

# 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, oil and emulsions
- 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

Further options for the AR series chillers can be found on page 115.

| 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) <sup>1</sup>              | 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) <sup>2</sup>                          |          | 35   | 35           | 50            | 50          | l/min  |
| Pressure (head) (pump)                                 |          | 3.0  |              |               |             | bar    |
| Ambient temperature range                              |          | + 15 ... + 40 / + 59 ... + 104                             |              |               |             |        |
| Control range (refrigerant outlet temperature)         |          | + 10 ... + 35 / + 50 ... + 95; factory setting + 18 / + 64 |              |               |             | °C/°F  |
| Target value tolerance                                 |          | ± 2.0  |              |               |             | K      |
| Refrigerant  | type     | R404a  |              |               |             |        |
| 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      |
| Volumetric airflow                                     | external | 5000   |              | 5800          |             | m³/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 on request)                    |              |               |             |        |
| <b>Accessories</b>                                     |          | <b>Article number</b>                                      |              |               |             |        |
| Overflow valve (internal)                              |          | 48000012881  |              | 48000012886   |             |        |
| Flow monitor   |          | 48000012882  |              | 48000012887   |             |        |
| Aluminium pre-filter (condenser)                       |          | 45000012883  |              | 45000012888   |             |        |
| Casters  |          |  |              |               |             |        |

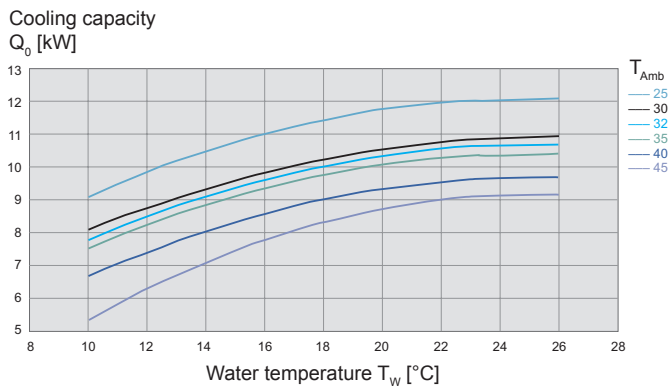
<sup>1</sup> cooling capacity incl. power loss in the pump, refrigerant outlet temperature + 18 °C, ambient temperature + 32 °C

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

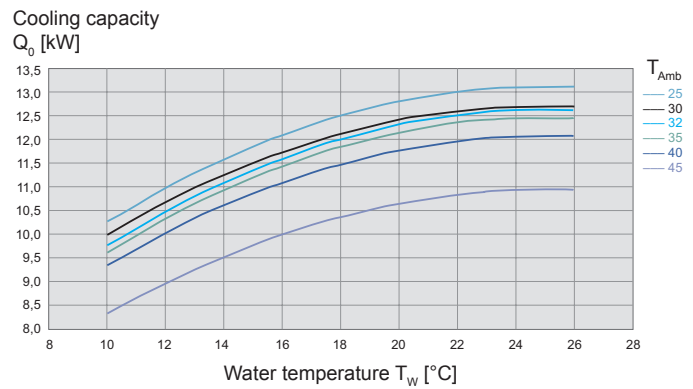
Approvals see page 91

### Cooling capacity performance curves

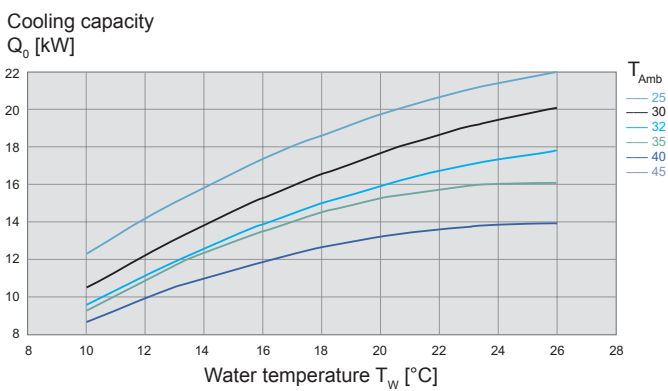
AR 10 WT (50 Hz)<sup>1</sup>



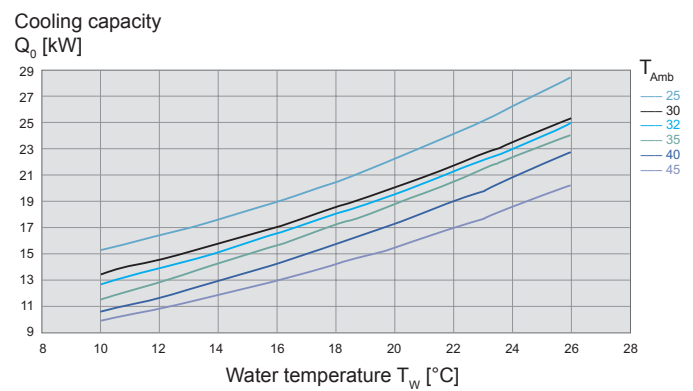
AR 12 WT (50 Hz)<sup>1</sup>



AR 15 WT (50 Hz)<sup>1</sup>

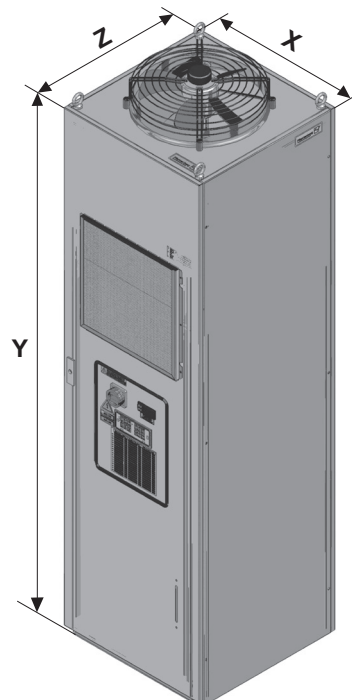


AR 18 WT (50 Hz)<sup>1</sup>



### Dimensions

| mm | AR 10/12 WT <sup>2</sup> | AR 15/18 W <sup>2</sup> |
|----|--------------------------|-------------------------|
| X  | 1000                     | 1000                    |
| Y  | 2000                     | 2000                    |
| Z  | 600                      | 800                     |



<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> housing only