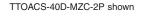
CENTRAL CHILLERS

TTOACS SERIES

Air-Cooled

- Designed For Outdoor Installation
- Single or Multiple Refrigeration Zones
- Microprocessor Control Instrument
- 5 130 Tons Capacity
- Integral Air-Cooled Condenser
- Fluid Temperatures of 20°F 70°F







GREAT FOR NEW START-UP INSTALLATIONS OR EXPANSION OF EXISTING SYSTEMS...

TTAOCS Series chillers are designed for outdoor installation in many climates. The fully charged air-cooled refrigerant chiller, and pump tank station are packaged in a single frame that minimizes costly field installation.

PROCESS TEMPERATURES:

20°F to 70°F

AMBIENT TEMPERATURE RANGE:

-20°F to 95°F (standard)

PROCESS PUMP HP:

starting from 2HP, 12 GPM

The refrigerant circuits include scroll or rotary screw compressors, shell & tube or brazed plate evaporators, capacity control system, and integral air-cooled condensers. The integral pump tank station includes a high flow process pump. Select models also include a dedicated evaporator pump.

TEMPLE 1989

OUTDOOR DESIGN

The TTOACS central chiller was designed from the ground up to endure harsh outdoor environments in nearly any climate. Temptek engineers have selected only the highest quality components that are manufactured for outdoor installation.

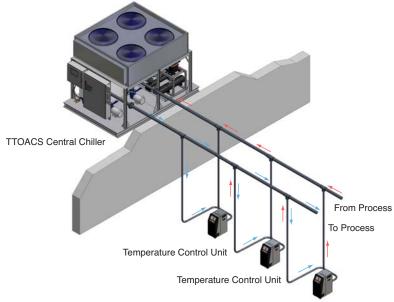


TTOACS-80D shown with optional tank heater

The electrical cabinet is NEMA 4 rated which means it is designed for outdoor use to provide protection against windblown dust and rain, splashing water, hose-directed water and damage from external ice formation. A UL labeled subpanel is standard. The chiller control instrument is housed in a separate NEMA 4 rated enclosure with a

window so that the chiller status can be easily monitored and adjustments can be made without accessing the high voltage cabinet.

A rugged frame supports the components. Shipment is made via a flat bed trailer for large capacity units or enclosed trailer for small capacity units. Simply place the chiller on a field supplied pad or roof, connect the power and fluid piping, fill with coolant and the system is ready to cool.



Temperature Control Unit

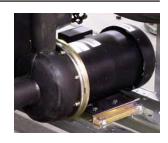
CAPACITY & REFRIGERANT ZONES

TTAOCS central chillers are available with cooling capacities from 5 - 130 tons (17 - 456 KW) and with single or dual refrigeration zones. Single zone models are best when the cooling load will be steady and when few use points will be serviced.

Models with dual refrigeration zones are for applications where the cooling load may fluctuate and where multiple fluid use points are being serviced. Dual zone units provide superior capacity control by staging refrigeration zones to match the chiller capacity to the process demand. Dual zone units also provide built in redundancy. If one refrigeration zone requires service, the second can operate providing 50% of the chiller capacity.

COOLANT CIRCUIT

TTOACS central chillers include an integral reservoir and fluid pumping system. The reservoir is constructed of non-ferrous wetted surfaces, either rotationally molded polyethylene or stainless steel. The non-rusting reservoir is generously sized to support the process needs. Units with stainless steel tanks can be equipped with a sump heater. A water glycol mixture is required



when operating at setpoints below 48°F and when ambient temperatures are expected to fall below 38°F and for some high flow applications.

Coupled to the reservoir are centrifugal pumps to provide process flow. Single refrigeration circuit chillers use a single pump system that delivers the cooling fluid to process then returns it through the chiller's evaporator and into the reservoir.

Dual refrigeration circuit chillers use a two-pump system where independent pumps are included: one for process flow and a second for flow through the chiller's evaporator. A two-pump system allows for high process flows, constant flow through the chiller when the process flow varies and provides superior temperature control.

All pumps include TEFC motors designed for outdoor operation along with suction and discharge valves. Connection sizes are selected based on application specific flow and pressure requirements. Most TTOACS chillers can be equipped with a dedicated installed standby pump and manifold.

COMPONENTS

COMPRESSOR...

Hermetic scroll or rotary screw compressors are standard on all models. Selected for their reliability, the compressors have few moving parts; offer low torque variation and high tolerance to liquid slugging.



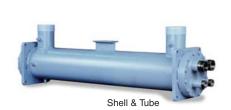
CONDENSER...

Constructed of a heat transfer coil that has copper tubes and aluminum fins for full rated performance at 95°F ambient. The coil is housed in a sheet metal enclosure with fans that provide a vertical air discharge. Ambient operation to -20°F is standard. No field installation is necessary and is delivered fully charged.

Typical air-cooled condenser

EVAPORATOR...

Brazed plate and shell & tube evaporators are used for high heat transfer rates. Each refrigerant zone is equipped with its own evaporator.

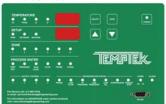




Brazed plate

CHILLER CONTROLS

Multizone Controller



Single Zone Controller



Digital Scroll Controller



MULTIZONE CONTROLLER is used on dual zone models and large capacity single zone models and is optional on smaller capacity single zone models. The control instrument consists of a main operator interface display and an intelligent zone board for each refrigeration zone and has a long history of reliable field service. The main display communicates with the zone boards to stage each refrigeration zone independently to bring the process temperature in line with the set point. If communications fails between the zone boards and the display, the zone boards assume control of their respective refrigeration zones and continue to operate.

- Soft key controls are provided for display selection and setpoint.
- Two windows display set point and actual process temperatures in °F or °C and selectable zone evaporator in and out temperatures along with unit set up parameters.
- Status lights are provided for seven system components: Probe, Low Flow, High Pressure, Low Pressure, Low Oil, Compressor, Freezestat
- · Alarm status light is provided.
- A selectable refrigeration zone lead/lag mode is a standard feature.
- Modbus RTU communication is provided via the DB-9/RS-485 connector.

SINGLE ZONE CONTROLLER is used on single zone units.

- A window displays set point or to process temperature in °F or °C.
- Soft key controls are provided for setpoint temperature and operating parameter selection.
- Status lights are provided for: Compressor On, Capacity Control
- Basic chiller diagnostics is indicated by the Refrigeration Fault light.
- The illuminated On/Off switch indicates that the chiller and coolant circuit is on or off.

DIGITAL SCROLL CONTROLLER is used on single zone units with Copeland Digital scroll compressors. The M1D controller includes all the features of the standard M1 controller plus the added circuitry and control logic to operate the advanced capacity control system of the digital scroll compressor.

STANDARD FEATURES

REFRIGERANT ZONES:

- Hermetic scroll compressors on 5-60 ton single zone units and dual zone units through 120 ton using HFC-410A refrigerant
- Rotary screw compressors on 75 125 ton single zone units and 150 210 ton dual zone units using HFC-407C refrigerant
- · Liquid line solenoid valve
- · Refrigerant sight glass with moisture indicator
- Thermostatic expansion valve
- · Brazed plate or shell & tube evaporators
- · System Capacity Control
 - Hot gas by-pass (single zone units with scroll compressors)
 - Unloading (single zone units with screw compressors)
 - Compressor staging & hot gas bypass (dual zone units with scroll compressors)
 - Compressor staging & unloading (dual zone units with screw compressors)
 - Digital compressor unloading (single zone units with digital scroll compressors)
 - Digital compressor unloading and compressor staging (single zone or dual zone models with tandem or multiple compressors)
- · Air-cooled condenser with vertical air discharge
- · Fully charged with non-ozone depleting refrigerant

PRESSURE INDICATION:

- Refrigerant low pressure (per zone)
- Refrigerant high pressure (per zone)
- Coolant pressure

COOLANT CIRCUIT:

- · Large capacity process pump:
- Evaporator pump (when included)
- Reservoir
 - Polyethylene or stainless steel (wetted surfaces) construction
 - Full insulation
- Tank lid

ELECTRICAL:

- · Outdoor rated electrical cabinet
- · Branch circuit fusing

WARRANTY:

• 1 year on parts and labor

CHILLER CONTROLS:

- M1 (single zone units)
- Multizone (dual zone and large capacity single zone units)
- M1D (single zone units with digital scroll compressor)

OPTIONS

REFRIGERANT ZONES:

- Digital Scroll Compressor
 - For energy saving capacity control (not available on all models)
- · Condenser coils with protective coating
 - For longer life in harsh environments
- · Oversized condenser
 - For full system capacity at ambient air temperatures above 95°F
- Staged tandem scroll compressors on single zone units
 - For superior capacity staging

COOLANT CIRCUIT:

- Larger process pumps
- Standby pumps and/or manifold
- Reservoir heater (mild or stainless steel tanks only)
- · No pumps or reservoir
- Basket strainer (standard on dual zone units)
- · Overhead piping kit
- Low reservoir level switch (standard on dual zone units)
- Epoxy coated mild steel reservoir construction

ELECTRICAL:

- Main power disconnect
- · Line voltage & phase monitor
- UL labeled sub panel

WARRANTIES:

Extended compressor warranty

ENGINEERING DESIGN SERVICE

Temptek staffs a complete CAD based Engineering Department with experienced water system designers. Working from customer supplied facility and process information, Temptek designers analyze the entire system and select the correct component combinations to provide the most efficient output. If one of our standard systems does not fit your application requirements, then Temptek will design a custom system from a long list of available options.

MODEL ¹	TTOACS -	5S-M1-1P	7.5S-M1-1P	10S-M1-1P	15S-M1-1P	20S-M1-1P	25S-M1-1P	30S-M1-1P
COMPRESSOR	Туре	Single Scroll	Single Scroll	Single Scroll	Single Scroll	Single Scroll	Single Scroll	Single Scroll
CAPACITY ²	Tons	4.9	7.1	9.8	14.5	18.5	23.1	30
	KW	17.2	24.9	34.4	50.9	64.9	81.0	105.3
CONDENSER	# of FANS	1	1	1	2	2	3	3
	Model	012	014	017	025	032	041	050
EVAPORATOR	TYPE	Brazed Plate	Brazed Plate	Brazed Plate	Brazed Plate	Brazed Plate	Brazed Plate	Brazed Plate
REFRIGERANT ³		HFC-410A	HFC-410A	HFC-410A	HFC-410A	HFC-410A	HFC-410A	HFC-410A
PROCESS PUMP	HP	2	2	2	3	3	5	5
	GPM	12	18	24	36	48	60	72
	PSI (water)	52	50	48	54	48	60	57
EVAPORATOR PUMP	НР	Optional	Optional	Optional	Optional	Optional	Optional	Optional
STANDBY PUMP ⁴		A	A	A	A	A	A	Α
TANK	GALLONS	65	65	65	65	65	65	130
	CONSTRUCTION ⁵	PE	PE	PE	PE	PE	PE	PE
CONNECTIONS	NPT / FLANGED	1 ¹ /4" N	11/4" N	1 ¹ / ₄ " N	2" N	2" N	2" N	2" N
DIMENSIONS ⁶ (inches)	HEIGHT	86	86	86	86	86	86	86
	WIDTH	54	54	54	54	54	54	54
	LENGTH	78	78	78	122	122	186	186
CONTROL	STANDARD	M1	M1	M1	M1	M1	M1	M1
SYSTEM AMPERAGE ⁷	FLA (460v)	15.6	22.8	22.7	38.2	48.8	63.8	69.7
	RLA (460v)	13.5	18.3	21.4	31.6	41.3	48.7	60.7
Factory #	9266	009	109	209	309	409	509	609
MODEL ¹	TTOACS -	40S-M1-1P	50S-M1-1P	60S-M1-2P	75-MZC-2P	95-MZC-2P	105S-M1-1P	125S-M1-1P
COMPRESSOR	Туре	Tandem Scroll	Tandem Scroll	Tandem Scroll	Rotary Screw	Rotary Screw	Rotary Screw	Rotary Screv
CAPACITY ²	Tons	36.7	46.4	60.7	73	94	102	123
	KW	135.1	164.3	209.6	256.7	330.5	358.7	432.5
CONDENSER	# of FANS	4	4	6	8	8	10	10
	MODEL	056	074	096	118	157	167	198
EVAPORATOR	TYPE	Brazed Plate	Brazed Plate	Brazed Plate	Shell & Tube	Shell & Tube	Shell & Tube	Shell & Tube
REFRIGERANT ³		HFC-410A	HFC-410A	HFC-410A	HFC-407C	HFC-407C	HFC-407C	HFC-407C
PROCESS PUMP	НР	7.5	7.5	7.5	10	15	20	20
	GPM	96	120	144	175	226	245	312
	PSI (water)	65	63	60	60	70	65	65
EVAPORATOR PUMP	HP	Optional	Optional	5	5	7.5	7.5	7.5
	GPM			144	175	226	245	312
STANDBY PUMP ⁴		A	A	A	A	A	A	A
	0.111.0110	130	130	350	350	350	350	900
TANK	GALLONS	130	100	000				
TANK	CONSTRUCTION ⁵	PE	PE	SS	SS	SS	SS	SS

CONTROL

FACTORY #

 $\textbf{DIMENSIONS}^{\,6} \,\, (\text{inches})$

1. Since product innovation and improvement is our constant goal, all features and specifications are subject to change without notice or liability. Selection of certain optional features may change listed specifications.

99

186

M1

157.2

125.1

909

99

90

240

MZC

214

156

2. Tons of capacity at 12,000 Btu/hr/ton @ 50°F LWT @ 115°F condensing temperature. +/- 5% as reserved by compressor manufacturer.

86

122

M1

109.2

90.2

3. This is a non-ozone depleting refrigerant.

SYSTEM AMPERAGE FLA (460v)

4. A = standby pump is available for this model. N/A = Standby pump is not available for this unit.

86

186

87.5

75.6

709

5. PE = polyethylene reservoirs. SS = stainless steel reservoir

HEIGHT

WIDTH

LENGTH

STANDARD

RLA (460v)

9266

6. Dimensions are approximate and may change based on options and features selected.

Do not use for construction.

7. FLA: full load amps with standard pumps and condenser. RLA: run load amps with standard pumps and condenser. Optional standby pumps, larger pumps or alternate condensers may change this rating. Do not use for construction.



99

90

240

MZC

242

191

99

300

MZC

291

231

99

300

MZC

321

242

PRICE & PERFORMANCE... for the LONG TERM

SPECIFICATIONS - DUAL ZONE UNITS

MODEL ¹	TTOACS -	20D-MZC-2P	30D-MZC-2P	40D-MZC-2P	50D-MZC-2P	60D-MZC-2P	
COMPRESSOR	Туре	Scroll	Scroll	Scroll	Scroll	Scroll	
# OF ZONES	туре	2	2	2	2	2	
CAPACITY ²	Tons	19.6	29	37	46.2	60	
OAI AOITT	KW	68.8	101.8	129.8	162.1	210.5	
CONDENSER	# of FANS	2	4	4	6	6	
CONDENCEN	MODEL	(2)017	(2)025	(2)032	(2)041	(2)050	
EVAPORATOR	TYPE	Brazed Plate	Brazed Plate	Brazed Plate	Brazed Plate	Brazed Plate	
REFRIGERANT ³		HFC-410A	HFC-410A	HFC-410A	HFC-410A	HFC-410A	
PROCESS PUMP	HP	3	5	7.5	7.5	7.5	
	GPM	48	72	96	120	144	
	PSI (water)	48	57	65	63	60	
EVAPORATOR PUMP	HP	2	2	3	3	5	
	GPM	48	72	96	120	144	
STANDBY PUMP ⁴		A	A	A	A	A	
TANK	GALLONS	130	130	130	130	350	
	CONSTRUCTION ⁵	PE	PE	PE	PE	SS	
CONNECTIONS	NPT / FLANGED	2" N	2" N	2" N	3" N	3" N	
DIMENSIONS 6 (inches)	HEIGHT	99	99	99	99	99	
. 7	WIDTH	96	96	96	96	96	
	LENGTH	78	132	132	186	186	
CONTROL	STANDARD	MZC	MZC	MZC	MZC	MZC	
SYSTEM AMPERAGE ⁷	FLA (460v)	57.0	93.0	116.2	140.6	161.4	
	RLA (460v)	47.2	82.6	101.2	110.4	143.4	
FACTORY #	9268	009	109	209	309	409	
MODEL ¹	TTOACS-	80D-MZC-2P	100D-MZC-2P	120D-MZC-2P	150D-MZC-2P	190D-MZC-2P	210D-MZC-2P
COMPRESSOR	TTOACS -	Tandem Scroll	Tandem Scroll	Tandem Scroll	Rotary Screw	Rotary Screw	Rotary Screw
COMPRESSOR # OF ZONES		Tandem Scroll	Tandem Scroll	Tandem Scroll	Rotary Screw 2	Rotary Screw 2	Rotary Screw 2
COMPRESSOR	Type	Tandem Scroll 2 73.4	Tandem Scroll 2 93.7	Tandem Scroll 2 119.5	Rotary Screw 2 146	Rotary Screw 2 188	Rotary Screw 2 204
COMPRESSOR # OF ZONES CAPACITY ²	Tons KW	Tandem Scroll 2 73.4 257.6	Tandem Scroll 2 93.7 328.7	Tandem Scroll 2 119.5 419.3	2 146 513.4	Rotary Screw 2 188 661.1	Rotary Screw 2 204 717.4
COMPRESSOR # OF ZONES	Tons KW # of FANS	Tandem Scroll 2 73.4 257.6 8	Tandem Scroll 2 93.7 328.7 8	Tandem Scroll 2 119.5 419.3	Rotary Screw 2 146 513.4	Rotary Screw 2 188 661.1	Rotary Screw 2 204 717.4
# OF ZONES CAPACITY ² CONDENSER	Tons KW # of FANS MODEL	Tandem Scroll 2 73.4 257.6 8 (2)064	Tandem Scroll 2 93.7 328.7 8 (2)079	Tandem Scroll 2 119.5 419.3 10 (2)095	Rotary Screw 2 146 513.4 14 (2)115	Rotary Screw 2 188 661.1 14 (2)135	Rotary Screw 2 204 717.4 14 (2)135
# OF ZONES CAPACITY ² CONDENSER EVAPORATOR	Tons KW # of FANS	Tandem Scroll 2 73.4 257.6 8 (2)064 Brazed Plate	Tandem Scroll 2 93.7 328.7 8 (2)079 Brazed Plate	Tandem Scroll 2 119.5 419.3 10 (2)095 Brazed Plate	Rotary Screw 2 146 513.4 14 (2)115 Shell & Tube	Rotary Screw 2 188 661.1 14 (2)135 Shell & Tube	Rotary Screw 2 204 717.4 14 (2)135 Shell & Tube
# OF ZONES CAPACITY ² CONDENSER EVAPORATOR REFRIGERANT ³	Tons KW # of FANS MODEL TYPE	Tandem Scroll 2 73.4 257.6 8 (2)064 Brazed Plate HFC-410A	Tandem Scroll 2 93.7 328.7 8 (2)079 Brazed Plate HFC-410A	Tandem Scroll 2 119.5 419.3 10 (2)095 Brazed Plate HFC-410A	Rotary Screw 2 146 513.4 14 (2)115 Shell & Tube HFC-407C	Rotary Screw 2 188 661.1 14 (2)135 Shell & Tube HFC-407C	Rotary Screw 2 204 717.4 14 (2)135 Shell & Tube HFC-407C
# OF ZONES CAPACITY ² CONDENSER EVAPORATOR	Tons KW # of FANS MODEL TYPE	Tandem Scroll 2 73.4 257.6 8 (2)064 Brazed Plate HFC-410A 10	Tandem Scroll 2 93.7 328.7 8 (2)079 Brazed Plate HFC-410A 15	Tandem Scroll 2 119.5 419.3 10 (2)095 Brazed Plate HFC-410A 20	Rotary Screw 2 146 513.4 14 (2)115 Shell & Tube HFC-407C 25	Rotary Screw 2 188 661.1 14 (2)135 Shell & Tube HFC-407C 30	Rotary Screw 2 204 717.4 14 (2)135 Shell & Tube HFC-407C 30
# OF ZONES CAPACITY ² CONDENSER EVAPORATOR REFRIGERANT ³	Tons KW # of FANS MODEL TYPE HP GPM	Tandem Scroll 2 73.4 257.6 8 (2)064 Brazed Plate HFC-410A 10 192	Tandem Scroll 2 93.7 328.7 8 (2)079 Brazed Plate HFC-410A 15 240	Tandem Scroll 2 119.5 419.3 10 (2)095 Brazed Plate HFC-410A 20 288	Rotary Screw 2 146 513.4 14 (2)115 Shell & Tube HFC-407C 25 350	Rotary Screw 2 188 661.1 14 (2)135 Shell & Tube HFC-407C 30 451	Rotary Screw 2 204 717.4 14 (2)135 Shell & Tube HFC-407C 30 490
COMPRESSOR # OF ZONES CAPACITY ² CONDENSER EVAPORATOR REFRIGERANT ³ PROCESS PUMP	Tons KW # of FANS MODEL TYPE HP GPM PSI (water)	Tandem Scroll 2 73.4 257.6 8 (2)064 Brazed Plate HFC-410A 10 192 60	Tandem Scroll 2 93.7 328.7 8 (2)079 Brazed Plate HFC-410A 15 240 70	Tandem Scroll 2 119.5 419.3 10 (2)095 Brazed Plate HFC-410A 20 288 69	Rotary Screw 2 146 513.4 14 (2)115 Shell & Tube HFC-407C 25 350 60	Rotary Screw 2 188 661.1 14 (2)135 Shell & Tube HFC-407C 30 451 60	Rotary Screw 2 204 717.4 14 (2)135 Shell & Tube HFC-407C 30 490 60
# OF ZONES CAPACITY ² CONDENSER EVAPORATOR REFRIGERANT ³	Tons KW # of FANS MODEL TYPE HP GPM PSI (water) HP	Tandem Scroll 2 73.4 257.6 8 (2)064 Brazed Plate HFC-410A 10 192 60 5	Tandem Scroll 2 93.7 328.7 8 (2)079 Brazed Plate HFC-410A 15 240 70 7.5	Tandem Scroll 2 119.5 419.3 10 (2)095 Brazed Plate HFC-410A 20 288 69 7.5	Rotary Screw 2 146 513.4 14 (2)115 Shell & Tube HFC-407C 25 350 60 10	Rotary Screw 2 188 661.1 14 (2)135 Shell & Tube HFC-407C 30 451 60 15	Rotary Screw 2 204 717.4 14 (2)135 Shell & Tube HFC-407C 30 490 60 15
COMPRESSOR # OF ZONES CAPACITY ² CONDENSER EVAPORATOR REFRIGERANT ³ PROCESS PUMP	Tons KW # of FANS MODEL TYPE HP GPM PSI (water)	Tandem Scroll 2 73.4 257.6 8 (2)064 Brazed Plate HFC-410A 10 192 60 5	Tandem Scroll 2 93.7 328.7 8 (2)079 Brazed Plate HFC-410A 15 240 70 7.5	Tandem Scroll 2 119.5 419.3 10 (2)095 Brazed Plate HFC-410A 20 288 69 7.5	Rotary Screw 2 146 513.4 14 (2)115 Shell & Tube HFC-407C 25 350 60 10 350	Rotary Screw 2 188 661.1 14 (2)135 Shell & Tube HFC-407C 30 451 60 15	Rotary Screw 2 204 717.4 14 (2)135 Shell & Tube HFC-407C 30 490 60 15
COMPRESSOR # OF ZONES CAPACITY ² CONDENSER EVAPORATOR REFRIGERANT ³ PROCESS PUMP EVAPORATOR PUMP	Tons KW # of FANS MODEL TYPE HP GPM PSI (water) HP GPM	Tandem Scroll 2 73.4 257.6 8 (2)064 Brazed Plate HFC-410A 10 192 60 5 192 A	Tandem Scroll 2 93.7 328.7 8 (2)079 Brazed Plate HFC-410A 15 240 70 7.5 240 A	Tandem Scroll 2 119.5 419.3 10 (2)095 Brazed Plate HFC-410A 20 288 69 7.5 288 A	Rotary Screw 2 146 513.4 14 (2)115 Shell & Tube HFC-407C 25 350 60 10 350 A	Rotary Screw 2 188 661.1 14 (2)135 Shell & Tube HFC-407C 30 451 60 15 451 A	Rotary Screw 2 204 717.4 14 (2)135 Shell & Tube HFC-407C 30 490 60 15 490 A
COMPRESSOR # OF ZONES CAPACITY ² CONDENSER EVAPORATOR REFRIGERANT ³ PROCESS PUMP	Tons KW # of FANS MODEL TYPE HP GPM PSI (water) HP GPM GALLONS	Tandem Scroll 2 73.4 257.6 8 (2)064 Brazed Plate HFC-410A 10 192 60 5 192 A 350	Tandem Scroll 2 93.7 328.7 8 (2)079 Brazed Plate HFC-410A 15 240 70 7.5 240 A 350	Tandem Scroll 2 119.5 419.3 10 (2)095 Brazed Plate HFC-410A 20 288 69 7.5 288 A 350	Rotary Screw 2 146 513.4 14 (2)115 Shell & Tube HFC-407C 25 350 60 10 350 A 900	Rotary Screw 2 188 661.1 14 (2)135 Shell & Tube HFC-407C 30 451 60 15 451 A 900	Rotary Screw 2 204 717.4 14 (2)135 Shell & Tube HFC-407C 30 490 60 15 490 A
COMPRESSOR # OF ZONES CAPACITY ² CONDENSER EVAPORATOR REFRIGERANT ³ PROCESS PUMP EVAPORATOR PUMP STANDBY PUMP ⁴ TANK	Tons KW # of FANS MODEL TYPE HP GPM PSI (water) HP GPM GALLONS CONSTRUCTION ⁵	Tandem Scroll 2 73.4 257.6 8 (2)064 Brazed Plate HFC-410A 10 192 60 5 192 A 350 SS	Tandem Scroll 2 93.7 328.7 8 (2)079 Brazed Plate HFC-410A 15 240 70 7.5 240 A 350 SS	Tandem Scroll 2 119.5 419.3 10 (2)095 Brazed Plate HFC-410A 20 288 69 7.5 288 A 350 SS	Rotary Screw 2 146 513.4 14 (2)115 Shell & Tube HFC-407C 25 350 60 10 350 A 900 SS	Rotary Screw 2 188 661.1 14 (2)135 Shell & Tube HFC-407C 30 451 60 15 451 A 900 SS	Rotary Screw 2 204 717.4 14 (2)135 Shell & Tube HFC-407C 30 490 60 15 490 A 900 SS
COMPRESSOR # OF ZONES CAPACITY ² CONDENSER EVAPORATOR REFRIGERANT ³ PROCESS PUMP EVAPORATOR PUMP STANDBY PUMP ⁴ TANK CONTROL	Tons KW # of FANS MODEL TYPE HP GPM PSI (water) HP GPM GALLONS CONSTRUCTIONS NPT / FLANGED	Tandem Scroll 2 73.4 257.6 8 (2)064 Brazed Plate HFC-410A 10 192 60 5 192 A 350 SS 4" F	Tandem Scroll 2 93.7 328.7 8 (2)079 Brazed Plate HFC-410A 15 240 70 7.5 240 A 350 SS 4" F	Tandem Scroll 2 119.5 419.3 10 (2)095 Brazed Plate HFC-410A 20 288 69 7.5 288 A 350 SS 4" F	Rotary Screw 2 146 513.4 14 (2)115 Shell & Tube HFC-407C 25 350 60 10 350 A 900 SS 6" F	Rotary Screw 2 188 661.1 14 (2)135 Shell & Tube HFC-407C 30 451 60 15 451 A 900 SS 6" F	Rotary Screw 2 204 717.4 14 (2)135 Shell & Tube HFC-407C 30 490 60 15 490 A 900 SS 6" F
COMPRESSOR # OF ZONES CAPACITY ² CONDENSER EVAPORATOR REFRIGERANT ³ PROCESS PUMP EVAPORATOR PUMP STANDBY PUMP ⁴ TANK	Tons KW # of FANS MODEL TYPE HP GPM PSI (water) HP GPM GALLONS CONSTRUCTIONS NPT / FLANGED STANDARD	Tandem Scroll 2 73.4 257.6 8 (2)064 Brazed Plate HFC-410A 10 192 60 5 192 A 350 SS 4" F MZC	Tandem Scroll 2 93.7 328.7 8 (2)079 Brazed Plate HFC-410A 15 240 70 7.5 240 A 350 SS 4" F	Tandem Scroll 2 119.5 419.3 10 (2)095 Brazed Plate HFC-410A 20 288 69 7.5 288 A 350 SS 4" F	Rotary Screw 2 146 513.4 14 (2)115 Shell & Tube HFC-407C 25 350 60 10 350 A 900 SS 6" F MZC	Rotary Screw 2 188 661.1 14 (2)135 Shell & Tube HFC-407C 30 451 60 15 451 A 900 SS 6" F MZC	Rotary Screw 2 204 717.4 14 (2)135 Shell & Tube HFC-407C 30 490 60 15 490 A 900 SS 6" F MZC
COMPRESSOR # OF ZONES CAPACITY ² CONDENSER EVAPORATOR REFRIGERANT ³ PROCESS PUMP EVAPORATOR PUMP STANDBY PUMP ⁴ TANK CONTROL	Tons KW # of FANS MODEL TYPE HP GPM PSI (water) HP GPM GALLONS CONSTRUCTIONS NPT / FLANGED STANDARD HEIGHT	Tandem Scroll 2 73.4 257.6 8 (2)064 Brazed Plate HFC-410A 10 192 60 5 192 A 350 SS 4" F MZC 99	Tandem Scroll 2 93.7 328.7 8 (2)079 Brazed Plate HFC-410A 15 240 70 7.5 240 A 350 SS 4" F MZC 99	Tandem Scroll 2 119.5 419.3 10 (2)095 Brazed Plate HFC-410A 20 288 69 7.5 288 A 350 SS 4" F MZC 99	Rotary Screw 2 146 513.4 14 (2)115 Shell & Tube HFC-407C 25 350 60 10 350 A 900 SS 6° F MZC 99	Rotary Screw 2 188 661.1 14 (2)135 Shell & Tube HFC-407C 30 451 60 15 451 A 900 SS 6" F MZC 99	Rotary Screw 2 204 717.4 14 (2)135 Shell & Tube HFC-407C 30 490 60 15 490 A 900 SS 6" F MZC
COMPRESSOR # OF ZONES CAPACITY ² CONDENSER EVAPORATOR REFRIGERANT ³ PROCESS PUMP EVAPORATOR PUMP STANDBY PUMP ⁴ TANK CONTROL DIMENSIONS ⁵ (inches)	Tons KW # of FANS MODEL TYPE HP GPM PSI (water) HP GPM GALLONS CONSTRUCTION 5 NPT / FLANGED STANDARD HEIGHT WIDTH	Tandem Scroll 2 73.4 257.6 8 (2)064 Brazed Plate HFC-410A 10 192 60 5 192 A 350 SS 4" F MZC 99	Tandem Scroll 2 93.7 328.7 8 (2)079 Brazed Plate HFC-410A 15 240 70 7.5 240 A 350 SS 4" F MZC 99	Tandem Scroll 2 119.5 419.3 10 (2)095 Brazed Plate HFC-410A 20 288 69 7.5 288 A 350 SS 4" F MZC 99	Rotary Screw 2 146 513.4 14 (2)115 Shell & Tube HFC-407C 25 350 60 10 350 A 900 SS 6" F MZC 99	Rotary Screw 2 188 661.1 14 (2)135 Shell & Tube HFC-407C 30 451 60 15 451 A 900 SS 6" F MZC 99 96	Rotary Screw 2 204 717.4 14 (2)135 Shell & Tube HFC-407C 30 490 60 15 490 A 900 SS 6" F MZC 99
COMPRESSOR # OF ZONES CAPACITY ² CONDENSER EVAPORATOR REFRIGERANT ³ PROCESS PUMP EVAPORATOR PUMP STANDBY PUMP ⁴ TANK CONTROL DIMENSIONS ⁶ (inches)	Tons KW # of FANS MODEL TYPE HP GPM PSI (water) HP GPM GALLONS CONSTRUCTIONS NPT / FLANGED STANDARD HEIGHT WIDTH LENGTH	Tandem Scroll 2 73.4 257.6 8 (2)064 Brazed Plate HFC-410A 10 192 60 5 192 A 350 SS 4" F MZC 99 96 240	Tandem Scroll 2 93.7 328.7 8 (2)079 Brazed Plate HFC-410A 15 240 70 7.5 240 A 350 SS 4" F MZC 99 96 240	Tandem Scroll 2 119.5 419.3 10 (2)095 Brazed Plate HFC-410A 20 288 69 7.5 288 A 350 SS 4" F MZC 99 96 296	Rotary Screw 2 146 513.4 14 (2)115 Shell & Tube HFC-407C 25 350 60 10 350 A 900 SS 6° F MZC 99 96 360	Rotary Screw 2 188 661.1 14 (2)135 Shell & Tube HFC-407C 30 451 60 15 451 A 900 SS 6° F MZC 99 96 408	Rotary Screw 2 204 717.4 14 (2)135 Shell & Tube HFC-407C 30 490 60 15 490 A 900 SS 6° F MZC 99 96 408
COMPRESSOR # OF ZONES CAPACITY ² CONDENSER EVAPORATOR REFRIGERANT ³ PROCESS PUMP EVAPORATOR PUMP STANDBY PUMP ⁴ TANK CONTROL DIMENSIONS ⁶ (inches) SYSTEM AMPERAGE ⁷	Type Tons KW # of FANS MODEL TYPE HP GPM PSI (water) HP GALLONS CONSTRUCTION ⁵ NPT / FLANGED STANDARD HEIGHT WIDTH LENGTH FLA (460v)	Tandem Scroll 2 73.4 257.6 8 (2)064 Brazed Plate HFC-410A 10 192 60 5 192 A 350 SS 4" F MZC 99 96 240 193.2	Tandem Scroll 2 93.7 328.7 8 (2)079 Brazed Plate HFC-410A 15 240 70 7.5 240 A 350 SS 4" F MZC 99 96 240 253.2	Tandem Scroll 2 119.5 419.3 10 (2)095 Brazed Plate HFC-410A 20 288 69 7.5 288 A 350 SS 4" F MZC 99 96 296 327.6	Rotary Screw 2 146 513.4 14 (2)115 Shell & Tube HFC-407C 25 350 60 10 350 A 900 SS 6" F MZC 99 96 360 415	Rotary Screw 2 188 661.1 14 (2)135 Shell & Tube HFC-407C 30 451 60 15 451 A 900 SS 6" F MZC 99 96 408 470	Rotary Screw 2 204 717.4 14 (2)135 Shell & Tube HFC-407C 30 490 60 15 490 A 900 SS 6" F MZC 99 96 408 542
COMPRESSOR # OF ZONES CAPACITY ² CONDENSER EVAPORATOR REFRIGERANT ³ PROCESS PUMP EVAPORATOR PUMP STANDBY PUMP ⁴ TANK CONTROL DIMENSIONS ⁶ (inches)	Tons KW # of FANS MODEL TYPE HP GPM PSI (water) HP GPM GALLONS CONSTRUCTIONS NPT / FLANGED STANDARD HEIGHT WIDTH LENGTH	Tandem Scroll 2 73.4 257.6 8 (2)064 Brazed Plate HFC-410A 10 192 60 5 192 A 350 SS 4" F MZC 99 96 240	Tandem Scroll 2 93.7 328.7 8 (2)079 Brazed Plate HFC-410A 15 240 70 7.5 240 A 350 SS 4" F MZC 99 96 240	Tandem Scroll 2 119.5 419.3 10 (2)095 Brazed Plate HFC-410A 20 288 69 7.5 288 A 350 SS 4" F MZC 99 96 296	Rotary Screw 2 146 513.4 14 (2)115 Shell & Tube HFC-407C 25 350 60 10 350 A 900 SS 6° F MZC 99 96 360	Rotary Screw 2 188 661.1 14 (2)135 Shell & Tube HFC-407C 30 451 60 15 451 A 900 SS 6° F MZC 99 96 408	Rotary Screw 2 204 717.4 14 (2)135 Shell & Tube HFC-407C 30 490 60 15 490 A 900 SS 6° F MZC 99 96 408

Notes

1. Since product innovation and improvement is our constant goal, all features and specifications are subject to change without notice or liability. Selection of certain optional features may change listed specifications. 2. Tons of capacity at 12,000 Btu/hr/ton @ 50°F LWT @ 115°F condensing temperature. +/- 5% as reserved by compressor manufacturer. 3. This is a non-ozone depleting refrigerant. 4. A = standby pump is available for this model. N/A = Standby pump is not available for this unit. 5. PE = polyethylene reservoirs. SS = stainless steel reservoir. 6. Dimensions are approximate and may change based on options and features selected. Do not use for construction. 7. FLA: full load amps with standard pumps and condenser. RLA: run load amps with standard pumps and condensers may change this rating. Do not use for construction.



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