

MLC-SC Air-Cooled Scroll Chillers

100 - 285 Tons



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.

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.



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.

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



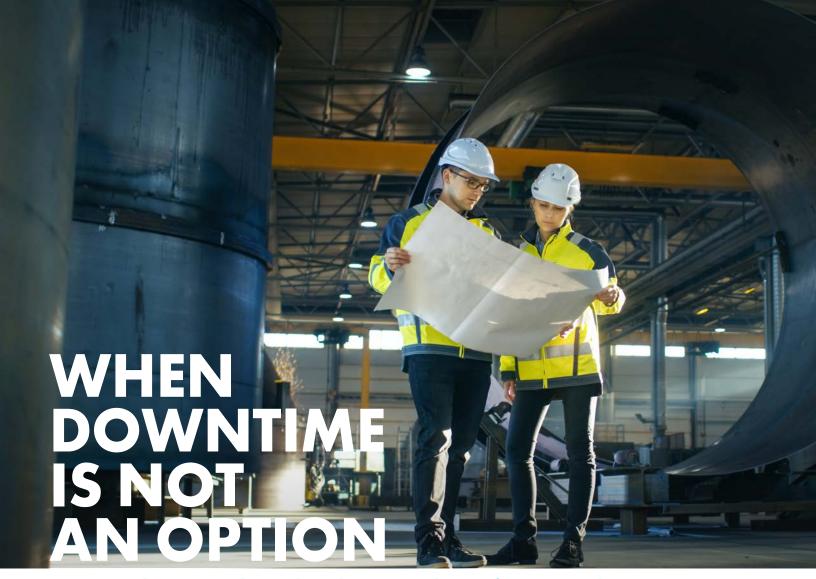
OPTIONAL STORAGE TANK

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.







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.

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
- High refrigeration pressure alarm
- Irregular voltage alarm
- General Alarm Relay
- Remote Start/Stop Řelay
- Manual alarm reset
- RS 232/RS 485 communication
- Ethernet Communication
- LON, BACNET, MODBUS communication (optional)
 MLC & MLC-FC CONTROLS PC05 Display PC05

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

MLC-SC-A CHILLER RANGE WITH SCROLL COMPRESSORS	MLC-SC	200	270	340	390	460	490	510	560	600	660	690	820	930	1100	1150
Nominal Cooling Capacity*	BTU/HR	825,244	988,899	1,207,163	1,336,735	1,466,341	1,691,402	1,834,600	1,953,961	2,185,851	2,318,838	2,434,784	2,932,648	3,109,964	3,607,829	3,805,63
Nominal Cooling Capacity	TON	69	82	101	111	122	141	153	163	182	193	203	244	259	301	317
Type Of Refrigerant	TYPE							R-410a								
Number Of Refrigerating Circuits	QTY	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3
Total Compressor Running Current	А	112	149	160	186	217	232	260	288	301	332	365	431	482	477	521
Number Of Compressors	QTY	4	4	4	4	4	4	6	6	6	6	6	9	9	9	9
Capacity Steps	QTY	4	4	4	4	4	4	4	4	4	4	4	6	6	6	6
EVAPORATOR Nominal Flow Rate	GPM	183	219	267	296	325	375	Shell & Tube	433	484	514	540	650	689	799	843
Pressure Drops (Evaporator + Valves + Piping)	PSI	103	8	10	9	9	11	10	10	10	10	9	10	9	11	10
PUMP & TANK (OPTIONAL)	101	10	0	10	implex or D		Options, C	arbon Steel	or Stainle	ss Steel Tan	k Options	,	10	,	- 11	10
Maximum Pump Absorbed Power	KW	7.5	11	11	15	15	18.5	18.5	18.5	22	22	30	30	CF	CF	CF
Maximum Pump Absorbed Current	А	13.2	20.3	20.3	26.9	26.9	32.1	32.1	32.1	39.5	39.5	52	52	CF	CF	CF
Available External Pressure (Single)	PSI	32.2	36.9	35.0	40.3	36.7	33.6	31.8	33.2	42.7	43.5	38.6	31.3	CF	CF	CF
Tank Volume	GAL	79	100	100	132	132	132	132	132	159	159	159	159	159	159	159
FANS & CONDENSER					Axio	al EC Fans &	Copper Tub		inum Fin C	ondenser						
Fan Electronic Fan Speed Control	TYPE							EC								
Fan Quantity	QTY	4	4	6	6	6	8	8	8	10	10	10	12	12	18	18
Fan Total Absorbed Power Fan Total Absorbed Current	kW	10.2	10.2	15.4	15.4 23.4	15.4	20.5	20.5	20.5	25.6	25.6	25.6	30.7	30.7	46.1	46.1
Total Air Flow	A CFM	15.6 51,324	15.6 51,324	23.4 76,986	76,986	23.4 76,986	31.2	31.2	31.2	39.0 128,310	39.0 128,310	39.0 128,310	46.8 153,972	46.8 153,972	70.2 230,958	70.2 230,958
NOISE DATA	CIVI	31,324	J1,324	70,900	70,900 Dist	ance measu	red in an or		33 feet fro	m Condense	120,310	120,310	133,97.2	133,97.2	230,930	230,930
Sound Pressure Level	DB(A)	68.1	70.0	70.3	70.0	72.0	73.7	71.7	<i>7</i> 1.5	73.4	74.4	75.3	73.3	74.8	76.4	77.2
ELECTRICAL DATA							oes not inclu	1	l pump(s)							
Power Circuit	V/PH/HZ							460/3/60								
Full Load Current (FLA)	FLA	128	165	184	209	241	263	291	319	340	371	404	478	529	547	591
Minimum Circuit Ampacity (MCA)	MCA	135	174	194	221	254	277	302	331	353	385	419	490	542	560	606
Maximum Overcurrent Protection (MOP)	MOP	163	211	234	268	309	335	346	379	403	440	480	538	596	613	664
DIMENSIONS & WEIGHTS																
Length	IN	127	127	178	178	178	230	230	230	281	281	281	332	332	471	471
Width	IN	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87
Height	IN LBS.	96	96 5,732	96	96 7,341	96	96 9,789	96	96 9,789	96 12,236	96 12,236	96 12,236	96 15,939	96 15,939	96 22,024	96
Estimated. Shipping Weight Hydraulic Connections (Inlet/Outlet)	IN	5,732 5	5	7,341 5	6	7,341 6	9,709	9,789	6	6	6	8	13,939	8	8	22,024
	11.4	3	9		-	0	0	0	-	0	0	0	0	0	0	
MLC-SC-FC CHILLER RANGE WITH SCROLL COMPRESSORS	MLC-SC-FC	200	270	340	390	460	490	510	56	0 6	00	660	690	820	930	1100
Nominal Cooling Capacity*	BTU/HR	777,500	1,023,017	1,142,377	1,343,560	6 1,476,553	1,595,91	3 1,817,5.	58 1,933	,504 2,14	8,353 2,	274,509 2,	485,943 3	,024,722	3,222,495	3,413,471
Nominal Cooling Capacity	TON	65	85	95	112	123	133	151	16	il 1	79	190	207	252	269	284
100% Free Cooling Ambient Temperature	°F	29	33	30	33	31	29	32	31) :	32	30	32	33	32	30
Type Of Refrigerant Gas	TYPE							R-410								
Number Of Refrigerating Circuits	QTY	2		2					2		2	2	2		3	3
Total Compressor Running Current			2		2	2	2	2						3		509
	A	119	144	171	185	215	249	263	29	ท 3	08	339	357	416	461	
Number Of Compressors	QTY	119	144	171 4	185 4	215 4	249 4	263 6	ć	PI 3	08 6	339	357 6	416 9	461 9	9
Capacity Steps		119	144	171	185	215	249	263 6 4	6	PI 3	08	339	357	416	461	
Capacity Steps EVAPORATOR	QTY QTY	119 4 4	144 4 4	171 4 4	185 4 4	215 4 4	249 4 4	263 6 4 Shell & 1	ć ube)	08 6 4	339 6 4	357 6 4	416 9 6	461 9 6	9
Capacity Steps EVAPORATOR Nominal Flow Rate	QTY	119	144	171 4	185 4	215 4	249 4	263 6 4	6	8 4	08 6	339	357 6	416 9	461 9	9
Capacity Steps EVAPORATOR	QTY QTY GPM	119 4 4 172	144 4 4 227	171 4 4 253	185 4 4 298	215 4 4 327	249 4 4 354	263 6 4 Shell & 1 403	6 4 Jube 42	8 4	08 6 4	339 6 4	357 6 4 551	416 9 6	461 9 6 714	9 6 756
Copacity Steps EVAPORATOR Nominal Flow Rate Pressure Drops [Evaporator + Valves + Piping]	QTY QTY GPM PSI	119 4 4 172 11	144 4 4 227 11	171 4 4 253 12	185 4 4 298 11 20	215 4 4 327 12	249 4 4 354 12 21	263 6 4 Shell & 1 403 12 22	6 4 1 42 1: 21	8 4 2	08 6 4 76 11	339 6 4 504 11	357 6 4 551 12	416 9 6 670 13	461 9 6 714 13	9 6 756 13
Capacity Steps EVAPORATOR Nominal Flow Rate Pressure Drops [Evaporator + Valves + Piping] F.C. Pressure Drop [F.C. Call + Evap + Valves + Piping]	GTY GPM PSI PSI	119 4 4 172 11 18	144 4 4 227 11 20	171 4 4 253 12 19	185 4 4 298 11 20 Simplex 0	215 4 4 327 12 23 pr Duplex Pu	249 4 4 354 12 21 mp Options	263 6 4 Shell & 1 403 12 22 27, Carbon St	iube 42 11 20 eel or Stai	8 4 2 2 0 nless Steel 1	08 6 4 .76 11 21 Tank Option 22	339 6 4 504 11 19 22	357 6 4 551 12 22	416 9 6 670 13 22	461 9 6 714 13 23	9 6 756 13 21
Capacity Steps EVAPORATOR Nominal Flow Rate Pressure Drops (Evaporator + Valves + Piping) F.C. Pressure Drop (F.C. Coil + Evap + Valves + Piping) PUMP & TANK (OPTIONAL) Maximum Pump Absorbed Power Maximum Pump Absorbed Current	GPM PSI PSI KW A	119 4 4 172 11 18 7.5 13.2	144 4 4 227 11 20	171 4 4 253 12 19	185 4 4 298 11 20 Simplex of 15 26.9	215 4 4 327 12 23 or Duplex Pu 15 26.9	249 4 4 354 12 21 mp Options 18.5 32.1	263 6 4 Shell & 1 403 12 22 2, Carbon Si 18.5 32.1	20 teel or Stail	8 4 2 2 0 0 nnless Steel 1 3	08 6 4 4 176 111 21 1 ank Option 22 9.5	339 6 4 504 11 19 15 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	9 6 756 13 21 CF
Capacity Steps EVAPORATOR Nominal Flow Rate Pressure Drops (Evaporator + Valves + Piping) F.C. Pressure Drop (F.C. Coil + Evap + Valves + Piping) PUMP & TANK (OPTIONAL) Maximum Pump Absorbed Power Maximum Pump Absorbed Current Available External Pressure (Single)	GPM PSI PSI KW A PSI	119 4 4 172 11 18 7.5 13.2 32.2	144 4 4 227 11 20 11 20.3 36.9	171 4 4 253 12 19 11 20.3 35.0	185 4 4 298 11 20 Simplex 6 15 26.9 40.3	215 4 4 327 12 23 23 25 Duplex Pu 15 26.9 36.7	249 4 4 354 12 21 mp Options 18.5 32.1 33.6	263 6 4 Shell & 1 403 12 22 22 2, Carbon Si 32.1	6 42 42 11 12 12 12 12 12 12 12 12 12 12 12 12	8	08 6 4 76 11 221 ank Option 22 9.5	339 6 4 504 11 19 15 22 39.5 43.5	357 6 4 551 12 22 30 52 38.6	416 9 6 670 13 22 30 52 31.3	46l 9 6 7l4 13 23 CF CF	9 6 756 13 21 CF CF
Capacity Steps EVAPORATOR Nominal Flow Rate Pressure Drops [Evaporator + Valves + Piping] F.C. Pressure Drop [F.C. Coil + Evap + Valves + Piping] PUMP & TANK [OPTIONAL] Maximum Pump Absorbed Power Maximum Pump Absorbed Current Available External Pressure [Single] Tank Volume	GPM PSI PSI KW A	119 4 4 172 11 18 7.5 13.2	144 4 4 227 11 20	171 4 4 253 12 19	298 11 20 Simplex c 15 26.9 40.3	215 4 4 327 12 23 or Duplex Pu 15 26,9 36,7 132	249 4 4 354 12 12 18.5 32.1 33.6 132	263 6 4 Shell & 1 403 12 22 7, Carbon Si 18.5 32.1 31.8	6 42 42 12 12 12 12 12 12 12 12 12 12 12 12 12	8	08 6 4 4 111 221 (ank Option 222 9.5 2.7	339 6 4 504 11 19 15 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	9 6 756 13 21 CF
Capacity Steps EVAPORATOR Nominal Flow Rate Pressure Drops (Evaporator + Valves + Piping) F.C. Pressure Drop (F.C. Coil + Evap + Valves + Piping) PUMP & TANK (OPTIONAL) Maximum Pump Absorbed Power Maximum Pump Absorbed Current Available External Pressure (Single) Tank Volume FANS & CONDENSER	GPM PSI PSI KW A PSI GAL	119 4 4 172 11 18 7.5 13.2 32.2	144 4 4 227 11 20 11 20.3 36.9	171 4 4 253 12 19 11 20.3 35.0	298 11 20 Simplex c 15 26.9 40.3	215 4 4 327 12 23 23 25 Duplex Pu 15 26.9 36.7	249 4 4 354 12 12 18.5 32.1 33.6 132	263 6 4 Shell & 1 403 12 22 5, Carbon St 18.5 32.1 31.8 132 se with Alux	6 42 42 12 12 12 12 12 12 12 12 12 12 12 12 12	8	08 6 4 4 111 221 (ank Option 222 9.5 2.7	339 6 4 504 11 19 15 22 39.5 43.5	357 6 4 551 12 22 30 52 38.6	416 9 6 670 13 22 30 52 31.3	46l 9 6 7l4 13 23 CF CF	9 6 756 13 21 CF CF
Capacity Steps EVAPORATOR Nominal Flow Rate Pressure Drops (Evaporator + Valves + Piping) F.C. Pressure Drop (F.C. Coil + 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	GPM PSI PSI KW A PSI GAL	119 4 4 172 11 18 7.5 13.2 32.2	144 4 4 227 11 20 11 20.3 36.9	171 4 4 253 12 19 11 20.3 35.0	185 4 4 298 11 20 Simplex c 15 26.9 40.3 132	327 12 23 or Duplex Pu 15 26.9 36.7 132	249 4 4 354 12 21 mp Options 18.5 32.1 33.6 132 Copper Tub	263 6 4 Shell & 1 403 12 22 7, Carbon St 32.1 31.8 132 be with Alux EC	6 42 42 12 12 12 12 12 12 12 12 12 12 12 12 12	88	08 6 4 11 12 21 1 (ank Option 22 22 2.7	339 6 4 504 11 19 22 39.5 43.5 159	357 6 4 551 12 22 22 30 52 38.6 159	416 9 6 670 13 22 30 52 31.3	461 9 6 714 13 23 CF CF CF	9 6 756 13 21 CF CF CF 159
Capacity Steps EVAPORATOR Nominal Flow Rate Pressure Drops [Evaporator + Valves + Piping] F.C. Pressure Drop [F.C. Coil + 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	GPM PSI PSI KW A PSI GAL	119 4 4 172 11 18 7.5 13.2 32.2 79	144 4 4 227 11 20 11 20.3 36.9 100	171 4 4 253 12 19 11 20.3 35.0 100	185 4 4 298 11 20 Simplex c 15 26.9 40.3 132 Ax	327 12 23 or Duplex Pu 15 26.9 36.7 132 iol EC Fons 8	249 4 4 354 12 21 mp Options 18.5 32.1 33.6 132 Copper Tub	263 6 4 Shell & 1 403 12 22 7, Carbon St 32.1 31.8 132 pe with Alux EC	6 42 42 42 42 42 42 42 42 42 42 42 42 42	88	08 6 4 11 122 120 (onk Option 22 22 7 559	339 6 4 504 11 19 22 39.5 43.5 159	357 6 4 551 12 22 22 30 52 38.6 159	416 9 6 670 13 22 30 52 31.3 159	461 9 6 714 13 23 CF CF CF 159	9 6 756 13 21 CF CF 159
Capacity Steps EVAPORATOR Nominal Flow Rate Pressure Drops [Evaporator + Valves + Piping] F.C. Pressure Drop [F.C. Coil + 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	GPM PSI PSI KW A PSI GAL TYPE GTY	119 4 4 172 11 18 7.5 13.2 32.2 79	144 4 4 227 11 20 11 20.3 36.9 100	171 4 4 4 253 12 19 11 20.3 35.0 100	185 4 4 298 11 20 Simplex c 15 26.9 40.3 132 Ax	215 4 4 327 12 23 or Duplex Pu 15 26.9 36.7 132 iol EC Fans 8	249 4 4 354 12 21 mp Options 18.5 32.1 33.6 132 Copper Tub 8 20.5	263 6 4 Shell & 1 403 12 22 7, Carbon Si 18.5 32.1 31.8 132 be with Alui EC 10 25.6	6 6 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	88	08 6 4 11 221 11 Option 22 29.5 2.7 559	339 6 4 504 11 19 22 39.5 43.5 159	357 6 4 551 12 22 22 30 52 38.6 159	416 9 6 670 13 22 30 52 31.3 159	461 9 6 714 13 23 CF CF CF 159	9 6 756 13 21 CF CF CF 159 18 46.1
Capacity Steps EVAPORATOR Nominal Flow Rate Pressure Drops [Evaporator + Valves + Piping] F.C. Pressure Drop [F.C. Coil + 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	GPM PSI PSI KW A PSI GAL	119 4 4 172 11 18 7.5 13.2 32.2 79	144 4 4 227 11 20 11 20.3 36.9 100	171 4 4 253 12 19 11 20.3 35.0 100	185 4 4 298 11 20 Simplex c 15 26.9 40.3 132 Ax	327 12 23 or Duplex Pu 15 26.9 36.7 132 iol EC Fons 8	249 4 4 354 12 21 mp Options 18.5 32.1 33.6 132 Copper Tub	263 6 4 Shell & 1 403 12 22 5, Carbon St 18.5 32.1 132 20 with Alur EC 10 25.6 39.0	6 6 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	88	08 6 4 11 221 10nk Option 22 29.5 2.7 559	339 6 4 11 19 22 39.5 43.5 159	357 6 4 551 12 22 22 30 52 38.6 159	416 9 6 670 13 22 30 52 31.3 159	461 9 6 714 13 23 CF CF CF 159	9 6 756 13 21 CF CF 159
Capacity Steps EVAPORATOR Nominal Flow Rate Pressure Drops [Evaporator + Valves + Piping] F.C. Pressure Drop [F.C. Coil + 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	GPM PSI PSI KW A PSI GAL TYPE GTY	119 4 4 172 11 18 7.5 13.2 32.2 79 4 10.2 15.6	144 4 4 227 11 20 11 20.3 36.9 100	171 4 4 4 253 12 19 11 20.3 35.0 100	185 4 4 298 11 20 Simplex c 15 26.9 40.3 132 Ax 8 8 20.5 31.2	215 4 4 327 12 23 or Duplex Pu 15 26.9 36.7 132 iol EC Fans 8 8 20.5 31.2	249 4 4 354 12 21 mp Options 18.5 32.1 33.6 132 Copper Tub 8 20.5 31.2	263 6 4 Shell & 1 403 12 22 7, Carbon St 32.1 31.8 132 9e with Alux EC 10 25.6 39.0	6 6 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	88	08 6 4 11 221 10nk Option 22 29.5 2.7 559	339 6 4 11 19 22 39.5 43.5 159	357 6 4 551 12 22 22 30 52 38.6 159	416 9 6 670 13 22 30 52 31.3 159	461 9 6 714 13 23 CF CF CF 159	9 6 756 13 21 CF CF CF 159 18 46.1 70.2
Capacity Steps EVAPORATOR Nominal Flow Rate Pressure Drops [Evaporator + Valves + Piping] F.C. Pressure Drop [F.C. Coil + 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	GPM PSI PSI KW A PSI GAL TYPE GTY	119 4 4 172 11 18 7.5 13.2 32.2 79 4 10.2 15.6	144 4 4 227 11 20 11 20.3 36.9 100	171 4 4 4 253 12 19 11 20.3 35.0 100	185 4 4 298 11 20 Simplex c 15 26.9 40.3 132 Ax 8 8 20.5 31.2	215 4 4 327 12 23 or Puplex Pt 15 26.9 36.7 132 iol EC Fans 8 20.5 31.2 90,406	249 4 4 354 12 21 mp Options 18.5 32.1 33.6 132 Copper Tub 8 20.5 31.2 90,406 sured in an 73.7	263 6 4 Shell & 1 403 12 22 4, Carbon Si 18.5 32.1 31.8 132 be with Alux 10 25.6 39.0 113,00 open field 72.1	6	88	08 6 4 4 776 111 221 innk Option 222 9.5 5.5 9 112 0.7 6.8 8 1.6 6.608 1.	339 6 4 11 19 22 39.5 43.5 159	357 6 4 551 12 22 22 30 52 38.6 159	416 9 6 670 13 22 30 52 31.3 159	461 9 6 714 13 23 CF CF CF 159	9 6 756 13 21 CF CF CF 159 18 46.1 70.2
Capacity Steps EVAPORATOR Nominal Flow Rate Pressure Drops [Evaporator + Valves + Piping] F.C. Pressure Drop [F.C. Coil + 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	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 4 227 11 20 11 20.3 36.9 100	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 15 26.9 40.3 132 Ax 8 8 20.5 31.2 90,406	215 4 4 327 12 23 or Puplex Pt 15 26.9 36.7 132 iol EC Fans 8 20.5 31.2 90,406	249 4 4 354 12 21 mp Options 18.5 32.1 33.6 20.5 31.2 90,406 sured in an	263 6 4 Shell & 1 403 12 22 4, Carbon Si 18.5 32.1 31.8 132 be with Alux 10 25.6 39.0 113,00 open field 72.1	6	88	08 6 4 4 776 111 221 121 122 2.7 559 12 0.7 6.8 6.608 1.15er	339 6 4 11 19 22 39.5 43.5 159	357 6 4 551 12 22 30 52 38.6 159	416 9 6 670 13 22 30 52 31.3 159 18 46.1 70.2 203,412	461 9 6 714 13 23 CF CF CF 159 18 46.1 70.2 203,412	9 6 756 13 21 CF CF CF 159 18 46.1 70.2 203,412
Capacity Steps EVAPORATOR Nominal Flow Rate Pressure Drops [Evaporator + Valves + Piping] F.C. Pressure Drops [Evaporator + 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 Guantity Fan Total Absorbed Power fan Total Absorbed Current Total Air Flow NOISE DATA Sound Pressure Level	GTY GPM PSI PSI KW A PSI GAL TYPE GTY 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 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 15 26.9 40.3 132 Ax 8 8 20.5 31.2 90,406	215 4 4 327 12 23 or Puplex Pt 15 26.9 36.7 132 iol EC Fans 8 20.5 31.2 90,406	249 4 4 354 12 21 mp Options 18.5 32.1 33.6 132 Copper Tub 8 20.5 31.2 90,406 sured in an 73.7	263 6 4 Shell & 1 403 12 22 4, Carbon Si 18.5 32.1 31.8 132 be with Alux 10 25.6 39.0 113,00 open field 72.1	6	88	08 6 4 4 7.76 111 21 ank Option 222 9.5 5.5 9 12 0.7 6.8 6,608 1. 1.5 er 3.6 6	339 6 4 11 19 22 39.5 43.5 159	357 6 4 551 12 22 30 52 38.6 159 14 35.8 54.6 158,210	416 9 6 670 13 22 30 52 31.3 159 18 46.1 70.2 203,412	461 9 6 714 13 23 CF CF CF 159 18 46.1 70.2 203,412	9 6 756 13 21 CF CF CF 159 18 46.1 70.2 203,412
Capacity Steps EVAPORATOR Nominal Flow Rate Pressure Drops (Evaporator + Valves + Piping) F.C. Pressure Drop (F.C. Cal + Evap + Valves + Piping) PUMP & TANK (OPTIONAL) Moximum Pump Absorbed Power Moximum Pump Absorbed Current Available External Pressure (Single) Tank Valume FANS & CONDENSER Fan Electronic Fan Speed Control Fan Guantity Fan Total Absorbed Power fan Total Absorbed Current Total Air Flow NOISE DATA Sound Pressure Level ELECTRICAL DATA Power Circuit Full Load Current (FLA)	GTY GPM PSI PSI PSI KW A PSI GAL TYPE GTY 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 68.1	144 4 4 227 11 20 11 20.3 36.9 100 6 15.4 23.4 67,804	171 4 4 4 253 12 19 11 20.3 35.0 100 6 15.4 23.4 67.804 70.3	185 4 4 4 298 11 20 Simplex (1) 15 26.9 40.3 132 Ax 8 20.5 31.2 90,406 D 70.5	215 4 4 327 12 23 or Puplex Pt 15 26.9 36.7 132 iol EC Fons 8 20.5 31.2 90,406 72.4	249 4 4 354 12 21 mp Options 18.5 32.1 33.6 132 Copper Tul 8 20.5 31.2 90,406 sured in on 73.7 Does not in	263 6 4 Shell & 1 403 12 22 6, Carbon Si 18.5 32.1 31.8 132 be with Alu 25.6 39.0 113,00 open field 72.1 nclude optic 460/3/ 302	66 42 42 42 42 42 42 42	88	08 6 4 4 7 6 111 21 ank Option 22 2 9.5 5 9 12 0.7 6.8 6,608 1 155	339 6 4 11 19 22 39.5 43.5 159 12 30.7 46.8 35,608	357 6 4 551 12 22 30 52 38.6 159 14 35.8 54.6 158,210 75.6	416 9 6 670 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 159 18 46.1 70.2 203,412 75.4	9 6 756 13 21 CF CF CF 159 18 46.1 70.2 203,412 76.4
Capacity Steps EVAPORATOR Nominal Flow Rate Pressure Drops [Evaporator + Valves + Piping] F.C. Pressure Drop [F.C. Call + 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 Quantity Fan Total Absorbed Power Total Air Flow NOISE DATA Sound Pressure Level ELECTRICAL DATA Power Circuit Full Load Current (FLA) Minimum Circuit Ampacity (MCA)	GTY GPM PSI PSI PSI KW A PSI GAL TYPE GTY kW A CFM DB(A) V/PH/HZ FLA MCA	119 4 4 172 11 18 7.5 13.2 32.2 79 4 10.2 15.6 45,203 68.1	144 4 4 227 11 20 11 20.3 36.9 100 6 15.4 23.4 67,804 70.6	171 4 4 4 253 12 19 11 20.3 35.0 100 6 15.4 23.4 67,804 70.3	185 4 4 4 298 11 20 Simplex (15) 26,9 40,3 132 Axx 8 20,5 31,2 90,406 D 70,5	215 4 4 327 12 23 27 15 26.9 36.7 132 iol EC Fons 8 20.5 31.2 90,406 72.4	249 4 4 4 354 12 21 mp Options 18.5 32.1 33.6 132 Copper Tul 8 20.5 31.2 90,406 sured in on 73.7 Does not in	263 6 4 Shell & 1 403 12 22 6, Carbon Si 18.5 32.1 31.8 132 be with Alui EC 10 25.6 39.0 113,000 open field d 460/3/ 302 313	66 42 42 42 42 42 42 42	88	08 6 4 4 7 6 111 21 1 21 22 9.5 9.5 9 12 0.7 6.8 1,608 1 1554 67	339 6 4 11 19 22 39.5 43.5 159 12 30.7 46.8 35,608	357 6 4 551 12 22 30 52 38.6 159 14 35.8 54.6 158,210	416 9 6 670 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 159 18 46.1 70.2 203,412 75.4	9 6 756 13 21 CF CF CF 159 18 46.1 70.2 203,412 76.4
Capacity Steps EVAPORATOR Nominal Flow Rate Pressure Drops [Evaporator + Valves + Piping] F.C. Pressure Drop [F.C. Call + 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 Quantity 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)	GTY GPM PSI PSI PSI KW A PSI GAL TYPE GTY 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 68.1	144 4 4 227 11 20 11 20.3 36.9 100 6 15.4 23.4 67,804	171 4 4 4 253 12 19 11 20.3 35.0 100 6 15.4 23.4 67.804 70.3	185 4 4 4 298 11 20 Simplex (1) 15 26.9 40.3 132 Ax 8 20.5 31.2 90,406 D 70.5	215 4 4 327 12 23 or Puplex Pt 15 26.9 36.7 132 iol EC Fons 8 20.5 31.2 90,406 72.4	249 4 4 354 12 21 mp Options 18.5 32.1 33.6 132 Copper Tul 8 20.5 31.2 90,406 sured in on 73.7 Does not in	263 6 4 Shell & 1 403 12 22 6, Carbon Si 18.5 32.1 31.8 132 be with Alu 25.6 39.0 113,00 open field 72.1 nclude optic 460/3/ 302	66 42 42 42 42 42 42 42	88	08 6 4 4 7 6 111 21 ank Option 22 2 9.5 5 9 12 0.7 6.8 6,608 1 155	339 6 4 11 19 22 39.5 43.5 159 12 30.7 46.8 35,608	357 6 4 551 12 22 30 52 38.6 159 14 35.8 54.6 158,210 75.6	416 9 6 670 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 159 18 46.1 70.2 203,412 75.4	9 6 756 13 21 CF CF CF 159 18 46.1 70.2 203,412 76.4
Capacity Steps EVAPORATOR Nominal Flow Rate Pressure Drops [Evaporator + Valves + Piping] F.C. Pressure Drop [F.C. Cal + Evap + Valves + Piping] PUMP & TANK (OPTIONAL) Moximum Pump Absorbed Power Moximum Pump Absorbed Current Available External Pressure (Single) Tank Valume FANS & CONDENSER Fan Electronic Fan Speed Control Fan Quantity Fan Total Absorbed Power Tan Total Absorbed Current Total Air Flow NOISE DATA Sound Pressure Level ELECTRICAL DATA Power Circuit Full Load Current (FLA) Minimum Circuit Ampacity (MCA) Moximum Overcurrent Protection (MOP) DIMENSIONS & WEIGHTS	GTY GPM PSI PSI PSI KW A PSI GAL TYPE GTY kW A CFM DB[A] V/PH/HZ FLA MCA	119 4 4 172 11 18 7.5 13.2 32.2 79 4 10.2 15.6 45,203 68.1	144 4 4 227 111 20 112 20.3 36.9 100 6 15.4 23.4 67,804 70.6	171 4 4 4 253 12 19 11 20.3 35.0 100 6 15.4 23.4 67,804 70.3	185 4 4 4 298 11 20 Simplex of 15 26.9 40.3 132 Axx 8 8 20.5 31.2 90.406 D 70.5	215 4 4 4 327 12 23 27 15 26.9 36.7 132 iol EC Fans 8 20.5 31.2 90.406 251 246 260 314	249 4 4 354 12 21 mp Options 18.5 32.1 33.6 132 Copper Tul 8 20.5 31.2 90,406 sured in on 737 Does not in	263 6 4 Shell & 1 403 12 22 7 Carbon Si 18.5 32.1 31.8 132 De with Alun EC 39.0 113,000 open field d 460/3/ 302 313 357	6	88	08 6 4 4 7 6 111 21 ank Option 22 9.5 2.7 559 12 0.7 6.8 6.608 1.156 7 118	339 6 4 11 19 22 39.5 43.5 159 12 30.7 46.8 33.5,608	357 6 4 551 12 22 30 52 38.6 159 14 35.8 54.6 158,210 75.6	416 9 6 670 13 22 30 52 31.3 159 18 46.1 70.2 203,412 74.1 486 498 544	18 46.1 70.2 203,412 75.4 531 544 596	9 6 756 13 21 CF CF CF 159 18 46.1 70.2 203,412 76.4 579 593 650
Copacity Steps EVAPORATOR Nominal Flow Rate Pressure Drops [Evaporator + Valves + Piping] F.C. Pressure Drop [F.C. Call + 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 Quantity Fan Total Absorbed Power Fan Total	GTY GPM PSI PSI PSI KW A PSI GAL TYPE GTY kW A CFM DB[A] V/PH/HZ FLA MCA MOP	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	144 4 4 227 11 20 11 20.3 36.9 100 6 15.4 23.4 67,804 70.6	171 4 4 4 253 12 19 11 20.3 35.0 100 6 15.4 23.4 67,804 70.3 194 205 248	185 4 4 4 298 11 20 Simplex of 15 26.9 40.3 132 Ax 8 8 20.5 31.2 90.406 0 70.5	215 4 4 327 12 23 327 15 26,9 36,7 132 iol EC Fans 8 8 20,5 31,2 90,406 25,4 246 260 314	249 4 4 354 12 21 mp Options 18.5 32.1 33.6 132 Copper Tub 8 20.5 31.2 90,406 sured in on 737 Does not ir 280 296 358	263 6 4 Shell & 1 403 12 22 t, Carbon Si 18.5 32.1 31.8 132 20 with Alur EC 10 25.6 39.0 113,000 open field 72.1 clude option 460/3/ 302 313 357	66 42 12 13 13 13 13 13 15 15 15	88	08 6 4 76 111 21 ank Option 22 9.5 2.7 59 12 0.7 6.8 6.608 1.3567 33.6	339 6 4 11 19 22 39.5 43.5 159 12 30.7 46.8 33.5,608	357 6 4 551 12 22 30 52 38.6 159 14 35.8 54.6 158,210 75.6	416 9 6 670 13 22 30 52 31.3 159 18 46.1 70.2 203,412 74.1 486 498 544	18 46.1 70.2 203,412 75.4 596	9 6 756 13 21 CF CF CF 159 18 46.1 70.2 203,412 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) Moximum Pump Absorbed Power Moximum Pump Absorbed Current Available External Pressure (Single) Tank Valume FANS & CONDENSER fan Electronic Fan Speed Control Fan Quantily Fan Total Absorbed Power Fan Total Absorbed Current Total Air Flow NOISE DATA Sound Pressure Level ELECTRICAL DATA Power Circuit Full Load Current (FLA) Minimum Circuit Ampacity (MCA) Moximum Overcurrent Protection (MOP) DIMENSIONS & WEIGHTS Length Wridth	GTY GPM PSI PSI PSI KW A PSI GAL TYPE GTY kW A CFM DB(A) V/PH/HZ FLA MCA MOP	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	144 4 4 227 11 20 11 20.3 36.9 100 6 15.4 23.4 67,804 70.6 167 176 212	171 4 4 4 253 12 19 11 20.3 35.0 100 6 15.4 23.4 67.804 70.3 194 205 248 178 87	185 4 4 4 298 11 20 Simplex of 15 26.9 40.3 132 Ax 8 8 20.5 31.2 90,406 D 70.5 216 228 274 230 87	215 4 4 327 12 23 307 Duplex PL 15 26.9 30.7 132 iol EC fons 8 8 20.5 31.2 90,406 Distance med 72.4 246 260 314	249 4 4 4 354 12 21 mp Options 18.5 32.1 33.6 132 Copper Tub 8 20.5 31.2 90,406 sured in an 73.7 Does not in 280 296 358	263 6 4 Shell & 1 403 12 22 t, Carbon Si 18.5 32.1 31.8 132 20 with Alur EC 10 25.6 39.0 113,000 open field 460/3/ 302 313 357	6	88	08 6 4 4 776 111 21 1 21 22 2 9.5 2.7 59 12 0.7 6.6.8 1.6.608 1.1 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	339 6 4 11 19 22 39.5 43.5 159 12 30.7 46.8 335,608 17 74.7 386 400 457	357 6 4 551 12 22 38.6 159 14 35.8 54.6 158,210 75.6	416 9 6 670 13 22 30 52 31.3 159 18 46.1 70.2 203,412 74.1 486 498 544	461 9 6 714 13 23 CF CF CF 159 18 46.1 70.2 203,412 75.4 531 544 596	9 6 756 13 21 CF CF CF 159 18 46.1 70.2 203,412 76.4 579 593 650 471 87
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 Valume 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 ELECTRICAL DATA Power Circuit Full Load Current (FLA) Minimum Circuit Ampacity (MCA) Maximum Overcurrent Protection (MOP) DIMENSIONS & WEIGHTS Length Width Height	GTY GPM PSI PSI PSI KW A PSI GAL TYPE GTY kW A CFM DB(A) V/PH/HZ FLA MCA MOP	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 15.4 23.4 67,804 70.6 167 176 212	171 4 4 4 253 12 19 11 20.3 35.0 100 6 15.4 23.4 67.804 70.3 194 205 248 178 87 96	185 4 4 4 11 20 Simplex of 15 26.9 40.3 132 Ax 8 8 20.5 31.2 90,406 D 70.5 216 228 274 230 87 96	215 4 4 4 327 12 23 or Duplex Pt 15 26.9 36.7 132 iol EC fons 8 8 20.5 31.2 90,406 bistance mec 72.4 246 260 314 230 87	249 4 4 4 354 12 21 mp Options 18.5 32.1 33.6 132 Copper Tul 8 20.5 31.2 90,406 sured in on 73.7 Does not in 280 296 358 230 87 96	263 6 4 Shell & 1 403 12 22 12 22 1, Carbon Si 18.5 32.1 31.8 132 20 with Alur EC 10 25.6 39.0 113,000 open field 460/3/ 302 313 357	660 288 88	88	08 6 4 4 776 111 21 1 21 22 2 9.5 2.7 59 12 2.7 59 12 3.6 6.8 1.15er 3.3.6 138 32 87 226	339 6 4 11 19 22 39.5 43.5 159 12 30.7 46.8 33.5,608	357 6 4 551 12 22 30 52 38.6 159 14 35.8 54.6 158,210 75.6	416 9 6 670 13 22 30 52 31.3 159 18 46.1 70.2 203,412 74.1 486 498 544 471 87 96	461 9 6 714 13 23 CF CF CF 159 18 46.1 70.2 203,412 75.4 531 544 596	9 6 756 13 21 CF CF CF 159 18 46.1 70.2 203,412 76.4 579 593 650 471 87 96
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 Valume FANS & CONDENSER fan Electronic fan Speed Control fan Quantily 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 Wright	GTY GPM PSI PSI PSI KW A PSI GAL TYPE GTY kW A CFM DB(A) V/PH/HZ FLA MCA MOP	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	144 4 4 227 11 20 11 20.3 36.9 100 6 15.4 23.4 67,804 70.6 167 176 212	171 4 4 4 253 12 19 11 20.3 35.0 100 6 15.4 23.4 67.804 70.3 194 205 248 178 87	185 4 4 4 298 11 20 Simplex of 15 26.9 40.3 132 Ax 8 8 20.5 31.2 90,406 D 70.5 216 228 274 230 87	215 4 4 327 12 23 307 Duplex PL 15 26.9 30.7 132 iol EC fons 8 8 20.5 31.2 90,406 Distance med 72.4 246 260 314	249 4 4 4 354 12 21 mp Options 18.5 32.1 33.6 132 Copper Tub 8 20.5 31.2 90,406 sured in an 73.7 Does not in 280 296 358	263 6 4 Shell & 1 403 12 22 t, Carbon Si 18.5 32.1 31.8 132 20 with Alur EC 10 25.6 39.0 113,000 open field 460/3/ 302 313 357	660 288 88	88	08 6 4 4 7 7 6 111 21 1 21 22 2 9 5 2 . 7 5 9 12 2 0 . 7 6 6 . 8 6 6 0 8 1 . 1 5 4 6 7 118 18 18 3 2 2 8 7 9 6 6	339 6 4 11 19 22 39.5 43.5 159 12 30.7 46.8 33.5,608	357 6 4 551 12 22 38.6 159 14 35.8 54.6 158,210 75.6	416 9 6 670 13 22 30 52 31.3 159 18 46.1 70.2 203,412 74.1 486 498 544	461 9 6 714 13 23 CF CF CF 159 18 46.1 70.2 203,412 75.4 531 544 596	9 6 756 13 21 CF CF CF 159 18 46.1 70.2 203,412 76.4 579 593 650 471 87

^{*} Renformance rated at 44°F outlet water, 54°F Inlet Water, 95°F Ambient, 100% water. Chiller capacity changes with operating conditions, consult Motivair, for assistance. Location and installation of equipment by officers © 2023 Motivair Corporation. Motivair reserves the right to modify specifications without notice. Reproduction of this brochuse in whole or in part is prohibited.





MPC & MPC-FC

1/2-50 ton packaged air-cooled or water-cooled chillers for Industrial cooling, Medical cooling or custom HVAC applications. Includes integrated microprocessor, pump station, and storage reservoir.



MLC & MLC-FC

60-500 tons air-cooled, water-cooled & split system chillers for industrial or HVAC applications. Available Integrated Free-Cooling.



ChilledDoor®

Advanced server rack cooling system fits and standard or OEM computer rack. Removes up to 75 kW of server heat per door.



CDU

Coolant Distribution Unit from 20kW -1 MW heat removal for use with the ChilledDoor® or other computer cooling systems.



DTS

Pump/Tank Stations for chillers and cooling systems.



MFC

Closed loop dry-coolers for process cooling and remote "Free-Cooling" applications.

5900 Genesee St. Lancaster, NY 14086 Tel: +1 716-691-9222