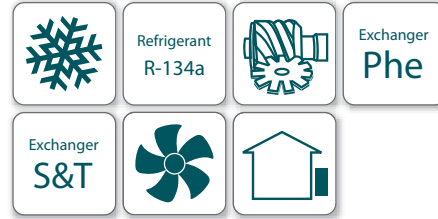


McEnergy Mono

AIR COOLED CHILLER WITH SCREW COMPRESSORS



Cooling capacity: 101 kW ÷ 413 kW



GENERAL CHARACTERISTICS

- Stepless capacity control
- Single-screw compressors
- Direct expansion plate to plate type evaporator; electrical heater to prevent freezing insulation made of closed cells material
- R134 refrigerant
- High efficiency fin and tube type with integral subcooler
- Direct propeller fans type
- Electronic expansion valve
- MicroTech III controller compatible with BMS
- Cabinet and structure made of galvanized steel sheet and painted to provide a high resistance to corrosion; colour Ivory White (Munsell code 5Y7.5/1) (±RAL7044)

VERSIONS

EFFICIENCY
SE Standard efficiency ⁽¹⁾EER up to 2,98
⁽¹⁾ESEER up to 3,34

CU Condensing unit ⁽¹⁾EER up to 3,30

⁽¹⁾ (Standard Sound)

SOUND LEVELS

ST Standard sound 73,5 ÷ 76,0 dB(A)
LN Low sound 71,0 ÷ 73,5 dB(A)

STANDARD OPTIONS

- Wye-Delta Compressors starter (Y-Δ)
- Double set-point
- Fans thermal overload relays
- Phase monitor
- 10mm evaporator insulation
- Evaporator electric heater type
- Electronic expansion valve
- Discharge line shut off valves
- Suction line shut off valve
- Outside ambient temperature sensor and reset of leaving
- water temperature set-point
- Compressor hour run meter
- General fault
- Set-point reset
- Demand limit
- Alarm from external device
- Main switch interlock door
- Emergency stop
- Fans circuit breakers
- Low pressure side manometer

OPTIONS ON REQUEST

- Total heat recovery / Partial heat recovery
- Soft starter
- Brine version
- Compressor thermal overload relays
- Under/Over Voltage
- Energy Meter
- Capacitors for power factor correction
- Current limit
- 20 mm evaporator insulation
- Fan speed regulation
- Speedtrol
- Condenser coil guards
- Cu-Cu condensing coils
- Cu-Cu-Sn condensing coils
- Alucoat condensing coils
- Evaporator Flow switch
- High pressure side manometer
- Kit container
- Rubber type anti vibration mounts
- Spring type anti vibration mounts
- Hydronic Kit (single water pump) / (twin water pumps)
- Compressors circuit breakers

McEnergy Mono

AIR COOLED CHILLER WITH SCREW COMPRESSORS

TECHNICAL DATA McEnergy Mono SE ST - cooling only

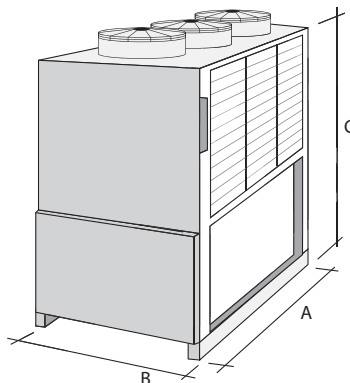
McEnergy Mono SE ST		029.1	034.1	039.1	046.1	052.1	061.1	073.1	087.1	102.1	118.1
Cooling Capacity ¹	kW	101	121	138	163	183	214	256	307	360	413
Unit Power Input ¹	kW	38,7	46,9	53,4	60,3	68,5	71,7	86,7	111	133	146
EER	--	2,61	2,57	2,58	2,70	2,67	2,98	2,95	2,77	2,71	2,84
ESEER	--	2,93	2,93	2,75	2,93	2,81	3,02	3,18	3,05	3,23	3,34
Sound Pressure Level ²	dB(A)	73,5	73,5	73,7	73,7	73,9	75,1	75,0	75,3	75,3	76,0
Compressor	Type	Semi-hermetic single screw compressor Inverter driven									
Quantity	Nr	1	1	1	1	1	1	1	1	1	1
Minimum Capacity	%	25	25	25	25	25	25	25	25	25	25
Refrigerant	Type	R-134a	R-134a	R-134a	R-134a	R-134a	R-134a	R-134a	R-134a	R-134a	R-134a
Circuits Number	Nr	1	1	1	1	1	1	1	1	1	1
Condenser Coil	Type	High efficiency fin and tube type with integral subcooler									
Fan	Type	Direct propeller type									
Quantity	Nr	2	2	3	3	4	4	6	6	6	6
Power Input	kW	1,75	1,75	1,75	1,75	1,75	1,75	1,75	1,75	1,75	1,75
Speed	RPM	920	920	920	920	920	920	920	920	920	920
Diameter	mm	800	800	800	800	800	800	800	800	800	800
Evaporator	Type	Single Pass Shell&Tube									
Water Volume	l	12	15	17	20	24	30	25	30	36	44
Pressure Drop	kPa	24	25	24	24	22	21	48	48	48	45
Water Connections Size	--	3"	3"	3"	3"	3"	3"	3"	3"	3"	3"
Standard Voltage	V/ph/Hz	4000 V / 3ph / 50 Hz									

NOTES:

- (1) 12/7°C evaporator water temperature; 35°C ambient temperature
- (2) At 1 m, according to ISO 3744, at free field semispherical conditions

AIR COOLED CHILLERS

Weight and dimensions		029.1	034.1	039.1	046.1	052.1	061.1	073.1	087.1	102.1	118.1
Shipping weight	kg	1684	1684	1861	1861	2086	2086	2919	2919	2919	2919
Operating weight	kg	1699	1699	1881	1881	2116	2116	2963	2963	2963	2963
(A) Length	mm	2165	2165	3065	3065	3965	3965	3070	3070	3070	3070
(B) Width	mm	1292	1292	1292	1292	1292	1292	2236	2236	2236	2236
(C) Height	mm	2273	2273	2273	2273	2273	2273	2223	2223	2223	2223



McEnergy Mono

AIR COOLED CHILLER WITH SCREW COMPRESSORS

authorized McQuay distributor

TECHNICAL DATA McEnergy Mono | SE LN - cooling only

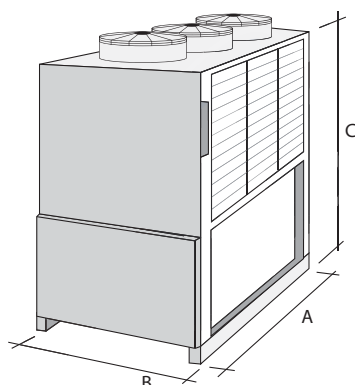
McEnergy Mono SE LN		029.1	034.1	039.1	046.1	052.1	061.1	073.1	087.1	102.1	118.1
Cooling Capacity ¹	kW	97,9	116	134	157	177	209	249	296	345	398
Unit power input ¹	kW	38,8	47,9	53,0	60,4	67,8	72,1	84,5	110	134	150
EER	--	2,52	2,42	2,53	2,60	2,61	2,89	2,95	2,69	2,58	2,65
ESEER	--	3,01	2,97	2,85	3,00	3,07	3,32	3,55	3,41	3,34	3,45
Sound Pressure ²	dB(A)	71,0	71,0	71,2	71,2	71,4	72,6	72,5	72,8	72,8	73,5
Compressor	Type	Semi-hermetic single screw compressor									
Quantity	No.	1	1	1	1	1	1	1	1	1	1
Minimum capacity	%	25	25	25	25	25	25	25	25	25	25
Refrigerant	Type	R-134a	R-134a	R-134a	R-134a	R-134a	R-134a	R-134a	R-134a	R-134a	R-134a
N. of circuits	No.	1	1	1	1	1	1	1	1	1	1
Air heat exchanger	Type	High efficiency fin and tube type with integral subcooler									
Fan	Type	Direct propeller									
Quantity	No.	2	2	3	3	4	4	6	6	6	6
Motor input	kW	0,78	0,78	0,78	0,78	0,78	0,78	0,78	0,78	0,78	0,78
Speed	rpm	715	715	715	715	715	715	715	715	715	715
Diameter	mm	800	800	800	800	800	800	800	800	800	800
Water heat exchanger	Type	Single Pass Shell&Tube									
Water volume	l	12	15	17	20	24	30	25	30	36	44
Nominal Water pressure drop	kPa	23	23	23	23	21	20	46	45	44	42
Piping connections	"	3	3	3	3	3	3	3	3	3	3
Standard voltage	V/ph/Hz	4000 V / 3ph / 50 Hz									

NOTES:

- (1) 12/7°C evaporator water temperature; 35°C ambient temperature
- (2) At 1 m, according to ISO 3744, at free field semispherical conditions

Weight and dimensions		029.1	034.1	039.1	046.1	052.1	061.1	073.1	087.1	102.1	118.1
Shipping weight	kg	1784	1784	1961	1961	2186	2186	3029	3029	3029	3029
Operating weight	kg	1799	1799	1981	1981	2216	2216	3073	3073	3073	3073
(A) Length	mm	2165	2165	3065	3065	3965	3965	3070	3070	3070	3070
(B) Width	mm	1292	1292	1292	1292	1292	1292	2236	2236	2236	2236
(C) Height	mm	2273	2273	2273	2273	2273	2273	2223	2223	2223	2223

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McEnergy Mono

AIR COOLED CHILLER WITH SCREW COMPRESSORS

TECHNICAL DATA McEnergy Mono CU SE ST - cooling only



McEnergy Mono CU SE ST		029.1	034.1	039.1	046.1	052.1	061.1	073.1	087.1	102.1	118.1
Cooling Capacity ¹	kW	121	144	165	196	219	252	306	370	435	488
Unit power input ¹	kW	41,8	51,0	57,4	65,2	73,7	76,6	92,8	122	147	161
EER	--	2,90	2,83	2,87	3,00	2,97	3,28	3,30	3,04	2,96	3,03
Sound Pressure ²	dB(A)	73,5	73,5	73,7	73,7	73,9	75,1	75,0	75,3	75,3	76,0
Compressor	Type	Semi-hermetic single screw compressor									
Quantity	No.	1	1	1	1	1	1	1	1	1	1
Minimum capacity	%	25	25	25	25	25	25	25	25	25	25
Refrigerant	Type	R-134a	R-134a	R-134a	R-134a	R-134a	R-134a	R-134a	R-134a	R-134a	R-134a
N. of circuits	No.	1	1	1	1	1	1	1	1	1	1
Air heat exchanger	Type	High efficiency fin and tube type with integral subcooler									
Fan	Type	Direct propeller									
Quantity	No.	2	2	3	3	4	4	6	6	6	6
Motor input	kW	1,75	1,75	1,75	1,75	1,75	1,75	1,75	1,75	1,75	1,75
Speed	rpm	920	920	920	920	920	920	920	920	920	920
Diameter	mm	800	800	800	800	800	800	800	800	800	800
Standard voltage	V/ph/Hz	4000 V / 3ph / 50 Hz									

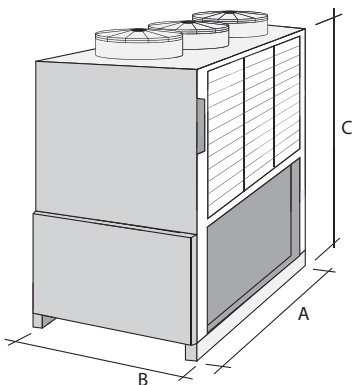
NOTES:

- (1) 12/7°C evaporator water temperature; 35°C ambient temperature
- (2) At 1 m, according to ISO 3744, at free field semispherical conditions

AIR COOLED CHILLERS

Weight and dimensions		029.1	034.1	039.1	046.1	052.1	061.1	073.1	087.1	102.1	118.1
Shipping weight	kg	1584	1584	1741	1741	1936	1936	2679	2679	2679	2679
Operating weight	kg	1617	1617	1781	1781	1981	1981	2756	2756	2756	2756
(A) Length	mm	2165	2165	3065	3065	3965	3965	3070	3070	3070	3070
(B) Width	mm	1292	1292	1292	1292	1292	1292	2236	2236	2236	2236
(C) Height	mm	2273	2273	2273	2273	2273	2273	2223	2223	2223	2223

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McEnergy Mono

AIR COOLED CHILLER WITH SCREW COMPRESSORS

authorized McQuay distributor



TECHNICAL DATA McEnergy Mono CU SE LN - cooling only

McEnergy Mono CU SE LN		029.1	034.1	039.1	046.1	052.1	061.1	073.1	087.1	102.1	118.1
Cooling Capacity ¹	kW	116	137	159	187	209	243	295	352	409	462
Unit power input ¹	kW	42,3	52,5	57,6	66,3	73,9	78,2	91,5	122	150	167
EER	--	2,74	2,61	2,75	2,82	2,83	3,11	3,23	2,88	2,73	2,76
Sound Pressure ²	dB(A)	71,0	71,0	71,2	71,2	71,4	72,6	72,5	72,8	72,8	73,5
Compressor	Type	Semi-hermetic single screw compressor									
Quantity	No.	1	1	1	1	1	1	1	1	1	1
Minimum capacity	%	25	25	25	25	25	25	25	25	25	25
Refrigerant	Type	R-134a	R-134a	R-134a	R-134a	R-134a	R-134a	R-134a	R-134a	R-134a	R-134a
N. of circuits	No.	1	1	1	1	1	1	1	1	1	1
Air heat exchanger	Type	High efficiency fin and tube type with integral subcooler									
Fan	Type	Direct propeller									
Quantity	No.	2	2	3	3	4	4	6	6	6	6
Motor input	kW	0,78	0,78	0,78	0,78	0,78	0,78	0,78	0,78	0,78	0,78
Speed	rpm	715	715	715	715	715	715	715	715	715	715
Diameter	mm	800	800	800	800	800	800	800	800	800	800
Standard voltage	V/ph/Hz	4000 V / 3ph / 50 Hz									

NOTES:

- (1) 12/7°C evaporator water temperature; 35°C ambient temperature
- (2) At 1 m, according to ISO 3744, at free field semispherical conditions

AIR COOLED CHILLERS

Weight and dimensions		029.1	034.1	039.1	046.1	052.1	061.1	073.1	087.1	102.1	118.1
Shipping weight	kg	1684	1684	1841	1841	2036	2036	2789	2789	2789	2789
Operating weight	kg	1717	1717	1881	1881	2081	2081	2886	2886	2886	2886
(A) Length	mm	2165	2165	3065	3065	3965	3965	3070	3070	3070	3070
(B) Width	mm	1292	1292	1292	1292	1292	1292	2236	2236	2236	2236
(C) Height	mm	2273	2273	2273	2273	2273	2273	2223	2223	2223	2223

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