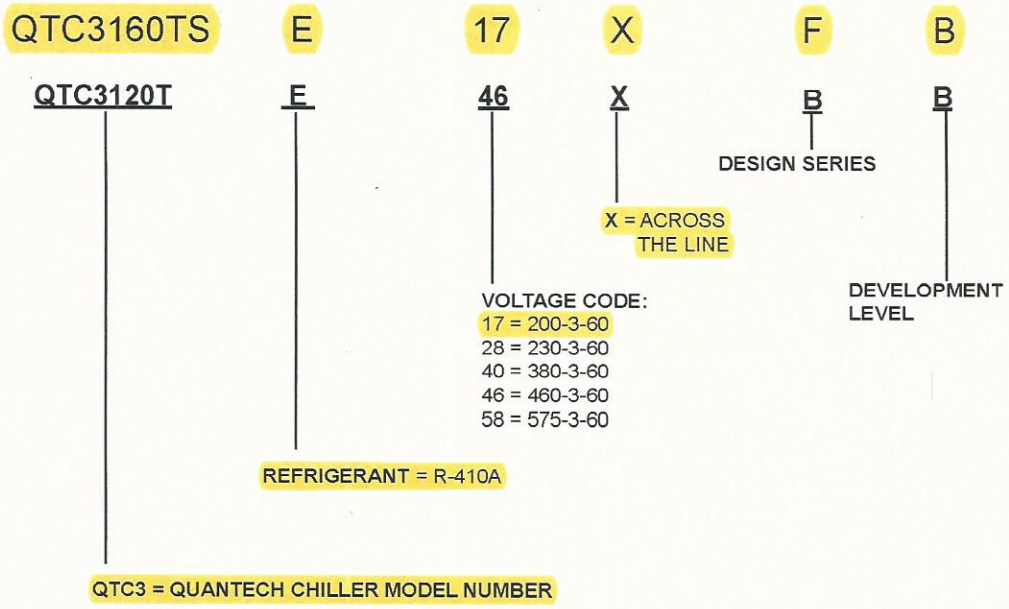
Nomenclature



Approvals

- ASME Boiler and Pressure Vessel Code – Section VIII Division 1.
- AHRI Standard 550/590.
- UL 1995 – Heating and Cooling Equipment
- ASHRAE 15 – Safety Code for Mechanical Refrigeration
- ASHRAE Guideline 3 – Reducing Emission of Halogenated Refrigerants in Refrigeration and Air-Conditioning Equipment and Systems
- N.E.C. – National Electrical Code
- OSHA – Occupational Safety and Health Act

AHRI CERTIFIED® www.ahridirectory.org Air-Cooled Chillers AHRI Standard 550/590

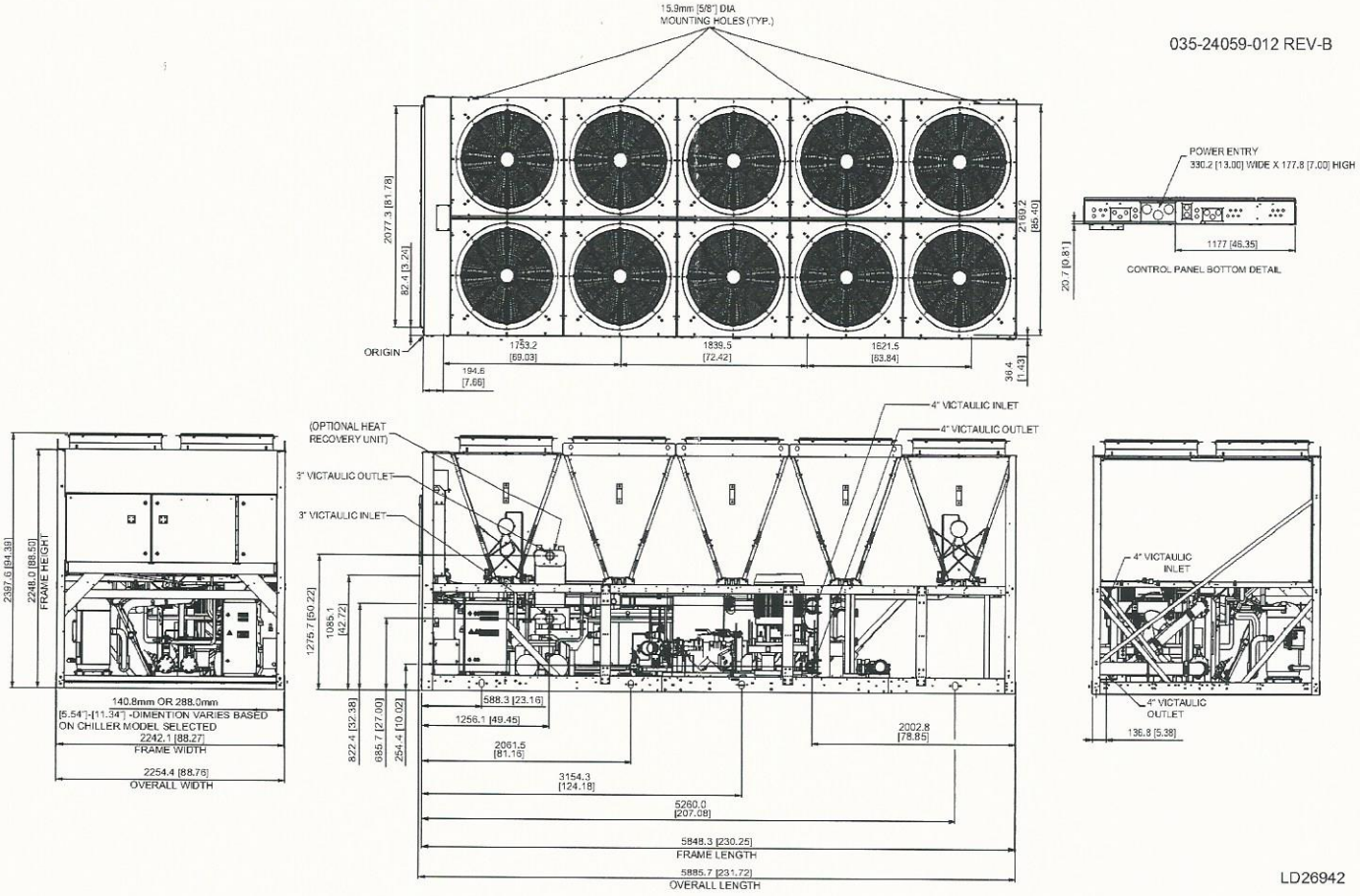
INTERTEK ETL LISTED C US

ISO 9001 Registered

Products are produced at a facility whose quality-management systems are ISO9001 certified.

Unit Dimensions (Cont'd)

QTC3160TSE, QTC3150THE, QTC3170THE



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. The unit controls will optimize operation without nuisance high-pressure safety cut-outs; however, the system designer must consider potential performance degradation. Access to the unit control center assumes the unit is no higher than on spring isolators. Recommended minimum clearances: Side to wall – 6'; rear to wall – 6'; control panel to end wall – 4'0"; top – no obstructions allowed; distance between adjacent units – 10'. No more than one adjacent wall may be higher than the unit.

Physical Data and Nominal Ratings

REFRIGERANT R-410A	QTC3 STANDARD EFFICIENCY UNITS							
	070TSE	075TSE	085TSE	095TSE	110TSE	125TSE	140TSE	160TSE
NOMINAL RATINGS								
TONS	**70.8**	**77.6**	**81.6**	**95.3**	**115.7**	**125.7**	**142.6**	**166.7**
KW	77.5	86.3	93.0	111.5	134.6	142.6	165.0	192.1
EER	10.4	10.0	9.8	9.7	9.8	9.7	9.7	9.7
IPLV	16.1	15.6	15.8	14.5	15.0	15.8	15.8	15.6
GENERAL UNIT DATA								
Length, Inches	116.1	116.1	116.1	142.7	142.7	187.7	187.7	232.7
Width, Inches	88	88	88	88	88	88	88	88
Height, Inches	94.2	94.2	94.2	94.2	94	94.2	94.2	94.2
Number of Refrigerant Circuits	2	2	2	2	2	2	2	2
REFRIGERANT CHARGE, OPERATING								
R-410A, Circuit -1/Circuit -2, lbs	43/43	47/44	57/57	55/58	54/62	75/71	75/70	90/87
Oil Charge, Circuit -1/Circuit -2, gallons	2.58/2.58	3.28/2.58	3.28/2.76	3.28/3.33	3.33/3.33	4.99/2.76	4.99/3.33	4.99/4.99
Shipping Weight, lbs	3578	3898	4168	4791	5183	6148	6414	7734
Operating Weight, lbs	3623	3954	4241	4864	5293	6232	6524	7818
COMPRESSORS, SCROLL TYPE								
Compressors per circuit	3/3	3/3	3/3	3/2	3/2	3/3	3/2	3/3
Compressors per unit	6	6	6	5	4	6	5	6
NOMINAL TONS PER COMPRESSOR								
Circuit 1	13	15	15	15	32	32	32	32
Circuit 2	13	13	15	32	32	15	32	32
CONDENSER								
Total Face Area ft^2	106.9	106.9	106.9	133.6	160.3	213.8	213.8	267.2
Number of Rows	1	1	1	1	1	1	1	1
Fins per Inch	20	20	20	20	20	20	20	20
CONDENSER FANS, LOW SOUND								
Number of Fans, Circuit.-1/Circuit.-2	2/2	2/2	2/2	3/2	3/3	4/4	4/4	5/5
Fan HP	2	2	2	2	2	2	2	2
Fan RPM	1160	1160	1160	1160	1160	1160	1160	1160
Total Chiller CFM	62400	62400	62400	78000	93600	124800	124800	156000
EVAPORATOR								
Water Volume, Gallons	5.4	6.7	8.8	8.8	13.2	10.0	13.2	10.0
Maximum Water Side Pressure, PSIG	150	150	150	150	150	150	150	150
Maximum Refrigerant Side Pressure, PSIG	450	450	450	450	450	450	450	450
Minimum Chiller Water Flow Rate, GPM	60	100	100	100	150	115	150	150
Maximum Chiller Water Flow Rate, GPM	325	350	400	400	625	625	625	625
Water Connections Size, Inches	3	3	3	3	3	4*	4*	4*

* Side extension kit (standard), evaporator nozzle remains 3".