



Product Data

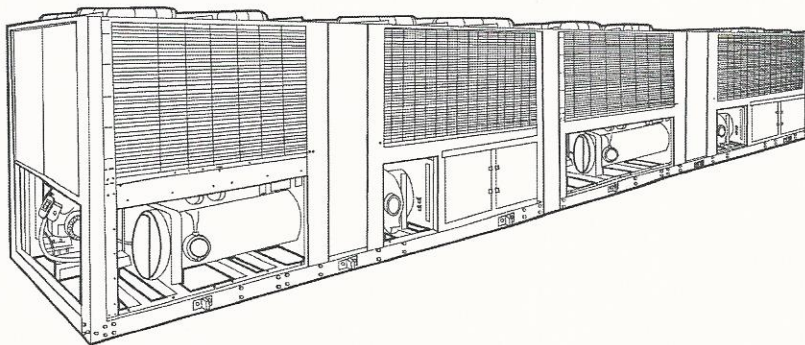
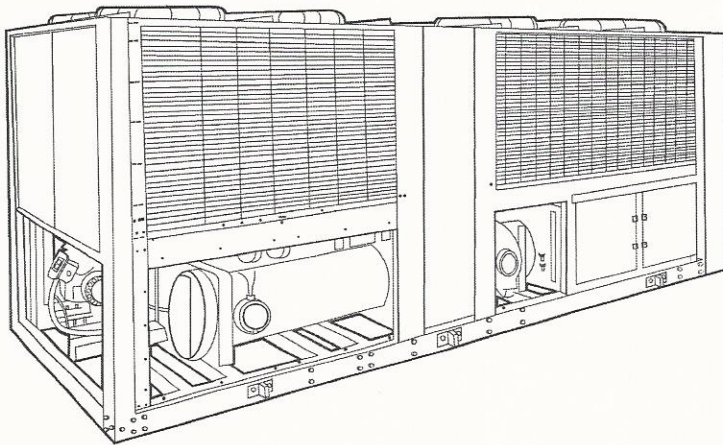
30GTN,GTR Air-Cooled Reciprocating Liquid Chillers with *ComfortLink*TM Controls 50/60 Hz

Nominal Capacities: 36 to 410 Tons
127 to 1445 kW

MR: 2001
150 TONS
460-3-60
R-22

*ComfortLink*TM

MODEL #: 30GTN150 -- E620KA
S/N: 1801F80835



Features/Benefits

ComfortLink control

Your link to a world of simple and easy to use air-cooled chillers that offer outstanding performance and value. The 30GTN,GTR liquid chillers employ more than the latest advanced micro-processor controls, they utilize an expandable platform that grows as your needs change. From stand-alone operation to remotely monitored and operated multi-chiller plants, *ComfortLink* controls can keep you plugged in.

ComfortLink controls are fully communicating, and are cable ready for connection to a Carrier Comfort Network (CCN). Occupancy scheduling, temperature and pressure read-outs, and the *ComfortLink* scrolling marquee clear language display compliment the standard features, linking you to a world of carefree comfort. The 30GTN,GTR chillers are built on the legendary performance of the Carrier model 30G FlotronicTM chiller and share many of the same time-proven features and technologies providing easy operation, quick installation and start-ups that save you money!

Superior temperature control equals potential for greater productivity

Whether in the classroom, on the production floor, or in the office, *ComfortLink* controls can help you to adapt to changing weather and business conditions. Accurate temperature control provided by the Carrier *ComfortLink* system helps to maintain higher levels of indoor air quality, thermal comfort, and productivity space.

While many air-cooled chillers use only leaving fluid temperature control, the 30GTN,GTR chillers utilize leaving fluid temperature control with a standard entering fluid temperature

Model number nomenclature



30GT N 150 - - E620 KA
 30GT N 130 - E C 9 2 3 --

30GT – Air-Cooled Liquid Chiller

Compressor Start

- N – Across-The-Line Start with *ComfortLink™* Controls
- R – Part-Wind Start with *ComfortLink* Controls

Unit Sizes*

040	070	110	190	255	330
045	080	130	210	270	360
050	090	150	230	290	390
060	100	170	245	315	420

Module Designation (230-420 Unit Sizes Only)*

- A
- B

Convenience Group Options

- - Standard Marquee Display
- E – Standard Marquee Display with Energy Management Option
- S – Service Option with Navigator Display (208/230,460,575v)
- V – Service Option with Navigator Display 380,380/415v)

Options

-- -- NOTE: Contact your Carrier representative for details on available factory-installed options.

Packaging

- 1 – Domestic
- 3 – Export

Not Used

V-Ph-Hz

- 1 – 575-3-60
- 2 – 380-3-60†
- 5 – 208/230-3-60
- 6 – 460-3-60
- 9 – 380/415-3-50†

Condenser Coil Options

- - Copper Tube, Aluminum Fins
- C – Copper Tube, Copper Fins
- E – Copper Tube, Aluminum E-Coated Fins
- F – Copper Tube, Copper E-Coated Fins
- K – Copper Tube, Pre-Coated Aluminum Fins

LEGEND

EXV — Electronic Expansion Valve

*Refer to Unit Sizes and Modular Combinations below.

†Export only — not for U.S. domestic sale.

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	410	210	210

*60-Hz units/50-Hz units.

Physical data (cont)



60 Hz ENGLISH (cont)

30GTR UNIT SIZE	130	150	170	190	210	230	Total
SYSTEM MODULES							
APPROX OPERATING WEIGHT (lb)							
Cu-Al	10,046	10,481	11,293	12,676	13,380	10,481	17,111
Cu-Cu	11,318	11,753	12,565	14,195	14,599	11,753	19,108
REFRIGERANT TYPE	R-22						
Charge, Total/Over Clear Glass (lb)	133/28	143/35	153/45	178/30	190/40	143/35	78/15
Ckt A	133/28	143/35	162/45	178/30	185/40	144/35	78/15
COMPRESSORS	Reciprocating, Semi-Hermetic						
Speed (rpm)	1750						
06E* (Qty) Ckt A	(1) 275, (1) 299	(3) 275	(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, (1) 299	(2) 299	—/—
Oil Charge (Compressor/pt)	11	14	17	250/14.0, 265/19.0, 275/19.0, 299/19.0	6	7	8
No. Capacity Control Steps	50	50	50	50	50	50	56
Capacity (%)	50	50	50	50	50	50	44
Ckt A	14	11	11	14	12	11	22
Ckt B							
Minimum Capacity Step (%)	Propeller, Direct Drive						
CONDENSER FANS							
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	10...1/0.746	16...1/0.746
No. Fans...Hp/kW (each)	100,000	100,000	100,000	120,000	120,000	100,000	157,000
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	10...5/3.73	10...5/3.73	12...5/3.73	12...5/3.73	10...5/3.73	16...5/3.73
No. Fans...Hp/kW (each)	100,000	100,000	100,000	120,000	120,000	100,000	160,000
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	225.1	225.1	268.9	268.9	225.1	353.4
Max Working Pressure Refrigerant (psig)	450	450	450	450	450	450	—
COOLER	One...Direct Expansion, Shell and Tube						
Weight (empty, lb)	1320	1320	1630	1630	1865	1320	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	52.0	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	6	—
Drain (NPT)				3/4			—

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

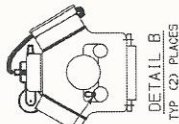
*06E250 compressors have 4 cylinders; all others have 6.
[†]Based on rated external static pressure of 0.4 or 1.0 in. wg as appropriate.

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

Base unit dimensions — 30GTN, GTR130-170



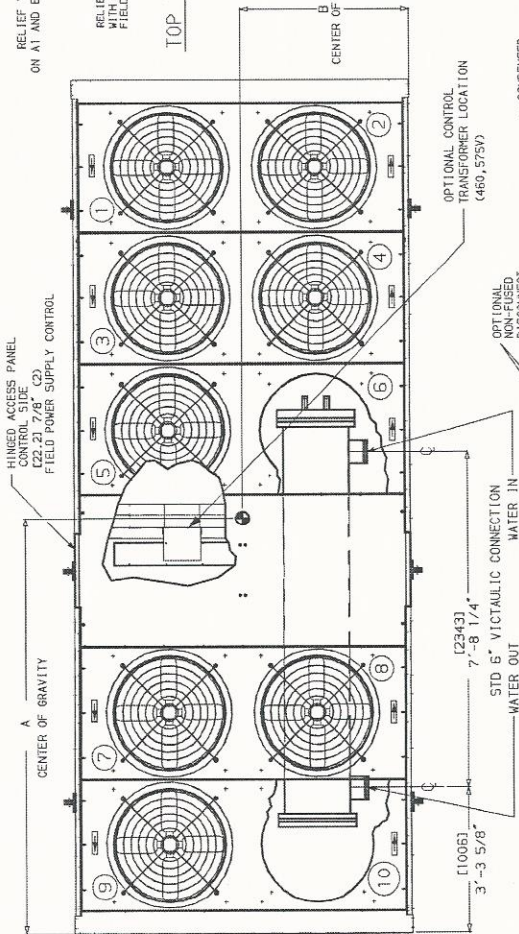
UNIT 30GTN, GTR	DIMENSIONS — ft.-in. [mm]			
	A	B	C	D
130	9-4 1/2 [2858]	4-1 1/8 [1267]	1-43/4 [425]	0-9 1/2 [242]
	9-4 [2849]	4-2 1/2 [1283]	1-43/4 [425]	0-9 1/2 [242]
170	9-4 1/2 [2865]	4-2 1/2 [1283]	1-5 5/8 [448]	0-8 5/8 [219]



RELIEF VALVE LOCATED ON A1 AND B1 COMPRESSORS

RELIEF VALVES ARE EQUIPPED WITH A 90° FLARE FOR FIELD CONNECTION

TOP VIEW



NOTES:

- Dimensions in [] are in mm.
- 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
- Mounting holes may be used to mount unit to concrete pad. They are not recommended for spring isolator location.
- If spring isolators are used, a perimeter support channel between the unit and the isolators is recommended.
- 30GTN, GTR150 is also Module A for 30GTN, GTR230, 245, 255.
30GTN, GTR170 is also Module B for 30GTN, GTR330, 360 — 50 Hz.

