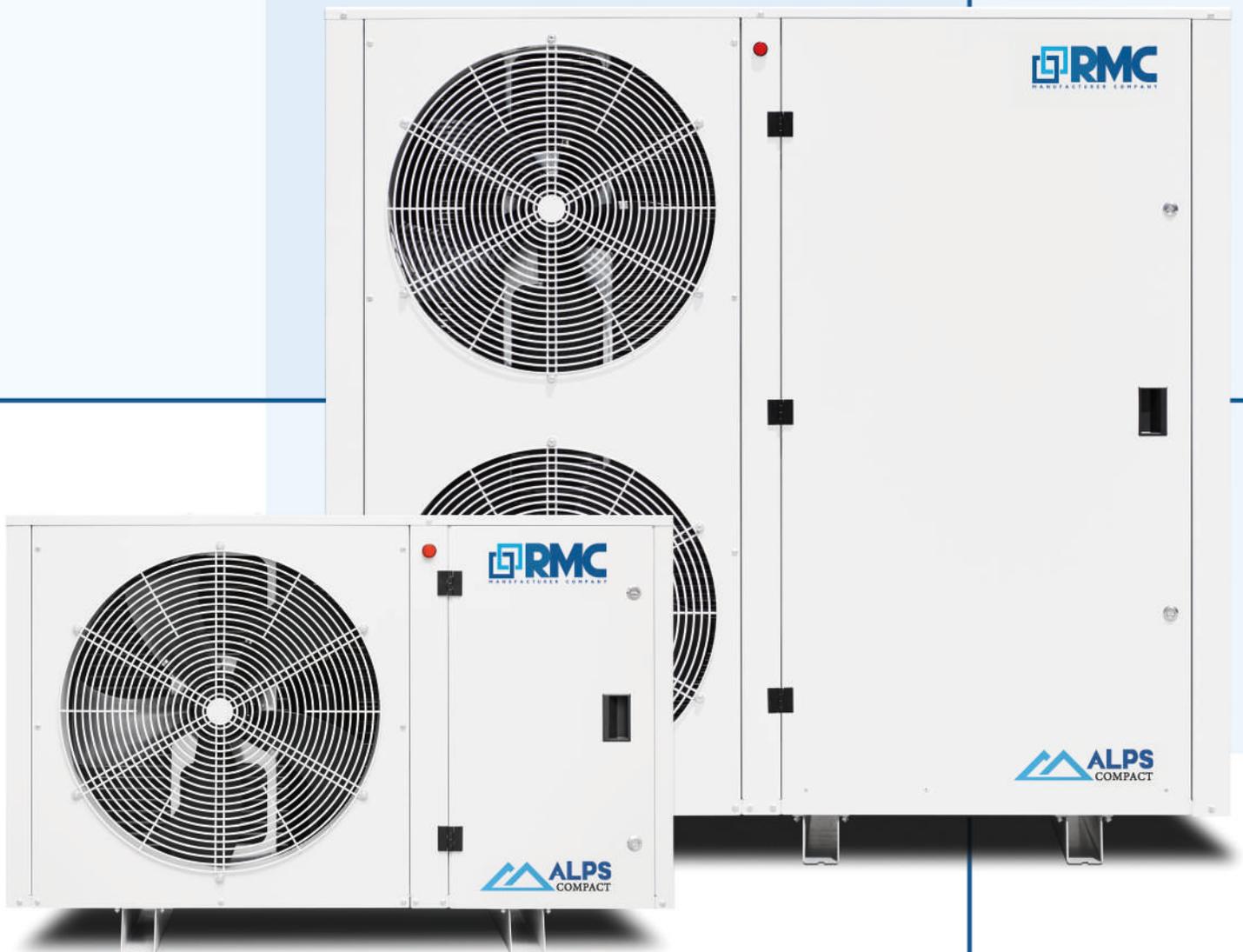




[WWW.RMC-GLOBAL.COM](http://WWW.RMC-GLOBAL.COM)

# NEW AGE

## COMPRESSOR CONDENSER UNITS





# ABOUT US

## **The RMC Manufacturer Company**

produces a large range of serial and tailored refrigeration equipment.

Our products are designed and manufactured in accordance with the European standards and meet high quality and energy efficiency requirements.

The in-house Design Bureau develops unique models of units and housings, paying special attention to reliability, ease of use and noise reduction.

All products are certified.

# RMC MANUFACTURER COMPANY:

## COUNTRIES OF DELIVERY:



**21+**  
EMPLOYEES

**1441 m<sup>2</sup>**  
PRODUCTION  
AREA

**3000+**  
EQUIPMENT  
PRODUCED

**2017**  
YEAR OF  
FOUNDATION



# ALPS UNITS

The Alps series compressor-and-condenser units are an ideal solution for simple installation and economical electricity consumption.

High-efficiency compressors with performance regulation in combination with system-optimized condensers and EC fans with speed regulation technology not only provide high energy efficiency, but also make the equipment suitable for use in conditions with increased noise level requirements.



**Comprehensive equipment**



**Support for smooth adjustment of productivity in a wide range (from 5%)**



**Ability to select the necessary system controller**



**The unit housing and the compressor compartment are designed for maximum noise protection**



**Simple commissioning owing to the Plug&Play concept**



**Convenience in maintenance owing to simplified access to system components**



**Monitoring system**





# NEW EQUIPMENT STANDARDS



## BENEFICIAL PRICE OFFER

Affordable and effective digital technology

Beneficial prices for options with inverter and piston compressors



## EFFICIENT UNDER HARSH CONDITIONS

The condenser is designed for operation with an outside air temperature of up to 45°C

Powerful, but quiet fan



## LOW NOISE LEVEL

Quiet fan units with speed control

Innovative compressor compartment soundproofing

Noise-insulating covers for spiral compressors



## ENERGY SAVING

Digital or intelligent CRIL regulation

Adjustment from 5 to 100%

Up to 30% reduction of the user's annual costs



## RELIABLE OPERATION

Long service life owing to factory settings and high-quality components supplied by the leading manufacturers



## REMOTE CONTROL AND MONITORING

Ability to connect monitoring and remote control

Various controllers enabling the integration of the unit into the general monitoring system



## **EASY INSTALLATION AND MAINTENANCE**

The fastest and easiest connection and commissioning process

Each unit is checked and adjusted at the factory

Plug&Play - start automation in minutes

Really convenient and easy access to all serviceable surfaces



## **MODERN SOLUTION**

Solution compliant with the standards of the future

Prepared for use with both the R507A refrigerant and the R448A and R449A alternative refrigerants



## **VAST POWER RANGE**

From 5 до 44 kW low-temperature line

From 5 до 17 kW average-temperature line

24 models in the most popular range



# OUR PARTNERS

**COPELAND**

**Hidria**

***Temprite***<sup>®</sup>

 **thermotin**<sup>™</sup>  
heat exchangers · Germany

**Bitzer**

**Castel**<sup>®</sup>  
Italian technology

**ZIEHL-ABEGG** 

**ebmpapst**

 **DEKA**  
controls

 **TECNAC**

**Danfoss**

# CERTIFICATES

Даний сертифікат засвідчує, що

## ТОВ «РМСІ» (м. Миколаїв)

є **Партнером** холодильного напрямку **Danfoss** в Україні

Термін дії сертифіката: до 1 березня 2022 року

**Офіційний Партнер Данфосс ТОВ**  
**2021**

Андрій Воронцов  
Головний інженер  
ТОВ «Р-Данфосс ТОВ»  
Україна, 04000, м. Київ,  
вул. Бессарабська, 15/15-Б  
Т: +380 980 920 148  
www.danfoss.ua

**Bureau Veritas Certification**

**RMC LLC**  
62, 1-ст Slobidska Str., Mykolayiv, 54055, Ukraine

Bureau Veritas Certification Holding SAS – UK Branch certifies that the Management System of the above organisation has been audited and found to be in accordance with the requirements of the management system standards detailed below.

### ISO 9001:2015

Scope of certification  
**Production of refrigeration units.**

Original cycle start date: 11 August 2020  
Expiry date of previous cycle: NA  
Certification / Recertification Audit date: 14 July 2023  
Subject to the continued satisfactory operation of the organization's Management System, this certificate expires on: 10 August 2026

Certificate No. UA231015 Version: 0 Issue date: 14 July 2023

*Olena Bryukhina*  
Signed on behalf of BVQC SAS UK Branch

Certification body address: 27 Place, 68 Prospect Street, London E1 6NG, United Kingdom  
Local office: 89 Street, 20, Zolota Polyana St, Kyiv, 01032, UKRAINE  
Further information regarding the scope and validity of this certificate, and the responsibility of the management system requirements, please call: +300 44 354 10 00

CERTIFICATION BODY TESTMETSTANDART LLC  
Ukraine, 10003, city of Zhytomyr, Victory Square, 18

### CERTIFICATE OF COMPLIANCE

Entered to the CR Register with No. UAF.P.000246-24

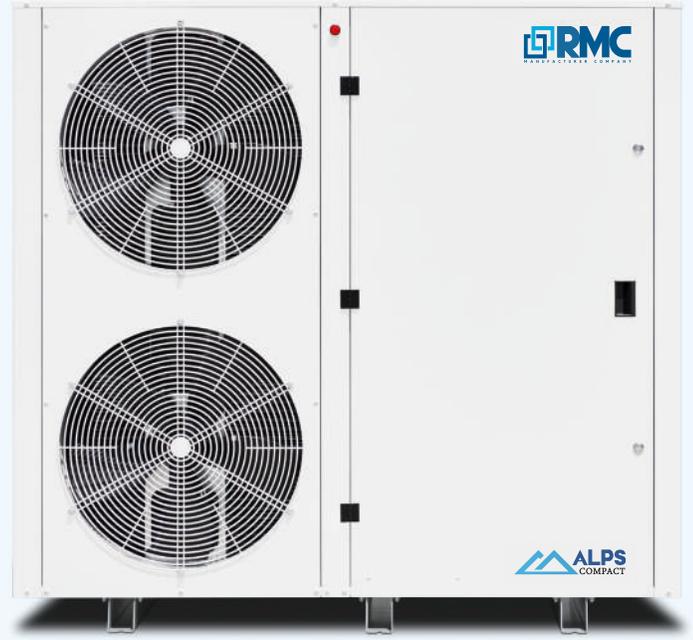
Valid from 18 March 2024 to 18 March 2025

Product: Central refrigeration units TM "RMC Manufacturer Company" in accordance with the agreement.

Meets the requirements: TU U 09.2-4177:2006-09:1019 «CENTRAL REFRIGERATION UNITS» TECHNICAL CONDITIONS (clause 3.2.1 table 1 clause 3.7, clause 3.2.3.2, 3.2.3.3, 3.2.3.4, 3.2.3.6, 3.2.3.6.1, 3.2.3.6.2, 3.2.3.6.3, 3.2.3.6.4, 3.2.3.6.5, 3.2.3.6.6, 3.2.3.6.7, 3.2.3.6.8, 3.2.3.6.9, 3.2.3.6.10, 3.2.3.6.11, 3.2.3.6.12, 3.2.3.6.13, 3.2.3.6.14, 3.2.3.6.15, 3.2.3.6.16, 3.2.3.6.17, 3.2.3.6.18, 3.2.3.6.19, 3.2.3.6.20, 3.2.3.6.21, 3.2.3.6.22, 3.2.3.6.23, 3.2.3.6.24, 3.2.3.6.25, 3.2.3.6.26, 3.2.3.6.27, 3.2.3.6.28, 3.2.3.6.29, 3.2.3.6.30, 3.2.3.6.31, 3.2.3.6.32, 3.2.3.6.33, 3.2.3.6.34, 3.2.3.6.35, 3.2.3.6.36, 3.2.3.6.37, 3.2.3.6.38, 3.2.3.6.39, 3.2.3.6.40, 3.2.3.6.41, 3.2.3.6.42, 3.2.3.6.43, 3.2.3.6.44, 3.2.3.6.45, 3.2.3.6.46, 3.2.3.6.47, 3.2.3.6.48, 3.2.3.6.49, 3.2.3.6.50, 3.2.3.6.51, 3.2.3.6.52, 3.2.3.6.53, 3.2.3.6.54, 3.2.3.6.55, 3.2.3.6.56, 3.2.3.6.57, 3.2.3.6.58, 3.2.3.6.59, 3.2.3.6.60, 3.2.3.6.61, 3.2.3.6.62, 3.2.3.6.63, 3.2.3.6.64, 3.2.3.6.65, 3.2.3.6.66, 3.2.3.6.67, 3.2.3.6.68, 3.2.3.6.69, 3.2.3.6.70, 3.2.3.6.71, 3.2.3.6.72, 3.2.3.6.73, 3.2.3.6.74, 3.2.3.6.75, 3.2.3.6.76, 3.2.3.6.77, 3.2.3.6.78, 3.2.3.6.79, 3.2.3.6.80, 3.2.3.6.81, 3.2.3.6.82, 3.2.3.6.83, 3.2.3.6.84, 3.2.3.6.85, 3.2.3.6.86, 3.2.3.6.87, 3.2.3.6.88, 3.2.3.6.89, 3.2.3.6.90, 3.2.3.6.91, 3.2.3.6.92, 3.2.3.6.93, 3.2.3.6.94, 3.2.3.6.95, 3.2.3.6.96, 3.2.3.6.97, 3.2.3.6.98, 3.2.3.6.99, 3.2.3.6.100, 3.2.3.6.101, 3.2.3.6.102, 3.2.3.6.103, 3.2.3.6.104, 3.2.3.6.105, 3.2.3.6.106, 3.2.3.6.107, 3.2.3.6.108, 3.2.3.6.109, 3.2.3.6.110, 3.2.3.6.111, 3.2.3.6.112, 3.2.3.6.113, 3.2.3.6.114, 3.2.3.6.115, 3.2.3.6.116, 3.2.3.6.117, 3.2.3.6.118, 3.2.3.6.119, 3.2.3.6.120, 3.2.3.6.121, 3.2.3.6.122, 3.2.3.6.123, 3.2.3.6.124, 3.2.3.6.125, 3.2.3.6.126, 3.2.3.6.127, 3.2.3.6.128, 3.2.3.6.129, 3.2.3.6.130, 3.2.3.6.131, 3.2.3.6.132, 3.2.3.6.133, 3.2.3.6.134, 3.2.3.6.135, 3.2.3.6.136, 3.2.3.6.137, 3.2.3.6.138, 3.2.3.6.139, 3.2.3.6.140, 3.2.3.6.141, 3.2.3.6.142, 3.2.3.6.143, 3.2.3.6.144, 3.2.3.6.145, 3.2.3.6.146, 3.2.3.6.147, 3.2.3.6.148, 3.2.3.6.149, 3.2.3.6.150, 3.2.3.6.151, 3.2.3.6.152, 3.2.3.6.153, 3.2.3.6.154, 3.2.3.6.155, 3.2.3.6.156, 3.2.3.6.157, 3.2.3.6.158, 3.2.3.6.159, 3.2.3.6.160, 3.2.3.6.161, 3.2.3.6.162, 3.2.3.6.163, 3.2.3.6.164, 3.2.3.6.165, 3.2.3.6.166, 3.2.3.6.167, 3.2.3.6.168, 3.2.3.6.169, 3.2.3.6.170, 3.2.3.6.171, 3.2.3.6.172, 3.2.3.6.173, 3.2.3.6.174, 3.2.3.6.175, 3.2.3.6.176, 3.2.3.6.177, 3.2.3.6.178, 3.2.3.6.179, 3.2.3.6.180, 3.2.3.6.181, 3.2.3.6.182, 3.2.3.6.183, 3.2.3.6.184, 3.2.3.6.185, 3.2.3.6.186, 3.2.3.6.187, 3.2.3.6.188, 3.2.3.6.189, 3.2.3.6.190, 3.2.3.6.191, 3.2.3.6.192, 3.2.3.6.193, 3.2.3.6.194, 3.2.3.6.195, 3.2.3.6.196, 3.2.3.6.197, 3.2.3.6.198, 3.2.3.6.199, 3.2.3.6.200, 3.2.3.6.201, 3.2.3.6.202, 3.2.3.6.203, 3.2.3.6.204, 3.2.3.6.205, 3.2.3.6.206, 3.2.3.6.207, 3.2.3.6.208, 3.2.3.6.209, 3.2.3.6.210, 3.2.3.6.211, 3.2.3.6.212, 3.2.3.6.213, 3.2.3.6.214, 3.2.3.6.215, 3.2.3.6.216, 3.2.3.6.217, 3.2.3.6.218, 3.2.3.6.219, 3.2.3.6.220, 3.2.3.6.221, 3.2.3.6.222, 3.2.3.6.223, 3.2.3.6.224, 3.2.3.6.225, 3.2.3.6.226, 3.2.3.6.227, 3.2.3.6.228, 3.2.3.6.229, 3.2.3.6.230, 3.2.3.6.231, 3.2.3.6.232, 3.2.3.6.233, 3.2.3.6.234, 3.2.3.6.235, 3.2.3.6.236, 3.2.3.6.237, 3.2.3.6.238, 3.2.3.6.239, 3.2.3.6.240, 3.2.3.6.241, 3.2.3.6.242, 3.2.3.6.243, 3.2.3.6.244, 3.2.3.6.245, 3.2.3.6.246, 3.2.3.6.247, 3.2.3.6.248, 3.2.3.6.249, 3.2.3.6.250, 3.2.3.6.251, 3.2.3.6.252, 3.2.3.6.253, 3.2.3.6.254, 3.2.3.6.255, 3.2.3.6.256, 3.2.3.6.257, 3.2.3.6.258, 3.2.3.6.259, 3.2.3.6.260, 3.2.3.6.261, 3.2.3.6.262, 3.2.3.6.263, 3.2.3.6.264, 3.2.3.6.265, 3.2.3.6.266, 3.2.3.6.267, 3.2.3.6.268, 3.2.3.6.269, 3.2.3.6.270, 3.2.3.6.271, 3.2.3.6.272, 3.2.3.6.273, 3.2.3.6.274, 3.2.3.6.275, 3.2.3.6.276, 3.2.3.6.277, 3.2.3.6.278, 3.2.3.6.279, 3.2.3.6.280, 3.2.3.6.281, 3.2.3.6.282, 3.2.3.6.283, 3.2.3.6.284, 3.2.3.6.285, 3.2.3.6.286, 3.2.3.6.287, 3.2.3.6.288, 3.2.3.6.289, 3.2.3.6.290, 3.2.3.6.291, 3.2.3.6.292, 3.2.3.6.293, 3.2.3.6.294, 3.2.3.6.295, 3.2.3.6.296, 3.2.3.6.297, 3.2.3.6.298, 3.2.3.6.299, 3.2.3.6.300, 3.2.3.6.301, 3.2.3.6.302, 3.2.3.6.303, 3.2.3.6.304, 3.2.3.6.305, 3.2.3.6.306, 3.2.3.6.307, 3.2.3.6.308, 3.2.3.6.309, 3.2.3.6.310, 3.2.3.6.311, 3.2.3.6.312, 3.2.3.6.313, 3.2.3.6.314, 3.2.3.6.315, 3.2.3.6.316, 3.2.3.6.317, 3.2.3.6.318, 3.2.3.6.319, 3.2.3.6.320, 3.2.3.6.321, 3.2.3.6.322, 3.2.3.6.323, 3.2.3.6.324, 3.2.3.6.325, 3.2.3.6.326, 3.2.3.6.327, 3.2.3.6.328, 3.2.3.6.329, 3.2.3.6.330, 3.2.3.6.331, 3.2.3.6.332, 3.2.3.6.333, 3.2.3.6.334, 3.2.3.6.335, 3.2.3.6.336, 3.2.3.6.337, 3.2.3.6.338, 3.2.3.6.339, 3.2.3.6.340, 3.2.3.6.341, 3.2.3.6.342, 3.2.3.6.343, 3.2.3.6.344, 3.2.3.6.345, 3.2.3.6.346, 3.2.3.6.347, 3.2.3.6.348, 3.2.3.6.349, 3.2.3.6.350, 3.2.3.6.351, 3.2.3.6.352, 3.2.3.6.353, 3.2.3.6.354, 3.2.3.6.355, 3.2.3.6.356, 3.2.3.6.357, 3.2.3.6.358, 3.2.3.6.359, 3.2.3.6.360, 3.2.3.6.361, 3.2.3.6.362, 3.2.3.6.363, 3.2.3.6.364, 3.2.3.6.365, 3.2.3.6.366, 3.2.3.6.367, 3.2.3.6.368, 3.2.3.6.369, 3.2.3.6.370, 3.2.3.6.371, 3.2.3.6.372, 3.2.3.6.373, 3.2.3.6.374, 3.2.3.6.375, 3.2.3.6.376, 3.2.3.6.377, 3.2.3.6.378, 3.2.3.6.379, 3.2.3.6.380, 3.2.3.6.381, 3.2.3.6.382, 3.2.3.6.383, 3.2.3.6.384, 3.2.3.6.385, 3.2.3.6.386, 3.2.3.6.387, 3.2.3.6.388, 3.2.3.6.389, 3.2.3.6.390, 3.2.3.6.391, 3.2.3.6.392, 3.2.3.6.393, 3.2.3.6.394, 3.2.3.6.395, 3.2.3.6.396, 3.2.3.6.397, 3.2.3.6.398, 3.2.3.6.399, 3.2.3.6.400, 3.2.3.6.401, 3.2.3.6.402, 3.2.3.6.403, 3.2.3.6.404, 3.2.3.6.405, 3.2.3.6.406, 3.2.3.6.407, 3.2.3.6.408, 3.2.3.6.409, 3.2.3.6.410, 3.2.3.6.411, 3.2.3.6.412, 3.2.3.6.413, 3.2.3.6.414, 3.2.3.6.415, 3.2.3.6.416, 3.2.3.6.417, 3.2.3.6.418, 3.2.3.6.419, 3.2.3.6.420, 3.2.3.6.421, 3.2.3.6.422, 3.2.3.6.423, 3.2.3.6.424, 3.2.3.6.425, 3.2.3.6.426, 3.2.3.6.427, 3.2.3.6.428, 3.2.3.6.429, 3.2.3.6.430, 3.2.3.6.431, 3.2.3.6.432, 3.2.3.6.433, 3.2.3.6.434, 3.2.3.6.435, 3.2.3.6.436, 3.2.3.6.437, 3.2.3.6.438, 3.2.3.6.439, 3.2.3.6.440, 3.2.3.6.441, 3.2.3.6.442, 3.2.3.6.443, 3.2.3.6.444, 3.2.3.6.445, 3.2.3.6.446, 3.2.3.6.447, 3.2.3.6.448, 3.2.3.6.449, 3.2.3.6.450, 3.2.3.6.451, 3.2.3.6.452, 3.2.3.6.453, 3.2.3.6.454, 3.2.3.6.455, 3.2.3.6.456, 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3.2.3.6.534, 3.2.3.6.535, 3.2.3.6.536, 3.2.3.6.537, 3.2.3.6.538, 3.2.3.6.539, 3.2.3.6.540, 3.2.3.6.541, 3.2.3.6.542, 3.2.3.6.543, 3.2.3.6.544, 3.2.3.6.545, 3.2.3.6.546, 3.2.3.6.547, 3.2.3.6.548, 3.2.3.6.549, 3.2.3.6.550, 3.2.3.6.551, 3.2.3.6.552, 3.2.3.6.553, 3.2.3.6.554, 3.2.3.6.555, 3.2.3.6.556, 3.2.3.6.557, 3.2.3.6.558, 3.2.3.6.559, 3.2.3.6.560, 3.2.3.6.561, 3.2.3.6.562, 3.2.3.6.563, 3.2.3.6.564, 3.2.3.6.565, 3.2.3.6.566, 3.2.3.6.567, 3.2.3.6.568, 3.2.3.6.569, 3.2.3.6.570, 3.2.3.6.571, 3.2.3.6.572, 3.2.3.6.573, 3.2.3.6.574, 3.2.3.6.575, 3.2.3.6.576, 3.2.3.6.577, 3.2.3.6.578, 3.2.3.6.579, 3.2.3.6.580, 3.2.3.6.581, 3.2.3.6.582, 3.2.3.6.583, 3.2.3.6.584, 3.2.3.6.585, 3.2.3.6.586, 3.2.3.6.587, 3.2.3.6.588, 3.2.3.6.589, 3.2.3.6.590, 3.2.3.6.591, 3.2.3.6.592, 3.2.3.6.593, 3.2.3.6.594, 3.2.3.6.595, 3.2.3.6.596, 3.2.3.6.597, 3.2.3.6.598, 3.2.3.6.599, 3.2.3.6.600, 3.2.3.6.601, 3.2.3.6.602, 3.2.3.6.603, 3.2.3.6.604, 3.2.3.6.605, 3.2.3.6.606, 3.2.3.6.607, 3.2.3.6.608, 3.2.3.6.609, 3.2.3.6.610, 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3.2.3.6.842, 3.2.3.6.843, 3.2.3.6.844, 3.2.3.6.845, 3.2.3.6.846, 3.2.3.6.847, 3.2.3.6.848, 3.2.3.6.849, 3.2.3.6.850, 3.2.3.6.851, 3.2.3.6.852, 3.2.3.6.853, 3.2.3.6.854, 3.2.3.6.855, 3.2.3.6.856, 3.2.3.6.857, 3.2.3.6.858, 3.2.3.6.859, 3.2.3.6.860, 3.2.3.6.861, 3.2.3.6.862, 3.2.3.6.863, 3.2.3.6.864, 3.2.3.6.865, 3.2.3.6.866, 3.2.3.6.867, 3.2.3.6.868, 3.2.3.6.869, 3.2.3.6.870, 3.2.3.6.871, 3.2.3.6.872, 3.2.3.6.873, 3.2.3.6.874, 3.2.3.6.875, 3.2.3.6.876, 3.2.3.6.877, 3.2.3.6.878,



# EQUIPMENT SERIES



## AVERAGE-TEMPERATURE

- Alps 5HP-M**

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- Alps 7HP-M**

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- Alps 8HP-M**

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- Alps 10HP-M**

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- Alps 10HP-M CR2**

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- Alps 12HP-M CR2**

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- Alps 12HP-M**

## LOW-TEMPERATURE

- Alps 5HP-L**

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- Alps 6HP-L**

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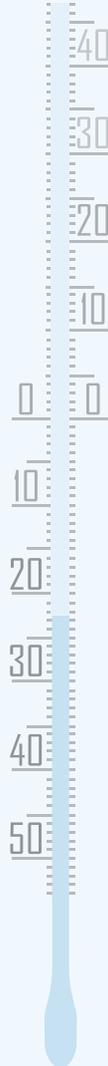
- Alps 7HP-L**

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- Alps 8HP-L**

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- Alps 9HP-L**



## AVERAGE-TEMPERATURE

- Alps 17HP-M CR2**

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- Alps 17HP-M**

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- Alps 21HP-M**

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- Alps 24HP-M**

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- Alps 27HP-M**

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- Alps 30HP-M**

## LOW-TEMPERATURE

- Alps 10HP-L**

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- Alps 13HP-L**

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- Alps 15HP-L**

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- Alps 17HP-L**

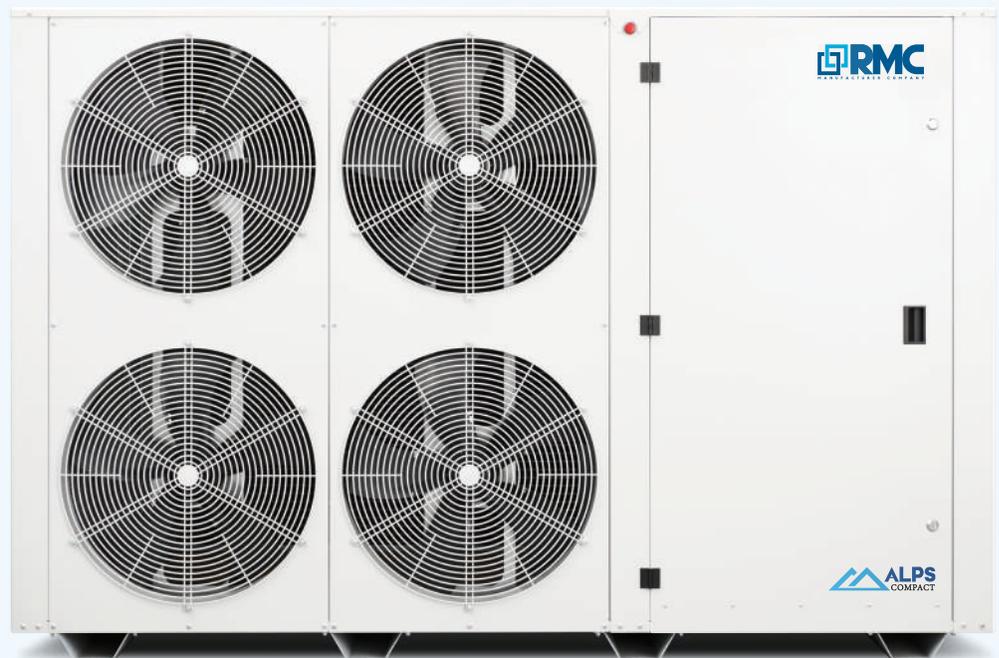


AVERAGE-TEMPERATURE

**Alps 36HP-M**

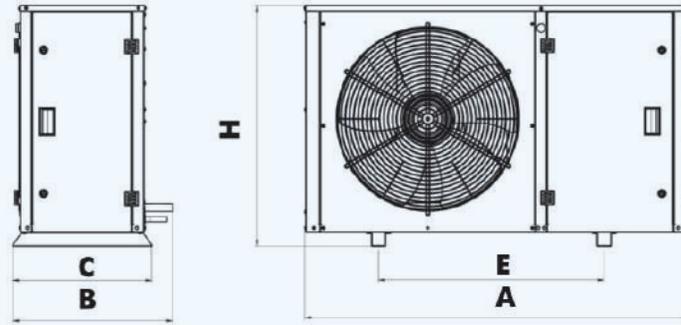
AVERAGE-TEMPERATURE

**Alps 44HP-M**

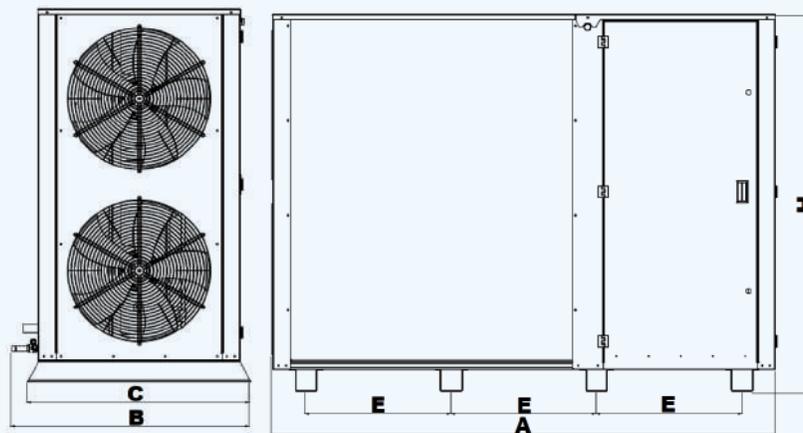




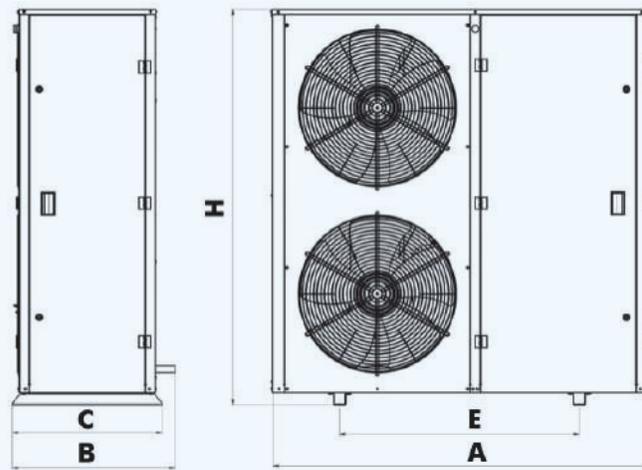
# TABLE OF DIMENSIONS



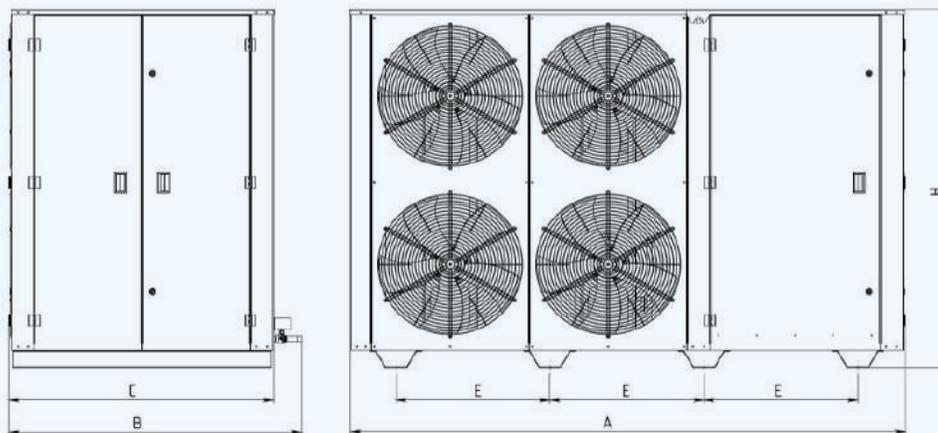
Model	Dimensions (mm)					Weight kg
	A	B	C	H	E	
Alps 5HP-M	1270	590	490	795	774	120
Alps 7HP-M	1270	590	490	795	774	125
Alps 8HP-M	1340	623	490	880	774	150
Alps 10HP-M	1340	623	490	880	774	150
Alps 10HP-M CR2	1440	658	610	890	926	240
Alps 12HP-M CR2	1440	658	610	890	926	240
Alps 12HP-M	1340	623	490	880	774	150
Alps 5HP-L	1440	658	610	890	926	240
Alps 6HP-L	1440	658	610	890	926	240
Alps 7HP-L	1440	658	610	890	926	240
Alps 8HP-L	1440	658	610	890	926	240
Alps 9HP-L	1440	658	610	890	926	150



Model	Dimensions (mm)					Weight kg
	A	B	C	H	E	
Alps 36HP-M	2335	1067	998	1690	673	600



Model	Dimensions (mm)					Weight
	A	B	C	H	E	kg
Alps 17HP-M CR2	1530	665	610	1655	956	330
Alps 17HP-M	1530	665	610	1655	956	330
Alps 21HP-M	1530	665	610	1655	956	330
Alps 24HP-M	1760	883	810	1655	676/510	550
Alps 27HP-M	1760	883	810	1655	676/510	550
Alps 30HP-M	1760	883	810	1655	676/510	550
Alps 10HP-L	1760	883	810	1655	676/510	550
Alps 13HP-L	1760	883	810	1655	676/510	550
Alps 15HP-L	1760	883	810	1655	676/510	550
Alps 17HP-L	1760	883	810	1655	676/510	550



Model	Dimensions (mm)					Weight
	A	B	C	H	E	kg
Alps 44HP-M	2465	1300	1175	1635	683	950



# AVERAGE-TEMPERATURE UNITS

## PERFORMANCE PARAMETERS - AVERAGE-TEMPERATURE UNITS

Unit model	Alps 5HP-M			Alps 7HP-M	Alps 8HP-M	Alps 10HP-M	Alps 10HP-M CR2	Alps 12HP-M CR2	Alps 12HP-M	
Dimensions	Length	A	mm	1270	1270	1340	1340	1440	1440	1340
	Height	H	mm	795	795	880	880	890	890	880
	Width	C	mm	490	490	490	490	610	610	490
Weight	kg			120	125	150	150	240	240	150
Condenser	Fan number/diameter	mm		1 / 500	1 / 500	1 / 630	1 / 630	1 / 630	1 / 630	1 / 630
	Air flow	m <sup>3</sup> /h		4 200	4 200	6750	6750	6750	6750	6750
	Fan power supply voltage	V/ph/Hz		220 / 1~ / 50	220 / 1~ / 50	220 / 1~ / 50	220 / 1~ / 50	220 / 1~ / 50	220 / 1~ / 50	220 / 1~ / 50
	Fan maximum current	A		2,05	2,05	1,00	1,00	1,00	1,00	1,00
	Fan consumed power	W		230	230	240	240	240	240	240
Compressor	Model			ZBD21KCE	ZBD29KCE	ZBD38KCE	ZBD45KCE	4FES-3Y	4EES-4Y	ZBD57KCE
	Volumetric capacity	m <sup>3</sup> /h		0,835...8,35	1,14...11,4	1,44...14,4	1,71...17,1	10,9...21,7	11,4...22,7	2,14...21,4
	Power supply voltage	V/ph/Hz		380 / 3~ / 50	380 / 3~ / 50	380 / 3~ / 50	380 / 3~ / 50	380 / 3~ / 50	380 / 3~ / 50	380 / 3~ / 50
	Current	MCC	A	6,7	10,0	11,3	12,3	9,5	12,2	15,9
	Oil type			POE RL32	POE RL32	POE RL32	POE RL32	BSE32	BSE32	POE RL32
	Oil charge	l		1,24	1,36	1,89	1,89	2,00	2,00	1,89
	Crankcase heater	W		70	70	70	70	0...120	0...120	70
Adjustment depth	%			10...100	10...100	10...100	10...100	50...100 *	50...100 *	10...100
Sound pressure @10 m	dB(A)			40	40	42	42	44	44	42
Connection	Liquid	mm		12	12	12	12	12	15	15
	Suction			18	22	22	22	22	28	28
Receiver volume	l			5	5	7	7	7	15	15
Unit power	Power supply voltage	V/ph/Hz		380 / 3~ / 50	380 / 3~ / 50	380 / 3~ / 50	380 / 3~ / 50	380 / 3~ / 50	380 / 3~ / 50	380 / 3~ / 50
	Cable minimum cross-section (ПВС brand)			5x1,5 mm <sup>2</sup>	5x2,5 mm <sup>2</sup>					

Alps 17HP-M CRZ	Alps 17HP-M	Alps 21HP-M	Alps 24HP-M	Alps 27HP-M	Alps 30HP-M	Alps 36HP-M	Alps 44HP-M
1530	1530	1530	1760	1760	1760	2335	2468
1655	1655	1655	1655	1655	1655	1690	1638
610	610	610	810	810	810	998	1175
330	330	330	550	550	550	600	950
2 / 630	2 / 630	2 / 630	2 / 630	2 / 630	2 / 630	2 / 630	4 / 630
14 400	14 400	14 400	14 150	14 150	14 150	15 310	20 100
220 / 1~ / 50	220 / 1~ / 50	220 / 1~ / 50	220 / 1~ / 50	220 / 1~ / 50	220 / 1~ / 50	220 / 1~ / 50	220 / 1~ / 50
1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00
240	240	240	240	240	240	240	240
4CES-6Y	ZBD38KCE-TFD / ZB38KCE-TFD	ZBD45KCE-TFD / ZB45KCE-TFD	4EES-4Y / 4EES-4Y	4DES-5Y / 4EES-4Y	4CES-6Y / 4EES-4Y	4CES-6Y / 4CES-6Y	4TES-9Y / 4TES-9Y
16,2...32,4	1,44...14,4 / 14,4	1,71...17,1 / 17,1	11,4...22,7 / 22,7	13,4...26,8 / 22,7	16,2...32,4 / 22,7	16,2...32,4 / 32,4	20...41,3 / 41,3
380 / 3~ / 50	380 / 3~ / 50	380 / 3~ / 50	380 / 3~ / 50	380 / 3~ / 50	380 / 3~ / 50	380 / 3~ / 50	380 / 3~ / 50
17,7	11,3 / 12,8	12,3 / 13,1	12,2 / 12,2	14,5 / 12,2	17,7 / 12,2	17,7 / 17,7	19,9 / 19,9
BSE32	POE RL32	POE RL32	BSE32	BSE32	BSE32	BSE32	BSE32
2,00	1,89 / 1,90	1,89 / 1,90	2,00 / 2,00	2,00 / 2,00	2,00 / 2,00	2,00 / 2,00	2,60 / 2,60
0...120	70 / 70	70 / 70	0...120 / 0...120	0...120 / 0...120	0...120 / 0...120	0...120 / 0...120	0...120 / 0...120
50...100 *	5...100	5...100	25...100 **	25...100 **	25...100 **	25...100 **	25...100 **
45	44	44	45	45	45	46	46
15	15	15	22	22	22	22	22
28	28	28	35	35	35	42	54
15	15	15	24	24	24	30	45
380 / 3~ / 50	380 / 3~ / 50	380 / 3~ / 50	380 / 3~ / 50	380 / 3~ / 50	380 / 3~ / 50	380 / 3~ / 50	380 / 3~ / 50
5x4,0 mm2	5x6,0 mm2	5x6,0 mm2	5x6,0 mm2	5x6,0 mm2	5x6,0 mm2	5x10,0 mm2	5x16,0 mm2

\* POSSIBLE ADJUSTMENT DEPTH EXTENSION UP TO 10...100% (OPTION)

\*\* TO 5...100% (OPTION)



# AVERAGE-TEMPERATURE UNITS

## PERFORMANCE FOR VARIOUS REFRIGERANTS



R507A		Capacity (freezing: 3 K; heating: 10 K)										
Unit model	Range	To, °C	-15		-10		-5		0		5	
		Ta, °C	Q0, kW	Pe, kW								
Alps 5HP-M	min	32	0,42	0,43	0,52	0,46	0,63	0,47	0,74	0,48	0,87	0,49
		35	0,40	0,47	0,49	0,51	0,60	0,48	0,71	0,50	0,83	0,50
		38	0,38	0,49	0,47	0,53	0,57	0,50	0,67	0,52	0,79	0,52
	max	32	4,21	2,33	5,20	2,38	6,36	2,42	7,46	2,54	8,79	2,60
		35	4,00	2,46	4,96	2,52	6,07	2,56	7,10	2,69	8,36	2,76
		38	3,79	2,60	4,71	2,66	5,77	2,71	6,73	2,85	7,90	2,93
Alps 7HP-M	min	32	0,56	0,54	0,67	0,56	0,79	0,58	0,98	0,58	1,16	0,59
		35	0,53	0,57	0,65	0,58	0,75	0,60	0,91	0,61	1,06	0,63
		38	0,50	0,59	0,62	0,59	0,71	0,63	0,85	0,64	1,00	0,66
	max	32	5,64	3,13	6,79	3,26	7,93	3,45	9,85	3,41	11,65	3,52
		35	5,31	3,33	6,53	3,41	7,65	3,61	9,11	3,72	10,60	3,93
		38	5,09	3,48	6,26	3,56	7,16	3,87	8,53	3,99	10,00	4,16
Alps 8HP-M	min	32	0,71	0,62	0,88	0,63	0,11	0,66	1,24	0,68	1,45	0,70
		35	0,68	0,64	0,83	0,66	0,10	0,69	1,19	0,70	1,39	0,73
		38	0,64	0,67	0,79	0,68	0,94	0,71	1,13	0,72	1,31	0,75
	max	32	7,19	3,75	8,82	3,86	10,55	4,09	12,45	4,30	14,55	4,50
		35	6,81	3,94	8,37	4,09	10,00	4,30	11,90	4,49	13,90	4,70
		38	6,43	4,14	7,91	4,30	9,46	4,52	11,35	4,68	13,15	4,94
Alps 10HP-M	min	32	0,85	0,69	1,04	0,72	1,22	0,76	1,43	0,80	1,66	0,84
		35	0,81	0,72	0,98	0,75	1,15	0,79	1,37	0,82	1,60	0,86
		38	0,76	0,75	0,92	0,78	1,11	0,81	1,29	0,85	1,50	0,89
	max	32	8,59	4,38	10,40	4,67	12,20	5,01	14,30	5,36	16,60	5,73
		35	8,13	4,65	9,83	4,91	11,55	5,27	13,75	5,55	16,00	5,92
		38	7,66	4,90	9,26	5,18	11,10	5,46	12,95	5,83	15,05	6,22
Alps 10HP-M CR2	min	32	3,79	2,27	4,67	2,45	5,70	2,62	-	-	-	-
		35	3,53	2,32	4,46	2,49	5,45	2,67	-	-	-	-
		38	3,27	2,37	4,14	2,55	5,00	2,76	-	-	-	-
	max	32	7,58	3,97	9,34	4,33	11,40	4,68	-	-	-	-
		35	7,06	4,06	8,93	4,41	10,90	4,78	-	-	-	-
		38	6,53	4,15	8,29	4,52	10,00	4,93	-	-	-	-
Alps 12HP-M CR2	min	32	4,70	2,84	5,74	3,11	6,77	3,40	-	-	-	-
		35	4,43	2,90	5,35	3,19	6,38	3,48	-	-	-	-
		38	4,16	2,95	5,08	3,24	6,06	3,55	-	-	-	-
	max	32	9,41	5,02	11,48	5,55	13,55	6,13	-	-	-	-
		35	8,87	5,13	10,69	5,70	12,75	6,29	-	-	-	-
		38	8,32	5,22	10,16	5,80	12,11	6,40	-	-	-	-
Alps 12HP-M	min	32	1,06	0,85	1,26	0,90	1,48	0,94	1,75	0,98	2,02	1,03
		35	1,00	0,89	1,20	0,93	1,40	0,98	1,64	1,02	1,90	1,07
		38	0,96	0,91	1,14	0,96	1,34	1,01	1,57	1,05	1,79	1,11
	max	32	10,60	5,82	12,65	6,20	14,85	6,63	17,50	6,99	20,20	7,39
		35	10,00	6,12	12,05	6,47	14,00	6,98	16,45	7,36	19,00	7,78
		38	9,61	6,33	11,40	6,75	13,40	7,22	15,70	7,61	17,90	8,11

Qo - cooling capacity; To - boiling point; Ta - air temperature; Re - consumed power

R507A		Capacity (freezing: 3 K; heating: 10 K)										
Unit model	Range	To, °C	-15		-10		-5		0		5	
		Ta, °C	Q0, kW	Pe, kW								
Alps 17HP-M CR2	min	32	6,92	4,11	8,65	4,44	10,38	4,82	-	-	-	-
		35	6,46	4,20	8,11	4,55	9,84	4,93	-	-	-	-
		38	6,00	4,28	7,65	4,64	9,30	5,04	-	-	-	-
	max	32	13,84	7,14	17,30	7,81	20,80	8,56	-	-	-	-
		35	12,92	7,30	16,21	7,30	19,68	8,78	-	-	-	-
		38	12,00	7,45	15,30	8,19	18,60	8,99	-	-	-	-
Alps 17HP-M	min	32	0,72	0,63	0,88	0,65	1,03	0,67	1,21	0,70	1,42	0,72
		35	0,68	0,65	0,83	0,67	0,98	0,69	1,15	0,72	1,34	0,75
		38	0,64	0,67	0,78	0,69	0,94	0,71	1,09	0,79	1,29	0,81
	max	32	14,32	7,92	17,48	8,15	20,60	8,58	24,30	8,93	28,50	9,26
		35	13,52	8,38	16,52	8,62	19,65	9,00	23,20	9,36	27,00	9,80
		38	12,72	8,86	15,56	9,11	18,69	9,42	21,85	9,90	25,90	10,18
Alps 21HP-M	min	32	0,85	0,70	1,01	0,74	1,19	0,78	1,42	0,81	1,65	0,85
		35	0,81	0,73	0,95	0,77	1,15	0,80	1,34	0,84	1,55	0,88
		38	0,76	0,76	0,91	0,79	1,08	0,83	1,27	0,92	1,49	0,95
	max	32	16,83	9,25	19,99	9,78	23,55	10,33	28,05	10,68	32,65	11,24
		35	15,88	9,80	18,84	10,36	22,65	10,73	26,45	11,30	30,75	11,90
		38	14,91	10,37	17,88	10,87	21,25	11,36	25,15	11,85	29,55	12,33
Alps 24HP-M	min	32	4,81	2,82	6,00	3,05	7,24	3,30	-	-	-	-
		35	4,49	2,89	5,67	3,12	6,85	3,38	-	-	-	-
		38	4,16	2,95	5,28	3,20	6,38	3,48	-	-	-	-
	max	32	19,25	9,96	24,00	10,88	29,00	11,87	-	-	-	-
		35	17,95	10,22	22,70	11,15	27,40	12,20	-	-	-	-
		38	16,64	10,44	21,10	11,45	25,50	12,57	-	-	-	-
Alps 27HP-M	min	32	5,57	3,20	6,87	3,47	8,30	3,76	-	-	-	-
		35	5,20	3,27	6,54	3,55	7,81	3,87	-	-	-	-
		38	4,82	3,35	6,08	3,64	7,42	3,95	-	-	-	-
	max	32	20,80	10,65	25,60	11,70	30,90	12,77	-	-	-	-
		35	19,37	10,92	24,40	11,95	29,10	13,16	-	-	-	-
		38	17,97	11,16	22,60	12,28	27,60	13,44	-	-	-	-
Alps 30HP-M	min	32	6,84	3,88	8,32	4,27	10,00	4,66	-	-	-	-
		35	6,46	3,96	7,92	4,35	9,52	4,76	-	-	-	-
		38	6,00	4,04	7,38	4,45	8,97	4,87	-	-	-	-
	max	32	23,20	11,93	28,20	13,24	33,80	14,55	-	-	-	-
		35	21,90	12,17	26,80	13,50	32,10	14,89	-	-	-	-
		38	20,30	12,43	24,90	13,84	30,20	15,24	-	-	-	-
Alps 36HP-M	min	32	6,92	3,87	8,72	4,18	10,59	4,53	-	-	-	-
		35	6,46	3,96	8,20	4,29	9,95	4,67	-	-	-	-
		38	6,00	4,04	7,65	4,40	9,41	4,78	-	-	-	-
	max	32	27,70	13,80	34,90	15,07	42,40	16,46	-	-	-	-
		35	25,80	14,13	32,80	15,49	39,80	16,99	-	-	-	-
		38	24,00	14,43	30,60	15,89	37,60	17,41	-	-	-	-
Alps 44HP-M	min	32	8,10	4,44	10,40	4,84	12,96	5,23	-	-	-	-
		35	7,62	4,53	9,82	4,96	12,26	5,40	-	-	-	-
		38	7,14	4,61	9,25	5,08	11,71	5,53	-	-	-	-
	max	32	32,40	15,49	41,60	17,09	51,80	18,66	-	-	-	-
		35	30,50	15,82	39,30	17,57	49,00	19,30	-	-	-	-
		38	28,60	16,12	37,00	18,00	46,90	19,77	-	-	-	-

Qo - cooling capacity; To - boiling point; Ta - air temperature; Re - consumed power



# AVERAGE-TEMPERATURE UNITS

## PERFORMANCE FOR VARIOUS REFRIGERANTS



R449A		Capacity (freezing: 3 K; heating: 10 K)										
Unit model	Range	To, °C	-15		-10		-5		0		5	
		Ta, °C	Q0, kW	Pe, kW								
Alps 5HP-M	min	32	0,40	0,44	0,49	0,45	0,60	0,47	0,71	0,48	0,85	0,50
		35	0,38	0,46	0,47	0,47	0,57	0,48	0,69	0,49	0,82	0,51
		38	0,37	0,48	0,45	25,64	0,55	0,50	0,66	0,51	0,79	0,52
	max	32	3,97	2,16	4,91	2,26	5,96	2,38	7,10	2,52	8,47	2,64
		35	3,81	2,30	4,73	2,39	5,72	2,51	6,87	2,63	8,17	2,76
		38	3,65	2,46	4,53	2,54	5,51	2,64	6,62	2,76	7,87	2,89
Alps 7HP-M	min	32	0,55	0,52	0,66	0,54	0,79	0,56	0,94	0,58	0,12	0,60
		35	0,53	0,53	0,63	0,56	0,76	0,58	0,90	0,60	0,11	0,62
		38	0,50	0,54	0,61	0,57	0,72	0,60	0,86	0,62	0,10	0,65
	max	32	5,48	2,85	6,60	3,06	7,91	3,24	9,38	3,42	11,05	3,60
		35	5,26	2,96	6,34	3,20	7,58	3,41	9,00	3,60	10,60	3,80
		38	5,02	3,08	6,06	3,34	7,24	3,58	8,61	3,78	10,10	4,01
Alps 8HP-M	min	32	0,68	0,59	0,85	0,60	0,10	0,63	0,12	0,66	0,15	0,70
		35	0,65	0,61	0,81	0,63	0,10	0,65	0,12	0,69	0,14	0,72
		38	0,62	0,63	0,78	0,65	0,95	0,68	0,11	0,71	0,14	0,74
	max	32	6,80	3,39	8,45	3,57	10,25	3,82	12,25	4,10	14,50	4,40
		35	6,51	3,59	8,13	3,78	9,92	4,00	11,80	4,31	14,00	4,60
		38	6,21	3,80	7,81	3,99	9,49	4,26	11,40	4,53	13,50	4,83
Alps 10HP-M	min	32	0,81	0,65	0,99	0,69	1,19	0,72	1,42	0,76	1,67	0,80
		35	0,78	0,68	0,96	0,71	1,15	0,75	1,37	0,79	1,61	0,83
		38	0,75	0,70	0,92	0,74	1,11	0,78	1,32	0,82	1,55	0,86
	max	32	8,12	3,98	9,94	4,29	11,90	4,63	14,15	4,96	16,65	5,33
		35	7,80	4,21	9,57	4,53	11,50	4,87	13,65	5,21	16,05	5,59
		38	7,47	4,44	9,16	4,80	11,10	5,12	13,15	5,48	15,45	5,87
Alps 10HP-M CR2	min	32	3,56	2,05	4,45	2,25	5,45	2,47	-	-	-	-
		35	3,36	2,09	4,24	2,31	5,20	2,53	-	-	-	-
		38	3,16	2,14	4,03	2,36	4,95	2,59	-	-	-	-
	max	32	7,13	3,56	8,91	3,97	10,90	4,39	-	-	-	-
		35	6,72	3,65	8,49	4,07	10,41	4,51	-	-	-	-
		38	6,31	3,72	8,05	4,16	9,89	4,63	-	-	-	-
Alps 12HP-M CR2	min	32	4,34	2,53	5,37	2,83	6,56	3,13	-	-	-	-
		35	4,12	2,58	5,10	2,89	6,25	3,20	-	-	-	-
		38	3,87	2,63	4,84	2,95	5,95	3,28	-	-	-	-
	max	32	8,68	4,44	10,73	5,03	13,11	5,62	-	-	-	-
		35	8,23	4,54	10,20	5,15	12,49	5,77	-	-	-	-
		38	7,74	4,63	9,68	5,25	11,89	5,90	-	-	-	-
Alps 12HP-M	min	32	1,03	0,81	1,24	0,85	1,47	0,89	1,73	0,94	2,01	0,98
		35	0,98	0,84	1,18	0,89	1,41	0,93	1,67	0,97	1,93	1,02
		38	0,94	0,87	1,13	0,92	1,35	0,97	1,60	1,01	1,85	0,95
	max	32	10,25	5,40	12,40	5,79	14,70	6,19	17,30	6,59	20,10	7,01
		35	9,80	5,70	11,80	6,11	14,10	6,51	16,65	6,89	19,30	7,35
		38	9,38	5,97	11,30	6,40	13,45	6,84	15,90	7,23	-	-

Qo - cooling capacity; To - boiling point; Ta - air temperature; Re - consumed power

R449A		Capacity (freezing: 3 K; heating: 10 K)										
Unit model	Range	To, °C	-15		-10		-5		0		5	
		Ta, °C	Q0, kW	Pe, kW								
Alps 17HP-M CR2	min	32	6,44	3,48	8,07	3,87	9,81	4,26	-	-	-	-
		35	6,14	3,58	7,64	3,98	9,39	4,37	-	-	-	-
		38	5,78	3,65	7,31	4,05	8,95	4,48	-	-	-	-
	max	32	12,89	6,49	16,14	7,20	19,63	7,97	-	-	-	-
		35	12,28	6,61	15,28	7,40	18,78	8,18	-	-	-	-
		38	11,56	6,75	14,62	7,54	17,90	8,38	-	-	-	-
Alps 17HP-M	min	32	0,67	0,59	0,83	0,62	1,05	0,65	1,20	0,68	1,42	0,71
		35	0,65	0,61	0,80	0,64	0,96	0,67	1,16	0,70	1,37	0,74
		38	0,62	0,63	0,77	0,66	0,93	0,70	1,12	0,73	1,32	0,76
	max	32	13,61	7,35	16,82	7,67	20,75	8,10	24,15	8,58	28,60	9,05
		35	13,04	7,78	16,09	8,16	19,45	8,61	23,40	8,97	27,65	9,54
		38	12,40	7,81	15,43	8,64	18,70	9,09	22,45	9,54	26,65	10,08
Alps 21HP-M	min	32	0,80	0,66	0,97	0,70	1,17	0,74	1,38	0,83	1,62	0,87
		35	0,76	0,69	0,94	0,73	1,13	0,76	1,34	0,85	1,57	0,90
		38	0,73	0,71	0,90	0,75	1,09	0,79	1,28	0,89	1,50	0,93
	max	32	15,90	8,58	19,45	9,10	23,20	9,74	27,70	10,22	32,65	10,86
		35	15,04	9,24	18,65	9,64	22,55	10,15	26,85	10,72	31,55	11,40
		38	14,52	9,63	17,87	10,21	21,65	10,74	25,55	11,45	30,20	12,10
Alps 24HP-M	min	32	4,46	2,50	5,60	2,77	6,88	3,04	-	-	-	-
		35	4,20	2,56	5,35	2,83	6,55	3,13	-	-	-	-
		38	3,95	2,61	5,04	2,90	6,23	3,21	-	-	-	-
	max	32	17,84	8,78	22,40	9,83	27,50	10,91	-	-	-	-
		35	16,81	9,00	21,40	10,08	26,20	11,25	-	-	-	-
		38	15,78	9,20	20,20	10,34	24,90	11,54	-	-	-	-
Alps 27HP-M	min	32	5,08	2,80	6,31	3,11	7,74	3,42	-	-	-	-
		35	4,78	2,86	6,00	3,18	7,40	3,51	-	-	-	-
		38	4,49	2,91	5,71	3,24	7,03	3,59	-	-	-	-
	max	32	19,08	9,34	23,70	10,50	29,00	11,68	-	-	-	-
		35	17,97	9,55	22,50	10,76	27,80	11,99	-	-	-	-
		38	16,87	9,74	21,40	10,98	26,40	12,29	-	-	-	-
Alps 30HP-M	min	32	6,40	3,52	7,90	3,91	9,61	4,31	-	-	-	-
		35	6,07	3,59	7,53	4,00	9,19	4,42	-	-	-	-
		38	5,73	3,66	7,15	4,09	8,78	4,52	-	-	-	-
	max	32	21,60	10,70	26,60	12,04	32,50	13,42	-	-	-	-
		35	20,40	10,92	25,40	12,33	31,00	13,77	-	-	-	-
		38	19,29	11,14	24,10	12,59	29,60	14,08	-	-	-	-
Alps 36HP-M	min	32	6,51	3,50	8,20	3,84	10,05	4,20	-	-	-	-
		35	6,14	3,58	7,81	3,93	9,59	4,32	-	-	-	-
		38	5,78	3,65	7,42	4,03	9,14	4,43	-	-	-	-
	max	32	26,00	12,45	32,80	13,80	40,20	15,22	-	-	-	-
		35	24,60	12,74	31,20	14,16	38,40	15,68	-	-	-	-
		38	23,10	13,02	29,70	14,50	36,60	16,12	-	-	-	-
Alps 44HP-M	min	32	8,10	4,44	10,26	4,87	12,64	5,31	-	-	-	-
		35	7,62	4,53	9,75	4,98	12,03	5,45	-	-	-	-
		38	7,14	4,61	9,23	5,09	11,44	5,59	-	-	-	-
	max	32	32,40	15,49	41,10	17,21	50,60	18,96	-	-	-	-
		35	30,50	15,82	39,00	17,63	48,10	19,50	-	-	-	-
		38	28,60	16,12	36,90	18,02	45,80	19,99	-	-	-	-

Qo - cooling capacity; To - boiling point; Ta - air temperature; Re - consumed power



# LOW-TEMPERATURE UNITS

## PERFORMANCE PARAMETERS - LOW-TEMPERATURE UNITS

Unit model	Alps SHP-L			Alps 6HP-L	Alps 7HP-L	Alps 8HP-L	
Dimensions	Length	A	mm	1440	1440	1440	1440
	Height	H	mm	890	890	890	890
	Width	C	mm	610	610	610	610
Weight	kg			240	240	240	240
Condenser	Fan number/ diameter	mm		1 / 630	1 / 630	1 / 630	1 / 630
	Air flow	m <sup>3</sup> /h		6 750	6750	6750	6750
	Fan power supply voltage	V/ph/Hz		230 - 240 / 1- / 50	230 - 240 / 1- / 50	230 - 240 / 1- / 50	230 - 240 / 1- / 50
	Fan maximum current	A		1,00	1,00	1,00	1,00
	Fan consumed power	W		240	240	240	240
Compressor	Model			4FES-3Y	4EES-4Y	4DES-5Y	4CES-6Y
	Volumetric capacity	m <sup>3</sup> /h		10,9...21,7	11,4...22,7	13,4...26,8	16,2...32,4
	Power supply voltage	V/ph/Hz		380-420 / 3- / 50	380-420 / 3- / 50	380-420 / 3- / 50	380-420 / 3- / 50
	Current	MCC	A	9,5	12,2	14,5	17,7
	Oil type			BSE32	BSE32	BSE32	BSE32
	Oil charge	l		2,00	2,00	2,00	2,00
	Crankcase heater	W		0...120	0...120	0...120	0...120
Adjustment depth	%			50...100*	50...100 *	50...100 *	50...100 *
Sound pressure @10 m	dB(A)			44	44	44	44
Connection	Liquid	mm		15	15	15	15
	Suction			28	28	28	28
Receiver volume	l			15	15	15	15
Unit power	Power supply voltage	V/ph/Hz		380-420 / 3- / 50	380-420 / 3- / 50	380-420 / 3- / 50	380-420 / 3- / 50
	Cable minimum cross- section (ПВС brand)			5x2,5 mm <sup>2</sup>	5x2,5 mm <sup>2</sup>	5x2,5 mm <sup>2</sup>	5x2,5 mm <sup>2</sup>

Alps 9HP-L	Alps 10HP-L	Alps 13HP-L	Alps 15HP-L	Alps 17HP-L
1760	1760	1760	1760	1760
1655	1655	1655	1655	1655
810	810	810	810	810
450	550	550	550	550
2 / 630	2 / 630	2 / 630	2 / 630	2 / 630
14 400	14 400	14 150	14 150	14 150
230 - 240 / 1~ / 50	230 - 240 / 1~ / 50	230 - 240 / 1~ / 50	230 - 240 / 1~ / 50	230 - 240 / 1~ / 50
1,00	1,00	1,00	1,00	1,00
240	240	240	240	240
4BES-9Y	4EES-4Y / 4FES-3Y	4DES-5Y / 4EES-4Y	4CES-6Y / 4EES-4Y	4CES-6Y / 4CES-6Y
18,1...36,1	11,4...22,7 / 18,0	13,4...26,8 / 22,7	16,2...32,4 / 22,7	16,2...32,4 / 32,4
380-420 / 3~ / 50	380-420 / 3~ / 50	380-420 / 3~ / 50	380-420 / 3~ / 50	380-420 / 3~ / 50
18	12,2 / 9,5	14,5 / 12,2	17,7 / 12,2	17,7 / 17,7
BSE32	BSE32	BSE32	BSE32	BSE32
2,00	2,00 / 2,00	2,00 / 2,00	2,00 / 2,00	2,00 / 2,00
0...120	0...120 / 0...120	0...120 / 0...120	0...120 / 0...120	0...120 / 0...120
50...100 *	25...100 **	25...100 **	25...100 **	25...100 **
44	45	45	45	45
15	22	22	22	22
28	35	35	35	35
15	24	24	24	24
380-420 / 3~ / 50	380-420 / 3~ / 50	380-420 / 3~ / 50	380-420 / 3~ / 50	380-420 / 3~ / 50
5x2,5 mm <sup>2</sup>	5x4,0 mm <sup>2</sup>	5x6,0 mm <sup>2</sup>	5x6,0 mm <sup>2</sup>	5x10,0 mm <sup>2</sup>

\* POSSIBLE ADJUSTMENT DEPTH EXTENSION UP TO 10...100% (OPTION)

\*\* TO 5...100% (OPTION)



# LOW-TEMPERATURE UNITS

## PERFORMANCE FOR VARIOUS REFRIGERANTS



R507A		Capacity (freezing: 3 K; heating: 10 K)								
Unit model	Range	To, °C	-30		-25		-20		-15	
		Ta, °C	Q0, kW	Pe, kW						
Alps 5HP-L	min	32	1,73	1,63	2,29	1,82	2,97	2,00	3,79	2,17
		35	1,59	1,64	2,11	1,84	2,75	2,04	3,53	2,22
		38	1,45	1,65	1,94	1,86	2,54	2,07	3,27	2,27
	max	32	3,46	2,87	4,57	3,25	5,93	3,62	7,58	3,97
		35	3,18	2,90	4,23	3,30	5,51	3,69	7,06	4,06
		38	2,89	2,91	3,87	3,33	5,08	3,75	6,53	4,15
Alps 6HP-L	min	32	2,19	2,00	2,90	2,25	3,77	2,49	4,76	2,73
		35	2,01	2,02	2,68	2,28	3,50	2,54	4,44	2,80
		38	1,83	2,03	2,46	2,31	3,23	2,58	4,16	2,85
	max	32	4,38	3,52	5,80	4,02	7,53	4,51	9,52	5,00
		35	4,02	3,56	5,36	4,08	7,00	4,60	8,89	5,12
		38	3,67	3,58	4,92	4,13	6,45	4,68	8,32	5,22
Alps 7HP-L	min	32	2,54	2,28	3,36	2,56	4,31	2,84	5,26	3,19
		35	2,33	2,30	3,10	2,60	4,05	2,89	4,97	3,25
		38	2,12	2,32	2,85	2,63	3,74	2,94	4,65	3,31
	max	32	5,07	4,02	6,72	4,58	8,62	5,16	10,52	5,79
		35	4,66	4,06	6,21	4,65	8,10	5,24	9,95	5,89
		38	4,25	4,09	5,70	4,71	7,48	5,34	9,30	6,00
Alps 8HP-L	min	32	3,11	2,73	4,10	3,09	5,05	3,52	6,18	3,99
		35	2,85	2,75	3,82	3,13	4,79	3,56	5,82	4,05
		38	2,60	2,77	3,51	3,16	4,43	3,61	5,46	4,10
	max	32	6,22	4,81	8,20	5,53	10,11	6,14	12,37	7,16
		35	5,70	4,85	7,65	5,60	9,57	6,41	11,63	7,27
		38	5,19	4,89	7,02	5,67	8,86	6,50	10,93	7,37
Alps 9HP-L	min	32	3,41	3,12	4,54	3,51	5,93	3,90	7,60	4,27
		35	3,12	3,14	4,19	3,56	5,51	3,97	7,10	4,37
		38	2,85	3,17	3,85	3,60	5,08	4,04	6,59	4,46
	max	32	6,82	5,56	9,09	6,36	11,86	7,14	15,20	7,89
		35	6,25	5,61	8,39	6,44	11,01	7,27	14,19	8,07
		38	5,69	5,65	7,70	6,52	10,17	7,39	13,18	8,24

Qo - cooling capacity; To - boiling point; Ta - air temperature; Re - consumed power

R507A		Capacity (freezing: 3 K; heating: 10 K)								
Unit model	Range	To, °C	-30		-25		-20		-15	
		Ta, °C	Q0, kW	Pe, kW						
Alps 10HP-L	min	32	2,19	2,10	2,90	2,35	3,77	2,59	4,68	2,85
		35	2,01	2,12	2,68	2,38	3,50	2,64	4,43	2,90
		38	1,83	2,13	2,46	2,41	3,23	2,68	4,14	2,95
	max	32	7,84	6,39	10,38	7,27	13,47	8,13	16,74	9,04
		35	7,20	6,45	9,59	7,38	12,50	8,29	15,84	9,20
		38	6,56	6,49	8,79	7,47	11,53	8,43	14,77	9,38
Alps 13HP-L	min	32	2,54	2,38	3,36	2,66	4,36	2,93	5,57	3,20
		35	2,33	2,40	3,10	2,70	4,05	2,99	5,20	3,27
		38	2,12	2,42	2,85	2,73	3,74	3,04	4,82	3,35
	max	32	9,46	7,54	12,52	8,60	16,26	9,65	20,80	10,65
		35	8,68	7,61	11,57	8,73	15,10	9,84	19,37	10,92
		38	7,91	7,67	10,62	8,85	13,94	10,02	17,97	11,16
Alps 15HP-L	min	32	3,11	2,83	4,14	3,18	5,40	3,53	6,86	3,88
		35	2,85	2,85	3,82	3,23	5,00	3,60	6,46	3,96
		38	2,60	2,87	3,51	3,26	4,63	3,66	6,00	4,04
	max	32	10,60	8,33	14,08	9,54	18,33	10,74	23,30	11,92
		35	9,73	8,41	13,01	9,68	17,03	10,94	21,90	12,17
		38	8,86	8,47	11,94	9,80	15,72	11,13	20,30	12,43
Alps 17HP-L	min	32	3,11	2,83	4,14	3,18	5,37	3,54	6,63	3,92
		35	2,85	2,85	3,82	3,23	5,01	3,60	6,22	4,00
		38	2,60	2,87	3,51	3,26	4,63	3,66	5,80	4,07
	max	32	12,44	9,62	16,56	11,04	21,50	12,47	26,50	14,01
		35	11,40	9,71	15,29	11,20	20,10	12,68	24,90	14,29
		38	10,39	9,78	14,04	11,33	18,53	12,90	23,20	14,55

Qo - cooling capacity; To - boiling point; Ta - air temperature; Re - consumed power



# LOW-TEMPERATURE UNITS

## PERFORMANCE FOR VARIOUS REFRIGERANTS



R449A		Capacity (freezing: 3 K; heating: 10 K)								
Unit model	Range	To, °C	-30		-25		-20		-15	
		Ta, °C	Q0, kW	Pe, kW						
Alps 5HP-L	min	32	1,51	1,36	2,06	1,56	2,74	1,76	3,56	1,95
		35	1,40	1,37	1,92	1,58	2,57	1,79	3,36	1,99
		38	1,28	1,37	1,78	1,59	2,40	1,82	3,16	2,04
	max	32	3,02	2,39	4,13	2,78	5,49	3,18	7,13	3,56
		35	2,79	2,41	3,85	2,82	5,14	3,24	6,72	3,65
		38	2,57	2,41	3,57	2,85	4,80	3,29	6,31	3,72
Alps 6HP-L	min	32	1,88	1,63	2,58	1,89	3,43	2,15	4,33	2,46
		35	1,74	1,63	2,40	1,91	3,21	2,19	4,12	2,51
		38	1,59	1,64	2,22	1,93	3,00	2,22	3,88	2,56
	max	32	3,76	2,87	5,15	3,38	6,86	3,89	8,66	4,45
		35	3,47	2,88	4,80	3,42	6,42	3,96	8,23	4,54
		38	3,19	2,89	4,44	3,45	6,00	4,03	7,76	4,62
Alps 7HP-L	min	32	2,13	1,83	2,92	2,12	3,83	2,43	4,83	2,78
		35	1,96	1,83	2,72	2,14	3,62	2,48	4,59	2,82
		38	1,80	1,84	2,52	2,17	3,40	2,51	4,32	2,87
	max	32	4,26	3,22	5,85	3,80	7,66	4,40	9,67	5,03
		35	3,93	3,23	5,44	3,83	7,23	4,45	9,17	5,11
		38	3,60	3,22	5,03	3,85	6,81	4,50	8,65	5,19
Alps 8HP-L	min	32	2,80	2,39	3,72	2,75	4,73	3,14	5,92	3,57
		35	2,60	2,40	3,50	2,78	4,45	3,21	5,56	3,64
		38	2,40	2,41	3,28	2,80	4,24	3,24	5,31	3,69
	max	32	5,60	4,16	7,45	4,87	9,46	5,64	11,85	6,46
		35	5,20	4,18	7,00	4,92	8,90	5,73	11,13	6,58
		38	4,79	4,20	6,55	4,96	8,48	5,79	10,62	6,67
Alps 9HP-L	min	32	3,07	2,70	4,17	3,10	5,51	3,49	7,04	3,89
		35	2,85	2,72	3,89	3,13	5,18	3,55	6,68	3,97
		38	2,62	2,73	3,62	3,17	4,85	3,60	6,29	4,05
	max	32	6,14	4,84	8,34	5,18	11,03	6,38	14,08	7,18
		35	5,69	4,86	7,78	5,68	10,36	6,50	13,36	7,33
		38	5,25	4,88	7,24	5,73	9,69	6,60	12,59	7,47

Qo - cooling capacity; To - boiling point; Ta - air temperature; Re - consumed power

R507A		Capacity (freezing: 3 K; heating: 10 K)								
Unit model	Range	To, °C	-30		-25		-20		-15	
		Ta, °C	Q0, kW	Pe, kW						
Alps 10HP-L	min	32	1,88	1,73	2,58	1,99	3,41	2,25	4,31	2,54
		35	1,74	1,73	2,40	2,01	3,21	2,29	4,08	2,59
		38	1,59	1,74	2,22	2,03	3,00	2,32	3,87	2,63
	max	32	6,79	5,26	9,28	6,16	12,26	7,08	15,49	8,07
		35	6,27	5,29	8,64	6,24	11,57	7,20	14,70	8,23
		38	5,76	4,87	8,00	6,30	10,80	7,31	13,93	8,37
Alps 13HP-L	min	32	2,13	1,93	2,92	2,22	3,77	2,54	4,74	2,87
		35	1,96	1,93	2,72	2,24	3,58	2,56	4,51	2,91
		38	1,80	1,92	2,52	2,25	3,35	2,59	4,25	2,95
	max	32	8,02	6,09	11,00	7,18	14,19	8,34	17,83	9,58
		35	7,40	6,11	10,23	7,25	13,45	8,45	16,94	9,73
		38	6,79	6,10	9,48	7,30	12,59	8,55	15,96	9,88
Alps 15HP-L	min	32	2,80	2,46	3,80	2,81	5,02	3,16	6,40	3,52
		35	2,60	2,47	3,55	2,84	4,72	3,21	6,03	3,60
		38	2,40	2,48	3,30	2,87	4,42	3,26	5,74	3,66
	max	32	9,37	7,02	12,75	8,23	16,90	9,44	21,60	10,70
		35	8,67	7,06	11,89	8,33	15,86	9,61	20,30	10,95
		38	7,98	7,08	11,04	8,41	14,83	9,76	19,33	11,33
Alps 17HP-L	min	32	2,80	2,46	3,80	2,81	4,95	3,17	6,11	3,59
		35	2,60	2,47	3,55	2,84	4,69	3,22	5,90	3,63
		38	2,40	2,48	3,30	2,87	4,42	3,26	5,59	3,69
	max	32	11,21	8,31	15,20	9,70	19,81	11,14	24,40	12,77
		35	10,39	8,36	14,19	9,82	18,76	11,31	23,60	12,93
		38	9,59	8,40	13,20	9,92	17,67	11,47	22,40	13,15

Qo - cooling capacity; To - boiling point; Ta - air temperature; Re - consumed power



# OPTIONS



Heat recovery



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Oil receiver 4l



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