

## Model

Designation **CU GS34MLX MG\_Z 230/1/50 VAL**



Sales code: 314L7004  
Engineering code: CUGS34MLX00VE

## Application Data

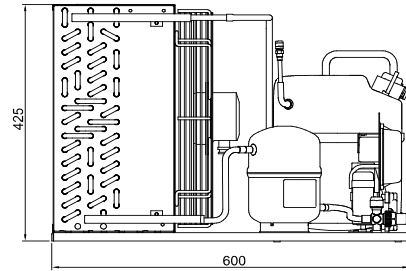
Power supply 220-240V / 50Hz 1~  
Refrigerants R404A-R452A-R449A  
Refr. charge - tech. limit 2000g / 70,5oz  
Starter HST / capillary tube or expansion valve  
Sound pressure (10m) 45,8dB(A)

## Configuration data

	Conf. 1	Conf. 2	Conf. 3
Voltage range	198 - 254V / 50Hz	198 - 254V / 50Hz	198 - 254V / 50Hz
Refrigerant	R404A	R452A	R449A
Application	MBP	MBP	MBP
Rated performance	<u>pe=-10°C, Tsuc=20°C, Tamb=25°C, subcooling: 2K</u>		
Cooling capacity	3144W / 10738Btu/h	3150W / 10759Btu/h	3016W / 10301Btu/h
Power consumption	1769,5W	1669,2W	1567,9W
Current consumption	9,5A	9,3A	8,9A
COP/EER	1,78 / 6,07Btu/Wh	1,89 / 6,45Btu/Wh	1,92 / 6,57Btu/Wh
Approvals	Eco design (EU) 2015/1095, CE, UK CA, VDE	Eco design (EU) 2015/1095, CE, UK CA, VDE	Eco design (EU) 2015/1095, CE

## Compressor

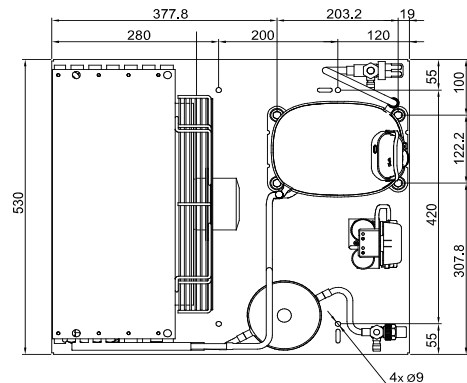
Designation **GS34MLX**  
Motor configuration CSCR  
Locked rotor amperage 46A  
Rated load amperage 9,3A  
Winding resistance main 1,5Ω  
Winding resistance aux 5,8Ω  
Oil quantity 900cm<sup>3</sup> / 30,4fl.oz  
Oil type POE  
Horsepower rating 1 3/4 HP



## Dimensions

### Condensing unit

Height x Width x Depth 425 x 530 x 600 [mm] / 16,7 x 20,9 x 23,6 [in]  
Weight 47,7kg / 105,2lbs  
Suction adapter FLARE 5/8"  
Discharge adapter FLARE 3/8"  
Process connector ø6,5mm / 0,26in



### Package data

Height x Width x Depth 500 x 600 x 700 [mm] / 19,7 x 23,6 x 27,6 [in]  
Weight 51,7kg / 114lbs

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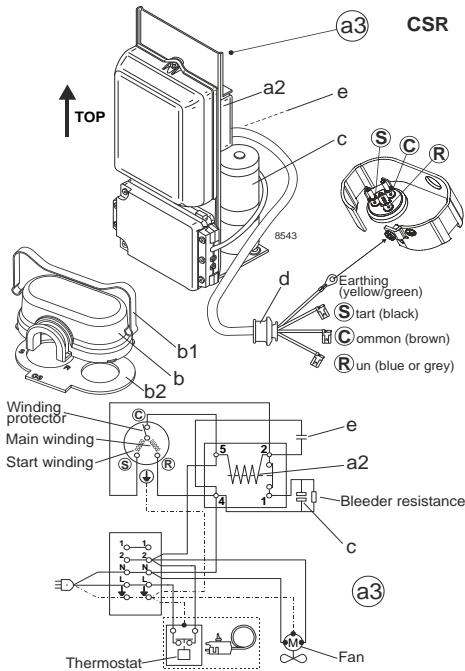
## Components Condensing-Unit / Spare Parts

Component	Type	Spare part code number
Compressor code	GS34MLX	107B0524
Condenser	Condenser (5 rows x 16 tubes)	1650440C70
Fan motor	65W	61435021
Blade code	/	/
Air flow	1456m <sup>3</sup> /h	
Receiver code	Receiver 1,7 liter	120/182VS00
Suction valve code	FLARE 5/8"	FLARE 5/8"
Liquid valve code	FLARE 3/8"	FLARE 3/8"

Compressor starting equipment	Spare part code number
pos. a3 - GS starter kit (600mm)	117-7056
pos. b - cover	107B9101
pos. b2 - gasket	107B9100
pos. b1 - clamp	107B9104

## Wiring Sketch Compressor

## Wiring Sketch Condensing Unit



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## Cooling performance - Conf. 1

Power supply	220-240V / 50Hz 1~	Voltage range	198 - 254V / 50Hz
Refr. charge - tech. limit	2000g / 70,5oz		
Starter	HST / capillary tube or expansion valve		
Motor configuration	CSCR		
Refrigerant	R404A		
Application	MBP		
Approvals	Eco design (EU) 2015/1095, CE, UK CA, VDE		

ambient temperature	[°C / °F]	25 / 77 (suction gas temperature [°C / °F]: 20 / 68, subcooling: 2K)						
evaporating temperature	[°C / °F]	-20 / -4	-15 / 5	-10 / 14	-5 / 23	0 / 32	5 / 41	10 / 50
cooling capacity	[W]	2241	2677	3144	3636	4143	4661	5177
COP	[W/W]	1,55	1,67	1,78	1,86	1,91	1,94	1,94
cooling capacity	[Btu/h]	7654	9141	10738	12417	14150	15918	17680
power consumption	[W]	1442	1599	1769	1958	2169	2404	2669
current consumption	[A]	8,3	8,9	9,5	10,3	11,2	12,2	13,3

ambient temperature	[°C / °F]	32 / 90 (suction gas temperature [°C / °F]: 20 / 68, subcooling: 2K)				
evaporating temperature	[°C / °F]	-20 / -4	-15 / 5	-10 / 14	-5 / 23	0 / 32
cooling capacity	[W]	1978	2369	2783	3211	3652
COP	[W/W]	1,33	1,43	1,51	1,57	1,61
cooling capacity	[Btu/h]	6755	8091	9503	10966	12472
power consumption	[W]	1483	1655	1840	2043	2265
current consumption	[A]	8,5	9,1	9,8	10,6	11,6

ambient temperature	[°C / °F]	38 / 100 (suction gas temperature [°C / °F]: 20 / 68, subcooling: 2K)		
evaporating temperature	[°C / °F]	-20 / -4	-15 / 5	-10 / 14
cooling capacity	[W]	1752	2102	2467
COP	[W/W]	1,16	1,23	1,3
cooling capacity	[Btu/h]	5982	7179	8427
power consumption	[W]	1516	1704	1904
current consumption	[A]	8,6	9,3	10

ambient temperature	[°C / °F]	43 / 109 (suction gas temperature [°C / °F]: 20 / 68, subcooling: 2K)	
evaporating temperature	[°C / °F]	-20 / -4	
cooling capacity	[W]	1567	
COP	[W/W]	1,01	
cooling capacity	[Btu/h]	5352	
power consumption	[W]	1544	
current consumption	[A]	8,7	

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## Cooling performance - Conf. 2

Power supply	220-240V / 50Hz 1~	Voltage range	198 - 254V / 50Hz
Refr. charge - tech. limit	2000g / 70,5oz		
Starter	HST / capillary tube or expansion valve		
Motor configuration	CSCR		
Refrigerant	R452A		
Application	MBP		
Approvals	Eco design (EU) 2015/1095, CE, UK CA, VDE		

ambient temperature	[°C / °F]	25 / 77 (suction gas temperature [°C / °F]: 20 / 68, subcooling: 2K)						
evaporating temperature	[°C / °F]	-20 / -4	-15 / 5	-10 / 14	-5 / 23	0 / 32	5 / 41	10 / 50
cooling capacity	[W]	2201	2655	3150	3682	4242	4823	5417
COP	[W/W]	1,63	1,77	1,89	1,98	2,05	2,09	2,09
cooling capacity	[Btu/h]	7517	9067	10757	12573	14486	16470	18499
power consumption	[W]	1350	1502	1669	1856	2068	2310	2586
current consumption	[A]	8,1	8,7	9,3	10	10,8	11,7	12,8

ambient temperature	[°C / °F]	32 / 90 (suction gas temperature [°C / °F]: 20 / 68, subcooling: 2K)				
evaporating temperature	[°C / °F]	-20 / -4	-15 / 5	-10 / 14	-5 / 23	0 / 32
cooling capacity	[W]	1958	2371	2815	3288	3781
COP	[W/W]	1,41	1,53	1,62	1,7	1,75
cooling capacity	[Btu/h]	6686	8099	9614	11228	12914
power consumption	[W]	1386	1553	1735	1935	2160
current consumption	[A]	8,2	8,9	9,5	10,3	11,2

ambient temperature	[°C / °F]	38 / 100 (suction gas temperature [°C / °F]: 20 / 68, subcooling: 2K)		
evaporating temperature	[°C / °F]	-20 / -4	-15 / 5	-10 / 14
cooling capacity	[W]	1748	2124	2523
COP	[W/W]	1,24	1,33	1,41
cooling capacity	[Btu/h]	5970	7255	8617
power consumption	[W]	1415	1597	1792
current consumption	[A]	8,3	9	9,8

ambient temperature	[°C / °F]	43 / 109 (suction gas temperature [°C / °F]: 20 / 68, subcooling: 2K)
evaporating temperature	[°C / °F]	-20 / -4
cooling capacity	[W]	1577
COP	[W/W]	1,1
cooling capacity	[Btu/h]	5385
power consumption	[W]	1438
current consumption	[A]	8,4

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## Cooling performance - Conf. 3

Power supply	220-240V / 50Hz 1~	Voltage range	198 - 254V / 50Hz
Refr. charge - tech. limit	2000g / 70,5oz		
Starter	HST / capillary tube or expansion valve		
Motor configuration	CSCR		
Refrigerant	R449A		
Application	MBP		
Approvals	Eco design (EU) 2015/1095, CE		

ambient temperature	[°C / °F]	25 / 77 (suction gas temperature [°C / °F]: 20 / 68, subcooling: 2K)						
evaporating temperature	[°C / °F]	-15 / 5	-10 / 14	-6,7 / 20	-5 / 23	0 / 32	5 / 41	10 / 50
cooling capacity	[W]	2513	3016	3375	3567	4159	4786	5442
COP	[W/W]	1,78	1,92	2	2,04	2,13	2,19	2,21
cooling capacity	[Btu/h]	8583	10301	11527	12182	14203	16346	18584
power consumption	[W]	1408	1568	1684	1747	1952	2188	2459
current consumption	[A]	8,3	8,9	9,3	9,6	10,4	11,3	12,3

ambient temperature	[°C / °F]	32 / 90 (suction gas temperature [°C / °F]: 20 / 68, subcooling: 2K)						
evaporating temperature	[°C / °F]	-15 / 5	-10 / 14	-6,7 / 20	-5 / 23	0 / 32		
cooling capacity	[W]	2267	2725	3050	3223	3757		
COP	[W/W]	1,56	1,67	1,74	1,77	1,84		
cooling capacity	[Btu/h]	7741	9306	10416	11006	12831		
power consumption	[W]	1457	1631	1756	1825	2043		
current consumption	[A]	8,5	9,1	9,6	9,9	10,7		

ambient temperature	[°C / °F]	38 / 100 (suction gas temperature [°C / °F]: 20 / 68, subcooling: 2K)						
evaporating temperature	[°C / °F]	-15 / 5	-10 / 14					
cooling capacity	[W]	2051	2471					
COP	[W/W]	1,37	1,46					
cooling capacity	[Btu/h]	7004	8439					
power consumption	[W]	1498	1687					
current consumption	[A]	8,6	9,4					

ambient temperature	[°C / °F]	43 / 109 (suction gas temperature [°C / °F]: 20 / 68, subcooling: 2K)						
evaporating temperature	[°C / °F]							
cooling capacity	[W]							
COP	[W/W]							
cooling capacity	[Btu/h]							
power consumption	[W]							
current consumption	[A]							