

Chillers 10000–18000 W

AR 10 WT / AR 12 WT / AR 15 WT / AR 18 WT



- housing concept based on standard control cabinets
- optimum integration in switchgear
- fluid cooling with water, water/glycol mixtures, emulsions and low-viscosity oils*
- steel housing with thick powder coating
- condenser with 3 mm fin spacing, highly effective protection against strongly contaminated and aggressive ambient air
- transport eye bolts on housing
- integration of project-specific additional components is possible on request
- fluid cooling with oil on request

Further options for the AR series chillers can be found on page 125.

* maximum viscosity 10 cSt (10 mm²/s) @ + 40 °C

Data		AR 10 WT	AR 12WT	AR 15WT	AR 18 WT	Unit
Article number		42051000004	42051200004	42051500005	42051800003	
Rated voltage ± 10 %		AC 50 Hz / 60 Hz				
		400 / 460 3~				V
Cooling capacity (with pump) ¹	W18/L32	10.0 / 11.1	12.0 / 15.7	15.0 / 16.6	18.0 / 21.0	kW
	W10/L32	7.7 / 8.3	9.7 / 12.5	11.8 / 12.8	16.6 / 18.8	
Flow rate (pump) ²		35	35	50	50	l/min
Pressure (head) (pump)		3				bar
Ambient temperature range		+ 15 ... + 40 / + 59 ... + 104				°C/°F
Control range (refrigerant outlet temperature)		+ 10 ... + 35 / + 50 ... + 95; factory setting + 18 / + 64				
Target value tolerance		± 2				K
Refrigerant	R404A	2600	3300	3400	9300	g
Power consumption	W18/L32	7.1 / 7.7	7.4 / 8.0	8.3 / 10.4	10.4 / 12.3	kW
Current consumption	W18/L32	13.0 / 13.5	14.57 / 15.8	16.39 / 17.91	18.8 / 19.0	A
Starting current	W18/L32	49.3 / 51.1	63.8 / 65.1	67.2 / 71.5	71.2 / 75.4	A
Control voltage		24 V AC				V
Pre fuse T		25	32	on request	on request	A
Volumetric airflow	external	5000		5800		m ³ /h
Tank volume		50				l
Connections (medium)	IG	1"				BSPP
Noise level according to EN ISO 3741		< 73				dB (A)
Weight (without packaging)		250	265	285	300	kg
System of protection (enclosure electrical components)		IP 56				
Colour		RAL 7035, different colours available on request				
Accessories		Article number				
Overflow valve (internal)		48000012881		48000012886		
Flow monitor		48000012882		48000012887		
Aluminium pre-filter (condenser)		45000012883		45000012888		
20% Propyleneglycol pre-mix	20 l	45783000123				
20% Ethyleneglycol pre-mix	20 l	45783000125				
Casters						

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

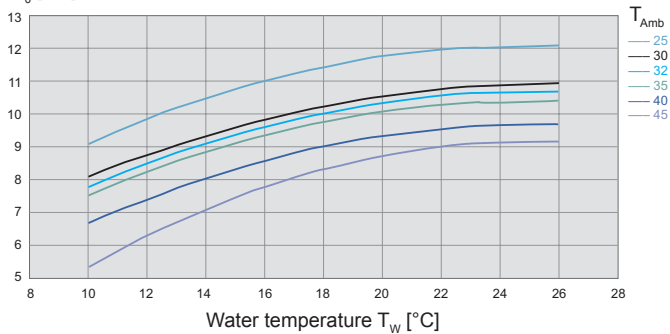
² performance data based on 50 Hz operation

Approvals see page 99

Cooling capacity performance curves

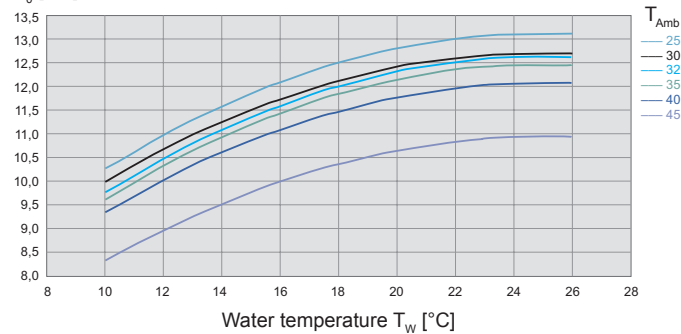
AR 10 WT (50 Hz)¹

Cooling capacity
 Q_0 [kW]



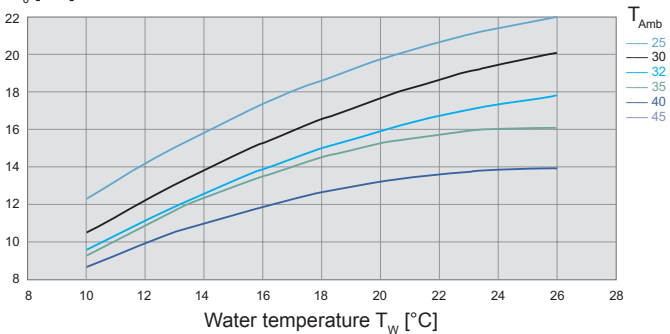
AR 12 WT (50 Hz)¹

Cooling capacity
 Q_0 [kW]



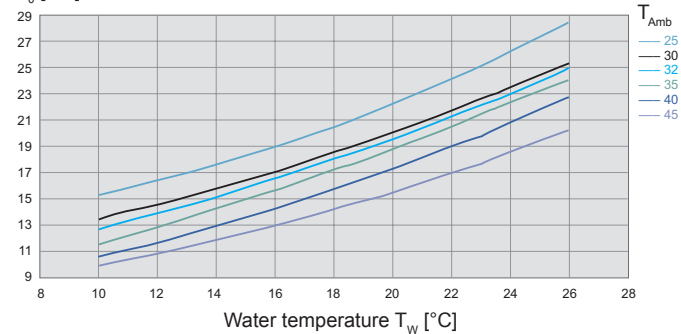
AR 15 WT (50 Hz)¹

Cooling capacity
 Q_0 [kW]



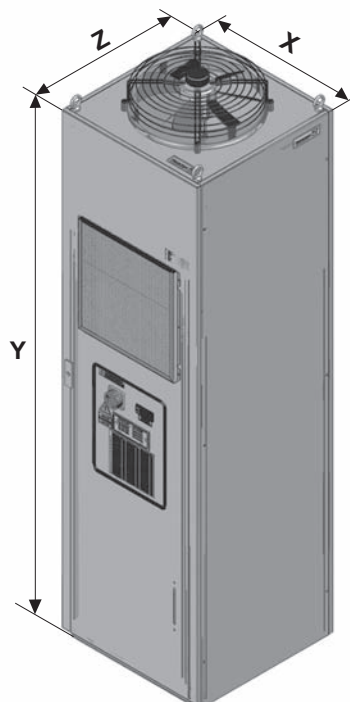
AR 18 WT (50 Hz)¹

Cooling capacity
 Q_0 [kW]



Dimensions

mm	AR 10/12 WT ²	AR 15/18 W ²
X	1000	1000
Y	2000	2000
Z	600	800



¹ the performance curves for the 60 Hz version can be obtained from your Pfannenber advisor or at www.pfannenber.com

² housing only