



Flexible chiller HYFRA GCP-S

Technical Data Sheet 400V/50Hz

GCP-S is a chiller with an integrated tank, designed for reliable temperature control of your application.

+ Your benefits at a glance

Future-proof thanks to low-GWP refrigerant R513A

Meets upcoming EU^{a)} and US environmental regulations – already compliant today.

High energy efficiency

Complies with EU efficiency directives^{b)} → low operating costs over the entire life cycle.

Compact & performance-optimized

Space-saving design with high cooling capacity – optimized for industrial installation areas.

Modular platform and common component concept

High flexibility in configuration and fast spare-parts availability for service cases.

Logistics & safety

Air freight possible without hazardous goods declaration up to 12 kg. Easy installation without increased safety requirements.



Technical specifications HYFRA GCP-S

- ✓ **Power range:**
8 - 200 kW
- ✓ **Application:**
Water or water-glycol mixture
- ✓ **Footprint:**
8 - 28 kW: 737 x 737 mm
30 - 40 kW: 1,315 x 895 mm
50 - 80 kW: 1,315 x 1,105 mm
100 kW: 1,595 x 1,105 mm
130 - 170 kW: 2,858 x 1,105 mm
200 kW: 3,140 x 1,105 mm
Cooling capacities > 200 kW available on request
- ✓ **Optimized:**
A wide range of configuration and equipment options.
- ✓ **Utilisation:**
We operate in over 20 market segments, including machine tools, lasers, filtration, recycling, additive manufacturing and process cooling.



Technical data HYFRA GCP-S

^{a)} Voltage difference +/- 10 %; other voltage versions on request

^{b)} Net cooling capacity without considering the pump power loss at the design point (coolant outlet temperature 15 / 20 °C; ambient temperature 32 °C / 40 °C / 50 °C)

^{c)} Standard version: Ambient temperature range +5 °C to +45 °C, indoor installation

^{d)} Calculated maximum power/current consumption of all components (50 Hz; standard pump)

^{e)} Standard version: Medium temperature >15 °C

^{f)} Available pump pressure at nominal volume flow; other pumps in the standard portfolio

^{g)} Seasonal Energy Performance Ratio (SEPR)

HYFRA GCP-S model no. (kW)		8	12	15	21	28
Performance data		400 V / 50 Hz ^{a)}				
Ambient temperature °C	Coolant outlet temperature in °C	Cooling capacity ^{b)}				
32 °C	15 °C	8	11	14	19	26
	20 °C	9	13	16	22	30
40 °C	15 °C	7	9	12	17	23
	20 °C	8	11	15	20	26
50 °C	15 °C	6	8	11	14	18
	20 °C	7	10	13	17	21
Technical data						
Refrigerant		R513A				
Ambient temperature range ^{c)}	°C	-20 °C to +55 °C				
Sound pressure level in 5 m	dB(A)	66			67	
Power consumption max. ^{d)}	kW	4	6	8	11	16
Current consumption max. ^{d)}	A	9	12	14	20	29
Maximum back-up fuse	A	35				
Cooling air volume flow	m³/h	6,500			8,400	
Coolant outlet temperature range ^{e)}	°C	- 5 °C to + 30 °C				
Free pump pressure ^{f)}	bar	3 bar / 5 bar				
Coolant flow (nominal volume flow)	m³/h	1.7	2.1	2.6	3.5	4.7
Tank volume	l	120 l				
Coolant connections	inch	1" IG			1 1/4" IG	
Dimensions and weight						
Length	mm	737				
Width	mm	737				
Height	mm	1,685				
Empty weight	kg	240	245	250	280	285
SEPR ^{g)} 2016/2281		5.49	5.76	5.42	5.25	5.13



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^{d)} Calculated maximum power/current consumption of all components (50 Hz; standard pump)

^{e)} Standard version: Medium temperature >15 °C

^{f)} Available pump pressure at nominal volume flow; other pumps in the standard portfolio

^{g)} Seasonal Energy Performance Ratio (SEPR)

HYFRA GCP-S model no. (kW)		30	40	50	80	100
Performance data		400 V / 50 Hz ^{a)}				
Ambient temperature °C	Coolant outlet temperature in °C	Cooling capacity ^{b)}				
32 °C	15 °C	29	35	44	64	79
	20 °C	34	39	51	75	90
40 °C	15 °C	27	31	39	58	69
	20 °C	31	35	46	67	79
50 °C	15 °C	23	26	33	49	58
	20 °C	27	30	39	56	68
Technical data						
Refrigerant		R513A				
Ambient temperature range ^{c)}	°C	-20 °C to +55 °C				
Sound pressure level in 5 m	dB(A)	66			67	
Power consumption max. ^{d)}	kW	17	24	26	44	51
Current consumption max. ^{d)}	A	30	42	47	80	95
Maximum back-up fuse	A	50		63	100	125
Cooling air volume flow	m³/h	11,300		12,900	24,000	
Coolant outlet temperature range ^{e)}	°C	- 5 °C to + 30 °C				
Free pump pressure ^{f)}	bar	3 bar / 5 bar				
Coolant flow (nominal volume flow)	m³/h	5.2	6.1	7.8	12.5	15.5
Tank volume	l	200 l			300 l	
Coolant connections	inch	1 1/2" IG			2" IG	
Dimensions and weight						
Length	mm	1,315			1,315	
Width	mm	895			1,105	
Height	mm	2,037				
Empty weight	kg	451	461	620	650	780
SEPR ^{g)} 2016/2281		5.55	5.06	5.49	5.06	5.45



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^{c)} Standard version: Ambient temperature range +5 °C to +45 °C, indoor installation

^{d)} Calculated maximum power/current consumption of all components (50 Hz; standard pump)

^{e)} Standard version: Medium temperature >15 °C

^{f)} Available pump pressure at nominal volume flow; other pumps in the standard portfolio

^{g)} Seasonal Energy Performance Ratio (SEPR)

HYFRA GCP-S model no. (kW)		130	150	170	200
Performance data		400 V / 50 Hz ^{a)}			
Ambient temperature °C	Coolant outlet temperature in °C	Cooling capacity ^{b)}			
32 °C	15 °C	116	132	144	158
	20 °C	136	155	165	180
40 °C	15 °C	104	119	128	139
	20 °C	122	138	147	159
50 °C	15 °C	90	101	108	117
	20 °C	105	117	124	136
Technical data					
Refrigerant		R513A			
Ambient temperature range ^{c)}	°C	-20 °C to +55 °C			
Sound pressure level in 5 m	dB(A)	67			
Power consumption max. ^{d)}	kW	66	84	91	99
Current consumption max. ^{d)}	A	115	145	161	177
Maximum back-up fuse	A	160		200	250
Cooling air volume flow	m³/h	48,000			
Coolant outlet temperature range ^{e)}	°C	- 5 °C to + 30 °C			
Free pump pressure ^{f)}	bar	3 bar / 5 bar			
Coolant flow (nominal volume flow)	m³/h	21	23.5	26	31
Tank volume	l	400 l		600 l	
Coolant connections	inch	2 1/2" IG		3" IG	
Dimensions and weight					
Length	mm	2,858			3,140
Width	mm	1,105			
Height	mm	2.037			
Empty weight	kg	1,300	1,350	1,400	1,600
SEPR ^{g)} 2016/2281		5.25	5.01	5.26	5.2