

THERMAL MANAGEMENT

MPC Air-Cooled Chillers MPC-FC Free-Cooling Chillers

1/2 - 100 Tons





Defining Mission Critical Cooling

The MPC range of chillers is manufactured using the highest quality components. All components must pass a rigorous test cycle before being selected for production use. All fan & pump motors are TEFC or TEAO, and are therefore suitable for outside use.

RELIABILITY

All MPC chillers are certified by ETL to be in compliance with UL and CSA standards and are CE certified. The combination of innovative design, premium components, and universal certification yields a final product worthy of the most demanding cooling applications.

FLEXIBILITY

Process cooling and HVAC heat loads are dynamic and sometimes unpredictable. The MPC range offers several means of capacity control. All models include a unique "cycling" design that allows the chiller to adapt automatically to any heat load from zero to 100% of its capacity. Models with one, two, and four compressors allow for staging in conjunction with cycling. VFD compressor options are available for select models.

This cycling design utilizes a large storage reservoir, to insure close water temperature control regardless of the load, or the load change. The MPC evaporators are NOT immersed in the reservoir, and are therefore readily accessible for service, repair or replacement. The reservoir also acts as a buffer against temporary surge loads. Substantial energy savings can be achieved during low load chiller operation.

MPC chillers do not utilize a hot gas bypass valve, common to other chillers, because these valves create an artificial heat load. which requires the chiller to operate when the load is reduced. The unique MPC cycling design also allows it to be used on multiple processes in a single building.



APPLICATION DEFINED FEATURES AND OPTIONS

INDUSTRIAL WATER CHILLERS

The MPC chillers can be applied to a wide range of industrial and commercial applications. Some common applications for MPC chillers include:

- Oncology Machines
- Surgical Suites
- MRT Machines CT Scan Machines

ENERGY SAVINGS

The Motivair MPC chillers all con-

tain an oversized thermal storage

This unique feature allows the

and fan(s) off during reduced

chiller to cycle its compressor(s)

HVAC

reservoir.

continuously.

- IT Rooms Pharmaceutical
- Plastics Processing Printing Processes
- Hydraulic Cooling
- Welding Machines Lasers
- Metal Spraying Food Processing
- "CYCLING" DESIGN FOR This will maintain water temperatures within +/- 3°F of set 4

Competitive chillers typically use a hot gas by-pass valve to balance the chiller capacity against reduced loads, therefore wasting energy and causing process loads, while the pump runs unnecessary wear and tear on the chiller.

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

ADDITIONAL

friendly refrigerant High efficiency, stainless steel, brazed plate evaporators

R-32 environmental

OPTIONS

- Centrifugal circulation pumps with closecoupled TEFC motors
- Oversized thermal storage reservoirs with fill, drain & vent ports
- Powerful, easy to use, non-proprietary micro-

processors -"plug & play"

compressors. Unique scroll

compressor design allows

VFD options available on

for resistance to liquid

slugging.

select models.

- Heavier frame construction - greater resistance to shipping, handling & operation abuse.
- Removable access panels for easy service & maintenancé
- Standard highpressure and lowpressure refrigeration gauges 5 tons and above



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® MLC-FC chillers with "Free-Cooling" capability are designed to provide the owner with optimal performance, year-round, in varying ambient temperatures.

AVAILABLE MODELS

This "Free-Cooling" option, available on models MLC-FC 200 – MLC-FC 1750 is supplied with "Free-Cooling" coil and the PC05 advanced PLC control package – a unique single package for year-round energy savings.

The refrigerant plant is designed to cool the designated heat load during the highest summer temperatures.

When ambient temperatures fall overnight or during cooler seasonal weather, the integrated "Free-Cooling" system is automatically activated.

HOW THE SYSTEM WORKS

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

are substantial.

Wear and tear on chiller components is dramatically reduced, due to fewer running hours during winter months.

Automatic switching between mechanical cooling and "Free Cooling" allows for optimal performance year-round.

As a general guideline, "Free-Cooling" savings more than pay for the initial investment in the first year of operation.



Gain Speed to Insight with Advanced Controls

THE MICROPROCESSOR

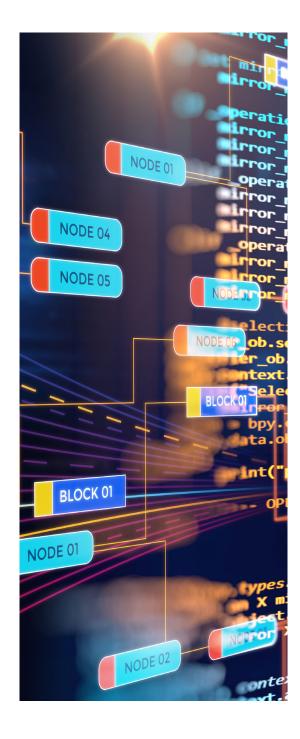
The standard Motivair microprocessor controller is a very powerful, yet user-friendly device. It offers a wide range of standard controls and alarms to suit any chiller application. It can control up to 4 stages of cooling in the chiller.

Optional communication features include:

- a serial card connection to a remote PC and a full-feature
- Remote wall-mounting controller, connected via an RS485 cable up to 500 feet away.

For those applications requiring up to 8 cooling stages, and/or a higher level of remote communication, the PC05 advanced PLC system is available from the MPC 2200 and above.

MPC model	Standard	Op	Optional			
MPC 0005-0010	XR-30C	N/A				
MPC 0150-0300	XR-30C	Micro	Chiller 2SE			
MPC 0500-1500	Micro Chiller	· 2SE N/A				
MPC 2200-9000	Micro Chiller	2SE PC05				
Standard Features & Alarms	XR-30C	Micro Chiller 2SE	PC05			
Highly visible digital display	Х	Х	X			
Multi-character LCD display			X			
Remote start/stop relay		Х	X			
General alarm relay		X	×			
Supply water temp. display	Х	Х	X			
Return water temp. display		X	×			
Adjustable water set point	Х	X	×			
Adjustable alarm set points	Х	Х	×			
°F/°C adjustable	Х	X	×			
Manual alarm reset	Х	X	×			
High refrigeration pressure alarm		Х	×			
Low refrigeration pressure alarm		Х	×			
Freeze alarm	Х	X	×			
Phase/Voltage alarm		X	×			
High water temperature alarm	Х	X	×			
Low water temperature alarm	Х	X	X			
Adjustable anti-compressor						
short cycle feature		X	Х			
Low water/glycol flow alarm		X	Х			
Compressor overload alarm		X	Х			
RS 232/RS 485 communication		consult factory	Х			
Ethernet communication			Х			
LON, BACNET, MODBUS communication	n	consult factory	Х			
Optional remote wall mount controller		Х	Х			



Technical Specifications



AIR COOLED CHILLERS WITH SCROLL COMPRESSORS	MPC-A	0200	0300	0500	0800	1000	1200	1500	2200	3000	3500	4000	5000	6000	7200	8000	8500	9000
Cooling Capacity *	Tons	2.2	3.0	4.2	5.7	8.9	11.3	13.3	17.8	22.6	26.6	30.0	35.7	44.5	50.2	67.1	81.5	95.7
Elevation	FT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Refrigerant	Туре							-	R-41									
Number of Compressors Refrigerant Circuits	Qty Qty	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2
Compressor Running Current	A	4.3	5.5	8.3	12.1	14.8	18.5	23.8	14.85	18.5	23.8	26.3	14.85	18.825	25.7	28.625	37.275	42.075
Compressor Locked Rotor Amprage	A	35	46	62	95	125	150	179	125	150	179	225	125	150	179	225	272	310
Max Absorbed working current per Compressor	А	8	11	15.2	23	28	35	41	28	35	41	47.5	28	35	41	47.5	65.4	85
Evaporator Flow Rate	GPM	5	7	10	14	21	27	32	43	59	64	72	86	107	121	161	196	230
Minimum Fluid Flow Rate	GPM	5	5	5	13	13	26	26	26	42	42	29	70	70	132	132	159	159
Maximum Fluid Flow Rate Maximum Pump Absorbed Power	GPM kW	0.75	0.75	19 0.75	29	29	70	70	70 2.2	70 3	101	101	141	141	203 5.5	247 5.5	282 7.5	365 11
Maximum Pumps Absorbed Current	A	1.6	1.7	1.7	2.4	2.4	4.3	4.3	4.3	5.85	5.85	5.85	7.7	7.7	10	10	13.2	20
Integrated Pump External Pressure	PSI	38.11	38.16	36.92	37.68	33.51	36.74	36.53	34.95	34.77	31.94	29.81	34.05	31.76	34.05	35.65	43.39	51.51
Integrated Tank Volume	GAL.	13	13	13	30	50	50	50	80	80	80	80	100	100	100	130	130	130
Number of Condenser Coils	Qty	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Condenser Fan(s)	Qty	1	1	1	1	2	2	2	2	2	2	2	3	3	3	5	5	6
Total Absorbed Power	kW	1.05	1.05	1.05	1.42	2.1	2.84	2.1	4.36	4.36	4.36	4.36	6.54	6.54	6.54	10.9	10.9	13.08
Absorbed Current NOISE DATA	A	1.57	1.57	1.57	2.54	3.14 Dista	5.08	3.14 ured in an	7.6	7.6	7.6 from Cond	7.6	11.4	11.4	11.4	19	19	22.8
Sound Pressure Level at 32.8'	dBA	53.4	53.6	53.8	60.0	57.4	63.2	58.7	60.4	60.7	61.4	63.0	62.5	62.8	63.8	67.5	69.6	69.4
ELECTRICAL DATA	05.1	55.7	55.0	55.0	55.0	JT	30.E		des Integr		J., T	55.0	52.0	02.0	55.0	5, .0	37.0	57.5
Nominal Power	kW	4.56	5.3	7.45	10.62	12.84	17.29	18.65	25.84	31.86	36.06	41.31	49.1	60.74	75.24	94.2	121.2	140.08
Maximum Absorbed current (FLA)																		
based on compressor MCC	Α	11.27	14.27	18.47	27.94	33.54	44.38	48.44	67.9	83.45	95.45	101.95	131.1	159.1	185.4	219	293.8	343.6
Electrical	V/PH/Hz	7.5	0.0	11.4	170	20.2		460/3/60		FO F	41.1	441	70 5	04.4	10.4.0	140 5	101.0	011.1
Full Load Current (FLA) Min Circuit Ampacity (MCA)	A A	7.5 8.5	8.8	11.6	17.0	20.3	27.9 32.5	31.2 37.2	41.6	50.5 55.1	67.0	66.1 72.6	78.5 82.2	94.4	124.2	143.5	181.3	211.1
Max Overcurrent Protection (MOP)	A	12.8	15.6	21.9	32.2	38.8	51.0	61.0	60.2	73.6	90.8	98.9	97.1	117.9	156.3	179.3	227.9	263.7
Sound Pressure Level at 32.8' (Low Noise)	dBA	53.1	53.2	53.2	59.8	56.6	62.9	57.5	59.6	59.7	60.0	60.8	61.4	61.6	62.2	64.9	66.3	66.8
EQUIPMENT DIMENSIONS & WEIGHTS																		
Length	IN	32.3	32.3	32.3	39.8	63.4	63.4	63.4	87.4	87.4	87.4	87.4	132.1	171.5	171.5	211	211	250
Width	IN	24.2	24.2	24.2	28.3	33.9	33.9	33.9	43.3	43.3	43.3	43.3	43.5	43.5	43.5	43.5	43.5	43.5
Height	IN	53.5	53.5	53.5	62.2	60.6	60.6	60.6	82.7	82.7	82.7	82.7	85.8	85.8	85.8	85.8	85.8	85.8
In & Out Connection Size Estimated Shipping Weight	LBS	386	397	1″	1" 573	1.5"	1.5"	948	2" 1.786	1.830	1.885	2.050	2.5"	2.5" 4.631	2.5" 4851	5″ 5292	5"	5″ 6,758
MPC-W- WATER COOLED (OPTION)	MPC-W	0200	0300	0500	0800	1000	1200	1500	2200	3000	3500	4000	5000	6000	7200	8000	8500	9000
**Cooling Capacity - Water Cooled (Tons)			00.501		70.140	115.022	145,972	171,451	230,081	201.0.42	342,938	386,626	440140	6 TO THE				1 00 4 011
Cooling Capacity Traici Coolea (1011)	BTU/Hr.	28,746	38,586	53,895	73,169	113,022	143,972	1/1,431	230,001	291,943	342,730	300,020	460,163	573,717	647,988	864,962	1,051,355	1,234,811
Condenser Fluid Flow	BTU/Hr. GPM	28,746 6	38,586	53,895	73,109	25	32	38	51	71 71	77	88	105	133	647,988	864,962 203	1,051,355 249	295
Condenser Fluid Flow Full Load Current (FLA)	GPM A	6 5.9	8 7.2	11	16 14.5	25 17.2	32 22.8	38	51 34.0	71 42.9	77 53.5	88 58.5	10.5 67.1	133 83.0	151	203 124.5	249 162.3	295 188.3
Condenser Fluid Flow Full Load Current (FLA) Min Circuit Ampacity (MCA)	GPM A A	6 5.9 7.0	8 7.2 8.6	11 10.0 12.1	16 14.5 17.5	25 17.2 20.9	32 22.8 27.4	38 28.1 34.1	51 34.0 37.7	71 42.9 47.5	77 53.5 59.4	88 58.5 65.0	105 67.1 70.8	133 83.0 87.7	151 112.8 119.2	203 124.5 131.7	249 162.3 171.6	295 188.3 198.8
Condenser Fluid Flow Full Load Current (FLA) Min Circuit Ampacity (MCA) Max Overcurrent Protection (MOP)	GPM A A	6 5.9 7.0 11.3	8 7.2 8.6 14.1	11 10.0 12.1 20.4	16 14.5 17.5 29.6	25 17.2 20.9 35.7	32 22.8 27.4 45.9	38 28.1 34.1 57.9	51 34.0 37.7 52.6	71 42.9 47.5 66.0	77 53.5 59.4 83.2	88 58.5 65.0 91.3	105 67.1 70.8 85.7	133 83.0 87.7 106.5	151 112.8 119.2 144.9	203 124.5 131.7 160.3	249 162.3 171.6 208.9	295 188.3 198.8 240.9
Condenser Fluid Flow Full Load Current (FLA) Min Circuit Ampacity (MCA)	GPM A A	6 5.9 7.0	8 7.2 8.6	11 10.0 12.1	16 14.5 17.5 29.6 548	25 17.2 20.9	32 22.8 27.4 45.9 857	38 28.1 34.1 57.9 923	51 34.0 37.7	71 42.9 47.5	77 53.5 59.4	88 58.5 65.0	105 67.1 70.8	133 83.0 87.7	151 112.8 119.2	203 124.5 131.7	249 162.3 171.6	295 188.3 198.8
Condenser Fluid Flow Full Load Current (FLA) Min Circuit Ampacity (MCA) Max Overcurrent Protection (MOP) Estimated Shipping Weight FREE COOLING CHILLERS	GPM A A A LBS	6 5.9 7.0 11.3	8 7.2 8.6 14.1 372	11 10.0 12.1 20.4 383	16 14.5 17.5 29.6 548	25 17.2 20.9 35.7 835	32 22.8 27.4 45.9 857 e changes t	38 28.1 34.1 57.9 923	51 34.0 37.7 52.6 1,761	71 42.9 47.5 66.0 1,805	77 53.5 59.4 83.2 1,860	88 58.5 65.0 91.3	105 67.1 70.8 85.7	133 83.0 87.7 106.5 4,605	151 112.8 119.2 144.9 3,480	203 124.5 131.7 160.3	249 162.3 171.6 208.9	295 188.3 198.8 240.9
Condenser Fluid Flow Full Load Current (FLA) Min Circuit Ampacity (MCA) Max Overcurrent Protection (MOP) Estimated Shipping Weight FREE COOLING CHILLERS WITH SCROLL COMPRESSORS	GPM A A A LBS	6 5.9 7.0 11.3 361	8 7.2 8.6 14.1 372	11 10.0 12.1 20.4 383 Motivai	16 14.5 17.5 29.6 548 r reserves the	25 17.2 20.9 35.7 835 right to make	32 22.8 27.4 45.9 857 e changes t	38 28.1 34.1 57.9 923 o product sp	51 34.0 37.7 52.6 1,761 pecifications	71 42.9 47.5 66.0 1,805 without notice	77 53.5 59.4 83.2 1,860	88 58.5 65.0 91.3 2,025	105 67.1 70.8 85.7 3,392	133 83.0 87.7 106.5 4,605	151 112.8 119.2 144.9 3,480	203 124.5 131.7 160.3 4,605	249 162.3 171.6 208.9 3,613	295 188.3 198.8 240.9 4,825
Condenser Fluid Flow Full Load Current (FLA) Min Circuit Ampacity (MCA) Max Overcurrent Protection (MOP) Estimated Shipping Weight FREE COOLING CHILLERS WITH SCROLL COMPRESSORS Cooling Capacity	GPM A A A BS MPC-FC Tons	6 5.9 7.0 11.3 361	8 7.2 8.6 14.1 372	11 10.0 12.1 20.4 383 Motivai	16 14.5 17.5 29.6 548 r reserves the	25 17.2 20.9 35.7 835 e right to make	32 22.8 27.4 45.9 857 e changes t	38 28.1 34.1 57.9 923 o product sp	51 34.0 37.7 52.6 1,761 secifications 3500 25.7	71 42.9 47.5 66.0 1,805 without notice	77 53.5 59.4 83.2 1,860	88 58.5 65.0 91.3 2,025	105 67.1 70.8 85.7 3,392 6000 44.0	133 83.0 87.7 106.5 4,605 7200 52.5	151 112.8 119.2 144.9 3,480	203 124.5 131.7 160.3 4,605	249 162.3 171.6 208.9 3,613 8500 77.3	295 188.3 198.8 240.9 4,825 9000 88.9
Condenser Fluid Flow Full Load Current (FLA) Min Circuit Ampacity (MCA) Max Overcurrent Protection (MOP) Estimated Shipping Weight FREE COOLING CHILLERS WITH SCROLL COMPRESSORS	GPM A A A LBS	6 5.9 7.0 11.3 361	8 7.2 8.6 14.1 372	11 10.0 12.1 20.4 383 Motivai	16 14.5 17.5 29.6 548 r reserves the	25 17.2 20.9 35.7 835 right to make	32 22.8 27.4 45.9 857 e changes t	38 28.1 34.1 57.9 923 o product sp	51 34.0 37.7 52.6 1,761 pecifications	71 42.9 47.5 66.0 1,805 without notice 4000 29.2	77 53.5 59.4 83.2 1,860	88 58.5 65.0 91.3 2,025	105 67.1 70.8 85.7 3,392	133 83.0 87.7 106.5 4,605	151 112.8 119.2 144.9 3,480	203 124.5 131.7 160.3 4,605	249 162.3 171.6 208.9 3,613	295 188.3 198.8 240.9 4,825
Condenser Fluid Flow Full Load Current (FLA) Min Circuit Ampacity (MCA) Max Overcurrent Protection (MOP) Estimated Shipping Weight FREE COOLING CHILLERS WITH SCROLL COMPRESSORS Cooling Capacity 100% Free Cooling Ambient	GPM A A A LBS MPC-FC Tons °F	6 5.9 7.0 11.3 361	8 7.2 8.6 14.1 372	11 10.0 12.1 20.4 383 Motivai	16 14.5 17.5 29.6 548 r reserves the	25 17.2 20.9 35.7 835 e right to make	32 22.8 27.4 45.9 857 e changes t	38 28.1 34.1 57.9 923 o product sp	51 34.0 37.7 52.6 1,761 vecifications 3500 25.7 34	71 42.9 47.5 66.0 1,805 without notice 4000 29.2	77 53.5 59.4 83.2 1,860 500 34	88 58.5 65.0 91.3 2,025	105 67.1 70.8 85.7 3,392 6000 44.0	133 83.0 87.7 106.5 4,605 7200 52.5	151 112.8 119.2 144.9 3,480	203 124.5 131.7 160.3 4,605	249 162.3 171.6 208.9 3,613 8500 77.3	295 188.3 198.8 240.9 4,825 9000 88.9
Condenser Fluid Flow Full Load Current (FLA) Min Circuit Ampacity (MCA) Max Overcurrent Protection (MOP) Estimated Shipping Weight FREE COOLING CHILLERS WITH SCROLL COMPRESSORS Cooling Capacity 100% Free Cooling Ambient Refrigerant Number of Compressors Refrigerant Circuits	GPM A A A LBS MPC-FC Tons °F Type Qty Qty	6 59 70 11.3 361 1000 8.6 32	8 7.2 8.6 14.1 372	11 10.0 12.1 20.4 383 Motival 1200 10.9 34	16 14.5 17.5 29.6 548 r reserves the 1500 13.0 33	25 172 209 35.7 835 1911 to moke 2200 17.1 33	32 22.8 27.4 45.9 857 e changes	38 28.1 34.1 57.9 923 o product sy 000 21.7 33	34.0 37.7 52.6 1,761 25.7 3500 25.7 34 R-410 2	71 42.9 47.5 66.0 1,805 without notice 4000 29.2 33	77 53.5 59.4 83.2 1,860 50 34 3	88 58.5 65.0 91.3 2,025	105 671 70.8 85.7 3,392 6000 44.0 32	133 83.0 87.7 106.5 4,605 7200 52.5 30	151 112.8 119.2 144.9 3,480	203 124.5 131.7 160.3 4,605	249 162.3 171.6 208.9 3,613 8500 77.3 28	295 188.3 198.8 240.9 4,825 9000 88.9 21
Condenser Fluid Flow Full Load Current (FLA) Min Circuit Ampacity (MCA) Max Overcurrent Protection (MOP) Estimated Shipping Weight FREE COOLING CHILLERS WITH SCROLL COMPRESSORS Cooling Capacity 100% Free Cooling Ambient Refrigerant Number of Compressors Refrigerant Circuits Evaporator Flow Rate	GPM A A A LBS MPC-FC Tons °F Type Qty Qty GPM	6 59 70 11.3 361 1000 8.6 32	8 72 8.6 14.1 372	11 10.0 12.1 20.4 383 Metival 1200 10.9 34	16 14.5 17.5 29.6 548 r reserves the 1500 13.0 33	25 172 209 35.7 835 1911 to make 2200 17.1 33	32 22.8 27.4 45.9 857 e changes	38 28.1 34.1 57.9 923 o product sy 000 21.7 33	340 377 52.6 1,761 3500 25.7 34 R-410 2	71 42.9 47.5 66.0 1,805 without notice 4000 29.2 33 0A 2	77 53.5 59.4 83.2 1,860 50 34 3	88 58.5 65.0 91.3 2,025 00 4.3 3	105 671 70.8 85.7 3,392 6000 44.0 32 4 2	133 83.0 87.7 106.5 4,605 7200 52.5 30 4 2	151 112.8 119.2 144.9 3,480	203 124.5 131.7 160.3 4,605 2000 3.8 331	249 162.3 171.6 208.9 3,613 8500 77.3 28 4 2 186	295 188.3 198.8 240.9 4,825 9000 88.9 21 4 2 214
Condenser Fluid Flow Full Load Current (FLA) Min Circuit Ampacity (MCA) Max Overcurrent Protection (MOP) Estimated Shipping Weight FREE COOLING CHILLERS WITH SCROLL COMPRESSORS Cooling Capacity 100% Free Cooling Ambient Refrigerant Number of Compressors Refrigerant Circuits Evaporator Flow Rate PSI Drops (Evap+Valves+Piping)	GPM A A A LBS MPC-FC Tons ° F Type Qty Qty GPM PSID	6 59 70 11.3 361 100 8.6 32 1 1 1 21	8 72 8.6 14.1 372	11 10.0 12.1 20.4 383 Molivei 1200 10.9 34 1 1 26 5.72	16 14.5 17.5 29.6 548 r reserves the 1500 13.0 33	25 17.2 20.9 35.7 835 4 right to moke 2200 17.1 33 2 1 41 6.30	32 22.8 27.4 45.9 857 e changes	38 28.1 34.1 57.9 923 o product sy 000 21.7 33 2 1 52 6.65	340 377 52.6 1,761 3500 25.7 34 R-410 2 1 62 7.00	71 42.9 47.5 66.0 1,805 without notice 4000 29.2 33 0A 2 1 70 6.88	53.5 59.4 83.2 1,860 50 32 33 33 8	88 58.5 65.0 91.3 2,025 00 4.3 3	105 67.1 70.8 85.7 3,392 6000 44.0 32 4 2 106 9.45	133 83.0 87.7 106.5 4,605 7200 52.5 30 4 2 126 10.96	151 112.8 119.2 144.9 3,480	203 124.5 131.7 160.3 4,605 2000 3.8 331 4 2 2 53 .83	249 162.3 171.6 208.9 3,613 8500 77.3 28 4 2 186 5.83	295 188.3 198.8 240.9 4,825 9000 88.9 21 4 2 214 6.07
Condenser Fluid Flow Full Load Current (FLA) Min Circuit Ampacity (MCA) Max Overcurrent Protection (MOP) Estimated Shipping Weight FREE COOLING CHILLERS WITH SCROLL COMPRESSORS Cooling Capacity 100% Free Cooling Ambient Refrigerant Number of Compressors Refrigerant Circuits Evaporator Flow Rate PSI Drops (Evap+Valves+Piping) F.C. PSI Drop (F.C.+Evap+Valve+Piping)	GPM A A A LBS MPC-FC Tons ° F Type Qiy Qiy GPM PSID PSID	6 59 70 11.3 361 100 8.6 32 1 1 1 21 5.7	8 72 8.6 14.1 372	11 10.0 12.1 20.4 383 Molivei 1200 10.9 34 1 1 26 5.72 9.11	16 14.5 17.5 29.6 548 r reserves lhe 1500 13.0 33 1 1 1 31 5.96 9.81	25 17.2 20.9 35.7 835 4 right to moke 2200 17.1 33 2 1 41 6.30 9.92	32 22.8 27.4 45.9 857 2 changes	38 28.1 34.1 57.9 923 o product sp 000 21.7 33 2 1 52 6.65 1.43	34.0 37.7 52.6 1,761 sedifications 3500 25.7 34 R-410 2 1 62 7.00 12.96	71 42.9 47.5 66.0 1,805 without notice 4000 29.2 33 0A 2 1 70 6.88 12.14	50.550.4 83.2 1,860 50.550.4 83.2 1,860 50.550.6 80.550.6 80.550.6 80.750.6	88 58.5 65.0 91.3 2,025 00 4.3 3 4 2 3 82 47	105 67.1 70.8 85.7 3,392 6000 44.0 32 4 2 106 9.45 14.47	133 83.0 87.7 106.5 4,605 7200 52.5 30 4 2 126 10.96	151 112.8 119.2 144.9 3,480	203 124.5 131.7 160.3 4,605 000 3.8 31 4 2 53 .83	249 162.3 171.6 208.9 3,613 8500 77.3 28 4 2 186 5.83 12.84	295 188.3 198.8 240.9 4,825 9000 88.9 21 4 2 214 6.07 11.67
Condenser Fluid Flow Full Load Current (FLA) Min Circuit Ampacity (MCA) Max Overcurrent Protection (MOP) Estimated Shipping Weight FREE COOLING CHILLERS WITH SCROLL COMPRESSORS Cooling Capacity 100% Free Cooling Ambient Refrigerant Number of Compressors Refrigerant Circuits Evaporator Flow Rate PSI Drops (Evap+Valves+Piping) Integrated Pump External Pressure	GPM A A A A LBS MPC-FC Tons ° F Type Gry Gry GPM PSID PSID	6 59 70 11.3 361 100 8.6 32 1 1 21 21 5.7 11.3 27.5	8 72 8.6 14.1 372	11 10.0 12.1 20.4 383 Molivoi 1200 10.9 34 1 1 26 5.72 9.11 32.71	16 14.5 17.5 29.6 548 reserves lite 1500 13.0 33 1 1 1 31 5.96 9.81 31.68	25 17.2 20.9 35.7 835 4 right to moke 2200 17.1 33 2 1 41 6.30 9.92 30.70	32 22.8 27.4 45.9 857 e changes	38 28.1 34.1 57.9 923 o product sp 000 21.7 33 2 1 52 6.65 1.43 11.46	34.0 37.7 52.6 1,761 sedifications 3500 25.7 34 R-410 2 1 62 7.00 12.96 36.58	71 42.9 47.5 66.0 1,805 without notice 4000 29.2 33 0A 2 1 70 6.88 12.14	50.550.483.21,860 500 500 500 500 500 500 500 500 500 5	88 58.5 65.0 91.3 2,025 00 4.3 3 4 2 3 82 47 20	105 67.1 70.8 85.7 3,392 6000 44.0 32 4 2 106 9.45 14.47 38.51	133 83.0 87.7 106.5 4,605 7200 52.5 30 4 2 126 10.96 17.16 40.32	151 112.8 119.2 144.9 3,480 6	203 124.5 131.7 160.3 4,605 2000 3.8 31 4 2 53 .83 .08	249 162.3 171.6 208.9 3,613 8500 77.3 28 4 2 186 5.83 12.84 36.28	295 188.3 198.8 240.9 4,825 9000 88.9 21 4 2 214 6.07 11.67 46.37
Condenser Fluid Flow Full Load Current (FLA) Min Circuit Ampacity (MCA) Max Overcurrent Protection (MOP) Estimated Shipping Weight FREE COOLING CHILLERS WITH SCROLL COMPRESSORS Cooling Capacity 100% Free Cooling Ambient Refrigerant Number of Compressors Refrigerant Circuits Evaporator Flow Rate PSI Drops (Evap+Valves+Piping) F.C. PSI Drop (F.C.+Evap+Valve+Piping) Integrated Pump External Pressure Integrated Tank Volume	GPM A A A A LBS MPC-FC Tons ° F Type Gry Gry GPM PSID PSID PSI Gallons	6 59 70 11.3 361 100 8.6 32 1 1 1 21 21 5.7 11.3 27.5 50	8 7.2 8.6 14.1 372 372 372 372 372 372 372 372 372 372	11 10.0 12.1 20.4 383 Motivoi 1200 10.9 34 1 1 26 5.72 9.11 32.71 50	16 14.5 17.5 29.6 548 rreserves the 1500 13.0 33 1 1 1 31 5.96 9.81 31.68 50	25 17.2 20.9 35.7 835 right to moke 2200 17.1 33 2 1 41 6.30 9.92 30.70 80	32 22.8 27.4 45.9 857 e changes	38 28.1 34.1 57.9 923 o products; 000 21.7 33 2 1 52 6.65 1.43 11.46 80	34.0 37.7 52.6 1,761 3500 25.7 34 R-410 2 1 62 7.00 12.96 36.58 80	71 42.9 47.5 66.0 1,805 without notice 4000 29.2 33 0A 2 1 70 6.88 12.14 39.33	50.550.483.21,860 500 500 500 500 500 500 500 500 500 5	88 58.5 65.0 91.3 2,025 00 4.3 3 4 2 3 82 47 20 30	105 671 70.8 85.7 3,392 6000 44.0 32 4 2 106 9.45 14.47 38.51 130	133 83.0 87.7 106.5 4,605 7200 52.5 30 4 2 126 10.96 17.16 40.32 130	151 112.8 119.2 144.9 3,480 6	203 124.5 131.7 160.3 4,605 2000 3.8 331 4 2 2 53 .83 .08 0.32 30	249 162.3 171.6 208.9 3,613 8500 77.3 28 4 2 186 5.83 12.84 36.28 130	295 188.3 198.8 240.9 4,825 9000 88.9 21 4 2 214 6.07 11.67 46.37 130
Condenser Fluid Flow Full Load Current (FLA) Min Circuit Ampacity (MCA) Max Overcurrent Protection (MOP) Estimated Shipping Weight FREE COOLING CHILLERS WITH SCROLL COMPRESSORS Cooling Capacity 100% Free Cooling Ambient Refrigerant Number of Compressors Refrigerant Circuits Evaporator Flow Rate PSI Drops (Evap+Valves+Piping) Integrated Pump External Pressure	GPM A A A A LBS MPC-FC Tons ° F Type Gry Gry GPM PSID PSID	6 59 70 11.3 361 100 8.6 32 1 1 21 21 5.7 11.3 27.5	8 7.2 8.6 14.1 372 372 372 372 372 372 372 372 372 372	11 10.0 12.1 20.4 383 Molivoi 1200 10.9 34 1 1 26 5.72 9.11 32.71	16 14.5 17.5 29.6 548 reserves lite 1500 13.0 33 1 1 1 31 5.96 9.81 31.68	25 17.2 20.9 35.7 835 right to moke 2200 17.1 33 2 1 41 6.30 9.92 30.70 80 2	32 22.8 27.4 45.9 857 e changes	38 28.1 34.1 57.9 923 o product sp 000 21.7 33 2 1 52 6.65 1.43 11.46	34.0 37.7 52.6 1,761 sedifications 3500 25.7 34 R-4IC 2 1 62 7.00 12.96 36.58 80 3	71 42.9 47.5 66.0 1,805 without notice 4000 29.2 33 0A 2 1 70 6.88 12.14	777 53.5 59.4 83.2 1,860 34 3 3 8 8 7.3 14 3.6	88 58.5 65.0 91.3 2,025 00 4.3 3 4 2 3 82 47 .20 30 4	105 67.1 70.8 85.7 3,392 6000 44.0 32 4 2 106 9.45 14.47 38.51	133 83.0 87.7 106.5 4,605 7200 52.5 30 4 2 126 10.96 17.16 40.32	151 112.8 119.2 144.9 3,480 6	203 124.5 131.7 160.3 4,605 2000 3.8 31 4 2 53 .83 .08	249 162.3 171.6 208.9 3,613 8500 77.3 28 4 2 186 5.83 12.84 36.28	295 188.3 198.8 240.9 4,825 9000 88.9 21 4 2 214 6.07 11.67 46.37
Condenser Fluid Flow Full Load Current (FLA) Min Circuit Ampacity (MCA) Max Overcurrent Protection (MOP) Estimated Shipping Weight FREE COOLING CHILLERS WITH SCROLL COMPRESSORS Cooling Capacity 100% Free Cooling Ambient Refrigerant Number of Compressors Refrigerant Circuits Evaporator Flow Rate PSI Drops (Evap+Valves+Piping) F.C. PSI Drop (F.C.+Evap+Valve+Piping) Integrated Pump External Pressure Integrated Tank Volume Condenser Fan(s)	GPM A A A A LBS MPC-FC Tons ° F Type Gry Gry GPM PSID PSID PSI Gallons	6 59 70 11.3 361 100 8.6 32 1 1 1 21 21 5.7 11.3 27.5 50	8 7.2 8.6 14.1 372	11 10.0 12.1 20.4 383 Motivoi 1200 10.9 34 1 1 26 5.72 9.11 32.71 50	16 14.5 17.5 29.6 548 rreserves the 1500 13.0 33 1 1 1 31 5.96 9.81 31.68 50	25 17.2 20.9 35.7 835 right to moke 2200 17.1 33 2 1 41 6.30 9.92 30.70 80 2	32 22.8 27.4 45.9 857 e changes l	38 28.1 34.1 57.9 923 o products; 000 21.7 33 2 1 52 5.65 1.43 11.46 80 2	34.0 37.7 52.6 1,761 sedifications 3500 25.7 34 R-4IC 2 1 62 7.00 12.96 36.58 80 3	71 42.9 47.5 66.0 1,805 without notice 4000 29.2 33 0)A 2 1 70 6.88 12.14 39.33 80	777 53.5 59.4 83.2 1,860 500 34 34 350 14 366 16	88 58.5 65.0 91.3 2,025 00 4.3 3 4 2 3 82 47 .20 30 4	105 671 70.8 85.7 3,392 6000 44.0 32 4 2 106 9.45 14.47 38.51 130	133 83.0 87.7 106.5 4,605 7200 52.5 30 4 2 126 10.96 17.16 40.32 130	151 112.8 119.2 144.9 3,480	203 124.5 131.7 160.3 4,605 2000 3.8 331 4 2 2 53 .83 .08 0.32 30	249 162.3 171.6 208.9 3,613 8500 77.3 28 4 2 186 5.83 12.84 36.28 130	295 188.3 198.8 240.9 4,825 9000 88.9 21 4 2 214 6.07 11.67 46.37 130
Condenser Fluid Flow Full Load Current (FLA) Min Circuit Ampacity (MCA) Max Overcurrent Protection (MOP) Estimated Shipping Weight FREE COOLING CHILLERS WITH SCROLL COMPRESSORS Cooling Capacity 100% Free Cooling Ambient Refrigerant Number of Compressors Refrigerant Circuits Evaporator Flow Rate PSI Drops (Evap+Valves+Piping) F.C. PSI Drop (F.C.+Evap+Valve+Piping) Integrated Pump External Pressure Integrated Tank Volume Condenser Fan(s) NOISE DATA Sound Pressure Level at 32.8' ELECTRICAL DATA	GPM A A A A LBS MPC-FC Tons °F Type Gry GPM PSID PSID PSI Gallons Qry dBA	6 5.9 70 11.3 361 100 8.6 32 1 1 1 21 5.7 11.3 27.5 50 2	8 7.2 8.6 14.1 372	11 10.0 12.1 20.4 383 Motivoi 1200 10.9 34 1 1 26 5.72 9.11 32.71 50 2	16 14.5 17.5 29.6 548 Treserves the 1500 13.0 33 1 1 1 31 5.96 9.81 31.68 50 2	25 17.2 20.9 35.7 835 right to moke 2200 17.1 33 2 1 41 6.30 9.92 30.70 80 2	32 22.8 27.4 45.9 857 e changes l	38 28.1 34.1 57.9 923 o product s: 000 21.7 33 2 1 52 5.65 1.43 11.46 80 2 ecosured in 50.8	34.0 37.7 52.6 1,761 sedifications 3500 25.7 34 R-41C 2 1 62 7.00 12.96 36.58 80 3 an open 6 62.5 des Integri	71 42.9 47.5 66.0 1,805 without notice 4000 29.2 33 0A 2 1 70 6.88 12.14 39.33 80 3 field at 33 F 63.8 ated Pump	777 53.5 59.4 83.2 1,860 34 33 4 36 88 7.7 144 366 13 4 4 666	88 58.5 65.0 91.3 2,025 00 4.3 3 4 2 3 82 47 .20 30 4 4 ondenser	105 671 70.8 85.7 3,392 6000 44.0 32 4 2 106 9.45 14.47 38.51 130 5	133 83.0 87.7 106.5 4,605 7200 52.5 30 4 2 126 10.96 17.16 40.32 130 5	151 112.8 119.2 144.9 3,480	203 124.5 131.7 160.3 4,605 2000 3.8 331 4 2 53 .83 .08 0.32 30 6	249 162.3 171.6 208.9 3,613 8500 77.3 28 4 2 186 5.83 12.84 36.28 130 6	295 188.3 198.8 240.9 4,825 9000 88.9 21 4 2 214 6.07 11.67 46.37 130 6
Condenser Fluid Flow Full Load Current (FLA) Min Circuit Ampacity (MCA) Max Overcurrent Protection (MOP) Estimated Shipping Weight FREE COOLING CHILLERS WITH SCROLL COMPRESSORS Cooling Capacity 100% Free Cooling Ambient Refrigerant Number of Compressors Refrigerant Circuits Evaporator Flow Rate PSI Drops (Evap+Valves+Piping) F.C. PSI Drop (F.C.+Evap+Valve+Piping) Integrated Pump External Pressure Integrated Tank Volume Condenser Fan(s) NOISE DATA Sound Pressure Level at 32.8' ELECTRICAL DATA Electrical	GPM A A A A LBS MPC-FC Tons °F Type Gry GPM PSID PSID PSID PSI Gallons Qty dBA	6 5.9 7.0 11.3 361 1000 8.6 32 1 1 1 21 2.7 5.7 11.3 27.5 50 2	8 7.2 8.6 14.1 372	11 10.0 12.1 20.4 383 Motivoi 1200 10.9 34 1 1 26 5.72 9.11 32.71 50 2	16 14.5 17.5 29.6 548 Treserves the 1500 13.0 33 1 1 1 31 5.96 9.81 31.68 50 2	25 17.2 20.9 35.7 835 2200 17.1 33 2 1 41 6.30 9.92 30.70 80 2	32 22.8 27.4 45.9 857 e changes 1	38 28.1 34.1 57.9 923 o product sy 000 21.7 33 2 1 552 5.65 1.43 11.46 80 2 consider sy 10.65 1	3500 25.7 34.0 37.7 52.6 1,761 secifications 3500 25.7 34 R-41C 2 1 62 7.00 12.96 36.58 80 3 an open f 62.5 des Integra	71 42.9 47.5 66.0 1,805 without notice 4000 29.2 33 DA 2 1 70 6.88 12.14 39.33 80 3 field at 33 F 63.8 ated Pump	777 53.5 59.4 83.2 1,860 34 3 34 36 11 4 36 11 4 65	88 58.5 65.0 91.3 2,025 00 4.3 33 44 22 33 82 47 .20 30 4 ondenser 3.3	105 671 70.8 85.7 3,392 6000 44.0 32 4 2 106 9.45 14.47 38.51 130 5	133 83.0 87.7 106.5 4,605 7200 52.5 30 4 2 126 10.96 17.16 40.32 130 5	151 112.8 119.2 144.9 3,480	203 124.5 131.7 160.3 4,605 000 3.8 3.8 31 4 2 2 53 .88 .08 0.32 30 6	249 162.3 171.6 208.9 3,613 8500 77.3 28 4 2 186 5.83 12.84 36.28 130 6	295 188.3 198.8 240.9 4,825 9000 88.9 21 4 2 214 6.07 11.67 46.37 130 6
Condenser Fluid Flow Full Load Current (FLA) Min Circuit Ampacity (MCA) Max Overcurrent Protection (MOP) Estimated Shipping Weight FREE COOLING CHILLERS WITH SCROLL COMPRESSORS Cooling Capacity 100% Free Cooling Ambient Refrigerant Number of Compressors Refrigerant Circuits Evaporator Flow Rate PSI Drops (Evap+Valves+Piping) F.C. PSI Drop (F.C.+Evap+Valve+Piping) Integrated Pump External Pressure Integrated Tank Volume Condenser Fan(s) NOISE DATA Sound Pressure Level at 32.8' ELECTRICAL DATA Electrical Full Load Current (FLA)	GPM A A A A LBS MPC-FC Tons °F Type Gry GPM PSID PSID PSID PSI Gallons Qry dBA V/PH/Hz A	6 5.9 7.0 11.3 361 1000 8.6 32 1 1 1 2 1 2.1 2.7,5 5.0 2 61.2	8 7.2 8.6 14.1 372	11 10.0 12.1 20.4 383 Motivoi 1200 10.9 34 1 1 26 5.72 9.11 32.71 50 2 60	16 14.5 17.5 29.6 548 Treserves the 1500 13.0 33 1 1 1 31 5.96 9.81 31.68 50 2 60.4	25 17.2 20.9 35.7 835 2200 17.1 33 2 1 41 6.30 9.92 30.70 80 2	32 22.8 27.4 45.9 857 e changes 1	38 28.1 34.1 57.9 923 o product sy 000 21.7 33 2 1 552 5.65 1.43 11.46 80 2 consumed in 60.8 Inclu	3500 25.7 34.0 37.7 52.6 1,761 secifications 3500 25.7 34 R-41C 2 7.00 12.96 36.58 80 3 an open f 62.5 des Integra	71 42.9 47.5 66.0 1,805 without notice 4000 29.2 33 DA 2 1 70 6.88 12.14 39.33 80 3 field at 33 F 63.8 atted Pump 8/60 73.9	777 53.5 59.4 83.2 1,860 32 34 33 44 36 11 44 366 11 665	88 58.5 65.0 91.3 2,025 00 4.3 33 44 22 33 882 47 .20 30 4 ondenser 3.3	105 671 70.8 85.7 3,392 6000 44.0 32 4 2 106 9.45 14.47 38.51 130 5	133 83.0 87.7 106.5 4,605 7200 52.5 30 4 2 126 10.96 17.16 40.32 130 5	151 112.8 119.2 144.9 3,480 81 6	203 124.5 131.7 160.3 4,605 2000 3.8 3.8 331 4 2 2 553 .83 .08 2.32 30 6	249 162.3 171.6 208.9 3,613 8500 77.3 28 4 2 186 5.83 12.84 36.28 130 6	295 188.3 198.8 240.9 4,825 9000 88.9 21 4 2 214 6.07 11.67 46.37 130 6
Condenser Fluid Flow Full Load Current (FLA) Min Circuit Ampacity (MCA) Max Overcurrent Protection (MOP) Estimated Shipping Weight FREE COOLING CHILLERS WITH SCROLL COMPRESSORS Cooling Capacity 100% Free Cooling Ambient Refrigerant Number of Compressors Refrigerant Circuits Evaporator Flow Rate PSI Drops (Evap+Valves+Piping) Integrated Pump External Pressure Integrated Tank Volume Condenser Fan(s) NOISE DATA Sound Pressure Level at 32.8' ELECTRICAL DATA Electrical Full Load Current (FLA) Min. Circuit Ampacity (MCA)	GPM A A A A LBS MPC-FC Tons °F Type Gry Gry GPM PSID PSID PSID Gallons Gry dBA V/PH/Hz A A	6 5.9 7.0 11.3 361 100 8.6 322 1 1 1 21 5.7 11.3 27.5 50 2	8 72 8.6 14.1 372	11 10.0 12.1 20.4 383 Motival 1200 10.9 34 1 1 1 26 5.72 9.11 32.71 50 2 60 32.0 37.0	16 14.5 17.5 29.6 548 1500 13.0 33 1 1 31 5.96 9.81 31.68 50 2 60.4	25 17.2 20.9 35.7 835 2200 17.1 33 2 1 41 6.30 9.92 30.70 80 2 Di 60.4	32 22.8 27.4 45.9 857 e changes	38 28.1 34.1 57.9 923 o product sy 000 21.7 33 2 1 552 6.65 1.1.43 1.1.46 80 2 2 2 2 1 50.08	3500 25.7 34.0 25.7 34.0 25.7 34 R-410 2 1 62 7.00 12.96 36.58 80 3 an open of 62.5 des Integral 460/3 69.7 76.0	71 42.9 47.5 66.0 1,805 without notice 4000 29.2 33 0A 2 1 70 6.88 12.14 39.33 3 iteld at 33 F 63.8 ated Pump 8/60 73.9 80.8	777 53.5 59.4 83.2 1,860 3.4 3.3 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6	88 58.5 65.0 91.3 2,025 00 4.3 33 42 2 3 82 47 20 33 40 40 40 40 40 40 40 40 40 40	105 671 70.8 85.7 3,392 6000 44.0 32 106 9.45 14.47 38.51 130 5	133 83.0 87.7 106.5 4,605 7200 52.5 30 4 2 126 10.96 17.16 40.32 130 5	151 112.8 119.2 144.9 3,480	203 124.5 131.7 160.3 4,605 000 3.8 31 4 2 2 53 .83 .08 0.32 30 6	249 162.3 171.6 208.9 3,613 8500 77.3 28 4 2 186 5.83 12.84 36.28 130 6	295 188.3 198.8 240.9 4,825 9000 88.9 21 4 2 214 6.07 11.67 46.37 130 6 69.4
Condenser Fluid Flow Full Load Current (FLA) Min Circuit Ampacity (MCA) Max Overcurrent Protection (MOP) Estimated Shipping Weight FREE COOLING CHILLERS WITH SCROLL COMPRESSORS Cooling Capacity 100% Free Cooling Ambient Refrigerant Number of Compressors Refrigerant Circuits Evaporator Flow Rate PSI Drops (Evap+Valves+Piping) F.C. PSI Drop (F.C.+Evap+Valve+Piping) Integrated Pump External Pressure Integrated Tank Volume Condenser Fan(s) NOISE DATA Sound Pressure Level at 32.8' ELECTRICAL DATA Electrical Full Load Current (FLA)	GPM A A A A LBS MPC-FC Tons °F Type Gry GPM PSID PSID PSID PSI Gallons Qry dBA V/PH/Hz A	6 5.9 7.0 11.3 361 1000 8.6 32 1 1 1 2 1 2.1 2.7,5 5.0 2 61.2	8 72 8.6 14.1 372	11 10.0 12.1 20.4 383 Motivoi 1200 10.9 34 1 1 26 5.72 9.11 32.71 50 2 60	16 14.5 17.5 29.6 548 Treserves the 1500 13.0 33 1 1 1 31 5.96 9.81 31.68 50 2 60.4	25 17.2 20.9 35.7 835 2200 17.1 33 2 1 41 6.30 9.92 30.70 80 2	32 22.8 27.4 45.9 857 e changes	38 28.1 34.1 57.9 923 o product sy 000 21.7 33 2 1 552 5.65 1.43 11.46 80 2 consumed in 60.8 Inclu	3500 25.7 34.0 37.7 52.6 1,761 secifications 3500 25.7 34 R-41C 2 7.00 12.96 36.58 80 3 an open f 62.5 des Integra	71 42.9 47.5 66.0 1,805 without notice 4000 29.2 33 DA 2 1 70 6.88 12.14 39.33 80 3 field at 33 F 63.8 atted Pump 8/60 73.9	777 53.5 59.4 83.2 1,860 3.4 3.3 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6	88 58.5 65.0 91.3 2,025 00 4.3 33 44 22 33 882 47 .20 30 4 ondenser 3.3	105 671 70.8 85.7 3,392 6000 44.0 32 4 2 106 9.45 14.47 38.51 130 5	133 83.0 87.7 106.5 4,605 7200 52.5 30 4 2 126 10.96 17.16 40.32 130 5	151 112.8 119.2 144.9 3,480	203 124.5 131.7 160.3 4,605 2000 3.8 3.8 331 4 2 2 553 .83 .08 2.32 30 6	249 162.3 171.6 208.9 3,613 8500 77.3 28 4 2 186 5.83 12.84 36.28 130 6	295 188.3 198.8 240.9 4,825 9000 88.9 21 4 2 214 6.07 11.67 46.37 130 6
Condenser Fluid Flow Full Load Current (FLA) Min Circuit Ampacity (MCA) Max Overcurrent Protection (MOP) Estimated Shipping Weight FREE COOLING CHILLERS WITH SCROLL COMPRESSORS Cooling Capacity 100% Free Cooling Ambient Refrigerant Number of Compressors Refrigerant Circuits Evaporator Flow Rote PSI Drops (Evap+Valves+Piping) F.C. PSI Drop (F.C.+Evap+Valve+Piping) Integrated Pump External Pressure Integrated Tonk Volume Condenser Fan(s) NOISE DATA Sound Pressure Level at 32.8' ELECTRICAL DATA Electrical Full Load Current (FLA) Min. Circuit Ampacity (MCA) Max. Overcurrent Protection (MOP)	GPM A A A A LBS MPC-FC Tons °F Type Gry Gry GPM PSID PSID PSID Gallons Gry dBA V/PH/Hz A A	6 5.9 7.0 11.3 361 100 8.6 322 1 1 1 21 5.7 11.3 27.5 50 2	8 72 8.6 14.1 372	11 10.0 12.1 20.4 383 Motival 1200 10.9 34 1 1 1 26 5.72 9.11 32.71 50 2 60 32.0 37.0	16 14.5 17.5 29.6 548 1500 13.0 33 1 1 31 5.96 9.81 31.68 50 2 60.4	25 17.2 20.9 35.7 835 2200 17.1 33 2 1 41 6.30 9.92 30.70 80 2 Di 60.4	32 22.8 27.4 45.9 857 e changes	38 28.1 34.1 57.9 923 o product sy 000 21.7 33 2 1 552 6.65 1.1.43 1.1.46 80 2 2 2 2 1 50.08	3500 25.7 34.0 25.7 34.0 25.7 34 R-410 2 1 62 7.00 12.96 36.58 80 3 an open of 62.5 des Integral 460/3 69.7 76.0	71 42.9 47.5 66.0 1,805 without notice 4000 29.2 33 0A 2 1 70 6.88 12.14 39.33 3 iteld at 33 F 63.8 ated Pump 8/60 73.9 80.8	777 53.5 59.4 83.2 1,860 3.4 3.3 3.4 3.6 3.6 3.6 3.6 3.6 3.6 3.7 3.7 3.6 3.6 3.6 3.6 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7	88 58.5 65.0 91.3 2,025 00 4.3 33 42 2 3 82 47 20 33 40 40 40 40 40 40 40 40 40 40	105 671 70.8 85.7 3,392 6000 44.0 32 106 9.45 14.47 38.51 130 5	133 83.0 87.7 106.5 4,605 7200 52.5 30 4 2 126 10.96 17.16 40.32 130 5	151 112.8 119.2 144.9 3,480	203 124.5 131.7 160.3 4,605 000 3.8 31 4 2 2 53 .83 .08 0.32 30 6	249 162.3 171.6 208.9 3,613 8500 77.3 28 4 2 186 5.83 12.84 36.28 130 6	295 188.3 198.8 240.9 4,825 9000 88.9 21 4 2 214 6.07 11.67 46.37 130 6 69.4
Condenser Fluid Flow Full Load Current (FLA) Min Circuit Ampacity (MCA) Max Overcurrent Protection (MOP) Estimated Shipping Weight FREE COOLING CHILLERS WITH SCROLL COMPRESSORS Cooling Capacity 100% Free Cooling Ambient Refrigerant Number of Compressors Refrigerant Circuits Evaporator Flow Rate PSI Drops (Evap+Valves+Piping) F.C. PSI Drop (F.C.+Evap+Valve+Piping) Integrated Pump External Pressure Integrated Tank Volume Condenser Fan(s) NOISE DATA Sound Pressure Level at 32.8' ELECTRICAL DATA Electrical Full Load Current (FLA) Min. Circuit Ampacity (MCA) Max. Overcurrent Protection (MOP) EQUIPMENT DIMENSIONS & WEIGHTS	GPM A A A A LBS MPC-FC Tons °F Type Qty Gty GPM PSID PSID PSID Gallons Qty dBA V/PH/Hz A A A	6 5.9 7.0 11.3 361 100 8.6 32 1 1 1 21 5.7, 50 2 61.1 23:1 24:2 42.9	8 72 8.6 14.1 372	11 10.0 12.1 20.4 38.3 Motivoi 1200 10.9 34 1 1 26 5.72 9.11 32.71 50 2 60 37.0 57.1	160 14.5 17.5 29.6 548 1500 13.0 33 1 1 1 31 5.96 9.81 31.68 50 2 60.4 370 43.3 68.4	25 17.2 20.9 35.7 835 17ght to make 2200 17.1 33 2 1 41 6.30 9.92 30.70 80 2 Dit 60.4	32 22.8 27.4 45.9 857 e changes 3 3 3 4 4 4 5 5 6 6 7 6 7 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7	38 28.1 34.1 57.9 923 o product sy 000 21.7 33 2 1 552 5.6.65 1.43 11.46 80 2 2 2 2 1 55.7 60.8 81.0	3500 25.7 34 R-410 2 1 62 7.00 12.96 36.58 80 3 an open 6 62.5 des Integra 460/3 69.7 76.0 101.3	71 42.9 47.5 66.0 1,805 without notice 4000 29.2 33 0A 2 1 70 6.88 12.14 39.33 80 3 field at 33 F 63.8 atted Pump 3/60 73.9 80.8 108.2	777 53.5 59.4 83.2 1,860 3.4 3.3 3.4 3.6 3.6 8.8 7.3 1.4 3.6 6.3 8.8 9.0 10	88 58.5 65.0 91.3 2,025 00 4.3 33 44 22 3 82 47 .20 330 4 4 0 ondenser 3.3	105 67.1 70.8 85.7 3,392 6000 44.0 32 4 2 106 9.45 14.47 38.51 130 5 64.3	133 83.0 87.7 106.5 4,605 7200 52.5 30 4 2 126 10.96 17.16 40.32 130 5 64.9	151 112.8 119.2 144.9 3,480 8 6 5 5 11 44 14 16 18	203 124.5 131.7 160.3 4,605 200 3.8 33 4 2 2 53 83 .08 2.32 30 6 6 7.77	249 162.3 171.6 208.9 3,613 8500 77.3 28 4 2 186 5.83 12.84 36.28 130 6 69.8	295 188.3 198.8 240.9 4,825 9000 88.9 21 4 2 214 6.07 11.67 46.37 130 6 69.4
Condenser Fluid Flow Full Load Current (FLA) Min Circuit Ampacity (MCA) Max Overcurrent Protection (MOP) Estimated Shipping Weight FREE COOLING CHILLERS WITH SCROLL COMPRESSORS Cooling Capacity 100% Free Cooling Ambient Refrigerant Number of Compressors Refrigerant Circuits Evaporator Flow Rate PSI Drops (Evap+Valves+Piping) F.C. PSI Drop (F.C.+Evap+Valve+Piping) Integrated Tunk Volume Condenser Fan(s) NOISE DATA Sound Pressure Level at 32.8' ELECTRICAL DATA Electrical Full Load Current (FLA) Min. Circuit Ampacity (MCA) Max. Overcurrent Protection (MOP) EQUIPMENT DIMENSIONS & WEIGHTS Length Width Height	GPM A A A A LBS MPC-FC Tons °F Type Qty Qty GPM PSID PSID PSID PSID PSID V/PH/Hz A A A IN IN IN	6 59 70 11.3 361 100 8.6 32 1 1 21 21 5.7 11.3 27.5 50 2 61.2 42.4 63.3 33.9 60.0	8 72 8.6 14.1 372	11 10.0 12.1 20.4 383 Molivoi 1200 10.9 34 1 1 26 5.72 9.11 32.71 50 2 60 37.0 57.1 87.4 43.3 82.7	16 14.5 17.5 29.6 548 reserves the 1500 13.0 33 1 1 1 31 5.96 9.81 31.68 50 2 60.4 43.3 68.4 87.4 43.3 82.7	25 17.2 20.9 35.7 835 17ght to make 2200 17.1 33 2 1 41 6.30 9.92 30.70 80 2 Dis 60.4 43.7 47.7 63.6	32 22.8 27.4 45.9 857 e changes \ 3 3 4 4 4	38 28.1 34.1 57.9 923 o product sg 000 21.7 33 2 1 552 6.65 1.43 11.46 80 2 2 consured in 60.8 Inclu 135.7 50.8 81.0	3500 37.7 52.6 1,761 3500 25.7 34 R-410 2 1 62 7.00 12.96 36.58 80 3 an open f 62.5 460/3 69.7 76.0 101.3 132.1 43.5 85.8	71 42.9 47.5 66.0 1,805 without notice 4000 29.2 33 0A 2 1 70 6.88 12.14 39.33 80 3 Reld at 33 F 6.88 12.84 10.8.2 171.5 80.8 80.8 80.8 80.8 80.8 80.8 80.8 80	777 53.5 59.4 83.2 1,860 50 32 33 33 34 36 65 65 86 97 10 17 45 88	88 58.5 65.0 91.3 2,025 1.3 3 4 2 3 3 82 47 2.20 30 4 4 ondenser 3.3 5.5 6.4	105 671 70.8 85.7 3,392 6000 44.0 32 106 9.45 14.47 38.51 130 5 64.3 111.8 116.8 136.7	133 83.0 87.7 106.5 4,605 7200 52.5 30 4 2 126 10.96 17.16 40.32 130 5 64.9 131.4 137.6 162.4 210.6 43.5 85.8	151 112.8 119.2 144.9 3,480 66 55 11 40 11 12 14 18	203 124.5 131.7 160.3 4,605 3.8 31 4 2 553 .83 .08 .0.32 30 6	249 162.3 171.6 208.9 3,613 8500 77.3 28 4 2 186 5.83 12.84 36.28 130 6 69.8 193.2 203.0 242.3 250.0 43.5 85.8	295 188.3 198.8 240.9 4,825 9000 88.9 21 4 2 214 6.07 11.67 46.37 130 6 6 69.4 224.8 236.2 281.7
Condenser Fluid Flow Full Load Current (FLA) Min Circuit Ampacity (MCA) Max Overcurrent Protection (MOP) Estimated Shipping Weight FREE COOLING CHILLERS WITH SCROLL COMPRESSORS Cooling Capacity 100% Free Cooling Ambient Refrigerant Number of Compressors Refrigerant Circuits Evaporator Flow Rate PSI Drops (Evap+Valves+Piping) F.C. PSI Drop (F.C.+Evap+Valve+Piping) Integrated Tunk Volume Condenser Fan(s) NOISE DATA Sound Pressure Level at 32.8' ELECTRICAL DATA Electrical Full Load Current (FLA) Min. Circuit Ampacity (MCA) Max. Overcurrent Protection (MOP) EQUIPMENT DIMENSIONS & WEIGHTS Length Width	GPM A A A A LBS MPC-FC Tons °F Type Qty Qty GPM PSID PSID PSID PSID Gallons Qty dBA V/PH/Hz A A A IN IN	6 59 70 11.3 361 100 8.6 32 1 1 21 5.7 11.3 27.5 50 2 61.2 42.9 63.3 33.9	8 72 8.6 14.1 372	11 10.0 12.1 20.4 383 Motivoi 1200 10.9 34 1 1 26 5.72 9.11 32.71 50 2 60 37.0 57.1 87.4 43.3	16 14.5 17.5 29.6 548 1500 13.0 33 1 1 1 31 5.96 9.81 31.68 50 2 60.4 37.0 43.3 68.4 87.4 43.3	25 17.2 20.9 35.7 835 17ght to make 2200 17.1 33 2 1 41 6.30 9.92 30.70 80 2 Dit 60.4	32 22.8 27.4 45.9 857 e changes l	38 28.1 34.1 57.9 923 o product sy 000 21.7 33 2 1 552 6.65 1.43 11.46 80 2 2 cosured in 50.8 Inclu 32.1 43.5	3500 3500 25.7 34.0 25.7 34 R-410 2 1 62 7.00 12.96 36.58 80 3 an open f 62.5 69.7 76.0 101.3	71 42.9 47.5 66.0 1,805 without notice 4000 29.2 33 0A 2 1 70 6.88 12.14 39.33 80 3 field at 33 F 6.38 ated Pump 8/60 73.9 80.8 108.2	777 53.5 59.4 83.2 1,860 500 500 500 500 500 500 500	88 58.5 65.0 91.3 2,025 00 4.3 33 44 22 33 882 47 2.20 30 4 4 5.5 6.4 1.5 6.5 6.8 5.7	105 67.1 70.8 85.7 3,392 6000 44.0 32 4 2 106 9.45 14.47 38.51 130 5 64.3	133 83.0 87.7 106.5 4,605 7200 52.5 30 4 2 126 10.96 17.16 40.32 130 5 64.9	151 112.8 119.2 144.9 3,480 3,480 6	203 124.5 131.7 160.3 4,605 200 3.8 331 4 2 2 553 .83 .08 0.32 30 6	249 162.3 171.6 208.9 3,613 8500 77.3 28 4 2 186 5.83 12.84 36.28 130 6 69.8	295 188.3 198.8 240.9 4,825 9000 88.9 21 4 2 214 6.07 11.67 46.37 130 6 6 69.4 224.8 236.2 281.7

^{*} Air Cooled Capacity Rated @ 44°F LWT / 54°F EWT / 95°F Ambient / 100% Water. ** Water Cooled Capacity Rated @ 44°F LWT / 54°F EWT / 85°F ECWT



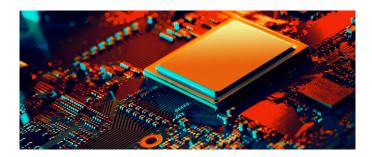
We cool the most advanced technology on the planet

We discover, design, and develop resilient thermal technologies and strategies, and convert that into actionable insights and unparalleled value for our clients.

From climate research to finance, cloud to artificial intelligence, customers trust Motivair's cooling technologies so they can break new boundaries and help deliver tomorrow's innovations faster.

We're helping our clients discover cures for diseases, combat climate change, and make tomorrow's data-driven services more reliable and accessible.

We are touching millions of lives each day by providing the critical cooling technology to support productivity and innovation that is changing our world.



DIRECT-TO-CHIP COOLING

Supercomputing isn't just in the lab anymore. The power of high-performance computing is scaling out as more enterprises and corporations look to utilize artificial intelligence for advanced decision-making and accelerate digital transformation.



THERMAL MANAGEMENT

When it comes to cooling your critical infrastructure, we work to customize specialty chiller technology for you, rather than selecting from a catalog



DATA CENTER & IT COOLING

Designed for and used by the enterprise data center and supercomputer owners and operators, our cooling technology is engineered to help you leap forward in scale, quality, and speed.



CLIENT SERVICES GROUP

Manage every aspect of your cooling infrastructure, from planning and design to start up, commissioning and post-sale performance. Your business depends not only on our products but also our ability to respond when you need us.