

# CENTRAL CHILLERS

- Temperature Control Units Water & Oil 30° - 500°F
- Portable Chillers
   Air & Water-Cooled
   20° 70°F
- Central Chillers
  Air & Water-Cooled
  Packages & Modules
  20° 70°F
- Pump Tank Stations
   Chilled or Tower Water
   200 3600 gallons
- Cooling Tower Cells
   45 540 tons
- Filters
- · Heat Exchangers
- · Heat Recovery Units

#### WARRANTY

- 1 Year: Covering parts and labor
- 2nd Year:
   Complementary visit for preventive maintenance consultation



# OACS SERIES

- Complete Central Chiller & Pump Tank Package
- Designed For Outdoor Installations
- · Capacity: 5 to 210 Tons
- Fluid Temperature: 20°F to 70°F
- Using Non-Ozone Depleting Refrigerants



OACS Series chillers are designed for outdoor installations 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.

Advantage OACS Series central chillers won't let you down. Every Advantage chiller is supported by application expertise, engineering know how, and un-surpassed service support from experienced technicians.

Since 1977 Advantage has been applying, designing and servicing the best chillers available.

#### **APPLICATIONS**

OACS Series central chiller can be used on a variety of process applications that require 20°F to 70°F chilled water.

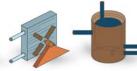














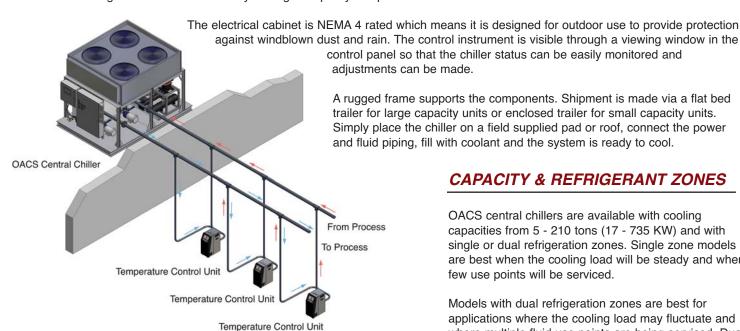


Troughs & Tanks

Rolls

Radiators Jacketed Vessels and Air Coils and Mixers

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



#### **COOLANT CIRCUIT**

OACS 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 zone chillers up to 50 tons typically 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 zone chillers and single zone units above 50 tons typically 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.

Advantage product specialists determine whether a single pump or two pump system is best for your application.

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 OACS chillers can be equipped with a dedicated installed standby pump and manifold.

#### CAPACITY & REFRIGERANT ZONES

OACS central chillers are available with cooling capacities from 5 - 210 tons (17 - 735 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 best 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.

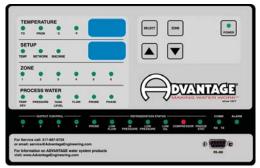


OACS-40D-MZC-2P shown

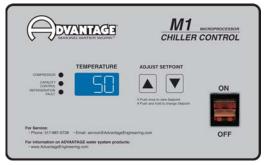
### ENGINEERING DESIGN SERVICE

Advantage staffs a complete CAD based Engineering Department with experienced water system designers. Working from customer supplied facility and process information, Advantage 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 Advantage will design a custom system from a long list of available options.

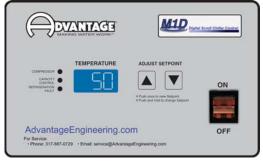
### **CHILLER CONTROLS**



Multizone Controller (MZC)



M1 Controller



M1D Controller

MULTIZONE CONTROLLER (MZC) 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 Oil - Low Flow - Compressor - High Pressure - Freezestat - Low Pressure

- 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.

#### M1 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.

M1D 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.

#### **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.







Screw Compressor

Tandem Scroll Compressor

Scroll Compressor

#### 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.

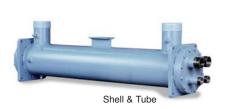
Low ambient operation

to -20°F is standard.

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

#### 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
- 5 kA RMS SSCR

#### **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)

<sup>1</sup> Features for units customized to meet specific customer needs may be different than listed above.

# OTHER PRODUCTS



#### **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

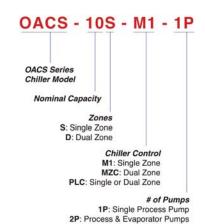
#### **ELECTRICAL:**

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

#### **WARRANTIES:**

Extended compressor warranty

## **MODEL DESIGNATOR**





3P: Process, Evaporator & Standby Pumps

# **SPECIFICATIONS**

# OACS Central Liquid Chillers : 5 - 125 Tons Single Zone Units

MODEL <sup>1</sup>	OACS -	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 <sup>2</sup>	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 <sup>3</sup>		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	HP	Optional	Optional	Optional	Optional	Optional	Optional	Optional
STANDBY PUMP 4		A	A	A	A	A	A	A
TANK	GALLONS	65	65	65	65	65	65	130
	CONSTRUCTION <sup>5</sup>	PE	PE	PE	PE	PE	PE	PE
CONNECTIONS	NPT / FLANGED	1 <sup>1</sup> / <sub>4</sub> " N	1 <sup>1</sup> / <sub>4</sub> " N	1 <sup>1</sup> / <sub>4</sub> " 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 <sup>7</sup>	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 <sup>1</sup>	OACS -	40S-M1-1P	50S-M1-1P	60S-M1-2P	75-MZC-2P	95-MZC-2P	105S-MZC-2P	125S-MZC-2P
MODEL <sup>1</sup> COMPRESSOR	OACS - Type	40S-M1-1P Tandem Scroll	50S-M1-1P Tandem Scroll	60S-M1-2P Tandem Scroll	75-MZC-2P Rotary Screw	95-MZC-2P Rotary Screw	105S-MZC-2P Rotary Screw	125S-MZC-2P Rotary Screw
-								
COMPRESSOR	Туре	Tandem Scroll	Tandem Scroll	Tandem Scroll	Rotary Screw	Rotary Screw	Rotary Screw	Rotary Screw
COMPRESSOR	Type Tons	Tandem Scroll 36.7	Tandem Scroll 46.4	Tandem Scroll 60.7	Rotary Screw 73	Rotary Screw 94	Rotary Screw 102	Rotary Screw 123
COMPRESSOR CAPACITY <sup>2</sup>	Type Tons KW	Tandem Scroll 36.7 135.1	Tandem Scroll 46.4 164.3	Tandem Scroll 60.7 209.6	Rotary Screw 73 256.7	Rotary Screw 94 330.5	Rotary Screw 102 358.7	Rotary Screw 123 432.5
COMPRESSOR CAPACITY <sup>2</sup>	Type Tons KW # of FANS	Tandem Scroll 36.7 135.1	Tandem Scroll 46.4 164.3 4	Tandem Scroll 60.7 209.6 6	73 256.7 8	94 330.5 8	102 358.7 10	123 432.5 10
COMPRESSOR CAPACITY <sup>2</sup> CONDENSER	Type Tons KW # of FANS MODEL	Tandem Scroll 36.7 135.1 4 056	Tandem Scroll 46.4 164.3 4 074	Tandem Scroll 60.7 209.6 6 096	73 256.7 8 118	94 330.5 8 157	Rotary Screw 102 358.7 10	Rotary Screw 123 432.5 10 198
COMPRESSOR CAPACITY <sup>2</sup> CONDENSER  EVAPORATOR	Type Tons KW # of FANS MODEL	Tandem Scroll 36.7 135.1 4 056 Brazed Plate	Tandem Scroll 46.4 164.3 4 074 Brazed Plate	Tandem Scroll 60.7 209.6 6 096 Brazed Plate	Rotary Screw 73 256.7 8 118 Shell & Tube	94 330.5 8 157 Shell & Tube	Rotary Screw 102 358.7 10 167 Shell & Tube	Rotary Screw 123 432.5 10 198 Shell & Tube
COMPRESSOR CAPACITY <sup>2</sup> CONDENSER  EVAPORATOR REFRIGERANT <sup>3</sup>	Type Tons KW # of FANS MODEL TYPE	Tandem Scroll 36.7 135.1 4 056 Brazed Plate HFC-410A	Tandem Scroll 46.4 164.3 4 074 Brazed Plate HFC-410A	Tandem Scroll 60.7 209.6 6 096 Brazed Plate HFC-410A	Rotary Screw 73 256.7 8 118 Shell & Tube HFC-407C	94 330.5 8 157 Shell & Tube HFC-407C	Rotary Screw  102  358.7  10  167  Shell & Tube  HFC-407C	Rotary Screw 123 432.5 10 198 Shell & Tube HFC-407C
COMPRESSOR CAPACITY <sup>2</sup> CONDENSER  EVAPORATOR REFRIGERANT <sup>3</sup>	Type Tons KW # of FANS MODEL TYPE	Tandem Scroll 36.7 135.1 4 056 Brazed Plate HFC-410A 7.5	Tandem Scroll 46.4 164.3 4 074 Brazed Plate HFC-410A 7.5	Tandem Scroll 60.7 209.6 6 096 Brazed Plate HFC-410A 7.5	Rotary Screw 73 256.7 8 118 Shell & Tube HFC-407C 10	94 330.5 8 157 Shell & Tube HFC-407C	Rotary Screw 102 358.7 10 167 Shell & Tube HFC-407C 20	Rotary Screw 123 432.5 10 198 Shell & Tube HFC-407C 20
COMPRESSOR CAPACITY <sup>2</sup> CONDENSER  EVAPORATOR REFRIGERANT <sup>3</sup>	Type Tons KW # of FANS MODEL TYPE  HP GPM	Tandem Scroll 36.7 135.1 4 056 Brazed Plate HFC-410A 7.5 96	Tandem Scroll 46.4 164.3 4 074 Brazed Plate HFC-410A 7.5 120	Tandem Scroll 60.7 209.6 6 096 Brazed Plate HFC-410A 7.5	Rotary Screw 73 256.7 8 118 Shell & Tube HFC-407C 10 175	Rotary Screw 94 330.5 8 157 Shell & Tube HFC-407C 15 226	Rotary Screw 102 358.7 10 167 Shell & Tube HFC-407C 20 245	Rotary Screw 123 432.5 10 198 Shell & Tube HFC-407C 20 312
COMPRESSOR CAPACITY <sup>2</sup> CONDENSER  EVAPORATOR REFRIGERANT <sup>3</sup> PROCESS PUMP	Type Tons KW # of FANS MODEL TYPE  HP GPM PSI (water)	Tandem Scroll 36.7 135.1 4 056 Brazed Plate HFC-410A 7.5 96 65	Tandem Scroll 46.4 164.3 4 074 Brazed Plate HFC-410A 7.5 120 63	Tandem Scroll 60.7 209.6 6 096 Brazed Plate HFC-410A 7.5 144 60	Rotary Screw 73 256.7 8 118 Shell & Tube HFC-407C 10 175 60	Rotary Screw 94 330.5 8 157 Shell & Tube HFC-407C 15 226 70	Rotary Screw  102  358.7  10  167  Shell & Tube  HFC-407C  20  245  65	Rotary Screw 123 432.5 10 198 Shell & Tube HFC-407C 20 312 65
COMPRESSOR CAPACITY <sup>2</sup> CONDENSER  EVAPORATOR REFRIGERANT <sup>3</sup> PROCESS PUMP	Type Tons KW # of FANS MODEL TYPE  HP GPM PSI (water) HP	Tandem Scroll 36.7 135.1 4 056 Brazed Plate HFC-410A 7.5 96 65 Optional	Tandem Scroll 46.4 164.3 4 074 Brazed Plate HFC-410A 7.5 120 63 Optional	Tandem Scroll 60.7 209.6 6 096 Brazed Plate HFC-410A 7.5 144 60 5	Rotary Screw 73 256.7 8 118 Shell & Tube HFC-407C 10 175 60 5	Rotary Screw 94 330.5 8 157 Shell & Tube HFC-407C 15 226 70 7.5	Rotary Screw  102  358.7  10  167  Shell & Tube  HFC-407C  20  245  65  7.5	Rotary Screw 123 432.5 10 198 Shell & Tube HFC-407C 20 312 65 7.5
COMPRESSOR CAPACITY <sup>2</sup> CONDENSER  EVAPORATOR REFRIGERANT <sup>3</sup> PROCESS PUMP  EVAPORATOR PUMP	Type Tons KW # of FANS MODEL TYPE  HP GPM PSI (water) HP	Tandem Scroll 36.7 135.1 4 056 Brazed Plate HFC-410A 7.5 96 65 Optional	Tandem Scroll 46.4 164.3 4 074 Brazed Plate HFC-410A 7.5 120 63 Optional	Tandem Scroll 60.7 209.6 6 096 Brazed Plate HFC-410A 7.5 144 60 5	Rotary Screw 73 256.7 8 118 Shell & Tube HFC-407C 10 175 60 5	Rotary Screw 94 330.5 8 157 Shell & Tube HFC-407C 15 226 70 7.5	Rotary Screw  102  358.7  10  167  Shell & Tube  HFC-407C  20  245  65  7.5  245	Rotary Screw 123 432.5 10 198 Shell & Tube HFC-407C 20 312 65 7.5 312
COMPRESSOR CAPACITY <sup>2</sup> CONDENSER  EVAPORATOR REFRIGERANT <sup>3</sup> PROCESS PUMP  EVAPORATOR PUMP  STANDBY PUMP <sup>4</sup>	Type Tons KW # of FANS MODEL TYPE  HP GPM PSI (water) HP GPM	Tandem Scroll 36.7 135.1 4 056 Brazed Plate HFC-410A 7.5 96 65 Optional A	Tandem Scroll 46.4 164.3 4 074 Brazed Plate HFC-410A 7.5 120 63 Optional A	Tandem Scroll 60.7 209.6 6 096 Brazed Plate HFC-410A 7.5 144 60 5 144 A	Rotary Screw 73 256.7 8 118 Shell & Tube HFC-407C 10 175 60 5 175 A	Rotary Screw 94 330.5 8 157 Shell & Tube HFC-407C 15 226 70 7.5 226 A	Rotary Screw  102  358.7  10  167  Shell & Tube  HFC-407C  20  245  65  7.5  245  A	Rotary Screw 123 432.5 10 198 Shell & Tube HFC-407C 20 312 65 7.5 312 A
COMPRESSOR CAPACITY <sup>2</sup> CONDENSER  EVAPORATOR REFRIGERANT <sup>3</sup> PROCESS PUMP  EVAPORATOR PUMP  STANDBY PUMP <sup>4</sup>	Type Tons KW # of FANS MODEL TYPE  HP GPM PSI (water) HP GPM GALLONS	Tandem Scroll 36.7 135.1 4 056 Brazed Plate HFC-410A 7.5 96 65 Optional A	Tandem Scroll 46.4 164.3 4 074 Brazed Plate HFC-410A 7.5 120 63 Optional A	Tandem Scroll 60.7 209.6 6 096 Brazed Plate HFC-410A 7.5 144 60 5 144 A 350	Rotary Screw 73 256.7 8 118 Shell & Tube HFC-407C 10 175 60 5 175 A 350	Rotary Screw 94 330.5 8 157 Shell & Tube HFC-407C 15 226 70 7.5 226 A 350	Rotary Screw  102  358.7  10  167  Shell & Tube  HFC-407C  20  245  65  7.5  245  A  350	Rotary Screw 123 432.5 10 198 Shell & Tube HFC-407C 20 312 65 7.5 312 A 900
COMPRESSOR CAPACITY <sup>2</sup> CONDENSER  EVAPORATOR REFRIGERANT <sup>3</sup> PROCESS PUMP  EVAPORATOR PUMP  STANDBY PUMP <sup>4</sup> TANK	Type Tons KW # of FANS MODEL TYPE  HP GPM PSI (water) HP GPM GALLONS CONSTRUCTION <sup>5</sup>	Tandem Scroll 36.7 135.1 4 056 Brazed Plate HFC-410A 7.5 96 65 Optional A 130 PE	Tandem Scroll 46.4 164.3 4 074 Brazed Plate HFC-410A 7.5 120 63 Optional A 130 PE	Tandem Scroll 60.7 209.6 6 096 Brazed Plate HFC-410A 7.5 144 60 5 144 A 350 SS	Rotary Screw 73 256.7 8 118 Shell & Tube HFC-407C 10 175 60 5 175 A 350 SS	Rotary Screw 94 330.5 8 157 Shell & Tube HFC-407C 15 226 70 7.5 226 A 350 SS	Rotary Screw  102  358.7  10  167  Shell & Tube  HFC-407C  20  245  65  7.5  245  A  350  SS	Rotary Screw 123 432.5 10 198 Shell & Tube HFC-407C 20 312 65 7.5 312 A 900 SS
COMPRESSOR CAPACITY <sup>2</sup> CONDENSER  EVAPORATOR REFRIGERANT <sup>3</sup> PROCESS PUMP  EVAPORATOR PUMP  STANDBY PUMP <sup>4</sup> TANK  CONNECTIONS	Type Tons KW # of FANS MODEL TYPE  HP GPM PSI (water) HP GPM GALLONS CONSTRUCTION <sup>5</sup> NPT/FLANGED	Tandem Scroll 36.7 135.1 4 056 Brazed Plate HFC-410A 7.5 96 65 Optional A 130 PE 2" N	Tandem Scroll 46.4 164.3 4 074 Brazed Plate HFC-410A 7.5 120 63 Optional A 130 PE 3" F	Tandem Scroll 60.7 209.6 6 096 Brazed Plate HFC-410A 7.5 144 60 5 144 A 350 SS 3" F	Rotary Screw 73 256.7 8 118 Shell & Tube HFC-407C 10 175 60 5 175 A 350 SS 4" F	Rotary Screw 94 330.5 8 157 Shell & Tube HFC-407C 15 226 70 7.5 226 A 350 SS 4" F	Rotary Screw  102  358.7  10  167  Shell & Tube  HFC-407C  20  245  65  7.5  245  A  350  SS  4" F	Rotary Screw 123 432.5 10 198 Shell & Tube HFC-407C 20 312 65 7.5 312 A 900 SS 4" F
COMPRESSOR CAPACITY <sup>2</sup> CONDENSER  EVAPORATOR REFRIGERANT <sup>3</sup> PROCESS PUMP  EVAPORATOR PUMP  STANDBY PUMP <sup>4</sup> TANK  CONNECTIONS	Type Tons KW # of FANS MODEL TYPE  HP GPM PSI (water) HP GPM GALLONS CONSTRUCTION <sup>5</sup> NPT / FLANGED HEIGHT	Tandem Scroll 36.7 135.1 4 056 Brazed Plate HFC-410A 7.5 96 65 Optional A 130 PE 2" N 86	Tandem Scroll 46.4 164.3 4 074 Brazed Plate HFC-410A 7.5 120 63 Optional A 130 PE 3" F 86	Tandem Scroll 60.7 209.6 6 096 Brazed Plate HFC-410A 7.5 144 60 5 144 A 350 SS 3" F	Rotary Screw 73 256.7 8 118 Shell & Tube HFC-407C 10 175 60 5 175 A 350 SS 4" F	Rotary Screw 94 330.5 8 157 Shell & Tube HFC-407C 15 226 70 7.5 226 A 350 SS 4" F	Rotary Screw  102  358.7  10  167  Shell & Tube  HFC-407C  20  245  65  7.5  245  A  350  SS  4" F	Rotary Screw  123  432.5  10  198  Shell & Tube  HFC-407C  20  312  65  7.5  312  A  900  SS  4" F
COMPRESSOR CAPACITY <sup>2</sup> CONDENSER  EVAPORATOR REFRIGERANT <sup>3</sup> PROCESS PUMP  EVAPORATOR PUMP  STANDBY PUMP <sup>4</sup> TANK  CONNECTIONS	Type Tons KW # of FANS MODEL TYPE  HP GPM PSI (water) HP GPM GALLONS CONSTRUCTION <sup>5</sup> NPT / FLANGED HEIGHT WIDTH	Tandem Scroll 36.7 135.1 4 056 Brazed Plate HFC-410A 7.5 96 65 Optional A 130 PE 2" N 86 54	Tandem Scroll 46.4 164.3 4 074 Brazed Plate HFC-410A 7.5 120 63 Optional A 130 PE 3" F 86 90	Tandem Scroll 60.7 209.6 6 096 Brazed Plate HFC-410A 7.5 144 60 5 144 A 350 SS 3" F 99	Rotary Screw 73 256.7 8 118 Shell & Tube HFC-407C 10 175 60 5 175 A 350 SS 4" F 99 90	Rotary Screw 94 330.5 8 157 Shell & Tube HFC-407C 15 226 70 7.5 226 A 350 SS 4" F 99	Rotary Screw  102  358.7  10  167  Shell & Tube  HFC-407C  20  245  65  7.5  245  A  350  SS  4" F  99  90	Rotary Screw 123 432.5 10 198 Shell & Tube HFC-407C 20 312 65 7.5 312 A 900 SS 4" F 99
COMPRESSOR CAPACITY <sup>2</sup> CONDENSER  EVAPORATOR REFRIGERANT <sup>3</sup> PROCESS PUMP  EVAPORATOR PUMP  STANDBY PUMP <sup>4</sup> TANK  CONNECTIONS DIMENSIONS <sup>8</sup> (inches)	Type Tons KW # of FANS MODEL TYPE  HP GPM PSI (water) HP GPM GALLONS CONSTRUCTION <sup>5</sup> NPT / FLANGED HEIGHT WIDTH LENGTH STANDARD	Tandem Scroll 36.7 135.1 4 056 Brazed Plate HFC-410A 7.5 96 65 Optional A 130 PE 2" N 86 54	Tandem Scroll 46.4 164.3 4 074 Brazed Plate HFC-410A 7.5 120 63 Optional A 130 PE 3" F 86 90 122	Tandem Scroll 60.7 209.6 6 096 Brazed Plate HFC-410A 7.5 144 60 5 144 A 350 SS 3" F 99 90 186	Rotary Screw 73 256.7 8 118 Shell & Tube HFC-407C 10 175 60 5 175 A 350 SS 4" F 99 90 240	Rotary Screw 94 330.5 8 157 Shell & Tube HFC-407C 15 226 70 7.5 226 A 350 SS 4" F 99 90 240	Rotary Screw  102  358.7  10  167  Shell & Tube  HFC-407C  20  245  65  7.5  245  A  350  SS  4" F  99  90  300	Rotary Screw 123 432.5 10 198 Shell & Tube HFC-407C 20 312 65 7.5 312 A 900 SS 4" F 99 90 300
COMPRESSOR CAPACITY <sup>2</sup> CONDENSER  EVAPORATOR REFRIGERANT <sup>3</sup> PROCESS PUMP  EVAPORATOR PUMP  STANDBY PUMP <sup>4</sup> TANK  CONNECTIONS DIMENSIONS <sup>6</sup> (inches)	Type Tons KW # of FANS MODEL TYPE  HP GPM PSI (water) HP GPM GALLONS CONSTRUCTION <sup>5</sup> NPT / FLANGED HEIGHT WIDTH LENGTH STANDARD	Tandem Scroll 36.7 135.1 4 056 Brazed Plate HFC-410A 7.5 96 65 Optional A 130 PE 2" N 86 54 186 M1	Tandem Scroll 46.4 164.3 4 074 Brazed Plate HFC-410A 7.5 120 63 Optional A 130 PE 3" F 86 90 122 M1	Tandem Scroll 60.7 209.6 6 096 Brazed Plate HFC-410A 7.5 144 60 5 144 A 350 SS 3" F 99 90 186 M1	Rotary Screw 73 256.7 8 118 Shell & Tube HFC-407C 10 175 60 5 175 A 350 SS 4" F 99 90 240 MZC	Rotary Screw 94 330.5 8 157 Shell & Tube HFC-407C 15 226 70 7.5 226 A 350 SS 4" F 99 90 240 MZC	Rotary Screw  102  358.7  10  167  Shell & Tube  HFC-407C  20  245  65  7.5  245  A  350  SS  4" F  99  90  300  MZC	Rotary Screw 123 432.5 10 198 Shell & Tube HFC-407C 20 312 65 7.5 312 A 900 SS 4" F 99 90 300 MZC
COMPRESSOR CAPACITY <sup>2</sup> CONDENSER  EVAPORATOR REFRIGERANT <sup>3</sup> PROCESS PUMP  EVAPORATOR PUMP  STANDBY PUMP <sup>4</sup> TANK  CONNECTIONS DIMENSIONS <sup>6</sup> (inches)	Type Tons KW # of FANS MODEL TYPE  HP GPM PSI (water) HP GPM  GALLONS CONSTRUCTION <sup>5</sup> NPT / FLANGED HEIGHT WIDTH LENGTH STANDARD FLA (460v)	Tandem Scroll 36.7 135.1 4 056 Brazed Plate HFC-410A 7.5 96 65 Optional A 130 PE 2" N 86 54 186 M1 87.5	Tandem Scroll 46.4 164.3 4 074 Brazed Plate HFC-410A 7.5 120 63 Optional A 130 PE 3" F 86 90 122 M1 109.2	Tandem Scroll 60.7 209.6 6 096 Brazed Plate HFC-410A 7.5 144 60 5 144 A 350 SS 3" F 99 90 186 M1 157.2	Rotary Screw 73 256.7 8 118 Shell & Tube HFC-407C 10 175 60 5 175 A 350 SS 4" F 99 90 240 MZC 214	Rotary Screw 94 330.5 8 157 Shell & Tube HFC-407C 15 226 70 7.5 226 A 350 SS 4" F 99 90 240 MZC 242	Rotary Screw  102  358.7  10  167  Shell & Tube  HFC-407C  20  245  65  7.5  245  A  350  SS  4" F  99  90  300  MZC  291	Rotary Screw  123  432.5  10  198  Shell & Tube  HFC-407C  20  312  65  7.5  312  A  900  SS  4" F  99  90  300  MZC  321

#### 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.
- ${\bf 4.\;A=standby\;pump\;is\;available\;for\;this\;model.\;N/A=Standby\;pump\;is\;not\;available\;for\;this\;unit.}$
- 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 condenser. Optional standby pumps, larger pumps or alternate condensers may change this rating. Do not use for construction.



# **SPECIFICATIONS**

### OACS Central Liquid Chillers: 20 - 210 Tons Dual Zone Units

MODEL <sup>1</sup>	OACS-	20D-MZC-2P	30D-MZC-2P	40D-MZC-2P	50D-MZC-2P	60D-MZC-2P	
COMPRESSOR	Туре	Scroll	Scroll	Scroll	Scroll	Scroll	
# OF ZONES		2	2	2	2	2	
CAPACITY <sup>2</sup>	Tons	19.6	29	37	46.2	60	
	KW	68.8	101.8	129.8	162.1	210.5	
CONDENSER	# of FANS	2	4	4	6	6	
	MODEL	(2)017	(2)025	(2)032	(2)041	(2)050	
EVAPORATOR	TYPE	Brazed Plate	Brazed Plate	Brazed Plate	Brazed Plate	Brazed Plate	
REFRIGERANT <sup>3</sup>		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 <sup>4</sup>		A	A	A	A	A	
TANK	GALLONS	130	130	130	130	350	
	CONSTRUCTION <sup>5</sup>	PE	PE	PE	PE	SS	
CONNECTIONS	NPT / FLANGED	2" N	2" N	2" N	3" N	3" N	
DIMENSIONS <sup>6</sup> (inches)	HEIGHT	99	99	99	99	99	
	WIDTH	96	96	96	96	96	
	LENGTH	78	132	132	186	186	
CONTROL	STANDARD	MZC	MZC	MZC	MZC	MZC	
SYSTEM AMPERAGE <sup>7</sup>	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 #	926	8009	8109	8209	8309	8409	
1							
MODEL <sup>1</sup>	OACS-	80D-MZC-2P	100D-MZC-2P	120D-MZC-2P	150D-MZC-2P	190D-MZC-2P	210D-MZC-2P
COMPRESSOR	OACS -	Tandem Scroll	Tandem Scroll	Tandem Scroll	Rotary Screw	Rotary Screw	Rotary Screw
COMPRESSOR # OF ZONES	Туре	Tandem Scroll	Tandem Scroll	Tandem Scroll	Rotary Screw	Rotary Screw	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 <sup>2</sup>	Tons KW	Tandem Scroll 2 73.4 257.6	Tandem Scroll 2 93.7 328.7	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
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 14	Rotary Screw 2 188 661.1	2 204 717.4 14
COMPRESSOR # OF ZONES CAPACITY <sup>2</sup> 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
COMPRESSOR # OF ZONES CAPACITY <sup>2</sup> 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
COMPRESSOR # OF ZONES CAPACITY <sup>2</sup> CONDENSER  EVAPORATOR REFRIGERANT <sup>3</sup>	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
COMPRESSOR # OF ZONES CAPACITY <sup>2</sup> 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
COMPRESSOR # OF ZONES CAPACITY <sup>2</sup> CONDENSER  EVAPORATOR REFRIGERANT <sup>3</sup>	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 <sup>2</sup> CONDENSER  EVAPORATOR REFRIGERANT <sup>3</sup> 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
COMPRESSOR # OF ZONES CAPACITY <sup>2</sup> CONDENSER  EVAPORATOR REFRIGERANT <sup>3</sup>	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	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 <sup>2</sup> CONDENSER  EVAPORATOR REFRIGERANT <sup>3</sup> 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 5 192	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 15 451	Rotary Screw 2 204 717.4 14 (2)135 Shell & Tube HFC-407C 30 490 60 15
COMPRESSOR # OF ZONES CAPACITY <sup>2</sup> CONDENSER  EVAPORATOR REFRIGERANT <sup>3</sup> PROCESS PUMP  EVAPORATOR PUMP  STANDBY PUMP <sup>4</sup>	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 <sup>2</sup> CONDENSER  EVAPORATOR REFRIGERANT <sup>3</sup> PROCESS PUMP  EVAPORATOR PUMP	Type  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	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	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 <sup>2</sup> CONDENSER  EVAPORATOR REFRIGERANT <sup>3</sup> PROCESS PUMP  EVAPORATOR PUMP  STANDBY PUMP <sup>4</sup>	Type  Tons  KW  # of FANS  MODEL  TYPE  HP  GPM  PSI (water)  HP  GPM  GALLONS  CONSTRUCTION <sup>5</sup>	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 <sup>2</sup> CONDENSER  EVAPORATOR REFRIGERANT <sup>3</sup> PROCESS PUMP  EVAPORATOR PUMP  STANDBY PUMP <sup>4</sup> TANK	Tope  Tons  KW  # of FANS  MODEL  TYPE  HP  GPM  PSI (water)  HP  GALLONS  CONSTRUCTION <sup>5</sup> 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 S S 6° F
COMPRESSOR # OF ZONES CAPACITY <sup>2</sup> CONDENSER  EVAPORATOR REFRIGERANT <sup>3</sup> PROCESS PUMP  EVAPORATOR PUMP  STANDBY PUMP <sup>4</sup> TANK  CONTROL	Tope  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 <sup>2</sup> CONDENSER  EVAPORATOR REFRIGERANT <sup>3</sup> PROCESS PUMP  EVAPORATOR PUMP  STANDBY PUMP <sup>4</sup> TANK	Type  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 <sup>2</sup> CONDENSER  EVAPORATOR REFRIGERANT <sup>3</sup> PROCESS PUMP  EVAPORATOR PUMP  STANDBY PUMP <sup>4</sup> TANK  CONTROL	Type  Tons KW # of FANS MODEL TYPE  HP GPM PSI (water) HP GPM  GALLONS CONSTRUCTIONS 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	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 <sup>2</sup> CONDENSER  EVAPORATOR REFRIGERANT <sup>3</sup> PROCESS PUMP  EVAPORATOR PUMP  STANDBY PUMP <sup>4</sup> TANK  CONTROL DIMENSIONS <sup>5</sup> (inches)	Type  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 <sup>2</sup> CONDENSER  EVAPORATOR REFRIGERANT <sup>3</sup> PROCESS PUMP  EVAPORATOR PUMP  STANDBY PUMP <sup>4</sup> TANK  CONTROL DIMENSIONS <sup>5</sup> (inches)	Type  Tons  KW  # of FANS  MODEL  TYPE  HP  GPM  PSI (water)  HP  GPM  GALLONS  CONSTRUCTIONS  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
COMPRESSOR # OF ZONES CAPACITY <sup>2</sup> CONDENSER  EVAPORATOR REFRIGERANT <sup>3</sup> PROCESS PUMP  EVAPORATOR PUMP  STANDBY PUMP <sup>4</sup> TANK  CONTROL DIMENSIONS <sup>6</sup> (inches)	Type  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 condition. 7. FLE-x full load amps with standard pumps and condenser. RLA: run load amps with standard pumps and condensers may change his ration. Due not use for condensers may change his ration. Due not use for condensers. alternate condensers may change this rating. Do not use for construction.



ADVANTAGE PRODUCTS: TEMPERATURE CONTROLLERS · PORTABLE CHILLERS · CENTRAL CHILLERS · PUMP TANK STATIONS · TOWER SYSTEMS · FILTERS