

# Central Chiller 30RC Series

## Air-Cooled Central Chiller

### Benefits:

- **Refrigerant:** EPA approved low GWP R-454B refrigerant.
- **Scroll Compressors:** Hermetically sealed scroll compressors with proven performance in industrial cooling for reliable, low maintenance, and efficient operation.
- **Color Touch Screen Display:** Microprocessor control system for optimal performance and diagnostics.
- **Stainless Steel Evaporator:** High efficiency stainless steel plates with copper brazing provide maximum performance, long life, and an enhanced level of protection from harsh process conditions.
- **Durable Construction:** Corrosion resistant materials designed for outdoor installation.
- **Quiet Operation:** Low sound levels for installation in areas requiring low noise levels.
- **Wide Ambient Operating Range:** Delivers reliable cooling performance in both extreme hot and cold weather from approximately -20° to 125°F (-29° to 52°C).
- **Modular Design:** Allows for easy expansion by adding additional units as cooling needs grow, without requiring a complete system overhaul.
- **Warranty:** 1 year parts.



30RC Series Air-Cooled Central Chillers come in an all-in-one package and are easy to install, operate and maintain. Available in a capacity range from 130 to 260 tons (457 to 914 kW), using EPA approved low GWP R-454B refrigerant. The 30RC Series features robust scroll compressors, durable construction designed for outdoor installations, and a microprocessor control system for precise operation and

diagnostics. Its modular design allows for flexible installation and scalability, while its low sound levels make it ideal for noise-sensitive environments. The chiller's efficient performance and ease of maintenance make it a popular choice for various cooling needs.

## Benefits of the 30RC Series Industrial Chiller Features:

### HIGH EFFICIENCY STAINLESS STEEL EVAPORATOR PLATES WITH COPPER BRAZING

Provides maximum performance, long life and enhanced protection from harsh process conditions.



### MODULAR DESIGN

Easily expand your system by adding additional units as your cooling needs grow, without requiring a system overhaul.

### A SMALL FOOTPRINT

Perfect for applications with restricted space requirements.

### HERMETICALLY-SEALED DIRECT-DRIVE SCROLL COMPRESSOR

Provide smooth, quiet operation, with high reliability. The sealed housing prevents refrigerant leaks and protects internal components from dust and moisture.

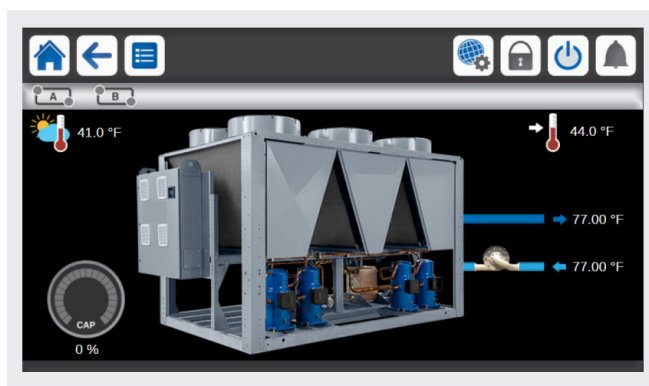
## Additional Benefits:

- **Small Footprint:** Compact unit design for applications with restricted space requirements.
- **Energy Efficiency:** Designed to meet or exceed industry efficiency standards.
- **Ease of Maintenance:** Accessible components for simplified service.

## Available Options:

- Non-fused disconnect
- Variable speed drive (VSD)
- High efficiency coils

## 30RC Series Touch Screen

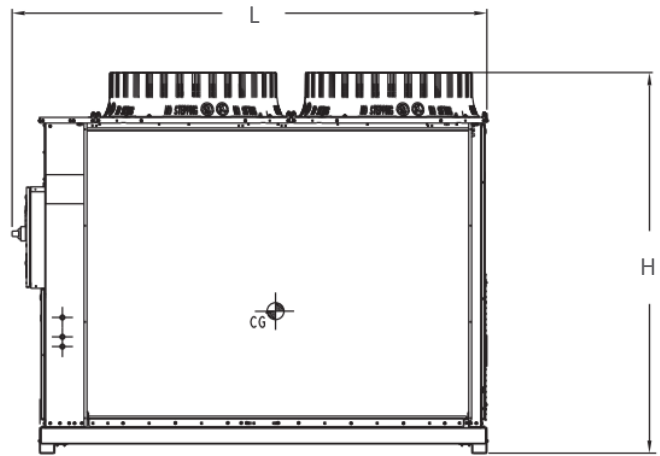
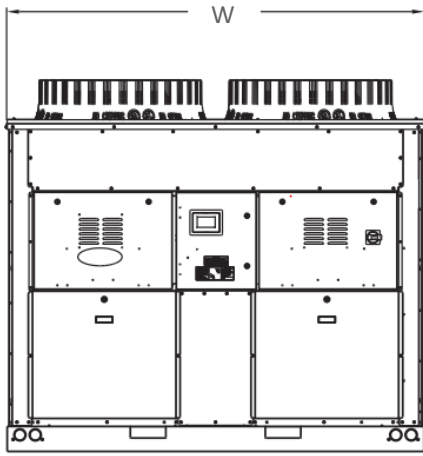


## Technical Data

Model <sup>1</sup>	Cooling Capacity Tons (kW) <sup>2</sup>	Process In & Out Size (Inch)	Compressor Qty	Min Unloaded Capacity	Dimensions L x W x H inch (mm)	Shipping Weight lbs (kg)
30RC-132C	133 (468)	5	6	15%	152 x 88 x 99 (3,861 x 2,235 x 2,515)	5,562 (2,523)
30RC-132	136 (478)	5	6	15%	199 x 88 x 99 (5,055 x 2,235 x 2,515)	6,331 (2,872)
30RC-152C	154 (542)	5	5	17%	152 x 88 x 99 (3,861 x 2,235 x 2,515)	5,662 (2,568)
30RC-152	156 (549)	5	5	17%	199 x 88 x 99 (5,055 x 2,235 x 2,515)	6,435 (2,919)
30RC-162C	163 (573)	5	4	25%	199 x 88 x 99 (5,055 x 2,235 x 2,515)	6,486 (2,942)
30RC-162	166 (584)	5	4	25%	247 x 88 x 99 (6,274 x 2,235 x 2,515)	7,300 (3,311)
30RC-182C	183 (644)	5	5	20%	247 x 88 x 99 (6,274 x 2,235 x 2,515)	7,804 (3,540)
30RC-182	187 (657)	5	5	20%	294 x 88 x 99 (7,468 x 2,235 x 2,515)	8,545 (3,876)
30RC-202C	203 (714)	5	5	20%	247 x 88 x 99 (6,274 x 2,235 x 2,515)	7,945 (3,604)
30RC-202	207 (728)	5	5	20%	294 x 88 x 99 (7,468 x 2,235 x 2,515)	8,686 (3,940)
30RC-232C	233 (819)	5	6	17%	294 x 88 x 99 (7,468 x 2,235 x 2,515)	9,101 (4,128)
30RC-232	238 (837)	5	6	17%	341 x 88 x 99 (8,661 x 2,235 x 2,515)	9,890 (4,486)
30RC-252C	253 (890)	5	6	17%	294 x 88 x 99 (7,468 x 2,235 x 2,515)	9,101 (4,128)
30RC-252	258 (907)	5	6	17%	341 x 88 x 99 (8,661 x 2,235 x 2,515)	9,890 (4,486)

<sup>1</sup>All chillers have one process fluid circuit and two refrigeration circuits.

<sup>2</sup>Tons based upon 50°F (10°C) leaving water, 95°F (35°C) ambient air entering the condenser, R-454B refrigerant, operating at sea level.



### Electrical Data

Model	Rated Voltage <sup>1</sup> FLA @ 208/3/60		Rated Voltage <sup>1</sup> FLA @ 230/3/60		Rated Voltage <sup>1</sup> FLA @ 460/3/60		Rated Voltage <sup>1</sup> FLA @ 575/3/60	
	MCA <sup>2</sup>	MOP <sup>3</sup>	MCA <sup>2</sup>	MOP <sup>3</sup>	MCA <sup>2</sup>	MOP <sup>3</sup>	MCA <sup>2</sup>	MOP <sup>3</sup>
30RC-132C	524.4	600	524.4	600	238.6	250	190.5	200
30RC-132	536.4	600	536.4	600	243.8	250	194.7	200
30RC-152C	608.4	700	608.4	700	276.4	300	220.7	250
30RC-152	619.4	700	619.4	700	281.6	300	224.9	250
30RC-162C	630.4	700	630.4	700	318.2	350	255.5	300
30RC-162	641.4	700	641.4	700	323.4	350	259.7	300
30RC-182C	802.2	1,000	802.2	1,000	366.1	400	293.9	300
30RC-182	813.2	1,000	813.2	1,000	371.3	400	298.1	300
30RC-202C	778.4	800	778.4	800	392.4	450	314.9	350
30RC-202	789.4	800	789.4	800	397.6	450	319.1	350
30RC-232C	954.7	1,000	954.7	1,000	435.3	450	349.3	350
30RC-232	965.7	1,000	965.7	1,000	440.5	500	353.5	400
30RC-252C	926.4	1,000	926.4	1,000	466.6	500	374.3	400
30RC-252	937.4	1,000	937.4	1,000	471.8	500	378.5	400

<sup>1</sup>Allowable voltage is ± 10% from rated voltage.

<sup>2</sup>MCA is Minimum Circuit Amps, used for minimum wire size requirement.

<sup>3</sup>MOP is Maximum Overcurrent Protection, used for sizing main power protection device.



**Thermal Care is ISO 9001 Certified**  
 Manufacturer reserves the right to change specification  
 or design without notification or obligation.

