



Circulating chiller HYFRA GCP-A

Technical Data Sheet 400V/60Hz

GCP-A is the ideal solution for applications where existing customer-installed refrigerant tanks must be cooled reliably.

⊕ 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.

Reduced downtime

Thanks to the flushing connection integrated into the standard design, the heat exchangers can be quickly cleaned during maintenance.

Compact & performance-optimized

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

Modular platform and common component concept

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

Logistics & safety

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



Key data HYFRA GCP-A

- ✓ **Performance range:**
8 - 100 kW
- ✓ **Medium:**
Oil, Emulsion, 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
Cooling capacities above 100 kW available on request.
- ✓ **Demand-optimized:**
Numerous configurations and equipment options.
- ✓ **Application:**
Machine tools, laser systems and filtration



Technical data HYFRA GCP-A coolant emulsion / water

- ^{a)} Voltage tolerance $\pm 10\%$; other voltage versions available upon request
- ^{b)} Coolant inlet temperature into the chiller or tank temperature in the customer application
- ^{c)} Net cooling capacity without consideration of pump power losses at the design point (Coolant inlet temperature into the chiller or tank temperature in the customer application 20°C / 25°C; ambient temperature 32°C / 40°C / 50°C)
- ^{d)} Standard version: ambient temperature range +5°C to +45°C, indoor installation
- ^{e)} Calculated maximum power / current consumption of all components (60 Hz, standard pump)
- ^{f)} Standard version: medium temperature >15°C
- ^{g)} Available pump pressure at nominal flow rate; additional pumps in the standard portfolio

HYFRA GCP-A model no. (kW)		8	12	15	21	28
Performance data		460 V / 60 Hz ^{a)}				
Ambient temperature °C	Coolant temperature ^{b)} in °C	Cooling capacity ^{c)}				
	Emulsion / water					
32 °C	20 °C	9	13	17	21	29
	25 °C	11	13	20	24	31
40 °C	20 °C	8	11	15	19	26
	25 °C	10	14	18	22	29
50 °C	20 °C	7	10	13	16	22
	25 °C	9	12	16	19	24
Technical data						
Refrigerant		R513A				
Ambient temperature range ^{d)}	°C	-20°C to +55°C				
Sound pressure level in 5 m	dB(A)	66			67	
Power consumption max. ^{e)}	kW	6	7	8	12	19
Current consumption max. ^{e)}	A	9	11	13	18	28
Maximum back-up fuse	A	25	25	25	35	35
Cooling air volume flow	m³/h	6,500			8,400	
Coolant outlet temperature range ^{f)}	°C	-5°C to +30°C				
Free pump pressure ^{g)}	bar	1				
Coolant flow (nominal volume flow)	m³/h	3.8	3.8	3.9	5.6	5.6
Coolant connections	inch	1 1/4" IG			1 1/2" IG	
Dimensions and weight						
Length	mm	737				
Width	mm	737				
Height	mm	1,685				
Empty weight	kg	240	245	250	280	285



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- ^{f)} Standard version: medium temperature >15°C
- ^{g)} Available pump pressure at nominal flow rate; additional pumps in the standard portfolio

HYFRA GCP-A model no. (kW)	30	40	50	80	100
Performance data	460 V / 60 Hz ^{a)}				

Ambient temperature °C	Coolant temperature ^{b)} in °C	Cooling capacity ^{c)}				
	Emulsion / water					
32 °C	20 °C	32	36	50	70	85
	25 °C	39	42	57	78	95
40 °C	20 °C	29	32	45	63	75
	25 °C	33	37	53	72	86
50 °C	20 °C	24	27	40	52	63
	25 °C	29	32	47	59	73

Technical data						
Refrigerant		R513A				
Ambient temperature range ^{d)}	°C	-20°C to +55°C				
Sound pressure level in 5 m	dB(A)	66			67	
Power consumption max. ^{e)}	kW	20	24	26	48	59
Current consumption max. ^{e)}	A	28	36	39	71	101
Maximum back-up fuse	A	50	50	63	100	125
Cooling air volume flow	m³/h	11,300		12,900	24,000	
Coolant outlet temperature range ^{f)}	°C	-5°C to +30°C				
Free pump pressure ^{g)}	bar	1				
Coolant flow (nominal volume flow)	m³/h	11	12.5	13.5	22	22
Coolant connections	inch	2" IG			2 1/2" IG	

Dimensions and weight						
Length	mm	1,315		1,315		1,595
Width	mm	895		1,105		1,105
Height	mm	2,037		2,037		2,037
Empty weight	kg	451	461	620	650	780



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HYFRA GCP-A model no. (kW)		8	12	15	21	28
Performance data						
460 V / 60 Hz ^{a)}						
Ambient temperature °C	Coolant temperature ^{b)} in °C	Cooling capacity ^{c)}				
	Oil ISO VG5					
32 °C	20 °C	7	10	13	17	24
	25 °C	9	12	16	20	27
40 °C	20 °C	6	8	12	15	22
	25 °C	8	10	14	18	24
50 °C	20 °C	5	7	10	12	19
	25 °C	7	9	12	15	21
Technical data						
Refrigerant		R513A				
Ambient temperature range ^{d)}	°C	-20°C to +55°C				
Sound pressure level in 5 m	dB(A)	66			67	
Power consumption max. ^{e)}	kW	6	8	9	12	20
Current consumption max. ^{e)}	A	10	12	15	20	29
Maximum back-up fuse	A	25	25	25	35	35
Cooling air volume flow	m³/h	6,500			8,400	
Coolant outlet temperature range ^{f)}	°C	-5°C to +30°C				
Free pump pressure ^{g)}	bar	1				
Coolant flow (nominal volume flow)	m³/h	3.9	4.5	10.4	10.4	12.1
Coolant connections	inch	1 1/2" IG			2" IG	
Dimensions and weight						
Length	mm	737				
Width	mm	737				
Height	mm	1,685				
Empty weight	kg	240	245	250	280	285



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HYFRA GCP-A model no. (kW)		30	40	50	80	100
Performance data						
460 V / 60 Hz ^{a)}						
Ambient temperature °C	Coolant temperature ^{b)} in °C	Cooling capacity ^{c)}				
	Oil ISO VG5					
32 °C	20 °C	25	28	38	57	67
	25 °C	30	33	46	66	79
40 °C	20 °C	23	25	35	50	59
	25 °C	27	29	42	59	70
50 °C	20 °C	20	21	30	41	49
	25 °C	22	25	37	48	59
Technical data						
Refrigerant		R513A				
Ambient temperature range ^{d)}	°C	-20°C to +55°C				
Sound pressure level in 5 m	dB(A)	66			67	
Power consumption max. ^{e)}	kW	20	27	29	52	63
Current consumption max. ^{e)}	A	30	40	44	79	109
Maximum back-up fuse	A	50	50	63	100	125
Cooling air volume flow	m³/h	11,300		12,900	24,000	
Coolant outlet temperature range ^{f)}	°C	-5°C to +30°C				
Free pump pressure ^{g)}	bar	1				
Coolant flow (nominal volume flow)	m³/h	16.1	24	24	33.4	33.4
Coolant connections	Zoll	2" IG			3" IG	
Dimensions and weight						
Length	mm	1,315		1,315		1,595
Width	mm	895		1,105		1,105
Height	mm	2,037		2,037		2,037
Empty weight	kg	451	461	620	650	780



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	Oil ISO VG10					
32 °C	20 °C	7	9	13	16	23
	25 °C	8	11	15	19	26
40 °C	20 °C	6	8	11	14	21
	25 °C	8	10	14	17	24
50 °C	20 °C	5	7	10	12	18
	25 °C	6	8	12	14	20
Technical data						
Refrigerant		R513A				
Ambient temperature range ^{d)}	°C	-20°C to +55°C				
Sound pressure level in 5 m	dB(A)	66			67	
Power consumption max. ^{e)}	kW	6	8	9	12	20
Current consumption max. ^{e)}	A	10	12	15	20	30
Maximum back-up fuse	A	25	25	25	35	35
Cooling air volume flow	m³/h	6,500			8,400	
Coolant outlet temperature range ^{f)}	°C	-5°C to +30°C				
Free pump pressure ^{g)}	bar	1				
Coolant flow (nominal volume flow)	m³/h	3.5	3,9	10	10	11.5
Coolant connections	Zoll	1 1/2" IG			2" IG	
Maße und Gewicht						
Length	mm	737				
Width	mm	737				
Height	mm	1,685				
Empty weight	kg	240	245	250	280	285



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	Oil ISO VG10					
32 °C	20 °C	24	27	37	55	65
	25 °C	29	32	44	64	77
40 °C	20 °C	22	24	33	49	57
	25 °C	26	28	40	57	68
50 °C	20 °C	19	20	29	40	48
	25 °C	22	24	35	47	57

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Maximum back-up fuse	A	50	50	63	100	125
Cooling air volume flow	m³/h	11,300		12,900	24,000	
Coolant outlet temperature range ^{f)}	°C	-5°C to +30°C				
Free pump pressure ^{g)}	bar	1				
Coolant flow (nominal volume flow)	m³/h	15	22.7	23	32.4	32.5
Coolant connections	Zoll	2 1/2" IG			3" IG	

Maße und Gewicht						
Length	mm	1,315		1,315	1,595	
Width	mm	895		1,105	1,105	
Height	mm	2,037		2,037	2,037	
Empty weight	kg	451	461	620	650	780