

THERMAL MANAGEMENT **MLC-SC Air-Cooled Scroll Chillers** 100 – 285 Tons

## The Ultimate Solution For Optimal Energy Savings

The pioneer of free-cooling chiller technology, Motivair's MLC-FC Chillers are ETL-Tested and Listed to current UL & CSA standards

The Motivair<sup>®</sup> MLC-SC-FC chillers with integrated "Free-Cooling" are designed to provide the owner with optimal performance, year round, in varying ambient temperatures.

#### **AVAILABLE MODELS**

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.

### HOW THE SYSTEM WORKS

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.

### THE BENEFITS OF FREE COOLING

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 nvestment in the first year of operation





### Designed with 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.

# 2 CONDESNER

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.

#### 3 EVAPORATORS V-Coil profile cor

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.

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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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### Gain Speed to Insight with Centurion Monitoring System

Available on select Motivair chillers as an optional feature, the Centurion <sup>™</sup> Monitoring System provides owners access to critical data and a range of safeties measures.

### **FEATURES**



### 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

 Backed by the security of AWS cloud services and T-Mobile/AT&T cellular networks

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
- Return water temperature alar
- 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
   ION BACNET MODBUS
  - LON, BACNET, MODBUS communication (optional) MLC & MLC-FC CONTROLS PC05 Display PC05

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### **Application Defined Features & Options**



- 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

### **STANDARD FEATURES:**

- R-410A RefrigerantFactory Installed Flow Switch
- Locking Disconnect Switch
- Phase and Power Monitoring
- Prase 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



### **Technical Specifications**

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MLC-SC-A CHILLER RANGE	MLC-SC	200	270	340	390	460	490	510	560	600	660	690	820	930	1100	1150
WITH SCROLL COMPRESSORS																
Nominal Cooling Capacity* Nominal Cooling Capacity	btu/hr Ton	825,244 69	988,899 82	1,207,163	1,336,735 111	1,466,341	1,691,402 141	1,834,600	1,953,961 163	2,185,851	2,318,838	2,434,784	1 2,932,648 244	3 3,109,964	3,607,829 301	3,805,636 317
Type Of Refrigerant	TYPE	07	02	101	111	IZZ	141	R-410a	105	102	17 J	203	244	237	501	517
Number Of Refrigerating Circuits	QTY	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3
Total Compressor Running Current	A	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							S	hell & Tube	;							
Nominal Flow Rate	GPM	183	219	267	296	325	375	407	433	484	514	540	650	689	799	843
Pressure Drops (Evaporator + Valves + Piping)	PSI	10	8	10	9	9	11	10	10	10	10	9	10	9	11	10
PUMP & TANK (OPTIONAL) Maximum Pump Absorbed Power	KW	7.5	11	11	implex or D 15	15	Options, Co 18.5	irbon Steel 18.5	or Stainle 18.5	ss Steel Tar 22	nk Options 22	30	30	CF	CF	CF
Maximum Pump Absorbed Current	A	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 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						al EC Fans &		with Alum	ninum Fin (	Condenser						
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	kW	10.2	10.2	15.4	15.4	15.4	20.5	20.5	20.5	25.6	25.6	25.6	30.7	30.7	46.1	46.1
Fan Total Absorbed Current	A	15.6	15.6	23.4	23.4	23.4	31.2	31.2	31.2	39.0	39.0	39.0	46.8	46.8	70.2	70.2
Total Air Flow	CFM	51,324	51,324	76,986	76,986	76,986	102,648	102,648	102,648	128,310	128,310	128,310	153,972	153,972	230,958	230,958
NOISE DATA	DDIA	401	70.0	70.0	Disi	Tance measu	red in an op	en field at 3	33 feet fro	m Condens	ser 77. f	75.0	70.0	71.0	7/ *	770
Sound Pressure Level	DB(A)	68.1	70.0	70.3	70.0	72.0	73.7	71.7	71.5	73.4	74.4	75.3	73.3	74.8	76.4	77.2
ELECTRICAL DATA Power Circuit	V/PH/HZ					D	bes not inclu	<u>de optiona</u> 460/3/60	ll pump(s)							
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	125	174	194	207	254	203	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	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Estimated. Shipping Weight	LBS.	5,732	5,732	7,341	7,341	7,341	9,789	9,789	9,789	12,236	12,236	12,236	15,939	15,939	22,024	22,024
Hydraulic Connections (Inlet/Outlet)	IN	5	5	5	6	6	6	6	6	6	6	8	8	8	8	8
MLC-SC-FC CHILLER RANGE	MLC-SC-FC	200	270	340	390	460	490	510	5/	50	600	660	690	820	930	1100
WITH SCROLL COMPRESSORS				0.0						~				020		
	DTII/LID	777500	1 0 22 0 17	1142 277	12/256	6 1 176 552	1 505 013	1 01754	50 1022	2504 21	10 252 0	274 500	2 405 0 42 '	2 0 2 4 7 2 2	2 222 405	2 /12 /71
Nominal Cooling Capacity*	BTU/HR TON	777,500	1,023,017	1,142,377	1,343,560		1,595,913				-				3,222,495	3,413,471
Nominal Cooling Capacity	TON	65	85	95	112	123	133	151	10	51	179	190	207	252	269	284
Nominal Cooling Capacity 100% Free Cooling Ambient Temperature	TON °F							151 32	1d 3	51						
Nominal Cooling Capacity	TON	65	85	95	112	123	133	151	10 3 a	51	179	190	207	252	269	284
Nominal Cooling Capacity 100% Free Cooling Ambient Temperature Type Of Refrigerant Gas	°F TYPE	65 29	85 33	95 30	112 33	123 31	133 29	151 32 R-410d	10 3 a	0	179 32	190 30	207 32	252 33	269 32	284 30
Nominal Cooling Capacity 100% Free Cooling Ambient Temperature Type Of Refrigerant Gas Number Of Refrigerating Circuits Total Compressor Running Current Number Of Compressors	TON °F TYPE QTY	65 29 2	85 33 2	95 30 2	112 33 2	123 31 2	133 29 2	151 32 R-410a 2	10 3 3 2 20	0	179 32 2	190 30 2	207 32 2	252 33 3	269 32 3	284 30 3
Nominal Cooling Capacity 100% Free Cooling Ambient Temperature Type Of Refrigerant Gas Number Of Refrigerating Circuits Total Compressor Running Current	TON °F TYPE QTY A	65 29 2 119	85 33 2 144	95 30 2 171	112 33 2 185	123 31 2 215	133 29 2 2 249	151 32 R-410c 2 263 6 4	10 3 2 20 0 0 0	51 0 2 21	179 32 2 308	190 30 2 339	207 32 2 357	252 33 3 416	269 32 3 461	284 30 3 509
Nominal Cooling Capacity           100% Free Cooling Ambient Temperature           Type Of Refrigerant Gas           Number Of Refrigeranting Circuits           Total Compressor Running Current           Number Of Compressors           Capacity Steps           EVAPORATOR	TON °F TYPE QTY A QTY QTY	65 29 2 119 4 4	85 33 2 144 4 4	95 30 2 171 4 4	112 33 2 185 4 4	123 31 2 215 4 4	133 29 2 249 4 4	151 32 R-410c 2 263 6 4 Shell & T	10 3 2 2 0 0 0 2 0 0 0 0 0 0 0 0 0 0 0 0	2 2 2 2 2 2 2 3 5 4	179 32 2 308 6 4	190           30           2           339           6           4	207 32 2 357 6 4	252 33 3 416 9 6	269 32 3 461 9 6	284 30 3 509 9 6
Nominal Cooling Capacity           100% Free Cooling Ambient Temperature           Type Of Refrigerant Gas           Number Of Refrigerating Circuits           Total Compressor Running Current           Number Of Compressors           Capacity Steps           EVAPORATOR           Nominal Flow Rate	TON °F TYPE QTY A QTY QTY QTY	65 29 2 119 4 4 172	85 33 2 144 4 4 227	95 30 2 171 4 4 4 253	112 33 2 185 4 4 4 298	123 31 2 215 4 4 4 327	133 29 2 249 4 4 354	151 32 R-410c 2 263 6 4 Shell & T 403	10 3 2 2 2 0 2 0 2 0 2 2 0 2 2 0 2 2 0 2 0	2 2 2 2 2 2 2 2 2 2 2 3 5 4 4 2 8	179 32 2 308 6 4 476	190           30           2           339           6           4           504	207 32 2 357 6 4 551	252 33 3 416 9 6 6	269 32 3 461 9 6 714	284 30 3 509 9 6 756
Nominal Cooling Capacity           100% Free Cooling Ambient Temperature           Type Of Refrigerant Gas           Number Of Refrigeranting Circuits           Total Compressor Running Current           Number Of Compressors           Capacity Steps           EVAPORATOR           Nominal Flow Rate           Pressure Drops (Evaporator + Valves + Piping)	TON °F TYPE QTY A QTY QTY QTY GPM PSI	65 29 2 119 4 4 172 11	85 33 2 144 4 4 227 11	95 30 2 171 4 4 253 12	112 33 2 185 4 4 4 298 11	123 31 2 215 4 4 327 12	133 29 2 249 4 4 354 12	151 32 R-410c 2 263 6 4 <b>Shell &amp; T</b> 403 12	10 3 3 2 2 4 2 4 2 4 2 4 2 4 2 4 2 1	51 0 2 2 71 5 5 4 228 2	179 32 2 308 6 4 476 11	190       30       2       339       6       4       504       11	207 32 2 357 6 4 551 12	252 33 416 9 6 6 670 13	269 32 3 461 9 6 714 13	284 30 3 509 9 6 756 13
Nominal Cooling Capacity           100% Free Cooling Ambient Temperature           Type Of Refrigerant Gas           Number Of Refrigeranting Circuits           Total Compressor Running Current           Number Of Compressors           Capacity Steps           EVAPORATOR           Nominal Flow Rate           Pressure Drops (Evaporator + Valves + Piping)           F.C. Pressure Drop (F.C. Cal + Evap + Valves + Piping)	TON °F TYPE QTY A QTY QTY QTY	65 29 2 119 4 4 172	85 33 2 144 4 4 227	95 30 2 171 4 4 4 253	112 33 2 185 4 4 4 298	123 31 2 215 4 4 4 327	133 29 2 249 4 4 354	151 32 R-410c 2 263 6 4 Shell & T 403	10 3 2 2 2 0 2 0 2 0 2 2 0 2 2 0 2 2 0 2 0	51 0 2 2 71 5 5 4 228 2	179 32 2 308 6 4 476 11 21	190           30           2           339           6           4           504	207 32 2 357 6 4 551	252 33 3 416 9 6 6	269 32 3 461 9 6 714	284 30 3 509 9 6 756
Nominal Cooling Capacity           100% Free Cooling Ambient Temperature           Type Of Refrigerant Gas           Number Of Refrigerant Gas           Total Compressor Running Current           Number Of Compressors           Capacity Steps           EVAPORATOR           Nominal Flow Rate           Pressure Drops (Evaporator + Valves + Piping)           F.C. Pressure Drop (F.C. Cal + Exp + Valves + Piping)           PUMP & TANK (OPTIONAL)	TON °F TYPE QTY A QTY QTY GPM PSI PSI	65 29 2 119 4 4 4 172 11 11 18	85 33 2 144 4 4 227 11 20	95 30 2 171 4 4 4 253 12 19	112 33 2 185 4 4 4 298 11 20 Simplex (	123 31 2 215 4 4 4 327 12 23 or Duplex Pu	133 29 2 249 4 4 354 12 21 mp Options	151 32 R-410c 2 6 6 4 Shell & T 403 12 22 22 Carbon Str	10 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	51 0 2 2 71 5 5 4 4 28 2 2 0 0 0 0	179 32 2 308 6 4 4 76 11 21 2 Tank Optio	190 30 2 339 6 4 504 11 19 19	207 32 2 357 6 4 551 12 22	252 33 3 416 9 6 670 13 22	269 32 461 9 6 714 13 23	284 30 3 509 9 6 756 13 21
Nominal Cooling Capacity           100% Free Cooling Ambient Temperature           Type Of Refrigerant Gas           Number Of Refrigerant Gas           Total Compressor Running Current           Number Of Compressors           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	TON °F TYPE QTY A QTY QTY QTY PSI PSI PSI KW	65 29 2 119 4 4 4 172 11 18 7,5	85 33 2 144 4 4 227 11 20 11	95 30 2 171 4 4 4 253 12 19 19	112 33 2 185 4 4 4 298 11 20 Simplex ( 15	123 31 215 4 4 327 12 23 or Duplex Pu	133 29 2 249 4 4 4 354 12 21 mp Options 18.5	151 32 R-410c 2 263 6 4 <b>Shell &amp; T</b> 403 12 22 22 <b>Carbon Str</b> 18.5	16 3 2 2 2 4 2 2 0 0 6 4 2 10 6 4 2 10 2 9 6 10 10 10 10 10 10 10 10 10 10 10 10 10	51 0 2 2 71 5 5 4 4 228 2 2 0 0 0 0 1 1055 Steel 1.5	179 32 308 6 4 4 76 11 21 <b>Tank Optic</b> 22	190           30           2           339           6           4           504           11           19           22	207 32 357 6 4 551 12 22 30	252 33 416 9 6 6 70 13 22 30	269 32 461 9 6 714 13 23 CF	284 30 3 509 9 6 756 13 21 CF
Nominal Cooling Capacity           100% Free Cooling Ambient Temperature           Type Of Refrigerant Gas           Number Of Refrigeranting Circuits           Total Compressor Running Current           Number Of Compressors           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	TON °F TYPE QTY A QTY QTY QTY GPM PSI PSI PSI KW A	65 29 2 119 4 4 4 172 11 18 7.5 13.2	85 33 2 144 4 4 227 11 20  11 20.3	95 30 2 171 4 4 4 253 12 19 19 11 20.3	112 33 2 185 4 4 4 298 11 20 Simplex ( 15 26.9	123 31 215 4 4 327 12 23 or Duplex Pu 15 26.9	133 29 249 4 4 354 12 21 mp Options 18.5 32.1	151 32 R-410c 2 2263 6 4 <b>Shell &amp; T</b> 403 12 22 <b>Carbon Sh</b> 18.5 32.1	16 3 2 2 2 4 2 4 2 4 2 1 1 2 2 6 6 1 2 2 6 1 1 2 1 2 1 2 1 2	51 0 22 27 27 28 28 28 28 20 0 0 <b>nless Steel</b> 2.1	179 32 308 6 4 4 76 11 21 <b>Tank Optic</b> 22 39.5	190           30           2           339           6           4           504           11           19           22           39,5	207 32 357 6 4 551 12 22 30 52	252 33 416 9 6 6 70 13 22 30 52	269 32 3 461 9 6 714 13 23 CF CF	284 30 3 509 9 6 756 13 21 CF CF
Nominal Cooling Capacity           100% Free Cooling Ambient Temperature           Type Of Refrigerant Gas           Number Of Refrigeranting Circuits           Total Compressor Running Current           Number Of Compressors           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)	TON °F TYPE QTY A QTY QTY QTY PSI PSI PSI KW A PSI	65 29 2 119 4 4 4 172 11 18 7.5 13.2 32.2	85 33 2 144 4 4 227 11 20 11 20.3 36.9	95 30 2 171 4 4 4 253 12 19 19 11 20.3 35.0	112 33 2 185 4 4 4 298 11 20 <b>Simplex</b> ( 15 26.9 40.3	123 31 215 4 4 327 12 23 or Duplex Pu 15 26.9 36.7	133 29 249 4 4 354 12 21 mp Options 18.5 32.1 33.6	151 32 R-410c 2 2263 6 4 <b>Shell &amp; T</b> 403 12 22 <b>Carbon Sh</b> 18.5 32.1 31.8	16           3           2           24           6           24           24           24           24           24           24           24           24           25           26           27           28           29           20           21           11           22           23           33	51 0 2 2 2 2 2 3 5 4 4 2 8 8 2 0 0 8 .5 2.1 3.2	179 32 308 6 4 4 76 11 21 <b>Tank Optic</b> 22 39.5 42.7	190           30           2           339           6           4           504           11           19           22           39,5           43,5	207 32 357 6 4 551 12 22 30 52 38.6	252 33 416 9 6 6 70 13 22 30 52 31.3	269 32 3 461 9 6 714 13 23 23 CF CF CF	284 30 3 509 9 6 756 13 21 21 CF CF CF
Nominal Cooling Capacity           100% Free Cooling Ambient Temperature           Type Of Refrigerant Gas           Number Of Refrigeranting Circuits           Total Compressor Running Current           Number Of Compressors           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	TON °F TYPE QTY A QTY QTY QTY GPM PSI PSI PSI KW A	65 29 2 119 4 4 4 172 11 18 7.5 13.2	85 33 2 144 4 4 227 11 20  11 20.3	95 30 2 171 4 4 4 253 12 19 19 11 20.3	112 33 2 185 4 4 4 298 11 20 Simplex ( 15 26.9	123 31 215 4 4 327 12 23 or Duplex Pu 15 26.9	133 29 249 4 4 354 12 21 mp Options 18.5 32.1	151 32 R-410c 2 2263 6 4 <b>Shell &amp; T</b> 403 12 22 <b>Carbon Sh</b> 18.5 32.1	16           3           2           24           25           26           27           26           27           28           42           11           2           2           2           2           2           2           2           2           2           2           2           2           32           33           13	51 0 22 27 27 28 28 28 28 20 0 0 <b>nless Steel</b> 2.1	179 32 308 6 4 4 76 11 21 <b>Tank Optic</b> 22 39.5	190           30           2           339           6           4           504           11           19           22           39,5	207 32 357 6 4 551 12 22 30 52	252 33 416 9 6 6 70 13 22 30 52	269 32 3 461 9 6 714 13 23 CF CF	284 30 3 509 9 6 756 13 21 CF CF
Nominal Cooling Capacity           100% Free Cooling Ambient Temperature           Type Of Refrigerant Gas           Number Of Refrigeranting Circuits           Total Compressor Running Current           Number Of Compressors           Capacity Steps           EVAPORATOR           Nominal Flow Rate           Pressure Drops (Evaporator + Valves + Piping)           F.C. Pressure Drop (Ec. Cal + Exp + Valves + Piping)           PUMP & TANK (OPTIONAL)           Maximum Pump Absorbed Power           Maximum Pump Absorbed Current           Available External Pressure (Single)           Tank Volume	TON °F TYPE QTY A QTY QTY QTY PSI PSI PSI KW A PSI	65 29 2 119 4 4 4 172 11 18 7.5 13.2 32.2	85 33 2 144 4 4 227 11 20 11 20.3 36.9	95 30 2 171 4 4 4 253 12 19 19 11 20.3 35.0	112 33 2 185 4 4 4 298 11 20 Simplex ( 15 26.9 40.3	123 31 215 4 4 327 12 23 or Duplex Pu 15 26.9 36.7	133 29 249 4 4 354 12 21 mp Options 18.5 32.1 33.6	151 32 R-410c 2 2263 6 4 <b>Shell &amp; T</b> 403 12 22 <b>Carbon Sh</b> 18.5 32.1 31.8	16           3           2           24           25           26           27           26           27           28           42           11           2           2           2           2           2           2           2           2           2           2           2           2           32           33           13	51 0 2 2 2 2 2 3 5 4 4 2 8 5 2 1 8 5 5 2.1 3.2 32	179 32 308 6 4 4 76 11 21 <b>Tank Optic</b> 22 39.5 42.7	190           30           2           339           6           4           504           11           19           22           39,5           43,5	207 32 357 6 4 551 12 22 30 52 38.6	252 33 416 9 6 6 70 13 22 30 52 31.3	269 32 3 461 9 6 714 13 23 23 CF CF CF	284 30 3 509 9 6 756 13 21 21 CF CF CF
Nominal Cooling Capacity           100% Free Cooling Ambient Temperature           Type Of Refrigerant Gas           Number Of Refrigerant Gas           Total Compressor Running Current           Number Of Compressors           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	TON °F TYPE QTY A GTY QTY GPM PSI PSI KW A PSI GAL	65 29 2 119 4 4 4 172 11 18 7.5 13.2 32.2	85 33 2 144 4 4 227 11 20 11 20.3 36.9	95 30 2 171 4 4 4 253 12 19 19 11 20.3 35.0	112 33 2 185 4 4 4 298 11 20 Simplex ( 15 26.9 40.3	123 31 215 4 4 327 12 23 or Duplex Pu 15 26.9 36.7	133 29 249 4 4 354 12 21 mp Options 18.5 32.1 33.6	151 32 R-410c 2 2263 6 4 <b>Shell &amp; T</b> 403 12 22 <b>Carbon Sh</b> 18.5 32.1 31.8 132 <b>e with Alur</b>	16           3           2           2           42           42           1           2           eel or Stai           33           33           33           13	51 0 2 2 2 2 2 3 5 4 4 2 8 5 2 1 8 5 5 2.1 3.2 32	179 32 308 6 4 4 76 11 21 <b>Tank Optic</b> 22 39.5 42.7	190           30           2           339           6           4           504           11           19           22           39,5           43,5	207 32 357 6 4 551 12 22 30 52 38.6	252 33 416 9 6 6 70 13 22 30 52 31.3	269 32 3 461 9 6 714 13 23 23 CF CF CF	284 30 3 509 9 6 756 13 21 21 CF CF CF
Nominal Cooling Capacity           100% Free Cooling Ambient Temperature           Type Of Refrigerant Gas           Number Of Refrigeranting Circuits           Total Compressor Running Current           Number Of Compressors           Capacity Steps           EVAPORATOR           Nominal Flow Rate           Pressure Drops (Evaporator + Valves + Piping)           F.C. Pressure Drop (F.C. Col + Exap + Valves + Piping)           PUMP & TANK (OPTIONAL)           Maximum Pump Absorbed Current           Available External Pressure (Single)           Tank Volume           FANS & CONDENSER           Fan Electronic Fan Speed Control           Fan Quantity           Fan Total Absorbed Power	TON °F TYPE QTY A QTY QTY GPM PSI PSI PSI KW A PSI GAL TYPE QTY kW	65 29 119 4 4 172 11 18 7.5 13.2 32.2 79 4 10.2	85 33 2 144 4 4 227 11 20 20 11 20.3 36.9 100 6 15.4	95 30 2 171 4 4 4 253 12 19 19 11 20.3 35.0 100 6 15.4	112 33 2 185 4 4 4 298 11 208 5 10 5 26.9 40.3 132 Ax 8 20.5	123 31 2 215 4 4 327 12 233 ar Duplex Pu 15 26.9 36.7 132 idl EC Fans & 8 20.5	133 29 2 4 4 4 354 12 21 mp Options 18.5 32.1 32.1 32.0 33.6 132 Copper Tub 8 20.5	151 32 R-410c 2 263 6 4 <b>Shell &amp; T</b> 403 12 22 <b>Carbon 5h</b> 18.5 32.1 31.8 132 <b>e with Alur</b> EC 10 25.6	16           3           2           2           2           42           42           1           2           eel or Stai           333           333           13           minum Fin           1           2	51 0 2 2 2 2 2 5 5 4 4 2 8 2 2 0 0 1 8.5 2 2 0 0 3.5 2 3.2 2 3.2 2 0 0 5.6	179 32 2 308 6 4 4 76 11 21 70nk Optic 22 39.5 42.7 159 7 12 30.7	190           30           2           339           6           4           504           11           19           22           39.5           43.5           159           12           30.7	207 32 357 6 4 551 12 22 30 552 38.6 159 14 35.8	252 33 3 416 9 6 6 70 13 22 30 52 31.3 159 18 46.1	269 32 3 461 9 6 714 13 23 CF CF CF CF CF CF 159 18 46.1	284 30 3 509 9 6 756 13 21 21 CF CF CF CF CF CF 159 18 18 46.1
Nominal Cooling Capacity           100% Free Cooling Ambient Temperature           Type Of Refrigerant Gas           Number Of Refrigeranting Circuits           Total Compressor Running Current           Number Of Compressors           Capacity Steps           EVAPORATOR           Nominal Flow Rate           Pressure Drops (Evaporator + Valves + Piping)           FC. 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 Total Absorbed Power           Fan Total Absorbed Power	TON °F TYPE QTY A QTY QTY GPM PSI PSI PSI PSI S GAL TYPE QTY kW A	65 29 2 119 4 4 4 172 11 18 8 7.5 13.2 32.2 79 4 10.2 15.6	85 33 2 144 4 4 227 11 20 20 11 20.3 36.9 100 6 15.4 23.4	95 30 2 171 4 4 4 253 12 19 11 20.3 35.0 100 6 15.4 23.4	112 33 2 185 4 4 4 298 11 5 5 26.9 40.3 132 <b>A</b> x <b>8</b> 20.5 31.2	123 31 2 215 4 4 327 12 23 ar Duplex Pu 15 26.9 36.7 132 idl EC Fars & 8 20.5 31.2	133         29           2         249           4         4           354         12           12         21           mp Options         18.5           32.6         132           Copper Tub         8           20.5         31.2	151 32 R-410c 2 263 6 4 <b>Shell &amp; T</b> 403 12 22 <b>Carbon 5h</b> 18.5 32.1 31.8 132 <b>e with Alur</b> EC 10 25.6 39.0	16           3           2           2           2           42           42           1           2           eel or Stai           333           333           10           11           2           eel or Stai           333           13           10           11           12           13           14           25           35	51 0 2 2 2 2 2 5 5 4 4 2 8 2 2 0 0 <b>nless Steel</b> 3.5 2.1 3.2 2 2 2 0 0 <b>c</b> 5 5 4 9 1 5 5 4 9 1 5 5 4 9 1 5 5 4 9 1 5 5 4 9 1 5 5 4 9 1 5 5 4 9 1 5 5 4 9 1 5 5 4 9 1 5 5 4 9 1 5 5 4 9 1 5 5 4 9 1 5 5 4 4 9 1 5 5 5 4 9 1 5 5 4 4 9 1 5 5 5 4 4 9 1 5 5 5 4 4 9 1 5 5 5 7 1 5 5 5 7 1 5 5 7 1 5 5 7 1 5 5 7 1 5 5 7 1 5 5 7 1 5 5 7 1 5 5 7 1 5 5 7 1 5 5 7 1 5 5 7 1 5 7 5 7	179 32 2 308 6 4 4 76 11 21 <b>Tank Optic</b> 22 39.5 42.7 159 <b>T</b> 12 30.7 46.8	190           30           2           339           6           4           504           11           19           22           39.5           43.5           159           12           30.7           46.8	207 32 2 357 6 4 551 12 22 30 52 38.6 159 14 35.8 54.6	252 33 3 416 9 6 6 70 13 22 30 52 31.3 159 18 46.1 70.2	269 32 3 461 9 6 714 13 23 CF CF CF CF CF CF 159 18 46.1 70.2	284 30 3 509 9 6 756 13 21 21 CF CF CF CF CF CF CF 159 18 18 46.1 70.2
Nominal Cooling Capacity           100% Free Cooling Ambient Temperature           Type Of Refrigerant Gas           Number Of Refrigeranting Circuits           Total Compressor Running Current           Number Of Compressors           Capacity Steps           EVAPORATOR           Nominal Flow Rate           Pressure Drops [Evaporator + Valves + Piping]           FC. Pressure Drop [FC. Col + Scap + Valves + Piping]           PUMP & TANK (OPTIONAL)           Maximum Pump Absorbed Power           Maximum Pump Absorbed Current           Available External Pressure [Single]           Tank Volume           FANS & CONDENSER           Fan Telectronic Fan Speed Control           Fan Total Absorbed Power           Fan Total Absorbed Power           Fan Total Absorbed Power           Fan Total Absorbed Current           Total Affective Fan Total Absorbed Power	TON °F TYPE QTY A QTY QTY GPM PSI PSI PSI KW A PSI GAL TYPE QTY kW	65 29 119 4 4 172 11 18 7.5 13.2 32.2 79 4 10.2	85 33 2 144 4 4 227 11 20 20 11 20.3 36.9 100 6 15.4	95 30 2 171 4 4 4 253 12 19 19 11 20.3 35.0 100 6 15.4	112 33 2 185 4 4 4 298 11 20 20 5 26.9 40.3 132 Ax 8 20.5 31.2 90,406	123 31 2 215 4 4 327 12 23 or Duplex Pu 15 26.9 26.9 36.7 132 161 EC Fors & 8 20.5 31.2 90,406	133         29           2         249           4         4           354         12           21         mp Options           18.5         32.1           32.1         32.1           32.2         Copper Tub           8         20.5           31.2         90,406	151 32 R-410c 2 263 6 4 <b>Shell &amp; T</b> 403 12 22 <b>Carbon Sh</b> 18.5 32.1 31.8 132 <b>e with Alur</b> EC 10 25.6 39.0 113,000	16           3           2           2           4           42           1           2           eel or Stai           13           13           13           14           15           16           17           18           19           10           11           12           13           14           15           16           17           113/7	51 0 22 27 27 55 4 4 28 28 2 2 0 0 <b>nless Steel</b> 3.5 2.1 3.2 22 <b>Condenser</b> 0 5.6 0 0 5.6 2.0 13 2 2 2 2 1 3.2 2 2 2 1 3.2 2 2 2 1 3.2 3.2 2 2 1 3.2 3.2 2 2 1 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2	179 32 2 308 6 4 4 76 11 21 <b>Tank Optic</b> 22 39.5 42.7 159 <b>T</b> 30.7 46.8 35,608	190           30           2           339           6           4           504           11           19           22           39.5           43.5           159           12           30.7	207 32 357 6 4 551 12 22 30 552 38.6 159 14 35.8	252 33 3 416 9 6 6 70 13 22 30 52 31.3 159 18 46.1	269 32 3 461 9 6 714 13 23 CF CF CF CF CF CF 159 18 46.1	284 30 3 509 9 6 756 13 21 21 CF CF CF CF CF CF 159 18 18 46.1
Nominal Cooling Capacity           100% Free Cooling Ambient Temperature           Type Of Refrigerant Gas           Number Of Refrigeranting Circuits           Total Compressor Running Current           Number Of Compressors           Capacity Steps           EVAPORATOR           Nominal Flow Rate           Pressure Draps [Evaporator + Valves + Piping]           FC. Pressure Drap [F.C. Cal + Exap + Valves + Piping]           PUMP & TANK (OPTIONAL)           Maximum Pump Absorbed Power           Maximum Pump Absorbed Current           Avaidable External Pressure [Single]           Tank Volume           FANS & CONDENSER           Fan Electronic Fan Speed Control           Fan Quantity           Fan Total Absorbed Power           Fan Total Absorbed Current           Total Absorbed Power	TON °F TYPE QTY A QTY QTY QTY CPM PSI PSI PSI PSI PSI PSI PSI CFM A CFM	65 29 2 119 4 4 4 172 11 18 7.5 13.2 32.2 79 4 10.2 15.6 45,203	85 33 2 144 4 4 227 11 20 20 20 3 6.9 100 6 15.4 23.4 67,804	95 30 2 171 4 4 4 253 12 19 11 20.3 35.0 100 6 15.4 23.4 67,804	112 33 2 185 4 4 4 298 11 200 Simplex ( 5 26.9 40.3 132 Ax 8 20.5 31.2 90,406	123 31 2 215 4 4 4 327 12 23 or Duplex Pu 15 26.9 26.9 36.7 132 161 EC Fors & 8 20.5 31.2 90,406	133           29           2           249           4           354           12           21           mp Options           18.5           32.1           33.1           32.2           Copper Tub           8           20.5           31.2           90,406           ured in an	151 32 R-410c 2 263 6 4 <b>Shell &amp; T</b> 403 12 22 <b>Carbon Sh</b> 18.5 32.1 32.1 32.1 32.1 32.2 <b>Carbon Sh</b> 132 <b>Carbon Sh</b> 132 <b>Carbo</b>	16           3           2           2           42           42           1           2           eel or Stai           13           13           11           2           13           14           25           37           7           113,           113,	51 0 22 27 27 55 4 4 28 28 2 2 0 0 <b>nless Steel</b> 3.5 2.1 3.2 32 22 <b>Condenser</b> 0 0 5.6 2.0 0 7 13 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	179 32 2 308 6 4 4 76 11 21 <b>Tank Optio</b> 22 39.5 42.7 159 <b>T</b> 30.7 46.8 35,608 36,508	190           30           2           339           6           4           504           11           19           ms           22           39.5           43.5           159           12           30.7           46.8           135,608	207 32 2 357 6 4 551 12 22 30 52 38.6 159 14 35.8 54.6 158,210	252 33 3 416 9 6 6 70 13 22 30 52 31.3 159 18 46.1 70.2 203,412	269 32 3 461 9 6 714 13 23 23 CF CF CF CF CF CF CF 159 18 46.1 70.2 203,412	284 30 3 509 9 6 756 13 21 21 21 21 CF CF CF CF CF CF 159 18 46.1 70.2 203,412
Nominal Cooling Capacity           100% Free Cooling Ambient Temperature           Type Of Refrigerant Gas           Number Of Refrigerant Gas           Number Of Refrigerant Gas           Total Compressor Running Current           Number Of Compressors           Capacity Steps           EVAPORATOR           Nominal Flow Rate           Pressure Drop [Evaporator + Valves + Piping]           FUMP & 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           Total Absorbed Power           Maximum Pump Absorbed Current           Available External Pressure [Single]           Tank Volume           Fans & CONDENSER           Fan Total Absorbed Power           Fan T	TON °F TYPE QTY A QTY QTY GPM PSI PSI PSI PSI S GAL TYPE QTY kW A	65 29 2 119 4 4 4 172 11 18 8 7.5 13.2 32.2 79 4 10.2 15.6	85 33 2 144 4 4 227 11 20 20 11 20.3 36.9 100 6 15.4 23.4	95 30 2 171 4 4 4 253 12 19 11 20.3 35.0 100 6 15.4 23.4	112 33 2 185 4 4 4 298 11 20 20 5 26.9 40.3 132 Ax 8 20.5 31.2 90,406	123 31 2 215 4 4 327 12 23 or Duplex Pu 15 26.9 26.9 36.7 132 161 EC Fors & 8 20.5 31.2 90,406	133         29           2         249           4         4           354         12           21         mp Options           18.5         32.1           32.1         32.1           32.2         Copper Tub           8         20.5           31.2         90,406	151 32 R-410c 2 263 6 4 <b>Shell &amp; T</b> 403 12 22 <b>Carbon Sh</b> 18.5 32.1 31.8 132 <b>e with Alur</b> EC 10 25.6 39.0 113,000	Id           3           2           24           42           42           1           2           eel or Stai           13           13           10           12           2           13           14           15           16           17           11           18           19           10           10           11           12           13           14           13           113           113           113           113           113	51 0 22 71 55 4 228 22 0 0 1055 Steel 2.5 2.1 3.2 32 2 Condenser 0 5.6 0 0 5.6 0 0 5.6 0 0 5.6 0 0 0 13 7 7 1 5 7 1 5 7 1 5 7 1 5 7 1 5 5 7 1 5 5 7 1 5 5 7 1 5 5 7 1 5 5 7 1 5 5 7 1 5 5 7 1 5 5 7 1 5 5 7 1 5 5 7 1 5 5 7 1 5 5 7 1 5 5 7 1 5 5 7 1 5 5 7 1 5 5 7 1 5 5 7 1 5 5 7 7 1 5 5 7 7 1 5 5 7 7 1 5 5 7 7 1 5 5 7 7 1 5 5 7 7 1 5 5 7 7 1 5 5 7 7 7 7	179 32 2 308 6 4 4 76 11 21 <b>Tank Optic</b> 22 39.5 42.7 159 <b>T</b> 30.7 46.8 35,608	190           30           2           339           6           4           504           11           19           22           39.5           43.5           159           12           30.7           46.8	207 32 2 357 6 4 551 12 22 30 52 38.6 159 14 35.8 54.6	252 33 3 416 9 6 6 70 13 22 30 52 31.3 159 18 46.1 70.2	269 32 3 461 9 6 714 13 23 CF CF CF CF CF CF 159 18 46.1 70.2	284 30 3 509 9 6 756 13 21 21 CF CF CF CF CF CF CF 159 18 18 46.1 70.2
Nominal Cooling Capacity           100% Free Cooling Ambient Temperature           Type Of Refrigerant Gas           Number Of Refrigeranting Circuits           Total Compressor Running Current           Number Of Compressors           Capacity Steps           EVAPORATOR           Nominal Flow Rate           Pressure Drops [Evaporator + Valves + Piping]           FC. Pressure Drop [FC. Col + Scap + Valves + Piping]           PUMP & TANK (OPTIONAL)           Maximum Pump Absorbed Power           Maximum Pump Absorbed Current           Available External Pressure [Single]           Tank Volume           FANS & CONDENSER           Fan Total Absorbed Power           Fan Total Absorbed Power           Maximum Pump Absorbed Current           Available External Pressure [Single]           Tank Volume           FANS & CONDENSER           Fan Total Absorbed Power           Fan Total Absorbed Current           Total Ar Flow           NOISE DATA           Sound Pressure Level           ELECTRICAL DATA	TON °F TYPE QTY A QTY QTY GPM PSI PSI PSI KW A PSI GAL TYPE QTY kW A CFM DB(A)	65 29 2 119 4 4 4 172 11 18 7.5 13.2 32.2 79 4 10.2 15.6 45,203	85 33 2 144 4 4 227 11 20 20 20 3 6.9 100 6 15.4 23.4 67,804	95 30 2 171 4 4 4 253 12 19 11 20.3 35.0 100 6 15.4 23.4 67,804	112 33 2 185 4 4 4 298 11 200 Simplex ( 5 26.9 40.3 132 Ax 8 20.5 31.2 90,406	123 31 2 215 4 4 4 327 12 23 or Duplex Pu 15 26.9 26.9 36.7 132 161 EC Fors & 8 20.5 31.2 90,406	133           29           2           249           4           354           12           21           mp Options           18.5           32.1           33.1           32.2           Copper Tub           8           20.5           31.2           90,406           ured in an	151 32 R-410c 2 263 6 4 Shell & T 403 12 22 Carbon St 18.5 32.1 31.8 132 e with Alur EC 10 25.6 39.0 113,000 copen field c 72.1 clude optio	16           3           2           2           4           4           1           2           eel or Stai           18           32           33           13           10           11           12           2           eel or Stai           18           33           13           11           12           25           36           7           113,           71           71           71           71           71           71           71           71           71           71           71	51 0 22 71 55 4 228 22 0 0 1055 Steel 2.5 2.1 3.2 32 2 Condenser 0 5.6 0 0 5.6 0 0 5.6 0 0 5.6 0 0 0 13 7 7 1 5 7 1 5 7 1 5 7 1 5 7 1 5 5 7 1 5 5 7 1 5 5 7 1 5 5 7 1 5 5 7 1 5 5 7 1 5 5 7 1 5 5 7 1 5 5 7 1 5 5 7 1 5 5 7 1 5 5 7 1 5 5 7 1 5 5 7 1 5 5 7 1 5 5 7 1 5 5 7 1 5 5 7 7 1 5 5 7 7 1 5 5 7 7 1 5 5 7 7 1 5 5 7 7 1 5 5 7 7 1 5 5 7 7 1 5 5 7 7 7 7	179 32 2 308 6 4 4 76 11 21 <b>Tank Optio</b> 22 39.5 42.7 159 <b>T</b> 30.7 46.8 35,608 36,508	190           30           2           339           6           4           504           11           19           ms           22           39.5           43.5           159           12           30.7           46.8           135,608	207 32 2 357 6 4 551 12 22 30 52 38.6 159 14 35.8 54.6 158,210	252 33 3 416 9 6 6 70 13 22 30 52 31.3 159 18 46.1 70.2 203,412	269 32 3 461 9 6 714 13 23 23 CF CF CF CF CF CF CF 159 18 46.1 70.2 203,412	284 30 3 509 9 6 756 13 21 21 21 21 CF CF CF CF CF CF 159 18 46.1 70.2 203,412
Nominal Cooling Capacity           100% Free Cooling Ambient Temperature           Type Of Refrigerant Gas           Number Of Refrigeranting Circuits           Total Compressor Running Current           Number Of Compressors           Capacity Steps           EVAPORATOR           Nominal Flow Rate           Pressure Drops [Evaporator + Valves + Piping]           FUMP & TANK (OPTIONAL)           Maximum Pump Absorbed Power           Maximum Pump Absorbed Current           Available External Pressure [Single]           Tank Volume           FANS & CONDENSER           Fan Total Absorbed Power           Fan Total Absorbed Power           Maximum Pump Absorbed Current           Available External Pressure [Single]           Tank Volume           FANS & CONDENSER           Fan Total Absorbed Power           Fan Total Absorbed Current           Total Air Flow           NOISE DATA           Sound Pressure Level           ELECTRICAL DATA           Power Circuit	TON °F TYPE QTY A QTY QTY GPM PSI PSI PSI KW A PSI GAL TYPE QTY kW A CFM DB(A) V/PH/HZ	65 29 2 119 4 4 4 172 11 18 7.5 13.2 32.2 79 4 10.2 15.6 45,203 68.1	85 33 2 144 4 4 4 227 11 20 11 20.3 36.9 100 6 15.4 23.4 67,804 70.6	95 30 2 171 4 4 4 253 12 19 10 11 20.3 35.0 100 0 0 6 15.4 23.4 67,804 70.3	112 33 2 185 4 4 4 298 11 20 5 implex ( 5 26.9 40.3 132 26.9 40.3 132 20.5 31.2 90,406 5 70.5	123 31 2 215 4 4 327 12 23 or Duplex Pu 15 26.9 36.7 132 idl EC Fors & 8 20.5 31.2 90,406 vistance mea 72.4	133 29 2 249 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 73.7 Does not in	151 32 R-410c 2 263 6 4 <b>Shell &amp; T</b> 403 12 22 <b>Carbon Sh</b> 18.5 32.1 31.8 132 <b>e with ALC</b> 10 0 2.5.6 39.0 113,000 0 <b>ppen field a</b> 72.1 <b>clude optio</b> 460/3/	16           3           2           2           4           4           4           1           2           eel or Stai           18           32           33           13           11           12           eel or Stai           18           32           33           13           11           12           25           36           7           113,           13           14           33           14           33           17           13,           7           113,           13           14           33           33           13           34           35           36           37           38           39           10           11           12           13           14	51 0 22 27 27 5 5 4 28 28 28 28 28 28 28 28 28 28 28 28 28	179 32 308 6 4 4 7 6 4 7 7 1 2 1 2 1 2 1 2 2 2 39.5 42.7 159 7 7 46.8 30.7 46.8 35,608 30.7 45,608 30.7 45,608 30.7 30.7 45,608 30.7 30.7 30.7 30.7 30.7 30.7 30.7 30.7	190           30           2           339           6           4           504           11           19           39.5           43.5           159           12           30.7           46.8           135,608           74.7	207 32 357 6 4 551 12 22 30 52 38.6 159 14 35.8 54.6 158,210 75.6	252 33 3 416 9 6 6 6 70 13 22 30 52 31.3 159 18 46.1 70.2 203,412 74.1	269 32 3 461 9 6 714 13 23 23 CF CF CF CF 159 18 46.1 70.2 203,412 75.4	284 30 3 509 9 6 756 13 21 21 CF CF CF CF 159 18 46.1 70.2 203,412 76.4
Nominal Cooling Capacity           100% Free Cooling Ambient Temperature           Type Of Refrigerant Gas           Number Of Refrigerant Gas           Number Of Refrigerant Gas           Total Compressor Running Current           Number Of Compressors           Capacity Steps           EVAPORATOR           Nominal Flow Rate           Pressure Drops [Evaporator + Valves + Piping]           FC. Pressure Drop [FC. Cal + Evap + Valves + Piping]           PUMP & TANK (OPTIONAL)           Maximum Pump Absorbed Power           Maximum Pump Absorbed Current           Available External Pressure [Single]           Tank Volume           FANS & CONDENSER           Fan Guanity           Fan Total Absorbed Power           Total Absorbed Power           Fan Total Absorbed Current           Total Absorbed Power           Fan Total Absorbed Current	TON °F TYPE QTY A QTY GPM PSI PSI FSI KW A PSI GAL TYPE QTY KW A CFM DB(A) V/PH/HZ FLA	65 29 2 119 4 4 4 172 11 18 7.5 13.2 32.2 79 4 10.2 15.6 45,203 68.1	85           33           2           144           4           227           11           20           11           20.3           36.9           100           6           15.4           23.4           67.804           70.6           167	95 30 2 171 4 4 4 253 12 19 10 10 100 100 0 6 5.4 23.4 67,804 70.3 70.3	112 33 2 185 4 4 4 298 11 20 5 implex ( 26,9 40,3 132 26,9 40,3 132 20,5 31,2 90,406 0 0 0 70,5	123 31 2 215 4 4 327 12 23 or Duplex Pu 15 26.9 36.7 132 ial EC Fans & 8 20.5 31.2 90,406 246	133 29 2 249 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 73.7 Does not in 280	151 32 R-410c 2 263 6 4 <b>Shell &amp; T</b> 403 12 22 <b>Carbon Sh</b> 18,5 32,1 31,8 132 <b>e with Alur</b> EC 10 0 2,5,6 3,9,0 113,000 0,000 113,000 0,000 113,000 0,000 113,000 0,000 113,000 0,000 113,000 0,000 113,000 0,000 113,0000 113,0000 113,0000 113,0000 113,0000 113,00000 113,000000 113,0000000000	16           3           2           2           4           4           1           2           eel or Stai           18           32           33           12           eel or Stai           18           32           33           12           eel or Stai           18           32           33           12           9           11           12           25           35           7           113, jat 33 feet f           71           113, and pump           (60	51 0 22 27 27 5 5 4 28 28 28 28 28 28 28 28 28 28 28 28 28	179 32 308 6 4 4 7 6 1 1 2 1 2 1 2 1 2 1 2 39.5 42.7 159 12 30.7 46.8 35,608 354	190           30           2           339           6           4           504           11           19           ms           22           39.5           43.5           159           12           30.7           46.8           135,608           74.7           386	207 32 357 6 4 551 12 22 30 52 38.6 159 14 35.8 54.6 158,210 75.6	252 33 3 416 9 6 6 6 70 13 22 30 52 31.3 159 18 46.1 70.2 203.412 74.1 74.1	269 32 3 461 9 6 714 13 23 23 CF CF CF CF CF 159 18 46.1 70.2 203,412 75.4 531	284 30 3 509 9 6 756 13 21 21 CF CF CF CF CF 159 18 46.1 70.2 203,412 76.4
Nominal Cooling Capacity           100% Free Cooling Ambient Temperature           Type Of Refrigerant Gas           Number Of Refrigerant Gas           Number Of Refrigerant Gas           Total Compressor Running Current           Number Of Compressors           Capacity Steps           EVAPORATOR           Nominal Flow Rate           Pressure Drops [Evaporator + Valves + Piping]           F.C. Pressure Drop [F.C. Col + Sca + 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 <td>TON °F TYPE QTY A QTY GPM PSI PSI PSI KW A PSI GAL TYPE QTY kW A CFM DB(A) V/PH/HZ FLA MCA</td> <td>65           29           119           4           172           11           18           7.5           13.2           32.2           79           4           10.2           15.6           45,203           68.1           135           143</td> <td>85           33           2           144           4           227           11           20           11           20.3           36.9           100           6           15.4           23.4           67.804           70.6           167           176</td> <td>95 30 2 171 4 4 4 253 12 19 10 10 100 100 100 100 100 100 100 10</td> <td>112 33 2 185 4 4 4 298 11 20 5 implex ( 26,9 40,3 132 26,9 40,3 132 26,9 40,3 132 20,5 31,2 90,406 <b>0</b> <b>0</b> <b>0</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b></td> <td>123 31 2 215 4 4 327 12 23 or Duplex Pu 15 26.9 36.7 132 ial EC Fans &amp; 8 8 20.5 31.2 90,406 246 260</td> <td>133 29 2 249 4 4 354 12 21 mp Options 18.5 32.1 33.6 132 Copper Tub 8 8 20.5 31.2 90,406 sured in an 73.7 Does not in 280 296</td> <td>151 32 R-410c 2 263 6 4 <b>Shell &amp; T</b> 403 12 22 <b>Carbon Sh</b> 18,5 32,1 31,8 13,2 <b>e with Alur</b> EC 10 25,6 39,0 113,000 <b>carbon field c</b> 7,2,1 <b>clude optio</b> 460/3/ 302 313</td> <td>Id           3           2           2           4           42           1           2           eel or Stai           18           32           33           13           11           12           eel or Stai           13           14           33           13           13           7           113           71           33           70           71           33           71           33           71           32           70           33           60           32</td> <td>51 0 22 27 27 5 5 4 28 28 28 28 28 28 28 28 28 28 28 28 28</td> <td>179 32 308 6 4 4 7 6 1 1 2 1 2 1 2 1 2 39.5 42.7 159 12 30.7 46.8 35,608 354 354 367</td> <td>190           30           2           339           6           4           504           11           19           ns           22           39.5           43.5           159           12           30.7           46.8           135,608           74.7           386           400</td> <td>207 32 2 357 6 4 551 12 22 30 52 38.6 159 14 35.8 54.6 158,210 75.6 412 426</td> <td>252 33 3 416 9 6 6 70 13 22 30 52 31.3 159 18 46.1 70.2 203.412 74.1 74.1</td> <td>269 32 3 461 9 6 714 13 23 23 CF CF CF CF CF 159 18 46.1 70.2 203,412 75.4 75.4</td> <td>284 30 3 509 9 6 756 13 21 21 CF CF CF CF CF CF 159 18 461 70.2 203,412 76.4 759 593</td>	TON °F TYPE QTY A QTY GPM PSI PSI PSI KW A PSI GAL TYPE QTY kW A CFM DB(A) V/PH/HZ FLA MCA	65           29           119           4           172           11           18           7.5           13.2           32.2           79           4           10.2           15.6           45,203           68.1           135           143	85           33           2           144           4           227           11           20           11           20.3           36.9           100           6           15.4           23.4           67.804           70.6           167           176	95 30 2 171 4 4 4 253 12 19 10 10 100 100 100 100 100 100 100 10	112 33 2 185 4 4 4 298 11 20 5 implex ( 26,9 40,3 132 26,9 40,3 132 26,9 40,3 132 20,5 31,2 90,406 <b>0</b> <b>0</b> <b>0</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b>	123 31 2 215 4 4 327 12 23 or Duplex Pu 15 26.9 36.7 132 ial EC Fans & 8 8 20.5 31.2 90,406 246 260	133 29 2 249 4 4 354 12 21 mp Options 18.5 32.1 33.6 132 Copper Tub 8 8 20.5 31.2 90,406 sured in an 73.7 Does not in 280 296	151 32 R-410c 2 263 6 4 <b>Shell &amp; T</b> 403 12 22 <b>Carbon Sh</b> 18,5 32,1 31,8 13,2 <b>e with Alur</b> EC 10 25,6 39,0 113,000 <b>carbon field c</b> 7,2,1 <b>clude optio</b> 460/3/ 302 313	Id           3           2           2           4           42           1           2           eel or Stai           18           32           33           13           11           12           eel or Stai           13           14           33           13           13           7           113           71           33           70           71           33           71           33           71           32           70           33           60           32	51 0 22 27 27 5 5 4 28 28 28 28 28 28 28 28 28 28 28 28 28	179 32 308 6 4 4 7 6 1 1 2 1 2 1 2 1 2 39.5 42.7 159 12 30.7 46.8 35,608 354 354 367	190           30           2           339           6           4           504           11           19           ns           22           39.5           43.5           159           12           30.7           46.8           135,608           74.7           386           400	207 32 2 357 6 4 551 12 22 30 52 38.6 159 14 35.8 54.6 158,210 75.6 412 426	252 33 3 416 9 6 6 70 13 22 30 52 31.3 159 18 46.1 70.2 203.412 74.1 74.1	269 32 3 461 9 6 714 13 23 23 CF CF CF CF CF 159 18 46.1 70.2 203,412 75.4 75.4	284 30 3 509 9 6 756 13 21 21 CF CF CF CF CF CF 159 18 461 70.2 203,412 76.4 759 593
Nominal Cooling Capacity           100% Free Cooling Ambient Temperature           Type Of Refrigerant Gas           Number Of Refrigerant Gas           Number Of Refrigerant Gas           Total Compressor Running Current           Number Of Compressors           Capacity Steps           EVAPORATOR           Nominal Flow Rate           Pressure Drops [Evaporator + Valves + Piping]           F.C. Pressure Drop [F.C. Col + Exop + 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 <td>TON °F TYPE QTY A QTY GPM PSI PSI FSI KW A PSI GAL TYPE QTY KW A CFM DB(A) V/PH/HZ FLA</td> <td>65 29 2 119 4 4 4 172 11 18 7.5 13.2 32.2 79 4 10.2 15.6 45,203 68.1</td> <td>85           33           2           144           4           227           11           20           11           20.3           36.9           100           6           15.4           23.4           67.804           70.6           167</td> <td>95 30 2 171 4 4 4 253 12 19 10 10 100 100 0 6 5.4 23.4 67,804 70.3 70.3</td> <td>112 33 2 185 4 4 4 298 11 20 5 implex ( 3 26.9 40.3 132 26.9 40.3 132 20.5 31.2 90,406 0 0 0 5 70.5</td> <td>123 31 2 215 4 4 327 12 23 or Duplex Pu 15 26.9 36.7 132 ial EC Fans &amp; 8 20.5 31.2 90,406 246</td> <td>133 29 2 249 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 73.7 Does not in 280</td> <td>151 32 R-410c 2 263 6 4 <b>Shell &amp; T</b> 403 12 22 <b>Carbon Sh</b> 18,5 32,1 31,8 132 <b>e with Alur</b> EC 10 0 2,5,6 3,9,0 113,000 0,000 113,000 0,000 113,000 0,000 113,000 0,000 113,000 0,000 113,000 0,000 113,000 0,000 113,0000 113,0000 113,0000 113,0000 113,0000 113,00000 113,000000 113,0000000000</td> <td>16           3           2           2           4           4           1           2           eel or Stai           18           32           33           12           eel or Stai           18           32           33           12           eel or Stai           18           32           33           12           9           11           12           25           35           7           113, jat 33 feet f           71           113, and pump           (60</td> <td>51 0 22 27 27 5 5 4 28 28 28 28 28 28 28 28 28 28 28 28 28</td> <td>179 32 308 6 4 4 7 6 1 1 2 1 2 1 2 1 2 39.5 42.7 159 12 30.7 46.8 35,608 354</td> <td>190           30           2           339           6           4           504           11           19           ms           22           39.5           43.5           159           12           30.7           46.8           135,608           74.7           386</td> <td>207 32 357 6 4 551 12 22 30 52 38.6 159 14 35.8 54.6 158,210 75.6</td> <td>252 33 3 416 9 6 6 6 70 13 22 30 52 31.3 159 18 46.1 70.2 203.412 74.1 74.1</td> <td>269 32 3 461 9 6 714 13 23 23 CF CF CF CF CF 159 18 46.1 70.2 203,412 75.4 531</td> <td>284 30 3 509 9 6 756 13 21 21 CF CF CF CF CF 159 18 46.1 70.2 203,412 76.4</td>	TON °F TYPE QTY A QTY GPM PSI PSI FSI KW A PSI GAL TYPE QTY KW A CFM DB(A) V/PH/HZ FLA	65 29 2 119 4 4 4 172 11 18 7.5 13.2 32.2 79 4 10.2 15.6 45,203 68.1	85           33           2           144           4           227           11           20           11           20.3           36.9           100           6           15.4           23.4           67.804           70.6           167	95 30 2 171 4 4 4 253 12 19 10 10 100 100 0 6 5.4 23.4 67,804 70.3 70.3	112 33 2 185 4 4 4 298 11 20 5 implex ( 3 26.9 40.3 132 26.9 40.3 132 20.5 31.2 90,406 0 0 0 5 70.5	123 31 2 215 4 4 327 12 23 or Duplex Pu 15 26.9 36.7 132 ial EC Fans & 8 20.5 31.2 90,406 246	133 29 2 249 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 73.7 Does not in 280	151 32 R-410c 2 263 6 4 <b>Shell &amp; T</b> 403 12 22 <b>Carbon Sh</b> 18,5 32,1 31,8 132 <b>e with Alur</b> EC 10 0 2,5,6 3,9,0 113,000 0,000 113,000 0,000 113,000 0,000 113,000 0,000 113,000 0,000 113,000 0,000 113,000 0,000 113,0000 113,0000 113,0000 113,0000 113,0000 113,00000 113,000000 113,0000000000	16           3           2           2           4           4           1           2           eel or Stai           18           32           33           12           eel or Stai           18           32           33           12           eel or Stai           18           32           33           12           9           11           12           25           35           7           113, jat 33 feet f           71           113, and pump           (60	51 0 22 27 27 5 5 4 28 28 28 28 28 28 28 28 28 28 28 28 28	179 32 308 6 4 4 7 6 1 1 2 1 2 1 2 1 2 39.5 42.7 159 12 30.7 46.8 35,608 354	190           30           2           339           6           4           504           11           19           ms           22           39.5           43.5           159           12           30.7           46.8           135,608           74.7           386	207 32 357 6 4 551 12 22 30 52 38.6 159 14 35.8 54.6 158,210 75.6	252 33 3 416 9 6 6 6 70 13 22 30 52 31.3 159 18 46.1 70.2 203.412 74.1 74.1	269 32 3 461 9 6 714 13 23 23 CF CF CF CF CF 159 18 46.1 70.2 203,412 75.4 531	284 30 3 509 9 6 756 13 21 21 CF CF CF CF CF 159 18 46.1 70.2 203,412 76.4
Nominal Cooling Capacity           100% Free Cooling Ambient Temperature           Type Of Refrigerant Gas           Number Of Refrigerant Gas           Number Of Refrigerant Gas           Total Compressor Running Current           Number Of Compressors           Capacity Steps           EVAPORATOR           Nominal Flow Rate           Pressure Drops [Evaporator + Valves + Piping]           F.C. Pressure Drop [F.C. Col + Scop + Valves + Piping]           PUMP & TANIX (OPTIONAL)           Maximum Pump Absorbed Power           Maximum Pump Absorbed Current           Available External Pressure [Single]           Tank Volume           FANS & CONDENSER           Fan Electonic Fan Speed Control           Fan Total Absorbed Power           Fan Total Absorbed Power <td>TON °F TYPE QTY A QTY GPM PSI PSI PSI KW A PSI GAL TYPE QTY kW A CFM DB(A) V/PH/HZ FLA MOP</td> <td>65           29           119           4           172           11           18           7.5           13.2           32.2           79           4           10.2           15.6           45,203           68.1           135           143</td> <td>85           33           2           144           4           227           11           20           11           20.3           36.9           100           6           15.4           23.4           67.804           70.6           167           176           212</td> <td>95 30 2 171 4 4 4 253 12 19 10 10 100 100 100 100 100 100 100 10</td> <td>112 33 2 185 4 4 4 298 11 20 5 implex ( 26,9 40,3 132 26,9 40,3 132 8 8 20,5 31,2 90,406 <b>D</b> 70,5 216 228 274</td> <td>123 31 2 215 4 4 327 12 23 or Duplex Pu 15 26.9 36.7 132 id EC Fors &amp; 8 8 20.5 31.2 90,406 72.4 246 260 314</td> <td>133 29 2 249 4 4 354 12 21 12 21 12 21 12 21 18.5 32.1 33.6 132 Copper Tub 8 8 20.5 31.2 90,406 sured in an 73.7 Does not in 280 296 358</td> <td>151 32 R-410c 2 263 6 4 <b>Shell &amp; T</b> 403 12 22 <b>Carbon 5H</b> 18.5 32.1 31.8 132 <b>e with Alun</b> EC 10 25.6 39.00 113,000 113,000 113,000 25.6 39.00 113,0000 113,0000 113,0000 110,0000 110,0000 110,0000 110,0000 110,0000 110,0000 110,00</td> <td>Id           3           2           2           42           42           1           2           eel or Stai           18           32           33           33           12           eel or Stai           18           32           33           10           11           12           eel or Stai           13           10           11           25           36           7           113,0           at 33 feel f           71           ynal pump           (60           32           34</td> <td>51 0 2 2 71 5 4 28 2 8 2 0 0 1.5 5 2.1 0 0 5.5 2.1 0 0 5.5 2.1 0 0 5.5 2.1 0 0 1.5 5 2.1 0 0 1.5 5 1.5 1.5 1.5 1.5 1.5 1.5</td> <td>179 32 2 308 6 4 4 7 6 4 7 7 7 8 7 7 2 30.7 4 2.7 30.7 4 6.8 35,608 35,608 354 367 418</td> <td>190           30           2           339           6           4           504           11           19           22           39.5           43.5           159           12           30.7           46.8           135,608           74.7           386           400           457</td> <td>207 32 357 6 4 551 12 22 30 52 38.6 159 14 35.8 54.6 158,210 75.6 75.6</td> <td>252 33 3 416 9 6 6 70 13 22 30 52 31.3 159 18 46.1 70.2 203.412 74.1 74.1</td> <td>269 32 3 461 9 6 714 13 23 23 CF CF CF CF CF 159 18 46.1 70.2 203,412 75.4 75.4</td> <td>284 30 3 509 9 6 756 13 21 21 CF CF CF CF CF CF 159 18 461 70.2 203,412 76.4 759 593</td>	TON °F TYPE QTY A QTY GPM PSI PSI PSI KW A PSI GAL TYPE QTY kW A CFM DB(A) V/PH/HZ FLA MOP	65           29           119           4           172           11           18           7.5           13.2           32.2           79           4           10.2           15.6           45,203           68.1           135           143	85           33           2           144           4           227           11           20           11           20.3           36.9           100           6           15.4           23.4           67.804           70.6           167           176           212	95 30 2 171 4 4 4 253 12 19 10 10 100 100 100 100 100 100 100 10	112 33 2 185 4 4 4 298 11 20 5 implex ( 26,9 40,3 132 26,9 40,3 132 8 8 20,5 31,2 90,406 <b>D</b> 70,5 216 228 274	123 31 2 215 4 4 327 12 23 or Duplex Pu 15 26.9 36.7 132 id EC Fors & 8 8 20.5 31.2 90,406 72.4 246 260 314	133 29 2 249 4 4 354 12 21 12 21 12 21 12 21 18.5 32.1 33.6 132 Copper Tub 8 8 20.5 31.2 90,406 sured in an 73.7 Does not in 280 296 358	151 32 R-410c 2 263 6 4 <b>Shell &amp; T</b> 403 12 22 <b>Carbon 5H</b> 18.5 32.1 31.8 132 <b>e with Alun</b> EC 10 25.6 39.00 113,000 113,000 113,000 25.6 39.00 113,0000 113,0000 113,0000 110,0000 110,0000 110,0000 110,0000 110,0000 110,0000 110,00	Id           3           2           2           42           42           1           2           eel or Stai           18           32           33           33           12           eel or Stai           18           32           33           10           11           12           eel or Stai           13           10           11           25           36           7           113,0           at 33 feel f           71           ynal pump           (60           32           34	51 0 2 2 71 5 4 28 2 8 2 0 0 1.5 5 2.1 0 0 5.5 2.1 0 0 5.5 2.1 0 0 5.5 2.1 0 0 1.5 5 2.1 0 0 1.5 5 1.5 1.5 1.5 1.5 1.5 1.5	179 32 2 308 6 4 4 7 6 4 7 7 7 8 7 7 2 30.7 4 2.7 30.7 4 6.8 35,608 35,608 354 367 418	190           30           2           339           6           4           504           11           19           22           39.5           43.5           159           12           30.7           46.8           135,608           74.7           386           400           457	207 32 357 6 4 551 12 22 30 52 38.6 159 14 35.8 54.6 158,210 75.6 75.6	252 33 3 416 9 6 6 70 13 22 30 52 31.3 159 18 46.1 70.2 203.412 74.1 74.1	269 32 3 461 9 6 714 13 23 23 CF CF CF CF CF 159 18 46.1 70.2 203,412 75.4 75.4	284 30 3 509 9 6 756 13 21 21 CF CF CF CF CF CF 159 18 461 70.2 203,412 76.4 759 593
Nominal Cooling Capacity           100% Free Cooling Ambient Temperature           Type Of Refrigerant Gas           Number Of Refrigerant Gas           Number Of Refrigerant Gas           Total Compressor Running Current           Number Of Compressors           Capacity Steps           EVAPORATOR           Nominal Flow Rate           Pressure Drops [Evaporator + Valves + Piping]           F.C. Pressure Drop [F.C. Col + Exop + 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 <td>TON °F TYPE QTY A QTY GPM PSI PSI PSI KW A PSI GAL TYPE QTY kW A CFM DB(A) V/PH/HZ FLA MCA</td> <td>65 29 2 119 4 4 4 172 11 18 7.5 13.2 32.2 79 4 10.2 15.6 45,203 68.1 135 143 172</td> <td>85           33           2           144           4           227           11           20           11           20.3           36.9           100           6           15.4           23.4           67.804           70.6           167           176</td> <td>95 30 2 171 4 4 4 253 12 19 11 20.3 35.0 100 100 6 6 15.4 23.4 67804 70.3 70.3</td> <td>112 33 2 185 4 4 4 298 11 20 5 implex ( 26,9 40,3 132 26,9 40,3 132 26,9 40,3 132 20,5 31,2 90,406 <b>0</b> <b>0</b> <b>0</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b></td> <td>123 31 2 215 4 4 327 12 23 or Duplex Pu 15 26.9 36.7 132 ial EC Fans &amp; 8 8 20.5 31.2 90,406 246 260</td> <td>133 29 2 249 4 4 354 12 21 mp Options 18.5 32.1 33.6 132 Copper Tub 8 8 20.5 31.2 90,406 sured in an 73.7 Does not in 280 296</td> <td>151 32 R-410c 2 263 6 4 <b>Shell &amp; T</b> 403 12 22 <b>Carbon Sh</b> 18,5 32,1 31,8 13,2 <b>e with Alur</b> EC 10 25,6 39,0 113,000 <b>carbon field c</b> 7,2,1 <b>clude optio</b> 460/3/ 302 313</td> <td>Id           3           2           2           4           42           1           2           eel or Stai           18           32           33           13           11           12           eel or Stai           13           14           33           13           13           7           113           71           33           70           71           33           71           33           71           32           70           33           60           32</td> <td>51 0 2 2 71 5 4 2 2 2 0 0 1 5 5 4 2 2 0 0 1 5 5 2 1 3 2 2 0 0 0 1 5 5 5 1 1 1 5 5 1 1 1 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1</td> <td>179 32 308 6 4 4 7 6 1 1 2 1 2 1 2 1 2 39.5 42.7 159 12 30.7 46.8 35,608 354 354 367</td> <td>190           30           2           339           6           4           504           11           19           ns           22           39.5           43.5           159           12           30.7           46.8           135,608           74.7           386           400</td> <td>207 32 2 357 6 4 551 12 22 30 52 38.6 159 14 35.8 54.6 158,210 75.6 412 426</td> <td>252 33 3 416 9 6 6 70 13 22 30 52 31.3 159 18 46.1 70.2 203,412 74.1 74.1 74.1</td> <td>269 32 3 461 9 6 714 13 23 23 CF CF CF CF CF CF 159 18 46.1 70.2 203,412 75.4 75.4 531 544 596</td> <td>284 30 3 509 9 6 756 13 21 CF CF CF CF CF CF CF 159 18 46.1 70.2 203,412 76.4 579 593 650</td>	TON °F TYPE QTY A QTY GPM PSI PSI PSI KW A PSI GAL TYPE QTY kW A CFM DB(A) V/PH/HZ FLA MCA	65 29 2 119 4 4 4 172 11 18 7.5 13.2 32.2 79 4 10.2 15.6 45,203 68.1 135 143 172	85           33           2           144           4           227           11           20           11           20.3           36.9           100           6           15.4           23.4           67.804           70.6           167           176	95 30 2 171 4 4 4 253 12 19 11 20.3 35.0 100 100 6 6 15.4 23.4 67804 70.3 70.3	112 33 2 185 4 4 4 298 11 20 5 implex ( 26,9 40,3 132 26,9 40,3 132 26,9 40,3 132 20,5 31,2 90,406 <b>0</b> <b>0</b> <b>0</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b>	123 31 2 215 4 4 327 12 23 or Duplex Pu 15 26.9 36.7 132 ial EC Fans & 8 8 20.5 31.2 90,406 246 260	133 29 2 249 4 4 354 12 21 mp Options 18.5 32.1 33.6 132 Copper Tub 8 8 20.5 31.2 90,406 sured in an 73.7 Does not in 280 296	151 32 R-410c 2 263 6 4 <b>Shell &amp; T</b> 403 12 22 <b>Carbon Sh</b> 18,5 32,1 31,8 13,2 <b>e with Alur</b> EC 10 25,6 39,0 113,000 <b>carbon field c</b> 7,2,1 <b>clude optio</b> 460/3/ 302 313	Id           3           2           2           4           42           1           2           eel or Stai           18           32           33           13           11           12           eel or Stai           13           14           33           13           13           7           113           71           33           70           71           33           71           33           71           32           70           33           60           32	51 0 2 2 71 5 4 2 2 2 0 0 1 5 5 4 2 2 0 0 1 5 5 2 1 3 2 2 0 0 0 1 5 5 5 1 1 1 5 5 1 1 1 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1	179 32 308 6 4 4 7 6 1 1 2 1 2 1 2 1 2 39.5 42.7 159 12 30.7 46.8 35,608 354 354 367	190           30           2           339           6           4           504           11           19           ns           22           39.5           43.5           159           12           30.7           46.8           135,608           74.7           386           400	207 32 2 357 6 4 551 12 22 30 52 38.6 159 14 35.8 54.6 158,210 75.6 412 426	252 33 3 416 9 6 6 70 13 22 30 52 31.3 159 18 46.1 70.2 203,412 74.1 74.1 74.1	269 32 3 461 9 6 714 13 23 23 CF CF CF CF CF CF 159 18 46.1 70.2 203,412 75.4 75.4 531 544 596	284 30 3 509 9 6 756 13 21 CF CF CF CF CF CF CF 159 18 46.1 70.2 203,412 76.4 579 593 650
Nominal Cooling Capacity           100% Free Cooling Ambient Temperature           Type Of Refrigerant Gas           Number Of Refrigerant Gas           Number Of Refrigerant Gas           Total Compressor Running Current           Number Of Compressors           Capacity Steps           EVAPORATOR           Nominal Flow Rate           Pressure Drops (Evaporator + Valves + Piping)           F.C. Pressure Drop (EC. Cal + Exp + Valves + Piping)           PUMP & TANK (OPTIONAL)           Maximum Pump Absorbed Power           Maximum Pump Absorbed Current           Available External Pressure (Single)           Tank Volume           FANS & CONDENSER           Fan Total Absorbed Power           Maximum Pump Absorbed Current           Total Absorbed Current           Total Absorbed Current           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	TON °F TYPE QTY A GTY QTY GPM PSI PSI PSI CFM A PSI GAL TYPE QTY kW A CFM DB(A) V/PH/HZ FLA MCA MOP	65           29           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	85 33 2 144 4 4 227 11 20 70 100 11 20.3 36.9 100 0 15.4 23.4 67,804 70.6 70.6 167 176 212	95 30 2 171 4 4 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	112 33 2 185 4 4 4 298 11 20 Simplex ( 20 Simplex ( 20 Si	123 31 2 215 4 4 327 12 23 or Duplex Ru 15 26.9 36.7 132 iol EC Fors & 8 20.5 31.2 90,406 215 246 246 260 314 230	133 29 2 249 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 73.7 Does not in 280 296 358 230	151 32 R-410c 2 263 6 4 <b>Shell &amp; T</b> 403 12 22 <b>Carbon 51</b> 321 31.8 5 321 31.8 322 <b>Carbon 51</b> 321 31.8 322 <b>Carbon 51</b> 321 31.8 322 10 25.6 39.0 113.000 0 <b>ppen field c</b> 72.1 <b>clude optio</b> 460/3/ 302 313 357 281	16           3           2           2           42           42           1           2           eel or Stai           11           2           eel or Stai           18           32           33           13           1           1           1           1           13           13           13           13           13           13           13           13           13           13           13           13           14           34           34           34           34           34           34	51 0 2 2 2 2 2 2 2 2 2 2 3 2 2 3 2 2 3 3 2 3 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3	179 32 2 308 6 4 4 76 11 21 7 <b>7</b> ank Optic 22 39.5 42.7 159 7 22 39.5 42.7 159 7 2 30.7 46.8 35.608 354 3554 3554 3554 3554	190           30           2           339           6           4           504           11           19           10           12           30.7           46.8           135,608           74.7           386           400           457           332	207 32 2 357 6 4 551 12 22 30 52 38.6 159 14 35.8 54.6 158,210 75.6 412 426 486	252 33 3 416 9 6 6 7 6 7 13 22 31.3 159 18 46.1 70.2 203.412 203.412 74.1 74.1 486 498 544	269 32 3 461 9 6 714 13 23 23 23 23 CF CF CF CF CF CF CF 203,412 203,412 203,412 531 544 596	284 30 3 509 9 6 756 13 21 21 CF CF CF CF CF CF 159 18 46.1 70.2 203,412 76.4 579 593 650
Nominal Cooling Capacity           100% Free Cooling Ambient Temperature           Type Of Refrigerant Gas           Number Of Refrigerant Gas           Number Of Refrigerant Gas           Total Compressor Running Current           Number Of Compressors           Capacity Steps           EVAPORATOR           Nominal Flow Rate           Pressure Drops (Evaporator + Valves + Piping)           FC. Pressure Drop (EC. Cal + Exp + 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           Mora Total Absorbed Current           Total Absorbed Rower           Fan Total Absorbed Current           Four Circuit           Full Load Current (FLA)           <	TON °F TYPE QTY A GTY GPM PSI PSI PSI FSI GAL TYPE QTY kW A CFM CFM DB(A) V/PH/HZ FLA MCA MOP	65 29 2 119 4 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	85           33           2           144           4           4           227           11           20           11           20.3           36.9           100           6           15.4           23.4           67,804           70.6           167           176           212           178           87	95 30 2 171 4 4 4 253 12 19 9 9 11 20.3 35.0 100 6 15.4 23.4 67,804 70.3 70.3 70.3 70.3 70.3 70.3 70.3	112 33 2 185 4 4 4 298 11 208 5 implex ( 5 26,9 40,3 132 Ax 8 20,5 31,2 90,406 <b>D</b> 70,5 70,5 216 228 274 230 87	123 31 2 215 4 4 4 327 12 230 <b>a</b> 227 12 203 <b>b</b> 203 <b>b</b> 203 209 367 132 <b>c</b> 209 367 132 <b>c</b> 209 367 12 209 367 12 209 367 12 209 367 12 209 367 12 209 367 12 209 367 12 209 367 12 209 367 12 209 367 12 209 367 12 209 367 12 209 367 12 209 367 12 209 367 12 209 367 12 209 367 12 209 367 12 200 200 12 200 200 200 200 200 200 2	133 29 2 249 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 73.7 Does not in 280 296 358 230 87	151 32 R-410c 2 263 6 4 <b>Shell &amp; T</b> 403 12 22 <b>Carbon Sh</b> 18,5 32,1 31,8 132 <b>e with Alun</b> EC 10 25,6 39,0 113,00 open field c 72,1 clude optio 460/3/ 302 313 3,57 281 87	16           3           2           2           2           42           42           1           2           eel or Stai           33           33           13           intum Fin           1           25           35           7           13           at 33 feet f           7           33           33           34           36           26           32           33           34           35           36           37           38           210           32           33	51 0 22 21 22 23 24 28 22 0 0 1.5 5 2.1 3.2 23 2 Condenser 3.5 2.1 3.2 32 Condenser 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5	179 32 2 308 6 4 4 7 6 1 1 2 1 <b>Tank Optic</b> 2 39.5 42.7 159 7 2 39.5 42.7 159 7 12 30.7 46.8 355608 <b>inscr</b> 73.6 354 367 418	190           30           2           339           6           4           504           11           19           10           22           39.5           43.5           159           12           30.7           46.8           135,608           74.7           386           400           457           332           87	207 32 2 357 6 4 551 12 22 30 52 38.6 159 14 35.8 54.6 158,210 75.6 412 426 486 383 87	252 33 3 416 9 6 6 70 13 22 31.3 159 18 46.1 70.2 203.412 74.1 74.1 74.1 74.1 74.1 74.1 87	269 32 3 461 9 6 714 13 23 23 714 13 23 23 CF CF CF CF CF CF CF CF CF 203,412 203,412 203,412 75,4 531 544 596	284 30 3 509 9 6 756 13 21 21 CF CF CF CF CF CF 159 18 46.1 70.2 203,412 76.4 579 593 650
Nominal Cooling Capacity           100% Free Cooling Ambient Temperature           Type Of Refrigerant Gas           Number Of Refrigerant Gas           Number Of Refrigerant Gas           Total Compressor Running Current           Number Of Compressors           Capacity Steps           EVAPORATOR           Nominal Flow Rate           Pressure Drops (Evoporator + Valves + Piping)           FC. Pressure Drop (FC. Col + Exap + Valves + Piping)           PUMP & TANK (OPTIONAL)           Maximum Pump Absorbed Power           Maximum Pump Absorbed Current           Available External Pressure (Single)           Tank Volume           FANS & CONDENSER           Fan Total Absorbed Power           Moximum Pump Absorbed Current           Total Absorbed Power           Fan Total Absorbed Power           Fan Electronic Fan Speed Control           Fan Gauntity           Fan Total Absorbed Power           Fan Total Absorbed Power           NOISE DATA           Sound Pressure Level           ELECTRICAL DATA           Power Circuit           Full Load Current Trotal Ampacity (MCA)           Maximum Overcurrent Protection (MOP)           DIMENSIONS & WEIGHTS	TON °F TYPE QTY A GTY GPM PSI PSI PSI GAL TYPE QTY kW A CFM CFM DB(A) V/PH/HZ FLA MCA MOP IN IN	65 29 2 119 4 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	85           33           2           144           4           227           11           20           11           20.3           36.9           100           6           15.4           23.4           67,804           70.6           167           176           212           178           87           96	95 30 2 171 4 4 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	112 33 2 185 4 4 4 298 11 10 Simplex ( 3 5 26,9 40,3 132 Ax 8 20,5 31,2 90,406 C 70,5 70,5 216 228 274 230 87 96	123 31 2 215 4 4 4 327 12 230 8 7 205 367 132 15 269 367 132 15 269 367 132 15 269 367 132 15 269 367 132 15 269 367 132 15 269 367 132 15 269 367 132 15 269 367 132 15 269 367 132 15 269 367 132 15 269 367 132 15 269 367 132 15 269 367 132 15 269 367 132 15 269 367 132 15 12 269 367 132 15 12 269 367 132 15 12 269 367 132 15 12 269 367 132 15 12 269 367 132 15 12 269 367 132 15 12 269 367 132 15 12 269 367 132 12 269 367 132 132 12 269 367 132 12 269 367 132 132 132 132 132 132 132 132 132 132	133 29 2 249 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 73.7 Does not in 280 296 358 230 87 96	151 32 R-410c 2 263 6 4 <b>Shell &amp; T</b> 403 12 22 <b>Carbon Sh</b> 18,5 32,1 31,8 132 <b>e with Alun</b> EC 10 25,6 39,0 113,00 open field c 72,1 clude optio 460/3/ 302 313 3,57 281 87 96	10           3           2           2           2           42           42           1           2           eel or Stai           33           33           13           minum Fin           1           25           35           7           13           at 33 feet f           7           133           at 33 feet f           7           33           33           33           34           35           26           32           33           33           34           35           36           37           38           39           33           33           33           33           33           33           33           33           33           33           34           35           36	51 0 22 21 22 23 24 28 22 0 0 1.5 5 2.1 3.2 23 2 Condenser 3.5 2.1 3.2 32 Condenser 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5	179 32 2 308 6 4 4 7 6 1 1 2 1 <b>Tank Optic</b> 2 39.5 42.7 159 7 2 39.5 42.7 159 7 12 30.7 46.8 35.608 anser 73.6 354 367 418 332 87 96	190           30           2           339           6           4           504           11           19           39.5           43.5           159           12           30.7           46.8           135,608           74.7           386           400           457           332           87           96	207 32 2 357 6 4 551 12 22 30 52 38.6 159 14 35.8 54.6 158,210 75.6 412 426 486 383 87 96	252 33 3 416 9 6 6 70 13 22 31.3 159 18 46.1 70.2 203.412 203.412 74.1 74.1 74.1 74.1 87 96	269 32 3 461 9 6 714 13 23 23 23 714 13 23 23 CF CF CF CF CF CF CF CF 203,412 203,412 203,412 75,4 531 544 596	284 30 3 509 9 6 756 13 21 CF CF CF CF CF CF CF 203,412 76.4 579 593 650 471 87 96

\*Performance 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 others © 2022 Motivair Corporation. Motivair reserves the right to modify specifications without notice. Reproduction of this brochure in whole or in part is prohibited.

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