NEW AGE

COMPRESSOR CONDENSER UNITS

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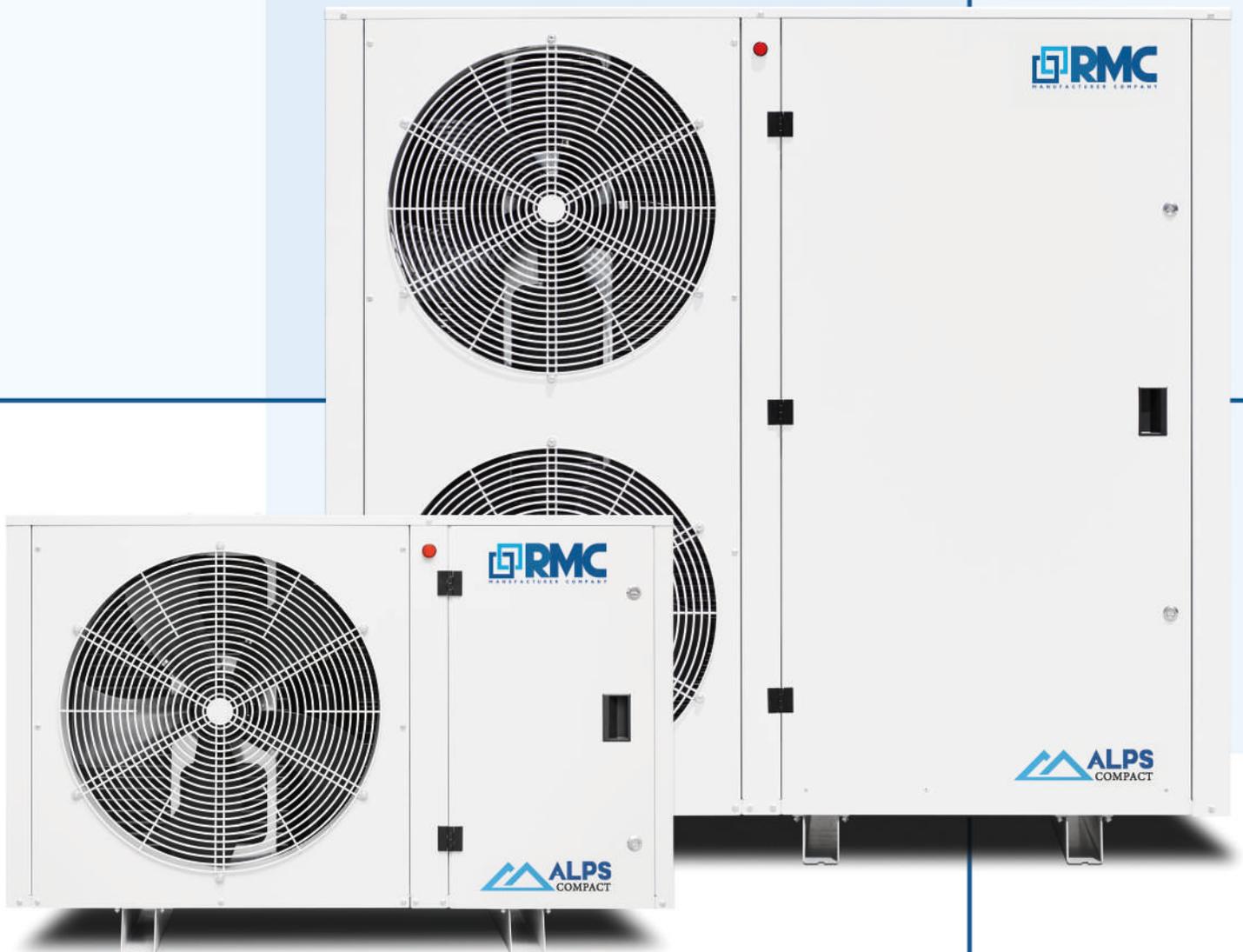
ABOUT US

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 m²
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

- ✓ Ability to select the necessary system controller

- ✓ Simple commissioning owing to the Plug&Play concept

- ✓ Monitoring system

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

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

- ✓ Convenience in maintenance owing to simplified access to system components

ALPS COMPACT

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 CRII 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

RMC
MANUFACTURER COMPANY

www.rmc-global.com

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

thermofin
heat exchangers · Germany

Bitzer

Castel
Italian technology

ZIEHL-ABEGG

ebmpapst

DEKA
controls

TECNAC

Danfoss

RMC
MANUFACTURER COMPANY

CERTIFICATES

EQUIPMENT
SERIES

AVERAGE-TEMPERATURE

Alps 5HP-M

Alps 7HP-M

Alps 8HP-M

Alps 10HP-M

Alps 10HP-M CR2

Alps 12HP-M CR2

Alps 12HP-M

LOW-TEMPERATURE

Alps 5HP-L

Alps 6HP-L

Alps 7HP-L

Alps 8HP-L

Alps 9HP-L
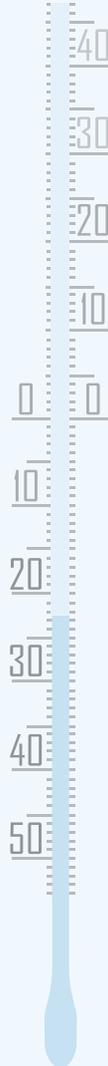
AVERAGE-TEMPERATURE

Alps 17HP-M CR2

Alps 17HP-M

Alps 21HP-M

Alps 24HP-M

Alps 27HP-M

Alps 30HP-M

LOW-TEMPERATURE

Alps 10HP-L

Alps 13HP-L

Alps 15HP-L

Alps 17HP-L

AVERAGE-TEMPERATURE

Alps 36HP-M

AVERAGE-TEMPERATURE

Alps 44HP-M
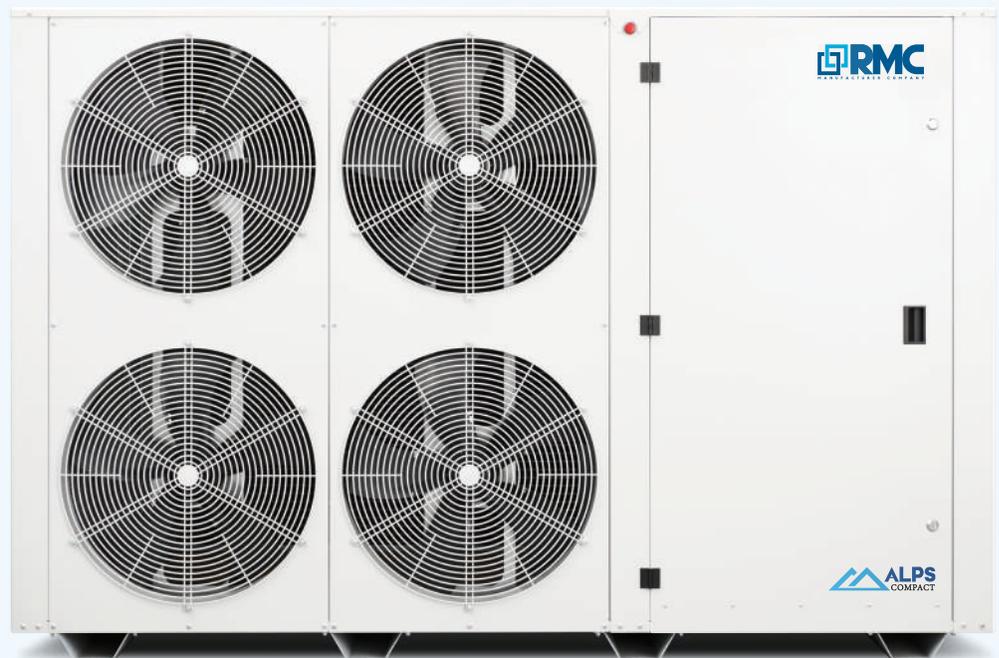
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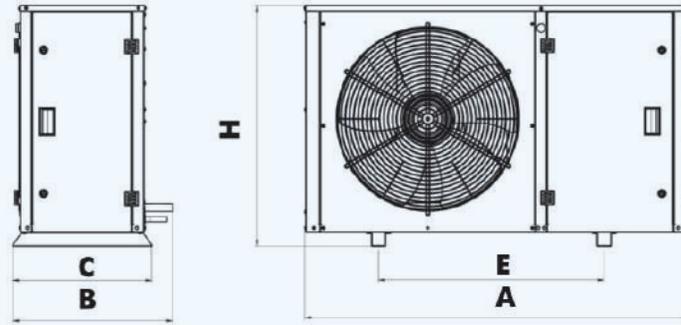
Model	Dimensions (mm)					Weight
	A	B	C	H	E	kg
Alps 5HP-M	1270	590	490	795	774	120
Alps 7HP-M	1270	590	490	795	774	125
Alps 8HP-M	1340	623	490	880	774	150
Alps 10HP-M	1340	623	490	880	774	150
Alps 10HP-M CR2	1440	658	610	890	926	240
Alps 12HP-M CR2	1440	658	610	890	926	240
Alps 12HP-M	1340	623	490	880	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
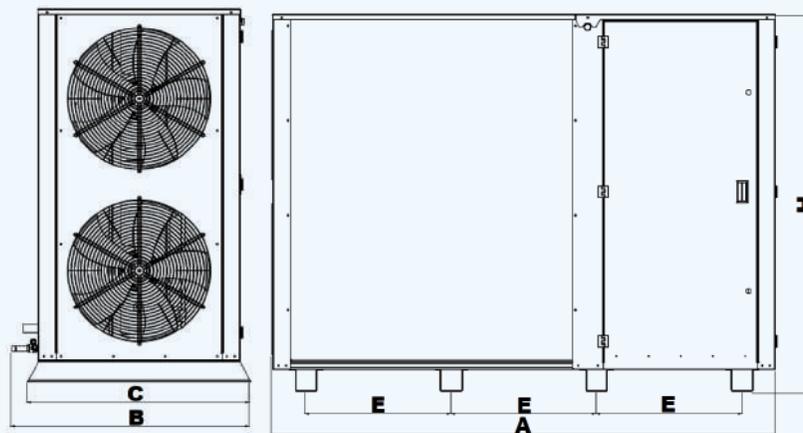
Model	Dimensions (mm)					Weight
	A	B	C	H	E	kg
Alps 36HP-M	2335	1067	998	1690	673	600
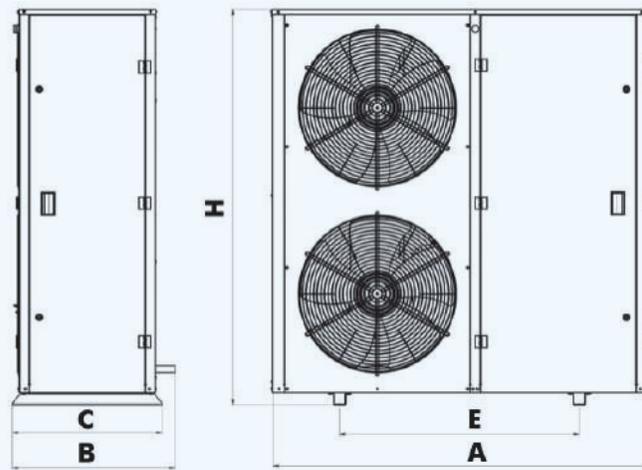
Model	Dimensions (mm)					Weight
	A	B	C	H	E	kg
Alps 17HP-M CR2	1530	665	610	1655	956	330
Alps 17HP-M	1530	665	610	1655	956	330
Alps 21HP-M	1530	665	610	1655	956	330
Alps 24HP-M	1760	883	810	1655	676/510	550
Alps 27HP-M	1760	883	810	1655	676/510	550
Alps 30HP-M	1760	883	810	1655	676/510	550
Alps 10HP-L	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
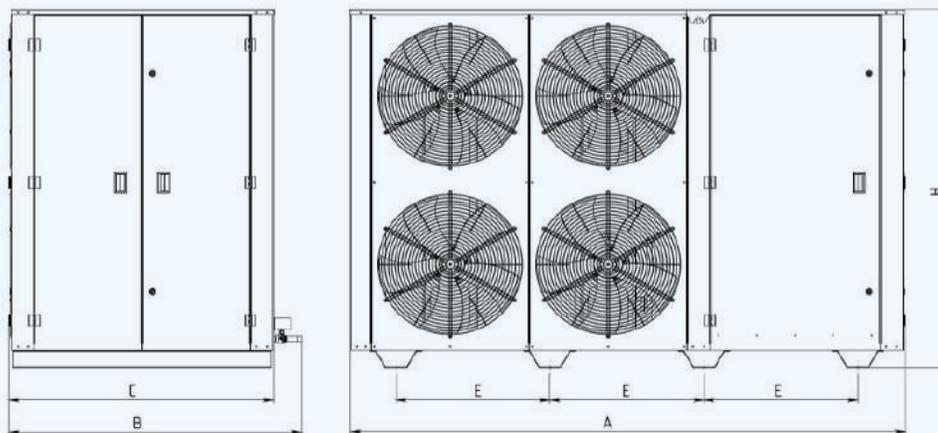
Model	Dimensions (mm)					Weight
	A	B	C	H	E	kg
Alps 44HP-M	2465	1300	1175	1635	683	950

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	m3/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	m3/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 mm2	5x2,5 mm2	5x2,5 mm2	5x2,5 mm2	5x2,5 mm2	5x2,5 mm2	5x2,5 mm2

Alps 17HP-M CR2	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

R507A		To, °C	\-15		\-10		\-5		0		5	
Unit model	Range	Ta, °C	Q0, kW	Pe, kW	Q0, kW	Pe, kW	Q0, kW	Pe, kW	Q0, kW	Pe, kW	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

RMC
MANUFACTURER COMPANY

R507A		Capacity (freezing: 3 K; heating: 10 K)									
Unit model	Range	To, °C	-15		-10		-5		0		5	
		Ta, °C	Q0, kW	Pe, kW	Q0, kW	Pe, kW	Q0, kW	Pe, kW	Q0, kW	Pe, kW	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

R449A			Capacity (freezing: 3 K; heating: 10 K)								
Unit model	Range	To, °C	-15		-10		-5		0		5	
		Ta, °C	Q0, kW	Pe, kW	Q0, kW	Pe, kW	Q0, kW	Pe, kW	Q0, kW	Pe, kW	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	Q0, kW	Pe, kW	Q0, kW	Pe, kW	Q0, kW	Pe, kW	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 5HP-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		m3/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		m3/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 mm2	5x2,5 mm2	5x2,5 mm2	5x2,5 mm2

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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 mm2	5x4,0 mm2	5x6,0 mm2	5x6,0 mm2	5x10,0 mm2

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

** TO 5…100% (OPTION)

LOW-TEMPERATURE UNITS

PERFORMANCE FOR VARIOUS REFRIGERANTS

R507A

R507A			Capacity (freezing: 3 K; heating: 10 K)							
Unit model	Range	To, °C	-30		-25		-20		-15	
		Ta, °C	Q0, kW	Pe, kW	Q0, kW	Pe, kW	Q0, kW	Pe, kW	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	61,14	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

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R507A		Capacity (freezing: 3 K; heating: 10 K)								
Unit model	Range	To, °C	-30		-25		-20		-15	
		Ta, °C	Q0, kW	Pe, kW	Q0, kW	Pe, kW	Q0, kW	Pe, kW	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

R449A		To, °C	\-30		\-25		\-20		\-15	
Unit model	Range	Ta, °C	Q0, kW	Pe, kW	Q0, kW	Pe, kW	Q0, kW	Pe, kW	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

Capacity (freezing: 3 K; heating: 10 K)

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

RMC
MANUFACTURER COMPANY

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R507A			Capacity (freezing: 3 K; heating: 10 K)							
Unit model	Range	To, °C	-30		-25		-20		-15	
		Ta, °C	Q0, kW	Pe, kW	Q0, kW	Pe, kW	Q0, kW	Pe, kW	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

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