

MLC-SC Air-Cooled Scroll Chillers 100 – 285 Tons

OUR BUSINESS IS COOLING YOURS™

motivaircorp.com



When commercial grade isn't enough

Businesses functioning in today's advanced industrial manufacturing and mission critical environments rely on chiller systems to provide a reliable source of chilled water which can improve overall system uptime and efficiencies.

Every critical cooling application is unique in its own way which is why the Motivair[®] MLC-SC scroll chiller range has been designed to accommodate a wide range of operating points and customization based specifically on the needs of the customer. No other air-cooled chiller offers such a broad range of features and benefits that can be used in combination to create a chiller best suited for your business's needs.

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Designed for a Purpose...



SCROLL COMPRESSORS

Multiple high efficiency scroll compressors with R-410A refrigerant. Designed to operate at high efficiency across the entire operating range with lower sound and vibration than traditional compressors. Unique scroll compressor design allows for resistance to liquid slugging.



CONDENSER FAN & MOTORS

Each fan features Electronically Commutated (EC) variable speed motor technology, globally recognized as the most efficient axial fans available in today's HVAC market.

More efficient than VFD speed control, EC motors offer the highest efficiencies and added chiller redundancy. These exceptionally reliable motors feature a reversed stator and rotor, which eliminates the traditional fan motor shaft. The outer shell of the motor is the rotating body, to which the fan blades are bolted. This unique arrangement reduces torque stress on the blades, eliminates fan blade stress fractures, maximizes airflow and maintains efficiency over the entire fan performance curve.

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CONDENSER & FREE COOLING OPTION

V-Coil profile constructed from seamless copper tubes expanded into aluminum fins creates a high efficiency design with minimal pressure drop. Coils are easily maintained with access through removable panels.

Optional Free-Cooling features exclusive integrated condenser/free-cooling coil with ultra-low pressure drop and inherent redundancy.

Modular design creates opportunities for custom coil configurations.



EVAPORATION

Shell and tube evaporator features two independent refrigeration circuits (optional 3 circuit design available). Low pressure drop design on both the water and refrigerant circuits creates maximum efficiency. Custom profile options allow for a wide operating range under various design conditions.

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Application Defined Options



OPTIONAL DUPLEX PUMPS

- Simplex (1) Pump Package
- Duplex (2) Pump Package
- Storage Tank
- 3x Refrigeration Circuits
- Low Noise Package
- Ultra Low Noise Package
- High Ambient Package

- Stainless Steel Cabinet Construction
- Condenser Coil Coating
- Security Guards for Open Areas
- Integrated Free-Cooling System



OPTIONAL STORAGE TANK

STANDARD FEATURES:

- R-410A Refrigerant
- Factory Installed Flow Switch
- Locking Disconnect Switch
- Phase and Power Monitoring
- Advanced PLC Control System
- Heavy Duty Galvanized Steel Frame with Baked Powder Epoxy Coat Finish
- Designed for Easy Service Access
- Electrical Panel Heating & Cooling System

OPTIONAL 3X REFRIGERATION CIRCUITS



Integrated Free-Cooling: The Ultimate Solution for Optimal Energy Savings

The Motivair[®] MLC-SC-FC chillers with integrated "Free-Cooling" are designed to provide the owner with optimal performance, year round, in varying ambient temperatures. This "Free-Cooling" option, available on all MLC-SC models and comes standard with Motivair's advanced PLC control package – a unique single package for year-round energy savings.

The high efficiency scroll compressor plant is designed to cool the designated heat load during summer months. When ambient temperatures fall overnight or during cooler seasonal weather, the integrated "Free-Cooling" system is automatically activated.

The system operates by directing the return chilled glycol through the "Free-Cooling" coil, before it enters the evaporator. This is achieved via an automatic motorized valve, controlled by the PLC, whenever the ambient falls below the return chilled glycol temperature set point. The glycol is either partially or completely cooled in the "Free-Cooling" coil for maximum energy savings.

As a result, less mechanical refrigeration is required to achieve the chilled glycol set point, and the scroll compressors are staged down and eventually turned off by the PLC, which continuously monitors the system. Energy savings in areas with cooler winter months are

substantial. The ability to allow the compressors to stage off in cooler weather further drives overall chiller efficiencies. Wear and tear on chiller components is dramatically reduced, due to fewer start-ups and running hours during winter months.

Automatic switching between mechanical cooling and "Free-Cooling" is seamless, which allows optimal performance year round. As a general rule of thumb, "Free-Cooling" savings more than pay for the initial investment in the first year of operation!

THE PIONEER OF FREE-COOLING CHILLERS

When Maximum Uptime And Lowest TCO Matter Most

- MLC-FC Chiller Range has been designed, built and tested specifically as packaged Free Cooling Chillers
- ETL-Tested and Listed to current UL & CSA standards

PLC Controls

WHEN MAXIMUM UPTIME AND LOWEST TCO MATTER MOST

The MLC-SC range features the PCO5 control system, which is an advanced Programmable Logic Controller, with a base-operating platform that can be easily modified to adapt to various applications.

A multi-character LCD display, and easy to follow directional prompts, gives the operator complete control over all chiller functions. Multiple digital and analog inputs as well as digital and PWM outputs offer unparalleled control possibilities.



CONTROL FEATURES:

- Highly visible LCD display
- Tactile push-buttons
- Adjustable alarm set points
- °F/°C selectable
- Compressor Lead/Lag control
- Anti-Compressor short cycle
- Compressor failure alarm
- Adjustable water set point
- Supply water temp. display
- Return water temp. display
- Low water temperature alarm
- Freeze alarm
- Low water/glycol flow alarm
- High water temperature alarm

- Low refrigeration pressure alarm
- High refrigeration pressure alarm
- Irregular voltage alarm
- General Alarm Relay
- Remote Start/Stop Relay
- Manual alarm reset
- RS 232/RS 485
- communication Ethernet Communication

PC05 Display PC05

 LON, BACNET, MODBUS communication (optional) MLC & MLC-FC CONTROLS





BOARD INTELLIGENT CHILLER RESPONSE

The latest generation of Motivair[®] software allows the chillers to respond to system changes in real time and to adjust performance accordingly. The proprietary control logic in the MLC-SC or MLC-SC-FC chillers provides:

- Automatic restart after a power outage
- Rapid restart of refrigeration compressors after a power outage, while affording maximum compressor protection
- Selective decision on which compressor(s) to start first based on run-time and fastest possible response to system load
- Liquid injection to the compressors under high ambient operation
- Seamless transition between refrigeration and optional Free Cooling mode based on system load, chilled water temperature, ambient temperatures and installation profile.

CENTURION MONITORING SYSTEM

This optional feature empowers the owner by providing a wide range of safeties and access to critical data from a remote location via cellular service, outside of the customer's firewall.

If the chiller is operating in an unsafe condition or in the unlikely event of an alarm, designated contacts are immediately notified by the chiller of its condition. The pending alarm can then be avoided or quickly corrected.

FEATURES:

- Data trending
- Password protected multi-level access
- Adjustable warning thresholds

MLC-SC/MLC-SC-FC Specifications

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Axial EC Fons & Copper Tube with Aluminum Fin Condenser Fan Electionic fon Speed Control TYPE EC Fan Countity QTV 4 6 6 8 8 10 10 12 12 14 18 18 18 Fan Total Absorbed Power WV 10.2 15.4 15.4 20.5 20.5 25.6 20.7 35.8 46.1 46.1 46.1 Fan Total Absorbed Current A 15.6 23.4 23.4 31.2 31.2 39.0 39.0 46.8 45.40 70.2 70.4 73.7 72.1 71.9 73.6 74.7 75.6 74.1 75.4 76.4 Electoric fueload contron concenser Electoric fueload contron concenser Electoric fuel	Capacity Steps EVAPORATOR Nominal Flow Rate Pressure Drops [Evaporator + Valves + Piping] F.C. Pressure Drop [F.C. Cail + Evap + Valves + Piping] PUMP & TANK (OPTIONAL) Maximum Pump Absorbed Power Maximum Pump Absorbed Current	A QTY QTY GPM PSI PSI KW A	119 4 4 172 11 18 7.5 13.2	144 4 227 11 20 11 20	171 4 4 253 12 19 19 11 20.3	185 4 4 298 11 20 Simplex o 15 26.9	215 4 4 327 12 23 r Duplex Pur 15 26.9	249 4 354 12 21 mp Options 18.5 32.1	2 263 6 4 Shell & T 403 12 22 Carbon Sk 18.5 32.1	2 29 6 4 4 42 42 12 20 eel or Stai 18 32	2 8 2 0 nless Steel .1	308 6 4 4 76 11 21 7 Tank Optio 22 39.5	339 6 4 504 11 19 ns 22 39.5	357 6 4 551 12 22 30 52	416 9 6 670 13 22 30 52	461 9 6 714 13 23 CF CF	509 9 6 756 13 21 CF CF	
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Fan Quantity QTY 4 6 6 8 8 8 10 10 12 12 14 18 18 18 Fan Total Absorbed Power WW 10.2 15.4 15.4 20.5 20.5 20.5 25.6 25.6 30.7 30.7 35.8 46.1 46.1 46.1 Fan Total Absorbed Current A 15.6 23.4 23.4 31.2 31.2 39.0 39.0 46.8 46.8 54.6 70.2 <td>Capacity Steps EVAPORATOR Nominal Flow Rate Pressure Drops (Evaporator + Valves + Piping) F.C. Pressure Drop (F.C. Cal + Evap + Valves + Piping) PUMP & TANK (OPTIONAL) Maximum Pump Absorbed Power Maximum Pump Absorbed Current Available External Pressure (Single) Tank Volume</td> <td>A QTY QTY GPM PSI PSI KW A PSI</td> <td>119 4 4 172 11 18 7.5 13.2 32.2</td> <td>144 4 227 11 20 11 20 3 36.9</td> <td>171 4 4 253 12 19 19 11 20.3 35.0</td> <td>185 4 4 298 11 20 Simplex o 15 26.9 40.3</td> <td>215 4 4 327 12 23 r Duplex Pur 15 26.9 36.7</td> <td>249 4 354 12 21 mp Options 18.5 32.1 33.6</td> <td>2 263 6 4 Shell & Tr 403 12 22 22 Carbon Sh 18.5 32.1 31.8</td> <td>2 29 6 4 42 42 12 12 12 16 18 18 32 33 33 33</td> <td>n 8 2 0 nless Steel .1 .2 2</td> <td>308 6 4 476 11 21 Tonk Optic 22 39.5 42.7</td> <td>339 6 4 504 11 19 ns 22 39.5 43.5</td> <td>357 6 4 551 12 22 30 52 38.6</td> <td>416 9 6 70 13 22 30 52 31.3</td> <td>461 9 6 714 13 23 CF CF CF CF</td> <td>509 9 6 756 13 21 CF CF CF CF</td>	Capacity Steps EVAPORATOR Nominal Flow Rate Pressure Drops (Evaporator + Valves + Piping) F.C. Pressure Drop (F.C. Cal + Evap + Valves + Piping) PUMP & TANK (OPTIONAL) Maximum Pump Absorbed Power Maximum Pump Absorbed Current Available External Pressure (Single) Tank Volume	A QTY QTY GPM PSI PSI KW A PSI	119 4 4 172 11 18 7.5 13.2 32.2	144 4 227 11 20 11 20 3 36.9	171 4 4 253 12 19 19 11 20.3 35.0	185 4 4 298 11 20 Simplex o 15 26.9 40.3	215 4 4 327 12 23 r Duplex Pur 15 26.9 36.7	249 4 354 12 21 mp Options 18.5 32.1 33.6	2 263 6 4 Shell & Tr 403 12 22 22 Carbon Sh 18.5 32.1 31.8	2 29 6 4 42 42 12 12 12 16 18 18 32 33 33 33	n 8 2 0 nless Steel .1 .2 2	308 6 4 476 11 21 Tonk Optic 22 39.5 42.7	339 6 4 504 11 19 ns 22 39.5 43.5	357 6 4 551 12 22 30 52 38.6	416 9 6 70 13 22 30 52 31.3	461 9 6 714 13 23 CF CF CF CF	509 9 6 756 13 21 CF CF CF CF	
Individual probability of the source of t	Capacity Steps EVAPORATOR Nominal Flow Rate Pressure Drops (Evaporator + Valves + Piping) F.C. Pressure Drop (F.C. Cal + Evap + Valves + Piping) PUMP & TANK (OPTIONAL) Maximum Pump Absorbed Power Maximum Pump Absorbed Current Available External Pressure (Single) Tank Volume FANS & CONDENSER	A QTY QTY FSI PSI KW A PSI GAL	119 4 4 172 11 18 7.5 13.2 32.2	144 4 227 11 20 11 20 3 36.9	171 4 4 253 12 19 19 11 20.3 35.0	185 4 4 298 11 20 Simplex o 15 26.9 40.3	215 4 4 327 12 23 r Duplex Pur 15 26.9 36.7	249 4 354 12 21 mp Options 18.5 32.1 33.6	2 263 6 4 5hell & T 403 12 22 22 Carbon Sh 18.5 32.1 31.8 132 e with Alun	2 29 6 4 42 42 12 12 12 16 18 18 32 33 33 33	n 8 2 0 nless Steel .1 .2 2	308 6 4 476 11 21 Tonk Optic 22 39.5 42.7	339 6 4 504 11 19 ns 22 39.5 43.5	357 6 4 551 12 22 30 52 38.6	416 9 6 70 13 22 30 52 31.3	461 9 6 714 13 23 CF CF CF CF	509 9 6 756 13 21 CF CF CF CF	
for Total Absorbed Current A 15.6 23.4 23.4 31.2 31.2 31.2 39.0 39.0 46.8 46.8 54.6 70.2 70.2 70.2 70.2 Total Air Flow CFM 45,203 67,804 67,804 90,406 90,406 90,406 113,007 113,007 135,608 135,608 158,210 203,412	Capacity Steps EVAPORATOR Nominal Flow Rate Pressure Drops (Evaporator + Valves + Piping) F.C. Pressure Drop (F.C. Cal + Evap + Valves + Piping) PUMP & TANK (OPTIONAL) Maximum Pump Absorbed Power Maximum Pump Absorbed Current Available External Pressure (Single) Tank Volume FANS & CONDENSER Fan Electronic Fan Speed Control	A QTY QTY PSI PSI KW A PSI GAL TYPE	119 4 172 11 18 7.5 13.2 32.2 79	144 4 227 11 20 11 20.3 36.9 100	171 4 253 12 19 11 20.3 35.0 100	185 4 4 298 11 20 Simplex o 15 26.9 40.3 132 Axi	215 4 4 327 12 23 r Duplex Pur 15 26.9 36.7 132 al EC Fans &	249 4 4 12 21 mp Options 18.5 32.1 33.6 132 Copper Tub	2 263 6 4 5hell & T 403 12 22 22 Carbon Sh 18.5 32.1 31.8 132 e with Alun EC	2 2 5 4 4 4 2 1 2 2 6 eel or Stai 18 32 33 33 13 13	1) 8 2 0 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	308 6 4 4 4 7 11 21 Tank Optic 22 39.5 42.7 159	339 6 4 504 11 19 ns 22 39.5 43.5 159	357 6 4 551 12 22 22 30 52 38.6 159	416 9 6 70 13 22 30 52 31.3 159	461 9 6 714 13 23 23 CF CF CF CF 159	509 9 6 756 13 21 CF CF CF CF 159	
Total Air Flow C.F.M. 45,203 67,804 67,804 90,406 90,406 913,007 113,007 135,608 135,608 158,210 203,412 <	Capacity Steps EVAPORATOR Nominal Flow Rate Pressure Drops (Evaporator + Valves + Piping) F.C. Pressure Drop (F.C. Col + Evap + Valves + Piping) PUMP & TANK (OPTIONAL) Maximum Pump Absorbed Power Maximum Pump Absorbed Current Available External Pressure (Single) Tank Volume FANS & CONDENSER Fan Electronic Fan Speed Control Fan Quantity	A QTY QTY PSI PSI KW A PSI GAL TYPE QTY	119 4 172 11 18 7.5 13.2 32.2 79 4	144 4 227 11 20 11 20.3 36.9 100	171 4 253 12 19 11 20.3 35.0 100	185 4 4 298 11 20 Simplex o 15 26.9 40.3 132 Axi	215 4 4 327 12 23 r Duplex Pur 15 26.9 36.7 132 al EC Fans & 8	249 4 4 12 21 mp Options 18.5 32.1 33.6 132 Copper Tub 8	2 263 6 4 5hell & T 403 12 22 22 Carbon Sh 18.5 32.1 31.8 132 e with Alun EC 10	2 2 2 5 6 4 4 4 2 2 2 7 2 7 2 7 2 7 2 7 2 7 2 7 3 3 3 3 3 3 3 3 3 13 13 13 13	1 8 2 0 1 5 5 .1 2 Condenser	308 6 4 4 4 7 11 21 Tank Optic 22 39.5 42.7 159 12	339 6 4 504 11 19 ns 22 39.5 43.5 159 12	357 6 4 551 12 22 30 52 38.6 159 14	416 9 6 70 13 22 30 52 31.3 159 18	461 9 6 714 13 23 23 CF CF CF CF 159 18	509 9 6 756 13 21 CF CF CF CF 159 18	
Distance measured in an open field at 33 feet from Condenser Sound Pressure Level DB(A) 68.1 70.6 72.4 73.7 72.1 71.9 73.6 74.1 75.6 74.1 <th 7"7"7"7"7"7"7"7"7"7"7"7"7"7"7"7"7"7<="" colspa="7" td=""><td>Capacity Steps EVAPORATOR Nominal Flow Rate Pressure Drops (Evaporator + Valves + Piping) F.C. Pressure Drop (F.C. Cal + Evap + Valves + Piping) PUMP & TANK (OPTIONAL) Maximum Pump Absorbed Power Maximum Pump Absorbed Current Available External Pressure (Single) Tank Volume FANS & CONDENSER Fan Electronic Fan Speed Control Fan Quantity Fan Total Absorbed Power</td><td>A QTY QTY FSI PSI KW A PSI GAL TYPE QTY kW</td><td>119 4 4 172 11 18 7.5 13.2 32.2 79 4 10.2</td><td>144 4 227 11 20 11 20.3 36.9 100 6 15.4</td><td>171 4 253 12 19 11 20.3 35.0 100 6 15.4</td><td>185 4 298 11 20 Simplex o 15 26.9 40.3 132 Axi 8 8 20.5</td><td>215 4 4 327 12 23 r Duplex Pur 15 26.9 36.7 132 al EC Fans & 8 20.5</td><td>249 4 4 12 21 mp Options 18.5 32.1 33.6 132 Copper Tub 8 8 20.5</td><td>2 263 6 4 403 12 22 Carbon Str 18.5 32.1 31.8 132 e with Alun EC 10 25.6</td><td>2 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2</td><td>1 8 2 0 nless Steel .5 .1 2 Condenser 0 .6</td><td>308 6 4 4 4 7 11 21 Tank Optic 22 39.5 42.7 159 12 30.7</td><td>339 6 4 504 11 19 ns 22 39.5 43.5 159 12 30.7</td><td>357 6 4 551 12 22 30 52 38.6 159 14 35.8</td><td>416 9 6 70 13 22 30 52 31.3 159 18 46.1</td><td>461 9 6 714 13 23 23 CF CF CF CF 159 18 18 46.1</td><td>509 9 6 756 13 21 CF CF CF CF 159 18 18</td></th>	<td>Capacity Steps EVAPORATOR Nominal Flow Rate Pressure Drops (Evaporator + Valves + Piping) F.C. Pressure Drop (F.C. Cal + Evap + Valves + Piping) PUMP & TANK (OPTIONAL) Maximum Pump Absorbed Power Maximum Pump Absorbed Current Available External Pressure (Single) Tank Volume FANS & CONDENSER Fan Electronic Fan Speed Control Fan Quantity Fan Total Absorbed Power</td> <td>A QTY QTY FSI PSI KW A PSI GAL TYPE QTY kW</td> <td>119 4 4 172 11 18 7.5 13.2 32.2 79 4 10.2</td> <td>144 4 227 11 20 11 20.3 36.9 100 6 15.4</td> <td>171 4 253 12 19 11 20.3 35.0 100 6 15.4</td> <td>185 4 298 11 20 Simplex o 15 26.9 40.3 132 Axi 8 8 20.5</td> <td>215 4 4 327 12 23 r Duplex Pur 15 26.9 36.7 132 al EC Fans & 8 20.5</td> <td>249 4 4 12 21 mp Options 18.5 32.1 33.6 132 Copper Tub 8 8 20.5</td> <td>2 263 6 4 403 12 22 Carbon Str 18.5 32.1 31.8 132 e with Alun EC 10 25.6</td> <td>2 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2</td> <td>1 8 2 0 nless Steel .5 .1 2 Condenser 0 .6</td> <td>308 6 4 4 4 7 11 21 Tank Optic 22 39.5 42.7 159 12 30.7</td> <td>339 6 4 504 11 19 ns 22 39.5 43.5 159 12 30.7</td> <td>357 6 4 551 12 22 30 52 38.6 159 14 35.8</td> <td>416 9 6 70 13 22 30 52 31.3 159 18 46.1</td> <td>461 9 6 714 13 23 23 CF CF CF CF 159 18 18 46.1</td> <td>509 9 6 756 13 21 CF CF CF CF 159 18 18</td>	Capacity Steps EVAPORATOR Nominal Flow Rate Pressure Drops (Evaporator + Valves + Piping) F.C. Pressure Drop (F.C. Cal + Evap + Valves + Piping) PUMP & TANK (OPTIONAL) Maximum Pump Absorbed Power Maximum Pump Absorbed Current Available External Pressure (Single) Tank Volume FANS & CONDENSER Fan Electronic Fan Speed Control Fan Quantity Fan Total Absorbed Power	A QTY QTY FSI PSI KW A PSI GAL TYPE QTY kW	119 4 4 172 11 18 7.5 13.2 32.2 79 4 10.2	144 4 227 11 20 11 20.3 36.9 100 6 15.4	171 4 253 12 19 11 20.3 35.0 100 6 15.4	185 4 298 11 20 Simplex o 15 26.9 40.3 132 Axi 8 8 20.5	215 4 4 327 12 23 r Duplex Pur 15 26.9 36.7 132 al EC Fans & 8 20.5	249 4 4 12 21 mp Options 18.5 32.1 33.6 132 Copper Tub 8 8 20.5	2 263 6 4 403 12 22 Carbon Str 18.5 32.1 31.8 132 e with Alun EC 10 25.6	2 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2	1 8 2 0 nless Steel .5 .1 2 Condenser 0 .6	308 6 4 4 4 7 11 21 Tank Optic 22 39.5 42.7 159 12 30.7	339 6 4 504 11 19 ns 22 39.5 43.5 159 12 30.7	357 6 4 551 12 22 30 52 38.6 159 14 35.8	416 9 6 70 13 22 30 52 31.3 159 18 46.1	461 9 6 714 13 23 23 CF CF CF CF 159 18 18 46.1	509 9 6 756 13 21 CF CF CF CF 159 18 18
Sound Pressure Level DB(A) 68.1 70.6 70.3 70.5 72.4 73.7 72.1 71.9 73.6 74.7 75.6 74.1 75.4 76.4 Does not include optional pump(s) Power Circuit V/PH/HZ	Capacity Steps EVAPORATOR Nominal Flow Rate Pressure Drops [Evaporator + Valves + Piping] F.C. Pressure Drop [F.C. Cal + Evap + Valves + Piping] PUMP & TANK (OPTIONAL) Maximum Pump Absorbed Power Maximum Pump Absorbed Current Available External Pressure [Single] Tank Volume FANS & CONDENSER Fan Electronic Fan Speed Control Fan Quantity Fan Total Absorbed Power Fan Total Absorbed Current	A QTY QTY PSI PSI KW A PSI GAL TYPE QTY kW A	119 4 172 11 18 7.5 13.2 32.2 79 4 10.2 15.6	144 4 227 11 20 11 20.3 36.9 100 6 15.4 23.4	171 4 253 12 19 11 20.3 35.0 100 6 15.4 23.4	185 4 298 11 20 Simplex o 15 26,9 40,3 132 Axi 8 8 20,5 31,2	215 4 4 327 12 23 r Duplex Pur 15 26.9 36.7 132 al EC Fans & 8 20.5 31.2	249 4 4 12 21 mp Options 18.5 32.1 33.6 132 Copper Tub 8 8 20.5 31.2	2 263 6 4 Shell & Tr 403 12 22 Carbon Str 18.5 32.1 31.8 132 e with Alun EC 10 25.6 39.0	22 29 6 4 42 42 12 18 32 33 13 13 13 13 13 13 13 13 13 13 13 13	1 8 2 0 nless Steel 5 2 Condenser 0 .6 .0 .1	308 6 4 4 4 7 11 21 Tank Optic 22 39.5 42.7 159 12 30.7 46.8	339 6 4 504 11 19 ns 22 39.5 43.5 159 12 30.7 46.8	357 6 4 551 12 22 30 52 38.6 159 14 35.8 54.6	416 9 6 70 13 22 30 52 31.3 159 18 46.1 70.2	461 9 6 714 13 23 23 CF CF CF CF 159 18 46.1 70.2	509 9 6 756 13 21 CF CF CF CF 159 18 46.1 70.2	
Dees not include optional pump(s) Power Circuit V/PH/HZ 460/3/60 Full Load Current (FLA) FLA 135 167 194 216 246 280 302 330 354 386 412 486 531 579 Minimum Circuit Ampacity (MCA) MCA 143 176 205 228 260 296 313 342 367 400 426 498 544 593 Maximum Overcurrent Protection (MOP) MOP 172 212 248 274 314 358 357 391 418 457 486 544 596 650 DIMENSIONS & WEIGHTS Length IN 127 178 178 230 230 231 281 332 332 383 471 471 471 Width IN 87 87 87 87 87 87 87 87 87 87 87 87 87	Capacity Steps EVAPORATOR Nominal Flow Rate Pressure Drops [Evaporator + Valves + Piping] E.C. Pressure Drops [Evaporator + Valves + Piping] PUMP & TANK (OPTIONAL) Maximum Pump Absorbed Power Maximum Pump Absorbed Current Available External Pressure [Single] Tank Volume EANS & CONDENSER Fan Electronic Fan Speed Control Fan Guantity Fan Total Absorbed Power Fan Total Absorbed Current Total Aisorbed Current Total Aisorbed Current	A QTY QTY PSI PSI KW A PSI GAL TYPE QTY kW A	119 4 172 11 18 7.5 13.2 32.2 79 4 10.2 15.6	144 4 227 11 20 11 20.3 36.9 100 6 15.4 23.4	171 4 253 12 19 11 20.3 35.0 100 6 15.4 23.4	185 4 298 11 20 Simplex o 15 26.9 40.3 132 Axi 8 20.5 31.2 90,406	215 4 4 327 12 23 r Duplex Pur 15 26.9 36.7 132 al EC Fans & 8 20.5 31.2 90,406	249 4 4 12 21 mp Options 18.5 32.1 33.6 132 Copper Tub 8 8 20.5 31.2 90,406	2 263 6 4 Shell & Tr 403 12 22 Carbon Str 18.5 32.1 31.8 132 e with Alum EC 10 25.6 39.0 113,002	22 29 6 4 42 42 10 10 10 10 10 10 10 10 25 39 7 113,0	8 8 2 0 1 1 2 2 2 Condenser 0 6 0 0 1 3 0 1 3 1 2 2 2 2 0 1 3 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1	308 6 4 4 7 4 7 1 2 1 2 2 3 9.5 42.7 159 12 30.7 46.8 5,608	339 6 4 504 11 19 ns 22 39.5 43.5 159 12 30.7 46.8	357 6 4 551 12 22 30 52 38.6 159 14 35.8 54.6	416 9 6 70 13 22 30 52 31.3 159 18 46.1 70.2	461 9 6 714 13 23 23 CF CF CF CF 159 18 46.1 70.2	509 9 6 756 13 21 CF CF CF CF 159 18 46.1 70.2	
Power Circuit V/PH/HZ 460/3/60 Full Load Current (FLA) FLA 135 167 194 216 246 280 302 330 354 386 412 486 531 579 Minimum Circuit Ampacity (MCA) MCA 143 176 205 228 260 296 313 342 367 400 426 498 544 593 Maximum Overcurrent Protection (MOP) MOP 172 212 248 274 314 358 357 391 418 457 486 544 596 650 DIMENSIONS & WEIGHTS IN 127 178 178 230 230 230 281 332 332 383 471 471 471 Width IN 87 </td <td>Capacity Steps EVAPORATOR Nominal Flow Rate Pressure Drops (Evaporator + Valves + Piping) F.C. Pressure Drop (F.C. Cal + Evap + Valves + Piping) PUMP & TANK (OPTIONAL) Maximum Pump Absorbed Power Maximum Pump Absorbed Current Available External Pressure (Single) Tank Volume FANS & CONDENSER Fan Electronic Fan Speed Control Fan Quantity Fan Total Absorbed Power Fan Total Absorbed Current Total Absorbed Current Total Air Flow NOISE DATA</td> <td>A GTY GPM PSI PSI KW A PSI GAL TYPE GTY kW A CFM</td> <td>119 4 4 172 11 18 7.5 13.2 32.2 79 4 10.2 15.6 45,203</td> <td>144 4 227 11 20 11 20.3 36.9 100 6 15.4 23.4 67,804</td> <td>171 4 4 253 12 19 11 20.3 35.0 100 6 15.4 23.4 67,804</td> <td>185 4 4 298 11 20 Simplex c 15 26.9 40.3 132 Axi 8 20.5 31.2 90,406 D</td> <td>215 4 4 327 12 23 r Duplex Put 15 26.9 36.7 132 al EC Fons & 8 20.5 31.2 90,406 islonce measured</td> <td>249 4 4 354 12 21 mp Options 18.5 32.1 33.6 132 Copper Tub 8 8 20.5 31.2 90,406 wred in en</td> <td>2 263 6 4 Shell & Tr 403 12 22 Carbon Sh 18.5 32.1 31.8 132 e with Alum EC 10 25.6 39.0 113,007 open field a</td> <td>22 29 6 4 42 42 10 18 32 33 33 13 13 13 11 10 10 25 39 7 113,0 14 33 feet fi</td> <td>8 8 2 5 1 1 2 Condenser 0 .6 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0</td> <td>308 6 4 4 7 4 7 6 4 7 7 7 8 9 5 4 2 2 2 2 2 3 9 5 4 2 7 159 12 30.7 4 6 8 5 5 6 8 11 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1</td> <td>339 6 4 504 11 19 ns 22 39.5 43.5 159 12 30.7 46.8 135,608</td> <td>357 6 4 551 12 22 30 52 38.6 159 14 35.8 54.6 158,210</td> <td>416 9 6 70 13 22 30 52 31.3 159 18 46.1 70.2 203,412</td> <td>461 9 6 714 13 23 CF CF CF CF 159 18 18 46.1 70.2 203,412</td> <td>509 9 6 13 21 CF CF CF CF 159 18 18 46.1 70.2 203,412</td>	Capacity Steps EVAPORATOR Nominal Flow Rate Pressure Drops (Evaporator + Valves + Piping) F.C. Pressure Drop (F.C. Cal + Evap + Valves + Piping) PUMP & TANK (OPTIONAL) Maximum Pump Absorbed Power Maximum Pump Absorbed Current Available External Pressure (Single) Tank Volume FANS & CONDENSER Fan Electronic Fan Speed Control Fan Quantity Fan Total Absorbed Power Fan Total Absorbed Current Total Absorbed Current Total Air Flow NOISE DATA	A GTY GPM PSI PSI KW A PSI GAL TYPE GTY kW A CFM	119 4 4 172 11 18 7.5 13.2 32.2 79 4 10.2 15.6 45,203	144 4 227 11 20 11 20.3 36.9 100 6 15.4 23.4 67,804	171 4 4 253 12 19 11 20.3 35.0 100 6 15.4 23.4 67,804	185 4 4 298 11 20 Simplex c 15 26.9 40.3 132 Axi 8 20.5 31.2 90,406 D	215 4 4 327 12 23 r Duplex Put 15 26.9 36.7 132 al EC Fons & 8 20.5 31.2 90,406 islonce measured	249 4 4 354 12 21 mp Options 18.5 32.1 33.6 132 Copper Tub 8 8 20.5 31.2 90,406 wred in en	2 263 6 4 Shell & Tr 403 12 22 Carbon Sh 18.5 32.1 31.8 132 e with Alum EC 10 25.6 39.0 113,007 open field a	22 29 6 4 42 42 10 18 32 33 33 13 13 13 11 10 10 25 39 7 113,0 14 33 feet fi	8 8 2 5 1 1 2 Condenser 0 .6 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	308 6 4 4 7 4 7 6 4 7 7 7 8 9 5 4 2 2 2 2 2 3 9 5 4 2 7 159 12 30.7 4 6 8 5 5 6 8 11 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	339 6 4 504 11 19 ns 22 39.5 43.5 159 12 30.7 46.8 135,608	357 6 4 551 12 22 30 52 38.6 159 14 35.8 54.6 158,210	416 9 6 70 13 22 30 52 31.3 159 18 46.1 70.2 203,412	461 9 6 714 13 23 CF CF CF CF 159 18 18 46.1 70.2 203,412	509 9 6 13 21 CF CF CF CF 159 18 18 46.1 70.2 203,412	
Full 135 167 194 216 246 280 302 330 354 386 412 486 531 579 Minimum Circuit Ampacity (MCA) MCA 143 176 205 228 260 296 313 342 367 400 426 498 544 593 Maximum Overcurrent Protection (MOP) MOP 172 212 248 274 314 358 357 391 418 457 486 544 596 650 DIMENSIONS & WEIGHTS IN 127 178 178 230 230 230 281 281 332 332 383 471 471 471 Width IN 87	Capacity Steps EVAPORATOR Nominal Flow Rate Pressure Drops (Evaporator + Valves + Piping) E.C. Pressure Drop (E.C. Cal + Evap + Valves + Piping) PUMP & TANK (OPTIONAL) Maximum Pump Absorbed Power Maximum Pump Absorbed Current Available External Pressure (Single) Tank Volume FANS & CONDENSER Fan Electronic Fan Speed Control Fan Quantity Fan Total Absorbed Power Fan Total Absorbed Current Total Air Flow NOISE DATA Sound Pressure Level	A GTY GPM PSI PSI KW A PSI GAL TYPE GTY kW A CFM	119 4 4 172 11 18 7.5 13.2 32.2 79 4 10.2 15.6 45,203	144 4 227 11 20 11 20.3 36.9 100 6 15.4 23.4 67,804	171 4 4 253 12 19 11 20.3 35.0 100 6 15.4 23.4 67,804	185 4 4 298 11 20 Simplex c 15 26.9 40.3 132 Axi 8 20.5 31.2 90,406 D	215 4 4 327 12 23 r Duplex Put 15 26.9 36.7 132 al EC Fons & 8 20.5 31.2 90,406 islonce measured	249 4 4 354 12 21 mp Options 18.5 32.1 33.6 132 Copper Tub 8 8 20.5 31.2 90,406 wred in en	2 263 6 4 Shell & Tr 403 12 22 Carbon Sh 18.5 32.1 31.8 132 e with Alum EC 10 25.6 39.0 113,007 open field a	2 2 2 4 4 42 2 2 2 2 2 2 2 2 2 3 3 3 3 3	8 8 2 5 1 1 2 Condenser 0 .6 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	308 6 4 4 7 4 7 6 4 7 7 7 8 9 5 4 2 2 2 2 2 3 9 5 4 2 7 159 12 30.7 4 6 8 5 5 6 8 11 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	339 6 4 504 11 19 ns 22 39.5 43.5 159 12 30.7 46.8 135,608	357 6 4 551 12 22 30 52 38.6 159 14 35.8 54.6 158,210	416 9 6 70 13 22 30 52 31.3 159 18 46.1 70.2 203,412	461 9 6 714 13 23 CF CF CF CF 159 18 18 46.1 70.2 203,412	509 9 6 13 21 CF CF CF CF 159 18 18 46.1 70.2 203,412	
Maximum Overcurrent Protection (MOP) MOP 172 212 248 274 314 358 357 391 418 457 486 544 596 650 DIMENSIONS & WEIGHTS IN 127 178 178 230 230 230 281 281 332 332 383 471 471 471 Width IN 87 8	Capacity Steps EVAPORATOR Nominal Flow Rate Pressure Drops (Evaporator + Valves + Piping) E.C. Pressure Drop (E.C. Cal + Evap + Valves + Piping) PUMP & TANK (OPTIONAL) Maximum Pump Absorbed Power Maximum Pump Absorbed Current Available External Pressure (Single) Tank Volume FANS & CONDENSER Fan Electronic Fan Speed Control Fan Quantity Fan Total Absorbed Power fan Total Absorbed Power fan Total Absorbed Current Total Air Flow NOISE DATA Sound Pressure Level ELECTRICAL DATA	A QTY QTY PSI PSI KW A PSI GAL TYPE QTY KW A CFM DB(A)	119 4 4 172 11 18 7.5 13.2 32.2 79 4 10.2 15.6 45,203	144 4 227 11 20 11 20.3 36.9 100 6 15.4 23.4 67,804	171 4 4 253 12 19 11 20.3 35.0 100 6 15.4 23.4 67,804	185 4 4 298 11 20 Simplex c 15 26.9 40.3 132 Axi 8 20.5 31.2 90,406 D	215 4 4 327 12 23 r Duplex Put 15 26.9 36.7 132 al EC Fons & 8 20.5 31.2 90,406 islonce measured	249 4 4 354 12 21 mp Options 18.5 32.1 33.6 132 Copper Tub 8 8 20.5 31.2 90,406 wred in en	2 263 6 4 Shell & Tr 403 12 22 Carbon Sh 18.5 32.1 31.8 132 e with Alun EC 10 0 25.6 39.0 113,000 corpor field a 72.1 clube optio	2 2 9 2 9 6 4 4 4 2 4 2 1 1 2 1 2 1 2 1 2 1 2 1 2 1	8 8 2 5 1 1 2 Condenser 0 .6 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	308 6 4 4 7 4 7 6 4 7 7 7 8 9 5 4 2 2 2 2 2 3 9 5 4 2 7 159 12 30.7 4 6 8 5 5 6 8 11 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	339 6 4 504 11 19 ns 22 39.5 43.5 159 12 30.7 46.8 135,608	357 6 4 551 12 22 30 52 38.6 159 14 35.8 54.6 158,210	416 9 6 70 13 22 30 52 31.3 159 18 46.1 70.2 203,412	461 9 6 714 13 23 CF CF CF CF 159 18 18 46.1 70.2 203,412	509 9 6 13 21 CF CF CF CF 159 18 18 46.1 70.2 203,412	
Maximum Overcurrent Protection (MOP) MOP 172 212 248 274 314 358 357 391 418 457 486 544 596 650 DIMENSIONS & WEIGHTS IN 127 178 178 230 230 230 281 281 332 332 383 471 471 471 Width IN 87 8	Capacity Steps EVAPORATOR Nominal Flow Rate Pressure Drops (Evaporator + Valves + Piping) E.C. Pressure Drop (E.C. Cal + Evap + Valves + Piping) PUMP & TANK (OPTIONAL) Maximum Pump Absorbed Power Maximum Pump Absorbed Current Available External Pressure (Single) Tank Volume FANS & CONDENSER Fan Electronic Fan Speed Control Fan Total Absorbed Power Fan Total Absorbed Power Fan Total Absorbed Current Total Air Flow NOISE DATA Sound Pressure Level ELECTRICAL DATA Power Circuit	A QTY QTY PSI PSI PSI KW A PSI GAL GAL TYPE QTY kW A CFM CFM DB(A)	119 4 172 11 18 7.5 13.2 32.2 79 4 10.2 15.6 45,203 68.1	144 4 227 11 20 11 20.3 36.9 100 6 15.4 23.4 67,804 70.6	171 4 253 12 19 11 20.3 35.0 100 6 15.4 23.4 67,804 70.3	185 4 4 298 11 20 Simplex o 15 26.9 40.3 132 Axi 8 20.5 31.2 90,406 D 70.5	215 4 4 327 12 23 r Duplex Pur 15 26.9 36.7 132 al EC Fans & 8 20.5 31.2 90,406 istance meas 72.4	249 4 4 354 12 21 mp Options 18.5 32.1 33.6 132 Copper Tub 8 8 20.5 31.2 90,406 urred in on 73.7 Does not in	2 263 6 4 Shell & Tr 403 12 22 Carbon Sh 18.5 32.1 31.8 13.8 132 e with Alun EC 10 25.6 39.0 113,000 open field a 72.1 clubon field a 73.1 clubon field	2 2 29 6 4 42 42 11 20 20 20 5 11 33 33 33 33 33 33 33 33 33 33 33 33 3	8 8 2 5 1 1 2 2 Condenser 2 2 Condenser 0 6 6 0 0 1 3 7 7 8 7 7 8 7 7 7 7 7 7 7 7 7 7 7 7 7	308 6 4 4 7 7 7 6 4 7 7 6 7 6 7 6 7 6 6 7 7 6 7 7 6 7 7 6 7 7 6 7 7 7 6 7 7 7 7 7 7 7 7 7 7 7 7 7	339 6 4 504 11 19 ns 22 39.5 43.5 159 12 30.7 46.8 135,608 74.7	357 6 4 551 12 22 30 52 38.6 159 14 35.8 54.6 158,210 75.6	416 9 6 70 13 22 30 52 31.3 159 18 46.1 70.2 203,412 74.1	461 9 6 714 13 23 CF CF CF CF 159 159 18 46.1 70.2 203,412 203,412	509 9 6 756 13 21 CF CF CF CF 159 18 46.1 70.2 203,412 76.4	
LengthIN127178178230230230281281332332383471471471WidthIN87 <t< td=""><td>Capacity Steps EVAPORATOR Nominal Flow Rate Pressure Drops (Evaporator + Valves + Piping) F.C. Pressure Drop (EC. Cal + Evap + Valves + Piping) PUMP & TANK (OPTIONAL) Maximum Pump Absorbed Power Maximum Pump Absorbed Current Available External Pressure (Single) Tank Valume FANS & CONDENSER Fan Electronic Fan Speed Control Fan Guantity Fan Total Absorbed Power Fon Total Absorbed Power Fon Total Absorbed Current Total Air Flow NOISE DATA Sound Pressure Level ELECTRICAL DATA Power Circuit Full Load Current (FLA)</td><td>A QTY QTY GPM PSI PSI PSI KW A PSI GAL TYPE QTY kW A CFM DB(A) V/PH/HZ FLA</td><td>119 4 172 11 18 7.5 13.2 32.2 79 4 10.2 15.6 45.203 68.1</td><td>144 4 227 11 20 11 20.3 36.9 100 6 15.4 23.4 67,804 70.6</td><td>171 4 253 12 19 11 20.3 3550 100 6 6 15.4 23.4 67,804 70.3 70.3</td><td>185 4 298 11 20 Simplex o 15 26.9 40.3 132 Axi 8 8 20.5 31.2 90,406 D 70.5</td><td>215 4 4 327 12 23 r Duplex Pur 15 26.9 36.7 132 al EC Fans & 8 8 20.5 31.2 90,406 islance meas 72.4</td><td>249 4 4 354 12 21 mp Options 18.5 32.1 33.6 132 Copper Tub Copper Tub 8 8 20.5 31.2 90,406 urred in an 73.7 Does not in 280</td><td>2 263 6 4 Shell & T 403 12 22 Carbon Sh 18.5 32.1 31.8 13.8 132 e with Alun EC 10 25.6 39.0 113,000 copen field a 72.1 clude option 460/3/ 302</td><td>22 29 6 4 42 42 11 12 20 20 20 33 33 13 33 13 33 13 31 13 13 13 13 13</td><td>P1 8 2 0 5 .1 .2 2 Condenser 0 .6 .0 .307 .3 0 .6 .0 .7 .3</td><td>308 6 4 4 7 7 10 21 7 7 7 40.8 5,608 12 30.7 46.8 5,608 1354 354</td><td>339 6 4 504 11 19 ns 22 39.5 43.5 159 12 30.7 46.8 135,608 74.7 386</td><td>357 6 4 551 12 22 30 52 38.6 159 14 35.8 54.6 158,210 75.6 412</td><td>416 9 6 70 13 22 30 52 31.3 159 18 46.1 70.2 203,412 74.1</td><td>461 9 6 714 13 23 CF CF CF CF 159 159 18 46.1 70.2 203,412 203,412</td><td>509 9 6 756 13 21 CF CF CF CF 159 159 18 46.1 70.2 203,412 76.4</td></t<>	Capacity Steps EVAPORATOR Nominal Flow Rate Pressure Drops (Evaporator + Valves + Piping) F.C. Pressure Drop (EC. Cal + Evap + Valves + Piping) PUMP & TANK (OPTIONAL) Maximum Pump Absorbed Power Maximum Pump Absorbed Current Available External Pressure (Single) Tank Valume FANS & CONDENSER Fan Electronic Fan Speed Control Fan Guantity Fan Total Absorbed Power Fon Total Absorbed Power Fon Total Absorbed Current Total Air Flow NOISE DATA Sound Pressure Level ELECTRICAL DATA Power Circuit Full Load Current (FLA)	A QTY QTY GPM PSI PSI PSI KW A PSI GAL TYPE QTY kW A CFM DB(A) V/PH/HZ FLA	119 4 172 11 18 7.5 13.2 32.2 79 4 10.2 15.6 45.203 68.1	144 4 227 11 20 11 20.3 36.9 100 6 15.4 23.4 67,804 70.6	171 4 253 12 19 11 20.3 3550 100 6 6 15.4 23.4 67,804 70.3 70.3	185 4 298 11 20 Simplex o 15 26.9 40.3 132 Axi 8 8 20.5 31.2 90,406 D 70.5	215 4 4 327 12 23 r Duplex Pur 15 26.9 36.7 132 al EC Fans & 8 8 20.5 31.2 90,406 islance meas 72.4	249 4 4 354 12 21 mp Options 18.5 32.1 33.6 132 Copper Tub Copper Tub 8 8 20.5 31.2 90,406 urred in an 73.7 Does not in 280	2 263 6 4 Shell & T 403 12 22 Carbon Sh 18.5 32.1 31.8 13.8 132 e with Alun EC 10 25.6 39.0 113,000 copen field a 72.1 clude option 460/3/ 302	22 29 6 4 42 42 11 12 20 20 20 33 33 13 33 13 33 13 31 13 13 13 13 13	P1 8 2 0 5 .1 .2 2 Condenser 0 .6 .0 .307 .3 0 .6 .0 .7 .3	308 6 4 4 7 7 10 21 7 7 7 40.8 5,608 12 30.7 46.8 5,608 1354 354	339 6 4 504 11 19 ns 22 39.5 43.5 159 12 30.7 46.8 135,608 74.7 386	357 6 4 551 12 22 30 52 38.6 159 14 35.8 54.6 158,210 75.6 412	416 9 6 70 13 22 30 52 31.3 159 18 46.1 70.2 203,412 74.1	461 9 6 714 13 23 CF CF CF CF 159 159 18 46.1 70.2 203,412 203,412	509 9 6 756 13 21 CF CF CF CF 159 159 18 46.1 70.2 203,412 76.4	
Widh IN 87 8	Capacity Steps EVAPORATOR Nominal Flow Rate Pressure Drops (Evaporator + Valves + Piping) E.C. Pressure Drop (E.C. Cal + Evap + Valves + Piping) PUMP & TANK (OPTIONAL) Maximum Pump Absorbed Power Maximum Pump Absorbed Current Available External Pressure (Single) Tank Volume FANS & CONDENSER Fan Electronic Fan Speed Control Fan Quantity Fan Total Absorbed Power Fan Total Absorbed Power Total Air Flow NOISE DATA Sound Pressure Level ELECTRICAL DATA Power Circuit Full Load Current (FLA) Minimum Circuit Ampacity (MCA) Maximum Overcurrent Protection (MOP)	A QTY QTY GPM PSI PSI KW A PSI GAL TYPE QTY kW A CFM DB(A) V/PH/HZ FLA MCA	119 4 172 11 18 7.5 13.2 32.2 79 4 10.2 15.6 45.203 68.1 68.1 135 143	144 4 227 11 20 11 20.3 36.9 100 6 15.4 23.4 67,804 70.6 70.6	171 4 253 12 19 11 20.3 3550 100 6 6 15.4 23.4 67,804 70.3 70.3 194 205	185 4 298 11 20 Simplex o 15 26.9 40.3 132 Axi 8 8 20.5 31.2 90,406 D 70.5 C 216 228	215 4 327 12 23 r Duplex Pur 15 26.9 36.7 132 al EC Fans & 8 8 20.5 31.2 90,406 islance meas 72.4 246 260	249 4 4 354 12 21 mp Options 18.5 32.1 33.6 132 Copper Tub Copper Tub 8 8 20.5 31.2 90,406 urred in on 73.7 Does not in 280 296	2 263 6 4 Shell & Tr 403 12 22 Carbon Sh 18.5 32.1 31.8 13.2 e with Alon EC 10 25.6 39.0 113,000 capen field a 72.1 clude option 460/3/2 313	22 29 6 4 42 42 11 18 32 33 33 33 33 33 33 33 33 33 33 33 33	1 8 2 0 1 2 2 Condenser 0 .6 .0 .66 .0 .007 .3 0 .2	308 6 4 4 7 7 10 21 7 7 7 42.7 159 12 30.7 42.7 159 12 30.7 46.8 5,608 10 12 30.7 46.8 5,508 10 35.4 35.4 36.4 37.4 37.4 37.4 37.	339 6 4 504 11 19 ne 22 39.5 43.5 159 12 30.7 46.8 135,608 74.7 74.7	357 6 4 551 12 22 30 52 38.6 159 14 35.8 54.6 158,210 75.6 412 426	416 9 6 70 13 22 30 52 31.3 159 18 46.1 70.2 203,412 74.1 74.1	461 9 6 714 13 23 CF CF CF CF 159 159 8 46.1 70.2 203,412 203,412 75.4 75.4	509 9 6 756 13 21 CF CF CF CF 159 159 18 46.1 70.2 203,412 203,412 76.4	
Height IN 96 <th< td=""><td>Capacity Steps EVAPORATOR Nominal Flow Rate Pressure Drops [Evaporator + Valves + Piping] F.C. Pressure Drop [E.C. Cal + Evap + Valves + Piping] PUMP & TANK (OPTIONAL) Maximum Pump Absorbed Power Maximum Pump Absorbed Current Available External Pressure [Single] Tank Volume FANS & CONDENSER Fan Electronic Fan Speed Control Fan Quantity Fan Total Absorbed Power Fan Total Absorbed Power Fan Total Absorbed Power Sound Pressure Level ELECTRICAL DATA Power Circuit Full Load Current (FLA) Minimum Circuit Ampacity (MCA) Maximum Overcurrent Protection (MOP)</td><td>A QTY QTY GPM PSI PSI KW A PSI GAL TYPE QTY kW A CFM DB(A) V/PH/HZ FLA MCA</td><td>119 4 172 11 18 7.5 13.2 32.2 79 4 10.2 15.6 45.203 68.1 68.1 135 143</td><td>144 4 227 11 20 11 20.3 36.9 100 6 15.4 23.4 67,804 70.6 70.6</td><td>171 4 253 12 19 11 20.3 3550 100 6 6 15.4 23.4 67,804 70.3 70.3 194 205</td><td>185 4 298 11 20 Simplex o 15 26.9 40.3 132 Axi 8 8 20.5 31.2 90,406 D 70.5 C 216 228</td><td>215 4 327 12 23 r Duplex Pur 15 26.9 36.7 132 al EC Fans & 8 8 20.5 31.2 90,406 islance meas 72.4 246 260</td><td>249 4 4 354 12 21 mp Options 18.5 32.1 33.6 132 Copper Tub Copper Tub 8 8 20.5 31.2 90,406 urred in on 73.7 Does not in 280 296</td><td>2 263 6 4 Shell & Tr 403 12 22 Carbon Sh 18.5 32.1 31.8 13.2 e with Alon EC 10 25.6 39.0 113,000 capen field a 72.1 clude option 460/3/2 313</td><td>22 29 6 4 42 42 11 18 32 33 33 33 33 33 33 33 33 33 33 33 33</td><td>1 8 2 0 1 2 2 Condenser 0 .6 .0 .66 .0 .007 .3 0 .2</td><td>308 6 4 4 7 7 10 21 7 7 7 42.7 159 12 30.7 42.7 159 12 30.7 46.8 5,608 10 12 30.7 46.8 5,508 10 35.4 35.4 36.4 37.4 37.4 37.4 37.</td><td>339 6 4 504 11 19 ne 22 39.5 43.5 159 12 30.7 46.8 135,608 74.7 74.7</td><td>357 6 4 551 12 22 30 52 38.6 159 14 35.8 54.6 158,210 75.6 412 426</td><td>416 9 6 70 13 22 30 52 31.3 159 18 46.1 70.2 203,412 74.1 74.1</td><td>461 9 6 714 13 23 CF CF CF CF 159 159 8 46.1 70.2 203,412 203,412 75.4 75.4</td><td>509 9 6 756 13 21 CF CF CF CF 159 159 18 46.1 70.2 203,412 203,412 76.4</td></th<>	Capacity Steps EVAPORATOR Nominal Flow Rate Pressure Drops [Evaporator + Valves + Piping] F.C. Pressure Drop [E.C. Cal + Evap + Valves + Piping] PUMP & TANK (OPTIONAL) Maximum Pump Absorbed Power Maximum Pump Absorbed Current Available External Pressure [Single] Tank Volume FANS & CONDENSER Fan Electronic Fan Speed Control Fan Quantity Fan Total Absorbed Power Fan Total Absorbed Power Fan Total Absorbed Power Sound Pressure Level ELECTRICAL DATA Power Circuit Full Load Current (FLA) Minimum Circuit Ampacity (MCA) Maximum Overcurrent Protection (MOP)	A QTY QTY GPM PSI PSI KW A PSI GAL TYPE QTY kW A CFM DB(A) V/PH/HZ FLA MCA	119 4 172 11 18 7.5 13.2 32.2 79 4 10.2 15.6 45.203 68.1 68.1 135 143	144 4 227 11 20 11 20.3 36.9 100 6 15.4 23.4 67,804 70.6 70.6	171 4 253 12 19 11 20.3 3550 100 6 6 15.4 23.4 67,804 70.3 70.3 194 205	185 4 298 11 20 Simplex o 15 26.9 40.3 132 Axi 8 8 20.5 31.2 90,406 D 70.5 C 216 228	215 4 327 12 23 r Duplex Pur 15 26.9 36.7 132 al EC Fans & 8 8 20.5 31.2 90,406 islance meas 72.4 246 260	249 4 4 354 12 21 mp Options 18.5 32.1 33.6 132 Copper Tub Copper Tub 8 8 20.5 31.2 90,406 urred in on 73.7 Does not in 280 296	2 263 6 4 Shell & Tr 403 12 22 Carbon Sh 18.5 32.1 31.8 13.2 e with Alon EC 10 25.6 39.0 113,000 capen field a 72.1 clude option 460/3/2 313	22 29 6 4 42 42 11 18 32 33 33 33 33 33 33 33 33 33 33 33 33	1 8 2 0 1 2 2 Condenser 0 .6 .0 .66 .0 .007 .3 0 .2	308 6 4 4 7 7 10 21 7 7 7 42.7 159 12 30.7 42.7 159 12 30.7 46.8 5,608 10 12 30.7 46.8 5,508 10 35.4 35.4 36.4 37.4 37.4 37.4 37.	339 6 4 504 11 19 ne 22 39.5 43.5 159 12 30.7 46.8 135,608 74.7 74.7	357 6 4 551 12 22 30 52 38.6 159 14 35.8 54.6 158,210 75.6 412 426	416 9 6 70 13 22 30 52 31.3 159 18 46.1 70.2 203,412 74.1 74.1	461 9 6 714 13 23 CF CF CF CF 159 159 8 46.1 70.2 203,412 203,412 75.4 75.4	509 9 6 756 13 21 CF CF CF CF 159 159 18 46.1 70.2 203,412 203,412 76.4	
Estimated. Shipping Weight LBS. 5,732 7,341 7,341 9,789 9,789 9,789 12,236 12,236 14,683 14,683 17,086 22,024 22,024 22,024	Capacity Steps EVAPORATOR Nominal Flow Rate Pressure Drops [Evaporator + Valves + Piping] F.C. Pressure Drop [EC. Cal + Evap + Valves + Piping] PUMP & TANK (OPTIONAL) Maximum Pump Absorbed Power Maximum Pump Absorbed Current Available External Pressure [Single] Tank Volume FANS & CONDENSER Fan Electronic Fan Speed Control Fan Quantity Fan Total Absorbed Power Fan Total Absorbed Power Fan Total Absorbed Power Sound Pressure Level ELECTRICAL DATA Power Circuit Full Load Current [FLA] Minimum Circuit Ampacity (MCA) Maximum Overcurrent Protection (MOP) DIMENSIONS & WEIGHTS Length	A GTY GPM PSI PSI FSI KW A PSI GAL TYPE GTY kW A CFM DB(A) V/PH/HZ FLA MCA MOP IN	119 4 172 11 18 7.5 13.2 32.2 79 4 10.2 15.6 45,203 68.1 135 143 172 127	144 4 227 11 20 11 20 3 36.9 100 6 15.4 23.4 67,804 70.6 70.6 167 176 212	171 4 253 12 19 11 20.3 35.0 100 6 15.4 23.4 67,804 70.3 70.3 194 205 248 178	185 4 298 11 20 Simplex o 15 26.9 40.3 132 Axi 8 8 20.5 31.2 90.406 D 70.5 C 70.5	215 4 4 327 12 23 r Duplex Pur 15 269 367 132 dl EC Fons & 8 8 20.5 31.2 90.406 istonce meas 72.4 246 260 314	249 4 4 12 21 mp Options 18.5 32.1 33.6 132 Copper Tub 8 8 20.5 31.2 90.406 wred in an 73.7 Does not in 73.7 Does not in 280 296 358	2 263 6 4 Shell & T 403 12 22 22 22 22 22 22 22 22 22	229 299 44 422 112 200 201 201 201 201 201 201 201 2	8 2 0 1 2 2 3 3 4 4 5 5 6 0 6 9 5 0 2 11	308 6 4 4 7 7 7 7 7 7 7 7 7 7 7 7 7	339 6 4 504 11 19 ns 22 39.5 43.5 159 12 30.7 46.8 33.5 608 74.7 386 400 457 332	357 6 4 551 12 22 30 52 38.6 159 14 35.8 54.6 158,210 75.6 412 426 486 383	416 9 6 13 22 30 52 31.3 159 18 46.1 70.2 203,412 74.1 74.1 486 498 544	461 9 6 714 13 23 CF CF CF CF 159 8 46.1 70.2 203,412	509 9 6 13 21 CF CF CF 159 18 46.1 70.2 203,412 203,412 76.4 76.4 76.4 579 593 650	
	Capacity Steps EVAPORATOR Nominal Flow Rate Pressure Drops [Evaporator + Valves + Piping] F.C. Pressure Drop [F.C. Cal + Evap + Valves + Piping] PUMP & TANK (OPTIONAL) Maximum Pump Absorbed Power Maximum Pump Absorbed Current Available External Pressure [Single] Tank Volume FANS & CONDENSER Fan Electronic Fan Speed Control Fan Quantity Fan Total Absorbed Power Fan Total Absorbed Power Total Air Flow NOISE DATA Sound Pressure Level ELECTRICAL DATA Power Circuit Ful Load Current [FLA] Minimum Circuit Ampacity (MCA) Maximum Overcurrent Protection (MOP) DIMENSIONS & WEIGHTS Length Width	A GTY GPM PSI PSI PSI KW A PSI GAL TYPE QTY kW A CFM CFM DB(A) V/PH/HZ FLA MCA MOP IN IN	119 4 172 11 18 7.5 13.2 32.2 79 4 10.2 15.6 45,203 68.1 135 143 172 127 87	144 4 227 11 20 11 20.3 36.9 100 6 6 15.4 23.4 67,804 70.6 70.6 70.6 167 176 212 212	171 4 253 12 19 11 20.3 35.0 100 6 15.4 23.4 67,804 70.3 70.3 194 205 248 178 87	185 4 298 11 20 Simplex o 15 26.9 40.3 132 Axi 8 8 20.5 31.2 90,406 D 70.5 C 70.5 216 228 274 216 228 274 230 87	215 4 4 327 12 23 r Duplex Pur 15 269 367 132 dl EC Fons & 8 8 20.5 30.2 90.406 istonce meet 72.4 246 260 314	249 4 4 12 21 mp Options 18.5 32.1 33.6 132 Copper Tub 8 8 20.5 31.2 90.406 wred in an 73.7 Does not in 73.7 Does not in 280 296 358 230 87	2 263 6 4 Shell & T 403 12 22 22 Carbon Sh 18.5 32.1 31.8 132 e with Alun EC 10 25.6 39.0 113,002 29.6 39.0 113,002 29.6 113,002 29.6 39.0 113,002 29.6 39.0 113,002 20.6 39.0 113,002 20.6 39.0 113,002 20.6 39.0 113,002 20.6 39.0 113,002 20.6 39.0 113,002 20.6 30.7 20.6 30.7 20.6 30.7 20.6 30.7 20.6 30.7 20.6 30.7 20.6 30.7 20.6 20.7	22 25 6 4 42 20 20 20 20 20 20 20 20 20 20 20 20 20	N1 N1 N1 N2 N1 N2 N1 N2 Condenser N0 N1 N1 N2	308 6 4 4 7 7 7 7 7 7 7 7 7 7 7 7 7	339 6 4 504 11 19 22 39.5 43.5 159 12 30.7 46.8 135,608 74.7 74.7 386 400 457 332 87	357 6 4 551 12 22 30 52 38.6 159 14 35.8 54.6 158,210 75.6 412 426 486 383 87	416 9 6 670 13 22 30 52 31.3 159 18 46.1 70.2 203,412 74.1 74.1 486 498 544 471 87	461 9 6 714 13 23 CF CF CF CF 159 75 4 46.1 70.2 203,412 203,412 203,412 75,4 75,4 75,4 75,4 75,4 87	509 9 6 13 21 CF CF CF 159 18 46.1 70.2 203,412 203,412 76.4 76.4 76.4 579 593 650	
	Capacity Steps EVAPORATOR Nominal Flow Rate Pressure Drops [Evaporator + Valves + Piping] E.C. Pressure Drop [E.C. Cal + Evap + Valves + Piping] PUMP & TANK (OPTIONAL) Maximum Pump Absorbed Power Maximum Pump Absorbed Current Available External Pressure [Single] Tank Volume FANS & CONDENSER Fan Electronic Fan Speed Control Fan Quantity Fan Total Absorbed Power Fan Total Absorbed Power Total Air Flow NOISE DATA Sound Pressure Level ELECTRICAL DATA Power Circuit Full Load Current [FLA] Minimum Circuit Ampacity (MCA) Maximum Overcurrent Protection (MOP) DIMENSIONS & WEIGHTS Length Width Height	A GTY GPM PSI PSI PSI KW A PSI GAL TYPE GTY kW A CFM DB(A) V/PH/HZ FLA MCA MOP IN IN	119 4 4 172 11 18 7.5 13.2 32.2 79 4 10.2 15.6 45,203 68.1 135 143 172 127 87 96	144 4 4 227 11 20 11 20.3 36.9 100 6 6 15.4 23.4 67,804 70.6 70.6 70.6 167 176 212 178 87 96	171 4 253 12 19 11 20.3 35.0 100 6 15.4 23.4 67,804 70.3 70.3 194 205 248 178 87 96	185 4 298 11 20 Simplex of 15 26.9 40.3 132 Axi 8 8 20.5 31.2 90,406 D 70.5 C 216 228 274 216 228 274 230 87 96	215 4 4 327 12 23 r Duplex Pur 15 26.9 36.7 132 d EC Fons & 8 8 20.5 31.2 90,406 islonce meos 72.4 246 260 314 230 87 96	249 4 4 12 21 mp Options 18.5 32.1 33.6 132 Copper Tub 8 8 20.5 31.2 Copper Tub 8 8 20.5 31.2 90.406 ured in an 73.7 Does not in 73.7 Does not in 280 296 358 230 87 96	2 263 6 4 Shell & T 403 12 22 22 Carbon Sh 18.5 32.1 31.8 132 e with Alun EC 10 25.6 39.0 113,002 25.6 39.0 113,002 25.6 39.0 113,002 25.6 39.0 113,002 25.6 39.0 113,002 25.6 39.0 113,002 25.6 39.0 113,002 25.6 39.0 113,002 25.6 39.0 113,002 25.6 39.0 113,002 25.6 39.0 113,002 25.6 39.0 113,002 25.6 39.0 113,002 25.6 39.0 113,002 25.6 39.0 113,002 25.6 39.0 113,002 25.6 39.0 113,002 25.6 39.0 113,002 25.6 30.0 113,002 25.6 30.0 113,002 25.6 30.0 113,002 25.6 30.0 113,002 25.6 30.0 113,002 20.1 20	22 25 6 4 42 20 20 20 20 20 20 20 20 20 20 20 20 20	N1 N1 N1 N2 N1 N2 N1 N2 Condenser N0 N1 N1 N2	308 6 4 4 7 7 7 7 7 7 7 7 7 7 7 7 7	339 6 4 504 11 19 22 39.5 43.5 159 12 30.7 46.8 135,608 74.7 74.7 386 400 457 332 87 96	357 6 4 551 12 22 30 52 38.6 159 14 35.8 54.6 158,210 75.6 412 426 486 486 87 96	416 9 6 670 13 22 30 52 31.3 159 18 46.1 70.2 203,412 74.1 74.1 486 498 544 471 87 96	461 9 6 714 13 23 CF CF CF CF 159 75 4 46.1 70.2 203,412 203,412 203,412 75.4 75.4 75.4 87 596	509 9 6 13 21 CF CF CF CF 159 18 46.1 70.2 203,412 203,412 76.4 76.4 579 579 593 650	

*Performance rated at 44°F outlet water, 54°F Inlet Water, 54°F Ambient, 100% water. Chiller capacity changes with operating conditions, consult Motivair for assistance. Location and installation of equipment by others © 2021 Motivair Corporation. Motivair reserves the inaht to modify specifications without notice. Reproduction of this brochure in whole or in part is prohibited.

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