

GS Series

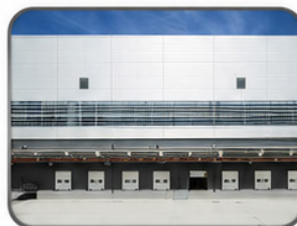
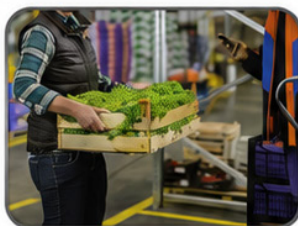
Air Cooler for Glycol Coolant





GS

Series Air Cooler for Glycol Coolant





GS Series Air Cooler for Glycol Coolant

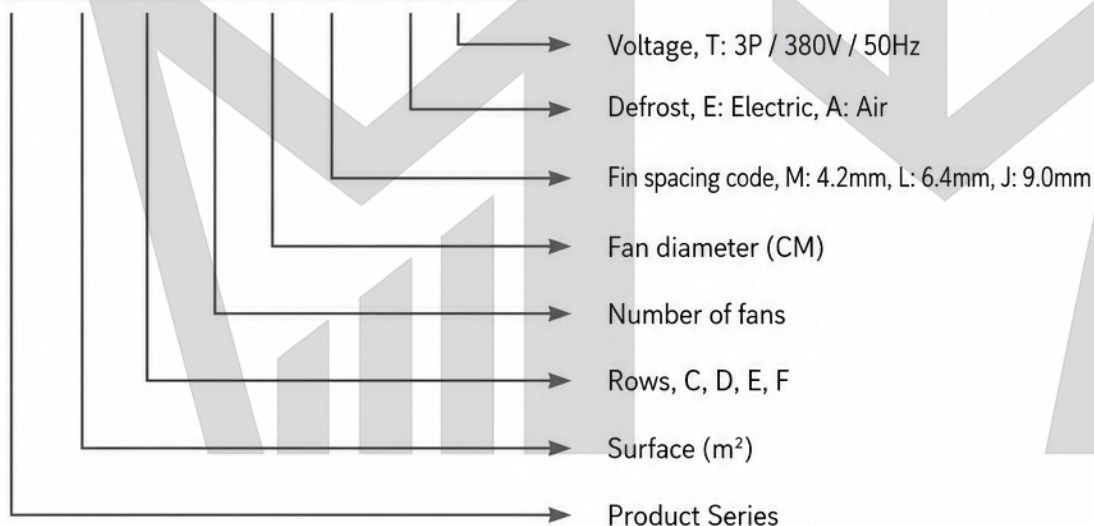
1. Product Description:

The GS series unit cooler is mainly used for cooling equipment in cold storage with glycol coolant. The low temperature glycol coolant circulate in the heat exchanger tube of the air cooler to absorb the external heat so as to reduce the storage temperature. The GS series air cooler can be used in cold storage at about 10°C, 0°C and -18°C respectively.

- 1 Casing:** Adopt high-quality steel plate with powder coating RAL9003. Hinged structure is adopted for both side plates and external drip tray, which is convenient and quick to operate;
- 2 Heat Exchanger Coil:** Copper tubing $\phi 15$, spacing 50×50; Corrugated aluminium fins, fin spacing 4.2mm and 6.4mm and 9.0mm;
- 3 Fans:** Axial fans with High wind circle, working ambient temperature -40°C to 60°C, High air duct design with Integral stretching, good ventilation effect, further airflow, lower noise, Fans individually connected to junction box; Fan blade $\phi 400$, $\phi 500$, $\phi 630$, standard 4-pole motor.
- 4 Electric Defrosting:** The stainless electric heating pipe Installed in the middle of coil and inner water plate, permits quick and efficient defrost of the coil. Independent electric heating pipes junction box;

2. Model Description:

GS 36 C / 1 40 M - E T





3. Performance data sheet:

3.1 Fins spacing 4.2mm:

Model	Glycol 25% T1=-3°C, T2=2°C Tr=10°C, RH85%		Glycol 34% T1=-10°C, T2=-7°C Tr=0°C, RH85%		Surface	Volume	Airflow	Airthrow	Weight
	Capacity	Liquid flow	Capacity	Liquid flow	m²	dm³	m³/h	m	kg
	kW	m³/h	kW	m³/h					
Fan 400mm									
GS36C/140M-ET	7.2	1.3	3.9	1.2	35.9	5.9	2700	7	53
GS54E/140M-ET	10.2	1.9	5.4	1.7	53.9	8.8	2500	6	67
GS72C/240M-ET	14.4	2.7	7.9	2.5	71.9	11.0	5400	11	88
GS108E/240M-ET	20.5	3.8	10.8	3.4	107.8	16.4	5000	10	106
GS110C/340M-ET	22.1	4.1	12.2	3.8	110.6	16.4	8100	13	134
GS166E/340M-ET	31.5	5.8	16.6	5.1	165.9	24.6	7500	12	166
GS144C/440M-ET	28.8	5.3	15.8	4.9	143.8	21.1	10800	15	172
GS216E/440M-ET	40.9	7.6	21.6	6.7	215.7	31.7	10000	14	210
GS180C/540M-ET	35.9	6.6	19.8	6.2	179.7	26.2	13500	16	214
GS270E/540M-ET	51.2	9.5	27.0	8.4	269.7	39.5	12500	15	260
Fan 500mm									
GS58C/150M-ET	12.2	2.3	6.7	2.1	58.0	9.3	6000	18	79
GS73D/150M-ET	14.5	2.7	7.6	2.4	72.6	11.4	5800	18	85
GS87E/150M-ET	16.1	3.0	8.3	2.6	87.1	13.7	5500	17	91
GS116C/250M-ET	24.4	4.5	13.3	4.2	116.1	17.3	12000	21	145
GS145D/250M-ET	29.0	5.4	15.2	4.7	145.2	21.7	11600	21	157
GS174E/250M-ET	32.2	6.0	16.5	5.2	174.2	26.0	11000	20	168
GS174C/350M-ET	36.6	6.8	20.0	6.2	174.2	25.6	18000	23	202
GS218D/350M-ET	43.5	8.0	22.9	7.1	217.7	32.0	17400	23	200
GS261E/350M-ET	48.3	8.9	24.8	7.7	261.3	38.3	16500	22	237
GS232C/450M-ET	48.8	9.0	26.7	8.3	232.2	33.8	24000	25	263
GS290D/450M-ET	58.1	10.7	30.5	9.5	290.3	42.2	23200	25	286
GS348E/450M-ET	64.5	11.9	33.1	10.3	348.4	50.6	22000	24	309
Fan 630mm									
GS100C/163M-ET	20.9	3.9	11.4	3.6	99.5	15.3	10200	32	123
GS124D/163M-ET	24.9	4.6	13.1	4.1	124.4	19.0	9900	32	135
GS149E/163M-ET	27.6	5.1	14.2	4.4	149.3	22.9	9600	31	145
GS199C/263M-ET	41.8	7.7	22.9	7.1	199.1	29.3	20400	35	213
GS249D/263M-ET	49.8	9.2	26.1	8.1	248.8	36.6	19800	35	233
GS299E/263M-ET	55.2	10.2	28.4	8.8	298.6	44.0	19200	34	253
GS299C/363M-ET	62.7	11.6	34.3	10.7	298.6	43.4	30600	37	303
GS373D/363M-ET	74.6	13.8	39.2	12.2	373.2	54.2	29700	37	332
GS448E/363M-ET	82.9	15.3	42.6	13.2	447.9	65.0	28800	36	362

T1 is inlet Temp. of glycol water, T2 is outlet Temp., and Tr is storage room Temp.



3.2 Fins spacing 6.4mm:

Model	Glycol 34% T1=-10°C, T2=-7°C Tr=0°C, RH85%		Glycol 50% T1=-28°C, T2=-25°C Tr=-18°C, RH95%		Surface	Volume	Airflow	Airthrow	Weight
	Capacity	Liquid flow	Capacity	Liquid flow	m²	dm³	m³/h	m	kg
	kW	m³/h	kW	m³/h					
Fan 400mm									
GS24C/140L-ET	3.9	1.2	3.1	1.1	24.1	5.9	2900	7	49
GS36E/140L-ET	5.2	1.6	4.2	1.5	36.1	8.8	2700	6	60
GS48C/240L-ET	7.7	2.4	6.3	2.2	48.2	11.0	5800	12	78
GS72E/240L-ET	10.5	3.3	8.3	2.9	72.3	16.4	5400	11	97
GS74C/340L-ET	11.9	3.7	9.6	3.3	74.1	16.4	8700	13	108
GS111E/340L-ET	16.1	5.0	12.8	4.4	111.1	24.6	8100	12	136
GS96C/440L-ET	15.4	4.8	12.5	4.3	96.2	21.1	11600	15	140
GS145E/440L-ET	21.0	6.5	16.6	5.7	144.5	31.7	10800	14	171
GS120C/540L-ET	19.3	6.0	15.7	5.4	120.4	26.2	14500	16	169
GS181E/540L-ET	26.2	8.2	20.8	7.2	180.6	39.5	13500	15	207
Fan 500mm									
GS49D/150L-ET	8.3	2.6	6.3	2.2	48.6	11.4	6000	17	79
GS58E/150L-ET	9.3	2.9	7.0	2.4	58.4	13.7	5700	17	84
GS78F/150L-ET	10.9	3.4	7.8	2.7	77.8	18.2	5400	16	102
GS97D/250L-ET	16.5	5.1	12.6	4.4	97.3	21.7	12000	21	145
GS117E/250L-ET	18.7	5.8	14.0	4.8	116.7	26.0	11400	21	154
GS156F/250L-ET	21.8	6.8	15.6	5.4	155.6	34.6	10800	20	186
GS146D/350L-ET	24.8	7.7	19.0	6.5	145.9	31.9	18000	23	200
GS175E/350L-ET	28.0	8.7	21.0	7.2	175.1	38.3	17100	23	215
GS234F/350L-ET	32.7	10.1	23.4	8.0	233.5	51.0	16200	22	259
GS195D/450L-ET	33.1	10.3	25.3	8.7	194.5	42.2	24000	25	260
GS234E/450L-ET	37.4	11.6	28.0	9.6	233.5	50.6	22800	25	289
GS311F/450L-ET	43.6	13.5	31.1	10.7	311.3	67.5	21600	24	336
Fan 630mm									
GS83D/163L-ET	14.2	4.4	10.8	3.7	83.4	19.0	10200	32	124
GS100E/163L-ET	16.0	5.0	12.0	4.2	100.1	22.9	9900	32	132
GS133F/163L-ET	18.7	5.8	13.3	4.6	133.4	30.5	9600	31	157
GS167D/263L-ET	28.4	8.8	21.7	7.5	166.8	36.6	20400	35	212
GS200E/263L-ET	32.0	10.0	24.0	8.3	200.1	44.0	19800	35	227
GS267F/263L-ET	37.4	11.6	26.7	9.2	266.8	58.6	19200	34	273
GS250D/363L-ET	42.5	13.2	32.5	11.2	250.1	54.2	30600	37	300
GS300E/363L-ET	48.0	14.9	36.0	12.4	300.2	65.0	29700	37	323
GS400F/363L-ET	56.0	17.4	40.0	13.7	400.2	86.7	28800	36	391

T1 is inlet Temp. of glycol water, T2 is outlet Temp., and Tr is storage room Temp.

**3.3 Fins spacing 9.0mm:**

Model	Glycol 34% T1=-10°C, T2=-7°C Tr=0°C, RH85%		Glycol 50% T1=-28°C, T2=-25°C Tr=-18°C, RH95%		Surface	Volume	Airflow	Airthrow	Weight
	Capacity	Liquid flow	Capacity	Liquid flow	m²	dm³	m³/h	m	kg
	kW	m³/h	kW	m³/h					
Fan 400mm									
GS18C/140J-ET	3.3	1.1	2.8	1.0	17.5	5.9	3000	7	49
GS26E/140J-ET	4.4	1.4	3.9	1.4	26.3	8.8	2800	6	60
GS35C/240J-ET	6.7	2.1	5.6	1.9	35.1	11.0	6000	12	78
GS53E/240J-ET	8.9	2.8	7.9	2.7	52.6	16.4	5600	11	97
GS54C/340J-ET	10.3	3.2	8.6	3.0	54.0	16.4	9000	13	108
GS81E/340J-ET	13.8	4.3	12.2	4.2	80.9	24.6	8400	12	136
GS70C/440J-ET	13.3	4.1	11.2	3.8	70.1	21.1	12000	15	140
GS105E/440J-ET	17.8	5.5	15.7	5.4	105.2	31.7	11200	14	171
GS88C/540J-ET	16.7	5.2	14.0	4.8	87.7	26.2	15000	16	169
GS132E/540J-ET	22.3	6.9	19.7	6.8	131.5	39.5	14000	15	207
Fan 500mm									
GS35D/150J-ET	6.3	2.0	4.9	1.7	35.4	11.4	6200	17	79
GS43E/150J-ET	7.2	2.3	5.3	1.8	42.5	13.7	5900	17	84
GS57F/150J-ET	8.5	2.7	6.3	2.2	56.6	18.2	5600	16	102
GS71D/250J-ET	12.7	4.0	10.0	3.5	70.8	21.7	12400	21	145
GS85E/250J-ET	14.5	4.5	11.1	3.8	85.0	26.0	11800	21	154
GS113F/250J-ET	17.0	5.3	12.5	4.3	113.3	34.6	11200	20	186
GS106D/350J-ET	19.1	5.9	14.9	5.1	106.2	31.9	18600	23	200
GS128E/350J-ET	21.7	6.8	16.6	5.7	127.5	38.3	17700	23	215
GS170F/350J-ET	25.5	7.9	18.7	6.4	169.9	51.0	16800	22	259
GS142D/450J-ET	26.2	8.1	19.9	6.8	141.6	42.2	24800	25	260
GS170E/450J-ET	28.9	9.0	22.1	7.6	169.9	50.6	23600	25	289
GS227F/450J-ET	34.0	10.5	24.9	8.6	226.6	67.5	22400	24	336
Fan 630mm									
GS61D/163J-ET	10.9	3.4	8.5	2.9	60.7	19.0	10500	32	124
GS73E/163J-ET	12.4	3.9	9.5	3.3	72.8	22.9	10200	32	132
GS97F/163J-ET	14.6	4.5	10.7	3.7	97.1	30.5	9900	31	157
GS121D/263J-ET	21.8	6.8	17.0	5.8	121.4	36.6	21000	35	212
GS146E/263J-ET	24.8	7.7	18.9	6.5	145.7	44.0	20400	35	227
GS194F/263J-ET	29.1	9.0	21.4	7.4	194.2	58.6	19800	34	273
GS182D/363J-ET	32.8	10.2	25.5	8.8	182.1	54.2	31500	37	300
GS219E/363J-ET	37.1	11.5	28.4	9.8	218.5	65.0	30600	37	323
GS291F/363J-ET	43.7	13.6	32.0	11.0	291.3	86.7	29700	36	391

T1 is inlet Temp. of glycol water, T2 is outlet Temp., and Tr is storage room Temp.



4. Electrical parameter table:

Model	Fan Motor				Electric Defrost		
	Voltage (V)	Power (W)	Current (A)	Rev. (r/min)	Coil (kW)	Tray (kW)	Total (kW)
GS**C/140**	380-3	240	0.52	1330	3×0.65	1×0.7	2.7
GS**E/140**	380-3	240	0.52	1330	5×0.65	2×0.7	4.7
GS**C/240**	380-3	480	1.04	1330	3×1.17	1×1.22	4.7
GS**E/240**	380-3	480	1.04	1330	5×1.17	2×1.22	8.3
GS**C/340**	380-3	720	1.56	1330	3×1.73	1×1.78	7.0
GS**E/340**	380-3	720	1.56	1330	5×1.73	2×1.78	12.2
GS**C/440**	380-3	960	2.08	1330	3×2.2	1×2.26	8.9
GS**E/440**	380-3	960	2.08	1330	5×2.2	2×2.26	15.5
GS**C/540**	380-3	1200	2.6	1330	3×2.73	1×2.8	11.0
GS**E/540**	380-3	1200	2.6	1330	5×2.73	2×2.8	19.3
GS**C/150**	380-3	548	1.1	1380	4×0.85	2×0.9	5.2
GS**D/150**	380-3	548	1.1	1380	5×0.85	2×0.9	6.1
GS**E/150**	380-3	548	1.1	1380	6×0.85	2×0.9	6.9
GS**F/150**	380-3	548	1.1	1380	9×0.85	2×0.9	9.5
GS**C/250**	380-3	1096	2.2	1380	4×1.57	2×1.62	9.5
GS**D/250**	380-3	1096	2.2	1380	5×1.57	2×1.62	11.1
GS**E/250**	380-3	1096	2.2	1380	6×1.57	2×1.62	12.7
GS**F/250**	380-3	1096	2.2	1380	9×1.57	2×1.62	17.4
GS**C/350**	380-3	1644	3.3	1380	4×2.3	2×2.34	13.9
GS**D/350**	380-3	1644	3.3	1380	5×2.3	2×2.34	16.2
GS**E/350**	380-3	1644	3.3	1380	6×2.3	2×2.34	18.5
GS**F/350**	380-3	1644	3.3	1380	9×2.3	2×2.34	25.4
GS**C/450**	380-3	2192	4.4	1380	4×3.0	2×3.1	18.2
GS**D/450**	380-3	2192	4.4	1380	5×3.0	2×3.1	21.2
GS**E/450**	380-3	2192	4.4	1380	6×3.0	2×3.1	24.2
GS**F/450**	380-3	2192	4.4	1380	9×3.0	2×3.1	33.2
GS**C/163**	380-3	937	1.75	1378	5×1.2	2×1.3	8.6
GS**D/163**	380-3	937	1.75	1378	7×1.2	2×1.3	11.0
GS**E/163**	380-3	937	1.75	1378	8×1.2	2×1.3	12.2
GS**F/163**	380-3	937	1.75	1378	12×1.2	2×1.3	17.0



Model	Fan Motor				Electric Defrost		
	Voltage (V)	Power (W)	Current (A)	Rev. (r/min)	Coil (kW)	Tray (kW)	Total (kW)
GS**C/263**	380-3	1874	3.5	1378	5×2.1	2×2.2	14.9
GS**D/263**	380-3	1874	3.5	1378	7×2.1	2×2.2	19.1
GS**E/263**	380-3	1874	3.5	1378	8×2.1	2×2.2	21.2
GS**F/263**	380-3	1874	3.5	1378	12×2.1	2×2.2	29.6
GS**C/363**	380-3	2811	5.25	1378	5×3.1	2×3.2	21.9
GS**D/363**	380-3	2811	5.25	1378	7×3.1	2×3.2	28.1
GS**E/363**	380-3	2811	5.25	1378	8×3.1	2×3.2	31.2
GS**F/363**	380-3	2811	5.25	1378	12×3.1	2×3.2	43.6

5. Outline&installation dimension:

Model	Outline (mm)			Install (mm)						Connect Pipe		
	L	W	H	A	B	B1	B2	B3	B4	Inlet	Outlet	Drain
GS**C/140**	1050	540	730	430	680	/	/	/	/	φ28	φ28	G1"
GS**E/140**	1050	640	730	530	680	/	/	/	/	φ28	φ28	G1"
GS**C/240**	1700	540	730	430	1330	/	/	/	/	φ35	φ35	G1"
GS**E/240**	1700	640	730	530	1330	/	/	/	/	φ35	φ35	G1"
GS**C/340**	2400	540	730	430	2030	/	/	/	/	φ35	φ35	2"G1"
GS**E/340**	2400	640	730	530	2030	/	/	/	/	φ42	φ42	2"G1"
GS**C/440**	3000	540	730	430	2630	/	1300	/	/	φ42	φ42	2"G1"
GS**E/440**	3000	640	730	530	2630	/	1300	/	/	φ50	φ50	2"G1"
GS**C/540**	3650	540	730	430	3280	/	1300	1950	/	φ50	φ50	3"G1"
GS**E/540**	3650	640	730	530	3280	/	1300	1950	/	φ50	φ50	3"G1"
GS**C/150** GS**D/150** GS**E/150**	1300	700	830	530	930	/	/	/	/	φ35	φ35	G1"
GS**F/150**	1300	850	830	680	930	/	/	/	/	φ35	φ35	G1"
GS**C/250** GS**D/250**	2200	700	830	530	1830	900	/	/	/	φ42	φ42	G1"
GS**E/250**	2200	700	830	530	1830	900	/	/	/	φ50	φ50	G1"
GS**F/250**	2200	850	830	680	1830	900	/	/	/	φ50	φ50	G1"
GS**C/350** GS**D/350** GS**E/350**	3100	700	830	530	2730	900	1800	/	/	φ50	φ50	2"G1"
GS**F/350**	3100	850	830	680	2730	900	1800	/	/	φ50	φ50	2"G1"
GS**C/450** GS**D/450**	4000	700	830	530	3630	900	1800	2700	/	φ50	φ50	3"G1"
GS**E/450**	4000	700	830	530	3630	900	1800	2700	/	φ66	φ66	3"G1"
GS**F/450**	4000	850	830	680	3630	900	1800	2700	/	φ66	φ66	3"G1"



Model	Outline (mm)			Install (mm)						Connect Pipe		
	L	W	H	A	B	B1	B2	B3	B4	Inlet	Outlet	Drain
GS**C/163** GS**D/163** GS**E/163**	1650	810	1030	620	1230	/	/	/	/	φ42	φ42	G1"
GS**F/163**	1650	910	1030	720	1230	/	/	/	/	φ42	φ42	G1"
GS**C/263** GS**D/263** GS**E/263**	2850	810	1030	620	2430	1200	/	/	/	φ50	φ50	2*G1"
GS**F/263**	2850	910	1030	720	2430	1200	/	/	/	φ50	φ50	2*G1"
GS**C/363** GS**D/363** GS**E/363**	4050	810	1030	620	3630	1200	1200	/	/	φ66	φ66	3*G1"
GS**F/363**	4050	910	1030	720	3630	1200	1200	/	/	φ66	φ66	3*G1"

