

# Chillers 1100–2400 W

## Rack 1100 / Rack 1700

## Rack 2400

- stand-alone chiller
- fluid cooling with water, water/glycol mixtures and low-viscosity oils\*
- anodised aluminium housing cover
- basic housing made of powder-coated sheet steel
- robust laboratory and industry standard in 3 performance classes
- integration of project-specific additional components is possible on request

Further options for the Rack series chillers can be found on page 124.



\* maximum viscosity 10 cSt (10 mm<sup>2</sup>/s) @ + 40 °C

Data		Rack 1100	Rack 1700	Rack 2400	Unit
Article number		42010110003	42010170008	42010240001	
Rated voltage ± 10 %		AC 50 Hz / 60 Hz			
		230 1~			V
Cooling capacity (with pump) <sup>1</sup>	W18/L32	1.1 / 1.35	1.7 / 2.05	2.4 / 2.7	kW
	W10/L32	0.82 / 1.01	1.28 / 1.61	1.92 / 2.14	
Flow rate (pump) <sup>2</sup>		12		14	l/min
Pressure (head) (pump)		2.0		2.5	bar
Ambient temperature range		+ 15 ... + 45 / + 59 ... + 113		+ 15 ... + 40 / + 59 ... + 104	
Control range (refrigerant outlet temperature)		+ 10 ... + 35 / + 50 ... + 95			°C / °F
		factory setting + 18 / + 64			
Target value tolerance		± 2			K
Refrigerant	type	R134a		R404A	
	quantity	700	800	1000	g
Power consumption	W18/L32	0.632 / 0.782	0.724 / 0.826	1.8 / 2.12	kW
Current consumption	W18/L32	4.16 / 3.97	3.8 / 3.94	11.22 / 11.72	A
Starting current	W18/L32	14.67 / 16.3	23.58 / 26.2	33.57 / 37.3	A
Control voltage		230			V
Pre fuse T		10	10	on request	A
Volumetric airflow	external	806	1182	1000	m <sup>3</sup> /h
Tank volume		5		10	l
Connections (medium)	IG	3/8"			BSPP
Noise level according to EN ISO 3741		< 66		68	dB (A)
Weight (without packaging)		42		61	kg
System of protection (electrical equipment)		IP 20			
Colour		RAL 9005 (different colours on request); cover: aluminium			
Accessories		Article number			
Overflow valve (internal)		48000009680			
Flow monitor		48000009682			
Casters		45000009678			
20% Propyleneglycol pre-mix	20 l	45783000123			
20% Ethyleneglycol pre-mix	20 l	45783000125			

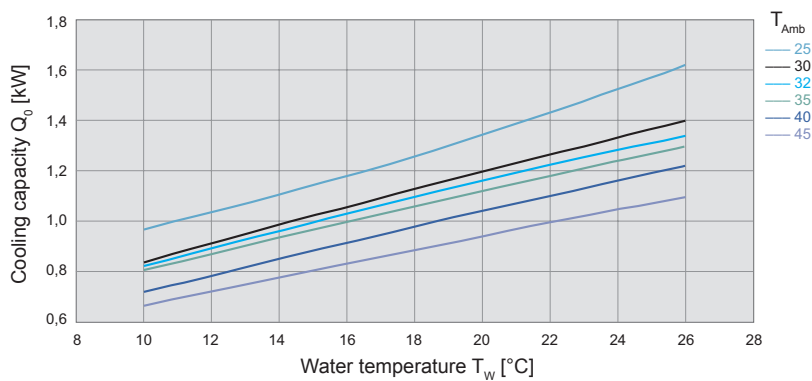
<sup>1</sup> cooling capacity incl. power loss in the pump, refrigerant outlet temperature + 18 °C, ambient temperature + 32 °C

<sup>2</sup> performance data based on 50 Hz operation

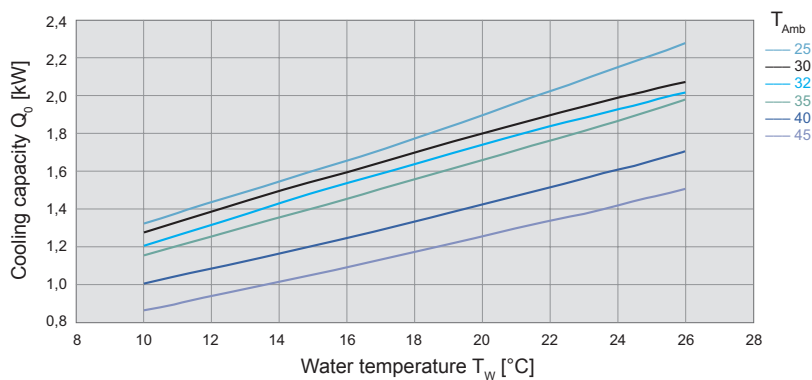
Approvals see page 99

## Cooling capacity performance curves

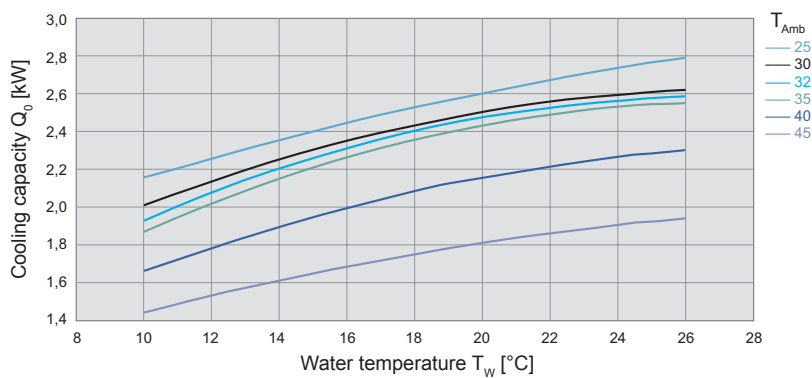
### Rack 1100 (50 Hz)<sup>1</sup>



### Rack 1700 (50 Hz)<sup>1</sup>

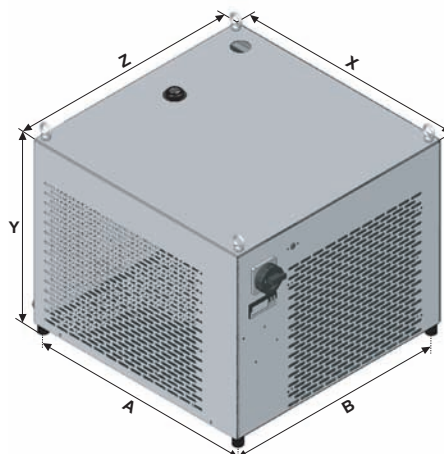


### Rack 2400 (50 Hz)<sup>1</sup>



## Dimensions

mm	Rack 1100/1700	Rack 2400
X	450	580
Y	395	500 <sup>2</sup>
Z	480	580
A	425	555
B	450	550



<sup>1</sup> the performance curves for the 60 Hz version can be obtained from your Pfannenberg advisor or at [www.pfannenberg.com](http://www.pfannenberg.com)

<sup>2</sup> without eye bolts