



เครื่องปรับอากาศ “แคเรียร์”



# Air Cooled Water Chiller

*Model 30GTC Series*

Nominal: 9-45 Tons





# Air Cooled Water Chiller

30GTC Series



## Features

- Single refrigerant circuit for maximum safety and part loaded operation
- Completed with control panel, unit operation at low different pressure
- Equipped with reliable Carrier Semi-Hermetic reciprocating compressor
- Manufactured in factory with ISO9002 Certified
- Completed with replaceable core filter drier, indicated sight glass, shut-off valve, thermal expansion valve and solenoid valve
- Intergrated flow switch, freezestat and temperature sensor
- ARI standard

## Benefits

- **Compact and energy efficient**
- **Designed for commercial and industrial applications**
- **Easily for installation**
- **Conveniently located power supply and water inlet/outlet**

## Physical Data

Description		Air Cooled Water Chiller							
Chiller Mate Model		30GTC009	30GTC012	30GTC015	30GTC020	30GTC025	30GTC030	30GTC040	30GTC045
Nominal Capacity	Kw.	32.00	42.45	52.90	72.01	87.97	106.98	141.75	158.45
	Tons	9.10	12.05	15.04	20.47	25.00	30.41	40.30	45.05
Cooler	Type	Shell and Tube DX Cooler							
	GPM	23.52	30.01	35.89	48.45	60.72	79.99	98.40	120.50
	Inlet/Outlet (in.)	2/2	2/2	2/2	2/2	2 1/2	2 1/2	3	3
	PD ( FT.WG )	2.8	3.6	4.7	5.7	4.4	6.0	5.7	4.4
Air Cooled Condensing Model		38AE010	38AE015	38AE020	38AE025	38AE030	38AE040	38AE050	38AE060
Compressor Model	Type	Reciprocating Semi-Hermetic							
	Model	06D328	06D537	06E250	06E266	06E275	06E299	2...06E266	2...06E275
Condenser	No. Fan	2	2	2	2	2	2	3	3
	Fan Motor	220V/1Ph/50Hz...1/2HP		220V/1Ph/50Hz...1HP		380V/3Ph/50Hz...2HP			
	CFM	7,400	7,400	20,000	21,200	23,200	23,200	33,000	33,000
Shipping Weight (Combine Unit)	KGS	630	650	820	910	1,050	1,110	1,500	1,750
Factory Precharge R-22	LBS	22	23	28	30	43	65	60	85

Remark: Rating at

1. Ambient Temperature 95° F
2. Leaving Chilled Water Temperature 45° F

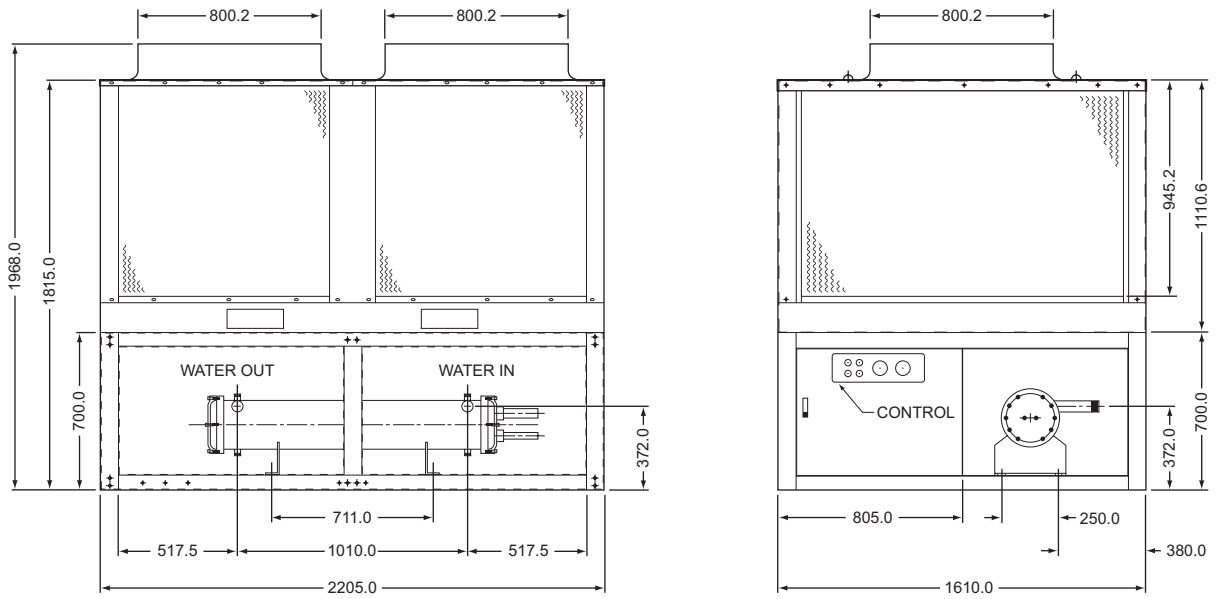
## Electrical Data

Unit Model	Nominal Voltage	Voltage Range		Compressor		Fan Motor		Power Supply	
		MIN	MAX	RLA	LRA	QTY	RLA(ea)	MCA	MOCP
30GTC009	380V/3Ph/50Hz	342	415	22.1	114	2	7.6(3.8)	31	50
30GTC012	380V/3Ph/50Hz	342	415	28.6	120	2	7.6(3.8)	40	70
30GTC015	380V/3Ph/50Hz	342	415	44.0	104/173	2	8.0(4.0)	54	90
30GTC020	380V/3Ph/50Hz	342	415	56.0	134/223	2	4.8(2.4)	70	110
30GTC025	380V/3Ph/50Hz	342	415	68.0	152/253	2	4.8(2.4)	84	125
30GTC030	380V/3Ph/50Hz	342	415	95.0	175/345	2	4.8(2.4)	118	175
30GTC040	380V/3Ph/50Hz	342	415	2...56.0	2...134/223	3	7.2(2.4)	140	200
30GTC045	380V/3Ph/50Hz	342	415	2...68.0	2...152/253	3	7.2(2.4)	143	250

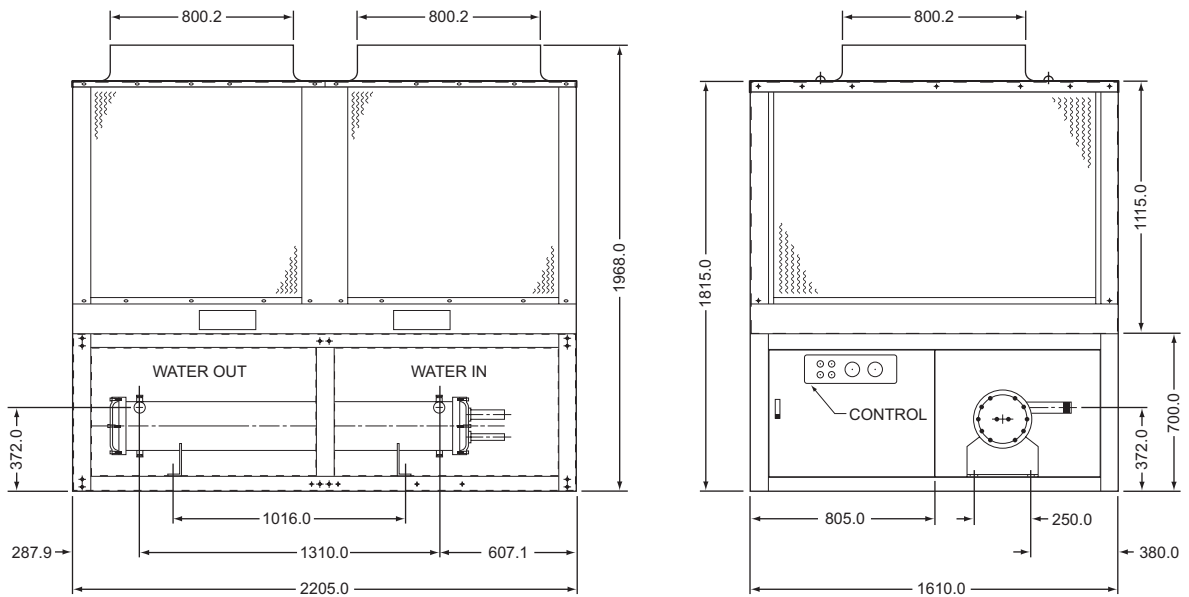
RLA : RATED LOAD AMPS.      MCA : MINIMUM CIRCUIT AMPS.  
 LRA : LOCKED ROTOR AMPS.    MOCP : MAXIMUM OVER CURRENT PROTECTION



# Unit dimensions

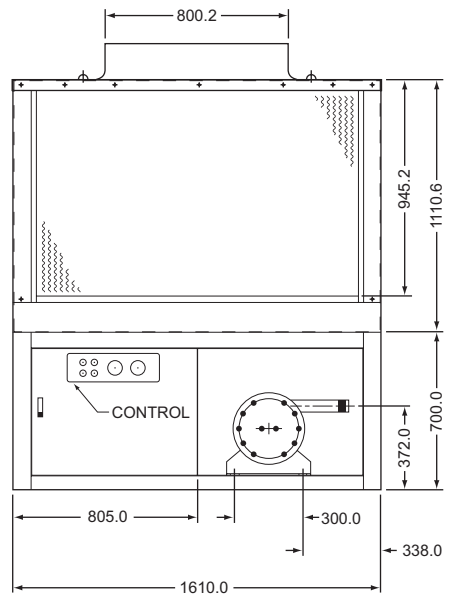
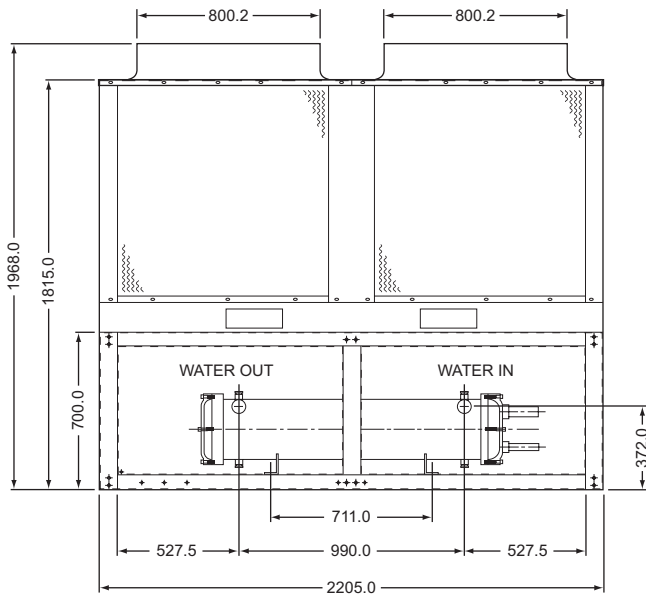


Model : 30GTC015

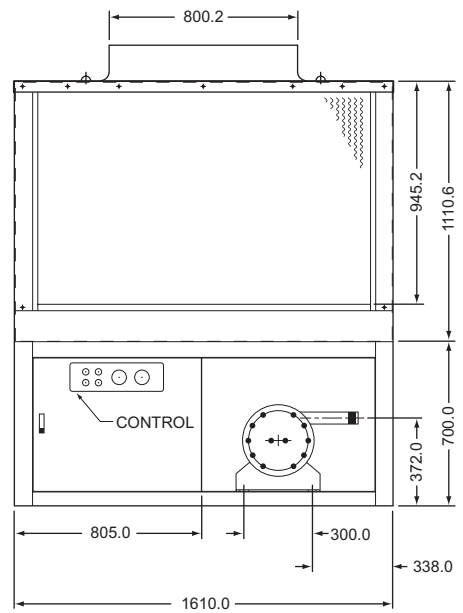
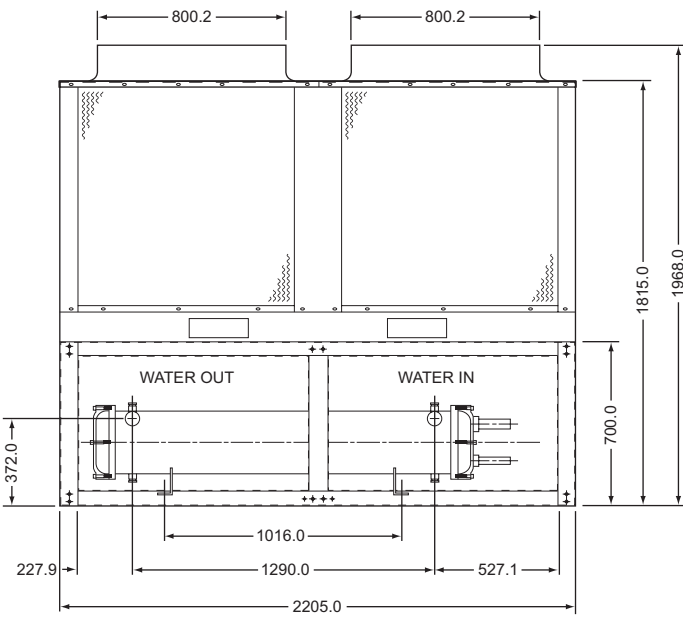


Model : 30GTC020

# Unit dimensions

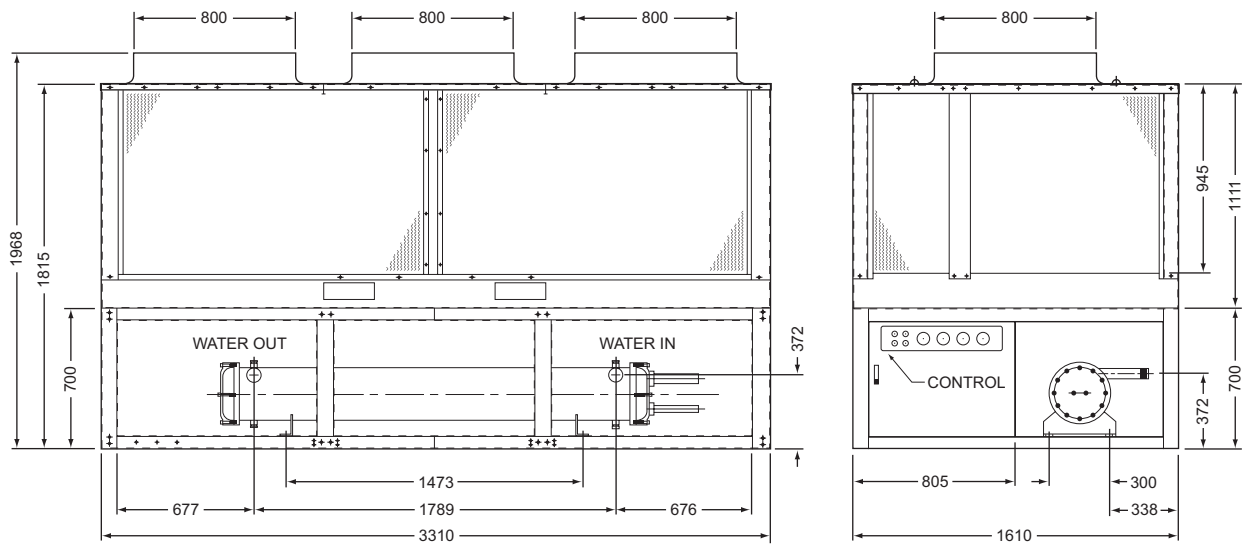


Model : 30GTC025

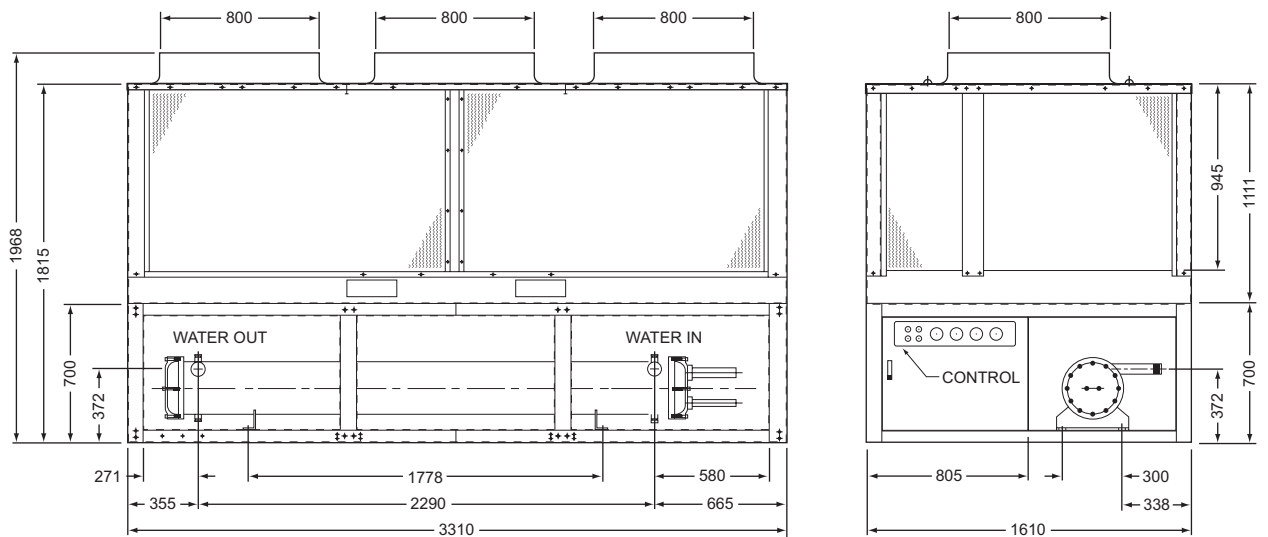


Model : 30GTC030

# Unit dimensions



Model : 30GTC040



Model : 30GTC045

# Metric conversion chart

Metric Tech	x	=	English Unit	x	=	SI Unit
<b>Area</b>						
cm <sup>2</sup>				100		mm <sup>2</sup>
cm <sup>2</sup>	0.1550		in. <sup>2</sup>	645.2		mm <sup>2</sup>
m <sup>2</sup>				1.0		m <sup>2</sup>
m <sup>2</sup>	10.76		ft <sup>2</sup>	0.09290		m <sup>2</sup>
<b>Length</b>						
μm				1.0		μm
μm	39.37		micro-inch	0.0254		μm
mm				1.0		mm
mm	0.03937		in.	25.4		mm
mm	0.003281		ft	304.8		mm
m				1.0		m
m	3.281		ft	0.3048		m
m	1.094		yd	0.9144		m
<b>Mass</b>						
g				1.0		g
g	0.03527		oz	28.35		g
kg				1.0		kg
kg	2.205		lb	0.4536		kg
tonne, Mg				1.0		tonne, Mg
tonne, Mg	1.102		U.S. ton (2000 lb)	0.9072		tonne, Mg
<b>Power</b>						
kcal/h				1.163		W
kcal/h	3.968		Btu/h	0.2931		W
Hp metric				0.7355		kW
Hp metric	0.9863		HP (550 $\frac{ft \cdot lb}{S}$ )	0.7457		kW
Mcal/h				1.163		kW
Mcal/h	0.3307		Ton refr.	3.517		kW
<b>Pressure</b>						
mm w.g. 4°C				9.806		Pa
mm w.g. 4°C	0.03937		in H <sub>2</sub> O 39.2°F	249.1		Pa
mm Hg 0°C				0.1333		kPa
mm Hg 0°C	0.03937		in Hg 32°F	3.386		kPa
kgf/cm <sup>2</sup>				98.07		kPa
kgf/cm <sup>2</sup>	14.22		psi	6.895		kPa
mH <sub>2</sub> O	3.281		ft H <sub>2</sub> O	2.989		kPa

Metric Tech	x	=	English Unit	x	=	SI Unit
<b>Temperature</b>						
<b>Interval</b>						
°C				1.0		K
°C	1.8		°F	0.5556		°C
<b>Velocity</b>						
m/s				1.0		m/s
m/s	3.281		ft/s	0.3048		m/s
m/s	196.9		ft/min	0.00508		m/s
<b>Volume</b>						
mm <sup>3</sup>				1.0 x 10 <sup>-6</sup>		L
mm <sup>3</sup>	6.102 x 10 <sup>-5</sup>		in. <sup>3</sup>	0.01639		L
L				1.0		L
L	0.03531		ft <sup>3</sup>	28.32		L
m <sup>3</sup>				1.0		m <sup>3</sup>
m <sup>3</sup>	1.308		yd <sup>3</sup>	0.7646		m <sup>3</sup>
L	0.2642		U.S. gal	3.785		L
L	2.113		U.S. pint	0.4732		L
mL, cm <sup>3</sup>				1.0		mL
mL, cm <sup>3</sup>	0.03381		U.S. oz	29.57		mL
<b>Volume/Time</b>						
m <sup>3</sup> /h				0.2778		L/s
m <sup>3</sup> /h	0.5886		ft <sup>3</sup> /min	0.4719		L/s
m <sup>3</sup> /h	4.403		U.S. gal/min	0.06309		L/s
L/h				2.778 x 10 <sup>-4</sup>		L/s
L/h	4.403 x 10 <sup>-3</sup>		U.S. gal/min	0.06309		L/s
(m <sup>3</sup> /h)/ (1000 kcal/h)	1.780		cfm/ton	0.1342		L/s kw

Metric Tech	Conversion Factor	=	English Unit	Conversion Factor	=	SI Unit
<b>Temperature</b>						
°C				°C + 273.15		K
°C	(°C x 1.8) + 32		°F	(°F - 32) ÷ 1.8		°C

**Prefixes**

M	MEGA	- 10 <sup>6</sup>
k	KILO	- 10 <sup>3</sup>
d	DECI	- 10 <sup>-1</sup>
c	CENTI	- 10 <sup>-2</sup>
m	MILLI	- 10 <sup>-3</sup>
μ	MICRO	- 10 <sup>-6</sup>

**Legend**

m	METER	K	KELVIN
cal	CALORIE	W	WATT
kg	KILOGRAM (mass)	Pa	PASCAL
kgf	KILOGRAM - FORCE	J	JOULE
L	LITER	N	NEWTON
°C	DEGRESS CELSIUS	h	HOUR

**Units**

cP	CENTIPOISE	mm Hg	MILLIMETERS MERCURY
cSt	CENTISTOKE	tonne	= 1000 kg
HP metric	= (PS, CV, ch) METRIC HORSEPOWER	kcal	= fg FRIGORIE
mm w.g.	MILLIMETERS WATER GAUGE	bar	= 100 kPa

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