QUANTECH	AIR-COOLED SCROLL CHILLER	
		Form QTC3-NM1 (515)

035-24487-000

QTC3055T - QTC3160T
WITH BRAZED PLATE HEAT EXCHANGER
STYLE B (60 HZ) 4-10 FAN
55 - 160 TON

LD18971a

R-410A

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

ETL INTERTEK LISTED C US

ISO 9001 Registered
Products are produced at a facility whose quality-management systems are ISO9001 certified.

Issue Date:
May 20, 2015

Design Conditions Datasheet

Unit Tag	Qty	Model No	Net Cooling Capacity (TR)	Nominal Voltage	Refrigerant Type
CH-3	1	QTC3085TSE46XFBSXXX	81.8	460-3-60	R410A

PIN:								
QTC3085TSE	46XFBSXXXH	XXBLXCXX44	XXXXXXHXXX	YAXXXXXXXX	AXXXXXXXXX			
....5...10	....5...20	....5...30	....5...40	....5...50	....5...60	....5...70	....5...80	....5...90

Evaporator Data		Evaporator Data (Cont.)		Performance Data	
EWT (°F)	54	Fluid Volume (USGAL)	8.8	EER (EER)	9.8
LWT (°F)	44	Min. Flow Rate (USGPM)	100	IPLV (EER)	15.7
Design Flow Rate (USGPM)	196.3	Max. Flow Rate (USGPM)	385		
Evap. Press. Drop (ft H2O)	6.8	**Condenser Data**		**Physical Data**	
Strainer Press. Drop (ft H2O)	3.7	Ambient Temp. Design (°F)	95	Rigging Wt. (lb)	4017
Ext. Kit Press. Drop (ft H2O)	0	Altitude (ft)	0	Operating Wt. (lb)	4090
Total Press. Drop (ft H2O)	10.5	User Min. Operating Air Temp. (°F)	41	Refrigerant Charge (lb)	114
Fluid	Water	User Max. Operating Air Temp. (°F)	100		
Fouling Factor (h.ft².F/Btu)	0.0001	Compressor Type	Scroll - Hermetic		

Electrical Data				
Circuit	1	2	3	4
Compressor RLA	27 / 27 / 27	27 / 27 / 27		
Fan QTY/FLA (each)	2 / 4	2 / 4		
High LRA Current	180 / 180 / 180	180 / 180 / 180		

Single Point				
Min. Circuit Ampacity	184			
Recommended Fuse/CB Rating	200			
Max. Inverse Time CB Rating	200			
Max. Dual Element Fuse Size (A)	200			
Unit Short Circuit Withstand (STD)	5 [kA]		**Operating Condition Electrical Data**	
Wire Lugs Per Phase	1		Compressor kW	93
Wire Range (Lug Size)	#6 - 500 kcmil		Total Fan kW	6.7
Starter Type	Across The Line		Total kW	99.7

Notes:

Certified in accordance with the AHRI Air-Cooled Water-Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P) and AHRI Standard 551/591 (SI). Certified units may be found in the AHRI Directory at www.ahridirectory.org. Auxiliary components included in total KW - Oil heaters, Chiller controls. Auxiliary power is already included in the compressor and fan power

AHRI CERTIFIED®
www.ahridirectory.org
Air-Cooled Water Chilling Packages
AHRI Standards 550/590 and 551/591

Design Conditions Datasheet

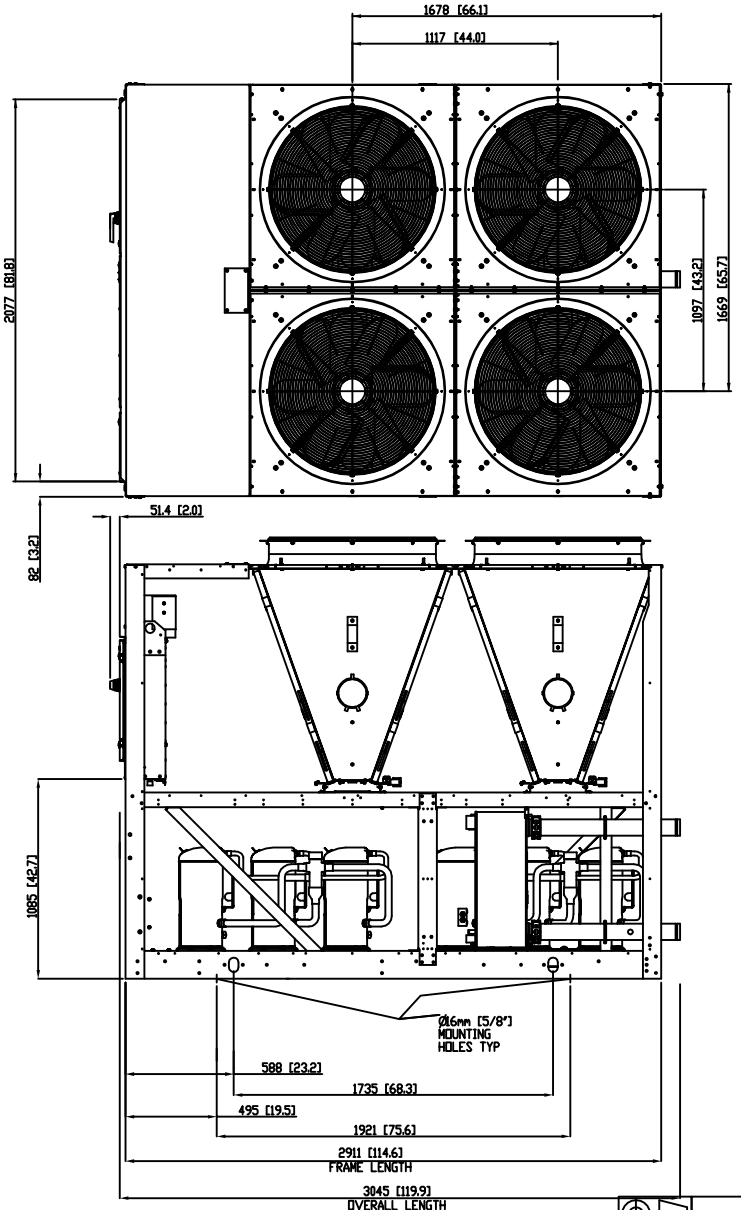
Part Load Rating Data				
Stage	**Ambient (°F)**	**Capacity (TR)**	**Total kW**	**Unit Efficiency**
1	95	81.8	99.7	9.8
2	88.2	72.6	76.5	11.4
3	80.7	62.2	55.4	13.5
4	71	49.1	38.5	15.3
5	59.4	33.3	21.8	18.3
6	55	16.4	10.3	19.1

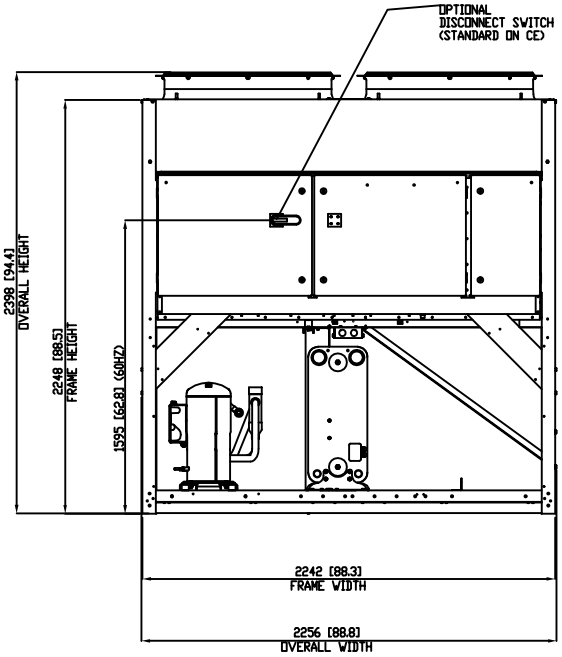
Sound Power Levels										
Stage	**Ambient (°F)**	**63**	**125**	**250**	**500**	**1K**	**2K**	**4K**	**8K**	**LWA**
1	95	96	95	91	91	87	83	80	77	93
2	88.2	96	95	91	91	87	83	80	77	93
3	80.7	96	95	91	91	87	83	80	77	93
4	71	96	95	91	91	87	83	80	77	93
5	59.4	93	92	88	88	84	80	77	74	90
6	55	57	47	N/A	66	65	62	59	50	69

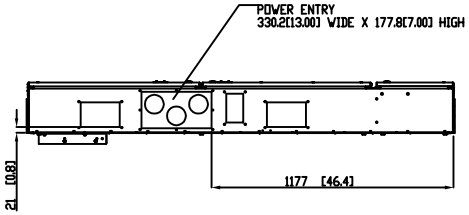
Note: Unit is equipped with Low Sound Fans.

Performance at AHRI Conditions					
Evaporator Data		**Condenser Data**		**Performance Data**	
EWT (°F)	54	Ambient Temp. (°F)	95	EER (EER)	9.8
LWT (°F)	44	Altitude (ft)	0	IPLV (EER)	15.7
Flow Rate (USGPM)	196.3			Net Cooling Capacity (TR)	81.8
Pressure Drop (ft H2O)	6.8				
Fluid	Water				
Fouling Factor (h.ft².F/Btu)	0.0001				
Fluid Volume (USGAL)	8.8				

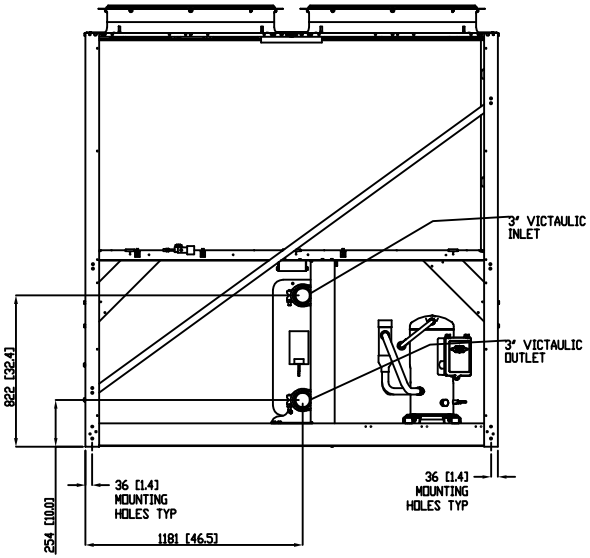
NOTES:
1. PLACEMENT ON A LEVEL SURFACE FREE OF OBSTRUCTIONS (INCLUDING SNOW, FOR WINTER OPERATION) OR AIR RE-CIRCULATION ENSURES RATED PERFORMANCE, RELIABLE OPERATION AND EASE OF MAINTENANCE. SITE RESTRICTIONS MAY COMPROMISE MINIMUM CLEARANCES INDICATED BELOW, RESULTING IN UNPREDICTABLE AIR FLOW PATTERNS AND POSSIBLE DIMINISHED PERFORMANCE. UNIT CONTROLS WILL OPTIMIZE OPERATION WITHOUT NUISANCE HIGH PRESSURE SAFETY CUTOUT. HOWEVER, THE SYSTEM DESIGNER MUST CONSIDER POTENTIAL PERFORMANCE DEGRADATION.
1.1. RECOMMENDED MINIMUM CLEARANCES:
1.1.1. SIDE TO WALL - 1828.8mm[6']
1.1.2. REAR TO WALL - 1828.8mm[6']
1.1.3. CONTROL PANEL TO WALL - 1828.8mm[6']
1.1.4. TOP - NO OBSTRUCTIONS ALLOWED.
1.1.5. DISTANCE BETWEEN ADJACENT UNITS - 3048mm[10']
1.1.6. NO MORE THAN ONE ADJACENT WALL MAY BE HIGHER THAN UNIT.
2. WEIGHT AND CENTER OF GRAVITY - REFER TO AVM REPORT.
3. INSTALLING CONTRACTOR MUST INCLUDE VENT AND DRAIN ACCOMMODATIONS IN CHILLED WATER PIPING NEAR THE EVAPORATOR.
4. NUMBER OF COMPRESSORS MAY VARY FROM DRAWING.
4.1. REFER TO PRODUCT LITERATURE.
5. OVERALL HEIGHT OF UNIT IS 2394.6mm-[94.27"] ON MONTERREY, MEXICO BUILDS.
6. ALL UNITS IN MM [INCHES]







CONTROL PANEL BOTTOM DETAIL



THIS DRAWING PERTAINS TO THE FOLLOWING MODELS:
QTC3070T
QTC3075T
QTC3085T

REVISION	REVISION	DATE	EC NUMBER	DRAWN BY	CHECKED BY	ENGINEERED BY

THIRD ANGLE
DO NOT SCALE

DRAWN:	KLUPTON	06-DEC-2013
MODELER:	KLUPTON	06-DEC-2013
CHKD:	ASAYCH	06-DEC-2013
ENG:		
SCALE: 1.000	MASS (kg):	

QUANTECH

QTC3 4-FAN 60HZ

MATERIAL: N/A
ENG. STD: N/A
PART NO.:
CUT SIZE: N/A

PLOT SIZE	CAGE NUMBER	DRAWING NUMBER	REVISION
A1	66935	035-24512-002	VERSION 0

ORIG. NO. | SHEET: 1 OF 1 | Released