5	164.0	40.4	176.0	57.1	276.0	—	—	36.5	164.0	40.4	176.0	57.1	276.0
	380-3-60	45.5	247.0	52.6	280.0	78.8	382.0	—	—	45.5	247.0	52.6	280.0	78.8	382.0
	380/415-3-50	46.8	253.0	46.8	253.0	65.4	345.0	—	—	46.8	253.0	65.4	345.0	65.4	345.0
360B-PW	208/230-3-60	89.7	268.0	106.4	304.0	147.4	414.0	—	—	89.7	268.0	106.4	304.0	147.4	414.0
	460-3-60	44.9	134.0	48.7	162.0	67.9	207.0	—	—	44.9	134.0	48.7	162.0	67.9	207.0
	575-3-60	33.3	98.0	33.3	106.0	53.8	165.0	—	—	33.3	98.0	33.3	106.0	53.8	165.0
	380-3-60	44.9	148.0	53.8	168.0	79.5	230.0	—	—	44.9	148.0	53.8	168.0	79.5	230.0
	380/415-3-50	48.7	162.0	48.7	162.0	67.9	207.0	—	—	48.7	162.0	67.9	207.0	67.9	207.0
390B-XL	208/230-3-60	89.7	446.0	106.4	608.0	147.4	690.0	—	—	89.7	446.0	106.4	608.0	147.4	690.0
	460-3-60	43.6	223.0	46.8	253.0	65.4	345.0	—	—	43.6	223.0	46.8	253.0	65.4	345.0
	575-3-60	36.5	164.0	40.4	176.0	57.1	276.0	—	—	36.5	164.0	40.4	176.0	57.1	276.0
	380-3-60	45.5	247.0	52.6	280.0	78.8	382.0	—	—	45.5	247.0	52.6	280.0	78.8	382.0
	380/415-3-50	65.4	345.0	65.4	345.0	65.4	345.0	—	—	65.4	345.0	65.4	345.0	65.4	345.0
390B-PW	208/230-3-60	89.7	268.0	106.4	304.0	147.4	414.0	—	—	89.7	268.0	106.4	304.0	147.4	414.0
	460-3-60	44.9	134.0	48.7	162.0	67.9	207.0	—	—	44.9	134.0	48.7	162.0	67.9	207.0
	575-3-60	33.3	98.0	33.3	106.0	53.8	165.0	—	—	33.3	98.0	33.3	106.0	53.8	165.0
	380-3-60	44.9	148.0	53.8	168.0	79.5	230.0	—	—	44.9	148.0	53.8	168.0	79.5	230.0
	380/415-3-50	67.9	207.0	67.9	207.0	67.9	207.0	—	—	67.9	207.0	67.9	207.0	67.9	207.0
420B-XL	208/230-3-60	89.7	446.0	89.7	446.0	89.7	446.0	106.4	608.0	106.4	608.0	147.4	690.0	147.4	690.0
	460-3-60	43.6	223.0	43.6	223.0	43.6	223.0	46.8	253.0	46.8	253.0	65.4	345.0	65.4	345.0
	575-3-60	36.5	164.0	36.5	164.0	36.5	164.0	40.4	176.0	40.4	176.0	57.1	276.0	57.1	276.0
	380-3-60	45.5	247.0	45.5	247.0	45.5	247.0	52.6	280.0	52.6	280.0	78.8	382.0	78.8	382.0
	380/415-3-50	43.6	223.0	43.6	223.0	65.4	345.0	65.4	345.0	65.4	345.0	65.4	345.0	65.4	345.0
420B-PW	208/230-3-60	89.7	268.0	89.7	268.0	89.7	268.0	106.4	304.0	106.4	304.0	147.4	414.0	147.4	414.0
	460-3-60	44.9	134.0	44.9	134.0	44.9	134.0	48.7	162.0	48.7	162.0	67.9	207.0	67.9	207.0
	575-3-60	33.3	98.0	33.3	98.0	33.3	98.0	33.3	106.0	33.3	106.0	53.8	165.0	53.8	165.0
	380-3-60	44.9	148.0	44.9	148.0	44.9	148.0	53.8	168.0	53.8	168.0	79.5	230.0	79.5	230.0
	380/415-3-50	44.9	134.0	44.9	134.0	67.9	207.0	67.9	207.0	67.9	207.0	67.9	207.0	67.9	207.0

See legend and notes on page 47

Table 7 — Condenser Fan Data

UNIT SIZE 30GTN,GTR	NOMINAL VOLTAGE (V-Ph-Hz)	STANDARD CONDENSER FAN		HIGH STATIC CONDENSER FANS	
		Total (Quantity)	(Quantity) FLA (ea)	Total (Quantity)	FLA (ea)
040	208/230-3-60	4	(2) 6.7, (2) 5.5	4	14.6
	460-3-60		(2) 3.3, (2) 2.8		6.3
	575-3-60		(4) 3.4		5.2
	380-3-60		(4) 3.9		7.4
	380/415-3-50		(4) 3.5		7.3
045	208/230-3-60	4	(2) 6.7, (2) 5.5	4	14.6
	460-3-60		(2) 3.3, (2) 2.8		6.3
	575-3-60		(4) 3.4		5.2
	380-3-60		(4) 3.9		7.4
	380/415-3-50		(4) 3.5		7.3
050	208/230-3-60	4	(2) 6.7, (2) 5.5	4	14.6
	460-3-60		(2) 3.3, (2) 2.8		6.3
	575-3-60		(4) 3.4		5.2
	380-3-60		(4) 3.9		7.4
	380/415-3-50		(4) 3.5		7.3
060	208/230-3-60	6	(4) 6.7, (2) 5.5	6	14.6
	460-3-60		(4) 3.3, (2) 2.8		6.3
	575-3-60		(6) 3.4		5.2
	380-3-60		(6) 3.9		7.4
	380/415-3-50		(6) 3.5		7.3
070	208/230-3-60	6	(4) 6.7, (2) 5.5	6	14.6
	460-3-60		(4) 3.3, (2) 2.8		6.3
	575-3-60		(6) 3.4		5.2
	380-3-60		(6) 3.9		7.4
	380/415-3-50		(6) 3.5		7.3
080,090, 230B,245B	208/230-3-60	6	(4) 6.6, (2) 5.5	6	14.6
	460-3-60		(4) 3.3, (2) 2.8		6.3
	575-3-60		(6) 3.4		5.2
	380-3-60		(6) 3.9		7.4
	380/415-3-50		(6) 3.4		7.3
100,110, 255B,270B, 290B,315B	208/230-3-60	8	(6) 6.6, (2) 5.5	8	14.6
	460-3-60		(6) 3.3, (2) 2.8		6.3
	575-3-60		(8) 3.4		5.2
	380-3-60		(8) 3.9		7.4
	380/415-3-50		(8) 3.4		7.3
130-170 230A-270A, 330A/B, 360B (50 Hz)	208/230-3-60	10	(6) 6.6, (4) 5.5	10	14.6
	460-3-60		(6) 3.3, (4) 2.8		6.3
	575-3-60		(10) 3.4		5.2
	380-3-60		(10) 3.9		7.4
	380/415-3-50		(10) 3.4		7.3
190,210, 290A,315A, 360A/B (60 Hz), 360A (50 Hz), 390A/B,420A/B	208/230-3-60	12	(8) 6.6, (4) 5.5	12	14.6
	460-3-60		(8) 3.3, (4) 2.8		6.3
	575-3-60		(12) 3.4		5.2
	380-3-60		(12) 3.9		7.4
	380/415-3-50		(12) 3.4		7.3

See legend and notes on page 47.

Step 6 — Install Accessories

ELECTRICAL — A number of electrical accessories are available to provide the following optional features (for details, refer to the Controls, Start-Up, Operation, Service, and Troubleshooting book):

- Energy Management Module (used for any of the following types of temperature reset, demand limit and ice features):
 - 4 to 20 mA leaving fluid temperature reset (requires field-supplied 4 to 20 mA generator)
 - 4 to 20mA cooling set point reset (requires field-supplied 4 to 20 mA generator)
 - Discrete inputs for 2-step demand limit (requires field-supplied dry contacts)
 - 4 to 20 mA demand limit (requires field-supplied 4 to 20 mA generator)
 - Discrete input for Ice Done switch (requires field-supplied dry contacts)
- Chilled fluid flow switch/interlock
- Service option.
 - Provides hand-held, mobile capability display module with easy to read 4 line, Navigator display. Keypad function is the same as the standard display module. Features magnet for 'hands free' service of components.
 - Remote connection port includes cable and outlet for use of display module at most common service area.
 - Energy Management Module with features listed above.
 - GFCI (ground fault current interrupter) convenience outlet (60 Hz only).

LOW-AMBIENT OPERATION — If operating temperatures below 0° F (–18 C) are expected, refer to separate installation instructions for low-ambient operation, Motormaster® III control.

HOT GAS BYPASS — Hot gas bypass usually is *not* recommended because it results in application of equipment out of its normal design application range. However, if its use is required, the appropriate hot gas bypass package may be used. For installation details, refer to separate instructions supplied with the accessory package.

MISCELLANEOUS ACCESSORIES — For applications requiring special accessories, the following packages are available: condenser hail guard, gage panel, sound reduction kit, convenience outlet, and security grille package.

Step 7 — Refrigerant Circuit

LEAK TESTING — Units are shipped with complete operating charge of refrigerant R-22 (see Tables 2A-3B) and should be under sufficient pressure to conduct a leak test. If there is no pressure in the system, use standard refrigeration practices to search for the leak. Repair the leak using good refrigeration practices. After leaks are repaired, system must be evacuated and dehydrated prior to recharging with refrigerant.

DEHYDRATION — Refer to Carrier Standard Service Techniques Manual, Chapter 1, Refrigerants, Sections 6 and 7 for details. *Do not use compressor to evacuate system.*

REFRIGERANT CHARGE (Refer to Tables 2A-3B) — Immediately ahead of filter drier in each circuit is a factory-installed liquid line service valve. Each valve has a 1/4-in. Schrader connection for charging liquid refrigerant.



