FORM 150.67-EG1 (713)

YORK®

BY JOHNSON CONTROLS

Year: 2015
Size: 52 Tons

Model #: YCAL0052EE17
Serial #: 11531A53381068

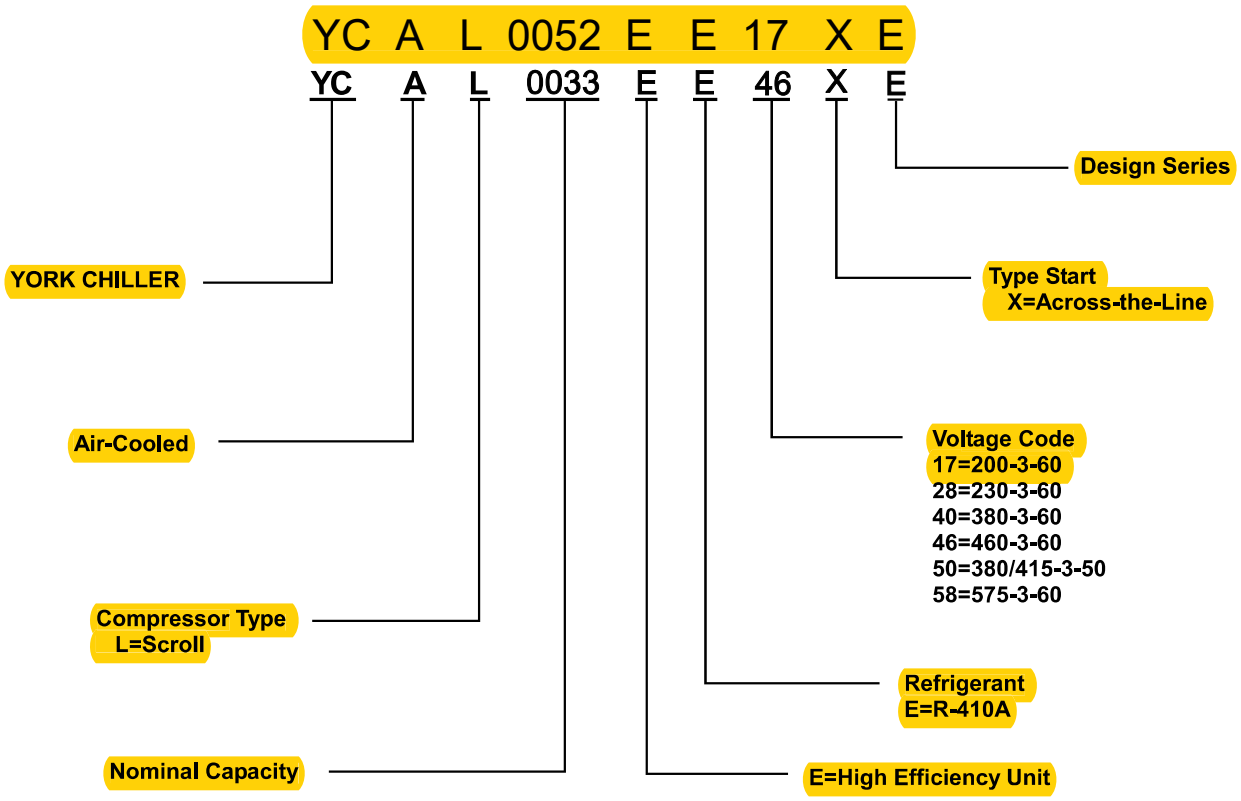
L: 12' 1"
W: 7' 7"
H: 5' 3"

Shipping Weight: 3,170 lbs
Operating Weight: 3,233 lbs

Model YCAL Air-Cooled Scroll Compressor Liquid Chillers
Style E

50 and 60Hz
15 – 65 TON
53 – 218 kW
R-410A

Unit Nomenclature



Design Parameters

ENGLISH						
YCAL	LEAVING WATER TEMPERATURE (°F)		COOLER FLOW (GPM)		AIR ON CONDENSER (°F)	
	MIN	MAX	MIN	MAX	MIN	MAX
0019EE	40	55	10	150	0	125
0022EE	40	55	10	150	0	125
0028EE	40	55	10	150	0	125
0033EE	40	55	10	150	0	125
0043EE	40	55	40	200	0	125
0046EE	40	55	40	200	0	125
0052EE	40	55	60	300	0	125
0056EE	40	55	60	300	0	125
0066EE	40	55	60	300	0	125

SI UNITS						
YCAL	LEAVING WATER TEMPERATURE (°C)		COOLER FLOW (L/S)		AIR ON CONDENSER (°C)	
	MIN	MAX	MIN	MAX	MIN	MAX
0019EE	4.4	12.8	0.6	9.5	-17.7	51.7
0022EE	4.4	12.8	0.6	9.5	-17.7	51.7
0028EE	4.4	12.8	0.6	9.5	-17.7	51.7
0033EE	4.4	12.8	0.6	9.5	-17.7	51.7
0043EE	4.4	12.8	2.5	12.6	-17.7	51.7
0046EE	4.4	12.8	2.5	12.6	-17.7	51.7
0052EE	4.4	12.8	3.8	18.9	-17.7	51.7
0056EE	4.4	12.8	3.8	18.9	-17.7	51.7
0066EE	4.4	12.8	3.8	18.9	-17.7	51.7

NOTES:

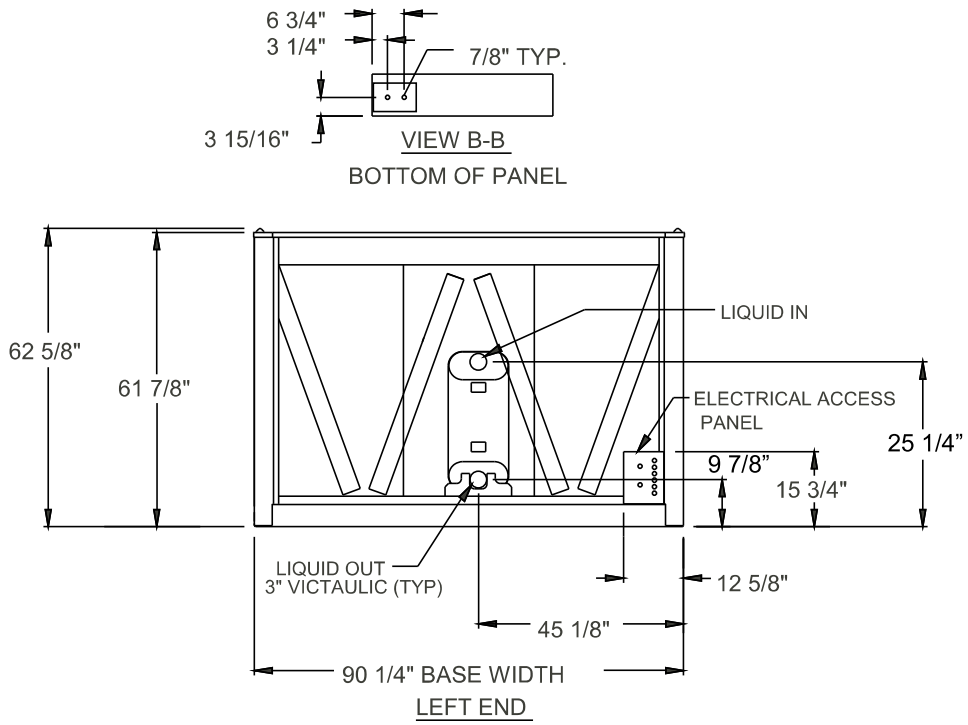
1. For leaving brine temperature below 40°F (4.4°C), contact your nearest Johnson Controls Office for application requirements.
2. For leaving water temperature higher than 55°F (12.8°C), contact the nearest Johnson Controls Office for application guidelines.
3. The evaporator is protected against freezing to -20°F (-28.8°C) with an electric heater as standard.
4. For operation at temperatures below 25°F (-3.9°C), the optional Low Ambient Kit will need to be installed on the system (for YCAL0043-0065 models only).
5. For operation at temperatures above 115°F (46.1°C), the optional High Ambient Kit will need to be installed on the system.

Physical Data - English & SI

60Hz

Model YCAL00			19	22	28	33	43	46	52	56	66
Length			109.8	109.8	118.6	118.6	144.8	144.8	148.8	148.8	153.6
Width			44.7	44.7	44.7	44.7	90.6	90.6	90.6	90.6	90.6
Height			46.1	46.1	50	50	47.8	47.8	62.6	62.6	62.6
Nominal Tons			14.5	17.8	24.3	28	34.9	38	45.2	45.2	60.1
Number of Refrigerant Circuits			1	1	1	1	2	2	2	2	2
Refrig. Chg, Opt, R-410A (lbs) ckt1/ckt2			25	30	45	50	35/35	40/35	45/45	50/50	65/65
Oil Charge, gallons ckt1/ckt2			1.8	1.8	1.7	2.2	1.8/1.8	1.8/1.8	1.7/1.7	1.7/1.7	2.3/2.2
Shipping Weight	Alum. Fin Coils, lbs		1454	1567	1799	2034	2942	2968	3196	3208	4097
	Copper Fin Coils, lbs		1597	1781	2005	2240	3300	3326	3673	3685	4703
Operating Weight	Alum. Fin Coils, lbs		1481	1597	1829	2077	2967	3001	3233	3245	4142
	Copper Fin Coils, lbs		1624	1811	2035	2283	3325	3359	3710	3722	4748
Nominal Comp. Capacity	Comp. 1		8	10	15	15	10	12	13	15	20
	Comp. 2		8	10	13	15	10	12	13	15	20
	Comp. 3		–	–	–	–	–	–	–	–	–
	Comp. 4		–	–	–	–	10	10	13	15	15
	Comp. 5		–	–	–	–	10	10	13	15	15
	Comp. 6		–	–	–	–	–	–	–	–	–
Condenser	Total Face Area ft²		34.7	34.7	43.5	43.5	87	87	116	116	128
	Number of Rows Deep	Ckt. 1	2	3	3	3	2	2	3	3	3
		Ckt. 2	–	–	–	–	2	2	3	3	3
	Fins per Inch		17	17	13	13	17	17	17	17	13
Condenser Fans, Low Sound	Number of Fans	Ckt. 1	2	2	2	2	2	2	2	2	2
		Ckt. 2	–	–	–	–	2	2	2	2	2
	Fan Power hp/fan		0.3	0.3	1.2	1.2	1.2	1.2	1.2	1.2	1.2
	Fan RPM		920	920	950	950	950	950	950	950	950
	Total Chiller CFM		10833	10833	20000	20000	39500	39500	43333	43333	43333
Condenser Fans, Ultra Quiet	Number of Fans	Ckt. 1	2	2	2	2	2	2	2	2	2
		Ckt. 2	–	–	–	–	2	2	2	2	2
	Fan Power hp/fan		1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
	Fan RPM		698	698	698	698	698	698	698	698	698
	Total Chiller CFM		20000	20000	20000	20000	39500	39500	43333	43333	43333
Evaporator	Water Volume Gallons		1.2	1.6	2.5	3.2	2.7	3.5	3.5	4.1	4.9
	Max Water Side Pressure PSIG		300	300	300	300	300	300	300	300	300
	Max Refrig Side Pressure PSIG		450	450	450	450	450	450	450	450	450
	Min. Chiller Water Flow GPM		10	10	10	10	40	40	60	60	60
	Max. Chiller Water Flow GPM		150	150	150	150	200	200	300	300	300
	Nom. Water Connections Size Inches		2	2	2	2	3	3	3	3	3

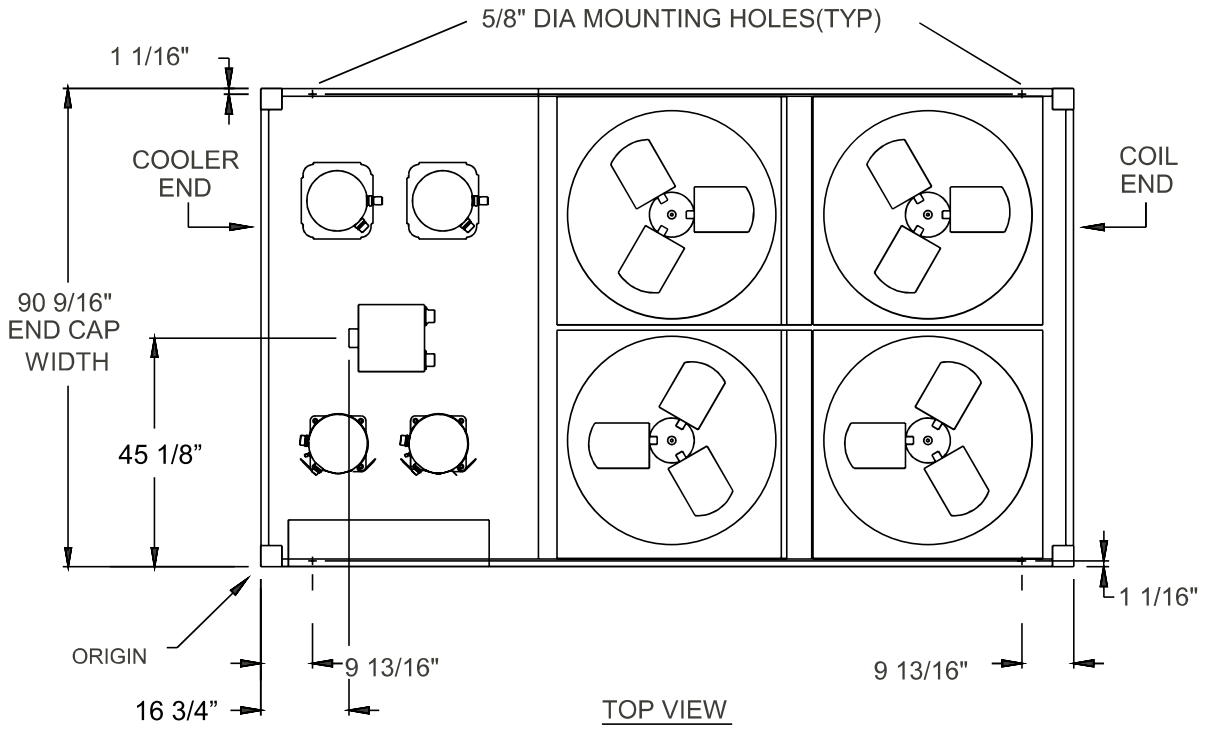
Dimensions - YCAL0056 (English)



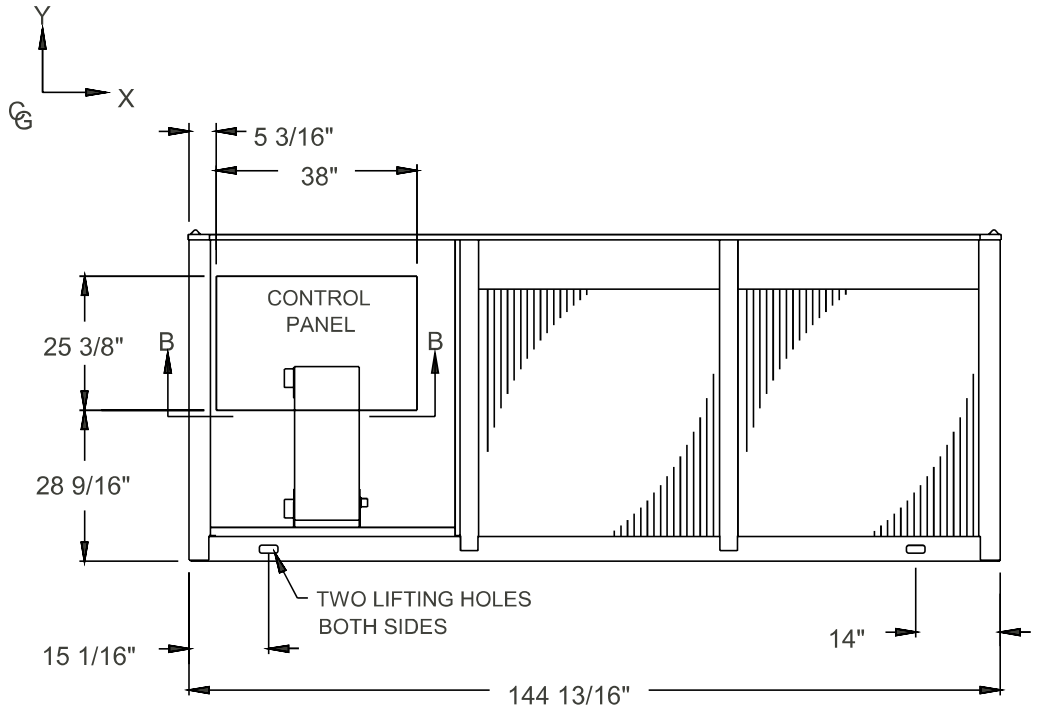
POWER: SINGLE POINT SUPPLY WITH TERMINAL BLOCK

NOTE:

Placement on a level surface of free of obstructions (including snow, for winter operation) or air circulation ensures rated performance, reliable operation, and ease of maintenance. Site restrictions may compromise minimum clearances indicated below, resulting in unpredictable airflow patterns and possible diminished performance. YORK's unit controls will optimize operation without nuisance high-pressure safety cutouts; however, the system designer must consider potential performance degradation. Recommended minimum clearances: front to wall – 6'; rear to wall – 6'; cooler end to wall – 4'0"; coil end to wall - 6'; top – no obstructions allowed; distance between adjacent units – 10'. No more than one adjacent wall may be higher than the unit. 1" nominal deflection isolators (not shown) will increase overall unit height by 6".



TOP VIEW



FRONT VIEW