



ALPENTA

# AAC

## Air Cooled Scroll Chillers

- Air cooled chillers
- Free-cooling option
- Air cooled heat pumps
- Air cooled condensing units

R410A



ACS  
control

Fan  
inside

ETO  
ready

Capacity range  
from 80 to 1500 kW

# AAC

## Air Cooled Scroll Chillers



**High industrial quality chillers** with free-cooling option, reversible heat pumps or condensing units to meet wide variety of applications. High variability of configurations, wide range of standard features and broad selection of additional options.

**Fan inside** – best in the class fan performance. Fully built-in fans were developed using CFD (advanced flow simulations) and provide an optimal air flow on suction and discharge side of the impeller together with noise reduction.

**ACS inside: Alpentia Control System** – Advanced control of the cooling unit via main programable microprocessor controller. Dynamic high pressure setpoint and few limitation functions maximize working efficiency on partial loads and when outside conditions are close to the working limits.

**ETO ready: Engineer-to-Order ready** – unit engineering and manufacturing process managed to meet individual requirements of energy efficiency or other project specific technical characteristics. Individual configurations are designed in Alpentia Selection Software (ASS).

## STANDARD FEATURES

**Selected features of standard execution of the unit includes:**

- **Compressors** – hermetic high efficiency scroll with axial and radial compliance, crankcase heaters, internal overheat protection and discharge temperature control.
- **Fans** – highest efficiency with optimized full bell mouth with guide vane and diffusor (meets requirements of the current ErP Directive).
- **Evaporator** – efficient braze welded stainless steel plate exchanger or shell-and-tube exchanger.
- **Condenser** – reliable aluminium fins and copper pipes exchangers.
- **Cooling circuit** – up to three circuits in one unit, condensation controlled by high pressure transducer.
- **Hydronic circuit** – differential pressure switch and water IN/OUT pressure gauge.
- **Casing** – galvanized steel sheet metal painted RAL7035 provide long lasting resistance against corrosion.
- **Electric panel** – made in accordance with standards of EN 60204-1, phase failure protection relay.
- **Communication** – RS485 Insulated interface for ModBUS® Master/Slave, BacNET® MS/TP.
- Automatic writing of parameters to microSD card.

## ACCESSORIES ON REQUEST

### Accessories available on request includes:

- Soft starters
- Remote control panel
- Control panel electric heating
- Epoxy coated condensing coils
- Refrigerant gauges
- Electronic expansion valve
- Desuperheater or full recovery
- Fan speed control – EC fans or cut phase speed control
- **Low noise execution** – compressor jackets or structural covering
- **Low temperature execution** – electrical box heaters, fan speed control and refrigerant circuit adaptation
- **Hydronic circuit accessories** – water pump, reserve water pump, expansion vessel, accumulation vessel, relief valve, shut-off valves, check valves, Victaulic kit
- Rubber or spring anti vibration mounts

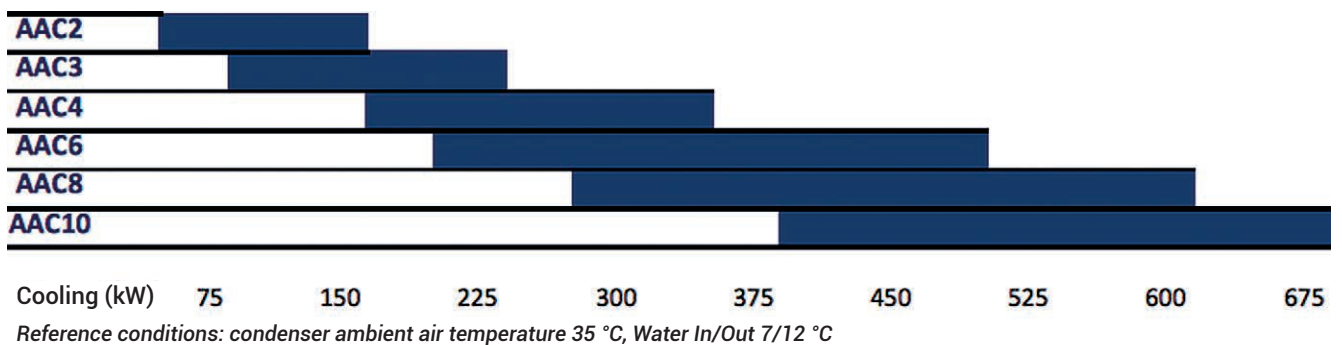
## CONFIGURATION

**AAC3 - 149C - 2PP4E**

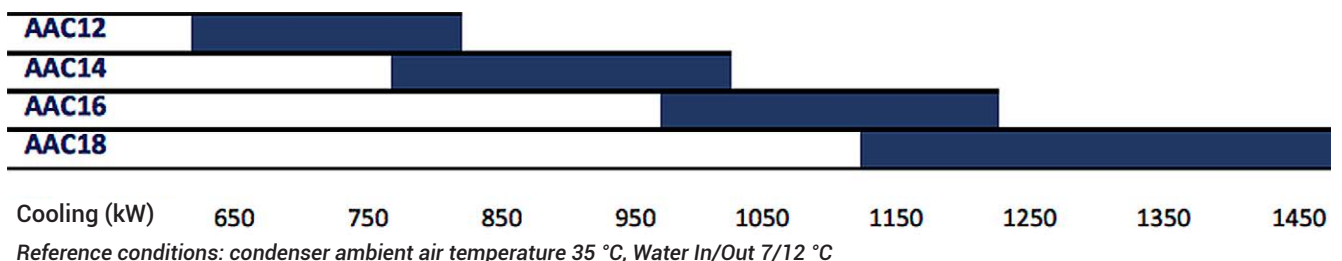
① ② ③ ④ ⑤

- ① **AAC** - Model range
- ② **3** - Model size
- ③ **149** - Nominal size – nominal compressor capacity [kW]
- ④ **C** - Device version: C - cooling; CF – cooling with free cooling; CH – cooling with reversible heat pump; CU - condensing unit; R - heat recovery option partial or full; S - special execution.
- 2PP4E - Unit configuration:**
- ⑤ **2P** – specification of compressor unit (2 – number of compressors/steps); **P** – evaporator type (P – brazed plate); **4E** – condenser specification (A – fixed fan speed, E – variable fan speed)

### AAC standard unit range covers cooling capacity:



Chiller units from AAC12 size up are individually configured based on project data in ASS (Alpenta Selection Software). The approximate range of cooling capacities of big AAC chillers is shown in the chart:



## UNIT DESCRIPTION

### Operating limits

Standard execution **cooling** works at full load down to 0 °C, with fan speed control (EC fans) and Low temperature option works down to -20 °C. In summer season the unit works up to 45°C. Protection during extreme temperatures is supervised by ACS limitations functions. Cold water setpoint depend on fluid type used, for water the minimal setpoint is 4 °C (for more details refer to the technical documentation ACS).

**Heating** mode is effective up to -15 °C and the water temperature is controlled by override function during very low temperatures. Maximal hot water production setpoint is 55 °C.

### Condensing unit control

CU unit version is externally controlled via digital or analog signals to the unit main controller. There are up to six steps of digital control, depending on compressor quantity or 0-10V analog control with pre-defined switching levels (for more details refer to the technical documentation ACS).

### External control

Every unit could be controlled by external On/Off signal to the main controller and also sends alarm signal to the external controls.

### Alpenta Control System (ACS)

Sophisticated control system ensures data collection and subsequent control in real time to ensure maximum operating efficiency with respect to energy savings and service life of technological components of the unit. Main functions of the application take care of:

- Cooling / heating power control based on measured parameters while simultaneously dynamically adapting the unit's power to maximize energy efficiency.
- Limitation of cooling / heating capacity in situations leading to operation at the limit of technological possibilities of the unit equipment.
- 3-level alarm system protection against damage caused by operation beyond the technological capabilities of the unit equipment.

### Control panel

Control panel, components and wiring made in accordance with standards EN 60204-1 electrical directive. Single point of power connection, IP 54 protection class, power phase sequence protection and optionally heated control box. Main on/off switch mounted on front panel, numbered, and signed electrical wires to facilitate maintenance and service. All power components (compressors, fans, pumps) are thermally protected.

HMI interface panel with protective cover mounted or supplied for remote installation on request.

### Controller

Main microprocessor controller pre-configured during factory test with default settings helps fast commissioning on site. Intuitive user interface with 3 level of access – user, skilled user and technician.

RS485 serial communication port allows remote management through control protocols ModBUS® or BacNET®. Optionally Ethernet port available.

### Compressors

Recognized brand hermetic scroll compressors with axial and radial compliance for superior reliability and efficiency, equipped with crankcase heaters. Low sound and vibration level compressors installed on anti-vibration mountings, optionally equipped with sound jackets or structural covering. Electronic control of discharge temperature and motor protection device against high temperature. Discharge check-valve. Compressor operating time and number of starts helps optimize sequencing and service diagnostics.

### Water heat exchanger

Stainless steel AISI 316 plate copper brazed heat exchanger or shell-and-tube exchanger externally insulated with thermal foam and located inside of the chiller casing. Victaulic or Flange type of water hydraulic connection is located outside of the unit casing.

3 step antifreeze protection by water pressure differential switch, leaving water temperature NTC sensor and refrigerant low pressure transducer with limitation function of control system.

### Air heat exchanger with fans

Reliable copper tubes / aluminium fins heat exchanger optionally protected with metallic grid protection.

Highest efficiency fans with optimized full bell mouth with guide vane and diffuser (meets requirements of directive ErP 2015). Safety fan guard fitted on air flow discharge. Fans are fully installed inside of the unit casing – flat top, reducing noise distribution and increasing condenser effectiveness. With flat top installation the suction point of the fan is closer to the condenser's central point.

Fan motor protection class F and internal temperature sensor guarantees reliability during high ambient temperatures. Fix speed and optionally variable speed via EC fans or cut phase controller.

### Heat recovery

Partial (desuperheater) or full heat recovery stainless steel brazed plate type exchangers located inside of the unit casing. The unit is equipped with an additional water heat exchanger fitted to the compressor discharge line in series or parallel to the air condenser coil. This solution allows to get energy recovery up to 25% with desuperheater or 100% of condensing heat with full recovery option. The heated water could be used for sanitary or other applications.

### Refrigerant circuit

Brazing of refrigerant circuits made under nitrogen by certified personnel. Each unit refrigerant circuit is factory pressure and leak tested and thereafter vacuumed before being charged with R410A refrigerant.

Each chiller unit is subjected to a complete functional run test to guarantee operational quality.

Cooling circuit is standardly equipped with hermetic or replaceable cartridge type of drier filter, solenoid valve, thermostatic or optionally electronic expansion valve, sight glass with moisture indicator, low pressure switch, high pressure switch with manual reset, discharge temperature sensor, high pressure and optionally low pressure transducer, pressure relief valves where required (EN 378-2) and suction line insulation.

Additionally, depending on execution of the unit, there are suction line temperature sensor, 4-way reverse valve, check valves, liquid receiver and accumulator on suction line.

### Hydronic circuit

All parts of hydraulic module are located completely inside of the chiller.

Standard parts of hydraulic circuit of a chiller consists of water entering and leaving NTC temperature sensors, water antifreeze protective differential pressure switch, water gauge with shut-off valves enabling of measurement pressure difference on the evaporator.

Optionally the chiller could be equipped with centrifugal pump (available static pressure about 200 kPa), reserve centrifugal pump with operating balancing and automatic changeover, check valves, shut-off ball valves, membrane expansion vessel with shut-off valve for maintenance, pressure relief valve, water strainer, automatic air valve and drain valve. All piping and vessels are thermally insulated with close-cell foam.

### Casing

Flat top fan installation decrease unit height and increase efficiency.

Unit casing made of galvanized steel sheet metal painted RAL 7035 powdered polyester paint. Optional rubber or spring anti vibration mounts reduce transfer of vibrations to the supporting structure.

## TECHNICAL SPECIFICATION

Model			AAC2	AAC3	AAC4	AAC6	AAC8	AAC10	AAC12	AAC14	AAC16	AAC18
Fans		n°	2	3	4	6	8	10	12	14	16	18
Accumulation vessel - volume	V	dm <sup>3</sup>	200	250	400	500	600	600	800	800	800	1000
Accumulation vessel - weight	m	kg	64	75	89	133	170	170	215	215	215	260
Expansion vessel - volume	V	dm <sup>3</sup>	18	25	25	40	50	50	50	80	80	80
Expansion vessel - weight	m	kg	9	12	12	16	25	25	25	38	38	38
Length	L	mm	1400	1400	2900	4300	5700	7100	8500	9900	11300	12700
Width	W	mm	2240	3540	2240	2240	2240	2240	2240	2240	2240	2240
Height	H	mm	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450
Electrical feed		V/Ph/Hz	400/3/50									

Unit model	Cool. cap.	El. power	EER	SEER (12/7)	Eta <sub>s,c</sub> (12/7)	SEER (18/23)	Eta <sub>s,c</sub> (18/23)	SEPR <sub>HT</sub>	Max. current	Sound press	Water flow	Press drop	Hydr. conn.	Weight
	kW	kW			%		%		A	dB(A)	m <sup>3</sup> /h	kPa		kg
<b>AAC2</b>														
AAC2-80C-2PP4E	85,4	23,6	3,65	5,14	202,6	6,19	244,6	6,71	71,2	60,2	14,7	33,2	DN65	880
AAC2-80C-2PP3E	82,9	24,5	3,41	4,82	189,8	5,76	227,3	6,47	71,2	60,2	14,3	32,9	DN65	850
AAC2-92C-2PP4E	95,4	27,8	3,56	5,02	197,8	6,03	238,1	6,62	73,9	67,2	16,4	34,5	DN65	920
AAC2-92C-2PP3E	92,6	28,8	3,31	4,69	184,4	5,58	220,1	6,37	73,9	67,2	15,9	34,1	DN65	880
AAC2-104C-2PP4E	107,8	31,1	3,47	4,90	193,0	5,87	231,6	6,53	76,6	67,2	18,6	35,9	DN65	950
AAC2-104C-2PP3E	104,6	32,3	3,24	4,59	180,7	5,45	215,1	6,30	76,6	67,2	18,0	35,5	DN65	910
AAC2-104C-2PP2E	101,4	33,6	2,95	4,20	165,1	4,94	194,7	6,01	76,6	67,2	17,5	35,2	DN65	880
AAC2-117C-2PP4E	117,9	36,3	3,28	4,65	182,8	5,52	218,0	6,34	88,6	68,2	20,3	37,0	DN65	950
AAC2-117C-2PP3E	114,3	37,7	3,05	4,34	170,5	5,12	201,7	6,11	88,6	68,2	19,7	36,6	DN65	920
AAC2-117C-2PP2E	110,7	39,3	2,80	-	-	4,68	184,3	5,86	88,6	68,2	19,1	36,2	DN65	880
AAC2-130C-2PP4E	131,2	40,3	3,26	4,62	181,7	5,49	216,6	6,32	100,6	68,2	22,6	38,3	DN65	960
AAC2-130C-2PP3E	127,2	41,9	3,04	4,32	169,9	5,10	201,0	6,10	100,6	68,2	21,9	37,9	DN65	920
AAC2-130C-2PP2E	123,3	43,7	2,55	-	-	4,25	167,2	5,61	100,6	68,2	21,2	37,5	DN65	890
AAC2-149C-2PP4E	146,1	47,5	3,09	4,39	172,6	5,19	204,5	6,15	117,3	68,2	25,2	39,8	DN65	1060
AAC2-149C-2PP3E	141,5	49,5	2,87	-	-	4,80	189,2	5,93	117,3	68,2	24,4	39,4	DN65	1020
AAC2-168C-2PP4E	164,9	53,1	3,02	4,30	168,9	5,07	199,6	6,08	134,0	68,2	28,4	41,5	DN65	1160
AAC2-191C-2PP4E	181,9	62,3	2,85	-	-	4,77	187,8	5,91	151,2	72,2	31,3	43,0	DN65	1180
<b>AAC3</b>														
AAC3-130C-2PP4E	139,1	36,9	3,65	5,14	202,6	6,19	244,6	6,71	102,2	68,2	24,0	39,1	DN65	1410
AAC3-130C-2PP3E	135,1	39,7	3,40	4,81	189,2	5,74	226,6	6,46	102,2	68,2	23,3	38,7	DN65	1350
AAC3-149C-2PP4E	155,2	44,9	3,48	4,91	193,5	5,88	232,3	6,54	118,9	68,2	26,7	40,7	DN65	1510
AAC3-149C-2PP3E	150,6	46,6	3,30	4,67	183,9	5,56	219,4	6,36	118,9	68,2	25,9	40,2	DN65	1450
AAC3-149C-2PP2E	146,1	48,4	3,00	4,27	167,8	5,03	198,2	6,06	118,9	68,2	25,2	39,8	DN65	1400
AAC3-168C-2PP4E	175,3	50,0	3,45	4,87	191,9	5,83	230,2	6,51	135,6	68,2	30,2	42,5	DN65	1610
AAC3-168C-2PP3E	170,1	52,0	3,22	4,56	179,6	5,42	213,7	6,28	135,6	68,2	29,3	42,0	DN65	1550
AAC3-168C-2PP2E	159,7	56,2	2,85	-	-	4,77	187,8	5,91	135,6	68,2	27,5	41,1	DN65	1500
AAC3-191C-2PP4E	193,6	58,7	3,30	4,67	183,9	5,56	219,4	6,36	152,8	72,2	33,3	44,0	DN65	1630
AAC3-191C-2PP3E	187,7	60,9	3,08	4,38	172,1	5,17	203,8	6,14	152,8	72,2	32,3	43,5	DN65	1570
AAC3-191C-2PP2E	181,9	63,3	2,70	-	-	4,51	177,4	5,76	152,8	72,2	31,3	43,0	DN65	1520
AAC3-194C-3PP4E	196,8	60,4	3,25	4,61	181,2	5,47	215,9	6,29	150,9	68,7	33,9	44,3	DN65	1530
AAC3-194C-3PP3E	190,9	62,8	3,04	4,32	169,9	5,10	201,0	6,08	150,9	68,7	32,9	43,8	DN65	1480
AAC3-194C-3PP2E	178,5	66,2	2,70	-	-	4,51	177,4	5,74	150,9	68,7	30,7	42,7	DN65	1420
AAC3-214C-2PP4E	210,6	67,9	3,15	4,47	175,8	5,29	208,8	6,21	170,0	72,2	36,3	45,4	DN80	1650
AAC3-214C-2PP3E	204,1	70,3	2,95	4,20	165,1	4,94	194,7	6,01	170,0	72,2	35,2	44,9	DN80	1590
AAC3-252C-3PP4E	247,3	79,6	3,01	4,28	168,3	5,05	198,9	6,05	201,0	68,7	42,6	48,2	DN80	1840
AAC3-275C-3PP4E	261,7	89,9	2,91	4,15	163,0	4,87	191,9	5,95	218,2	72,7	45,1	49,2	DN80	1850
<b>AAC4</b>														
AAC4-168C-2PP4E	180,5	49,1	3,65	5,14	202,6	6,19	244,6	6,71	137,2	68,2	31,1	42,9	DN65	1870
AAC4-168C-2PP3E	175,3	51,0	3,44	4,86	191,4	5,81	229,4	6,50	137,2	68,2	30,2	42,5	DN65	1800
AAC4-168C-2PP2E	170,1	53,0	3,15	4,47	175,8	5,29	208,8	6,21	137,2	68,2	29,3	42,0	DN65	1730
AAC4-191C-2PP4E	199,4	57,5	3,52	4,97	195,7	5,96	235,2	6,58	154,4	72,2	34,3	44,5	DN65	1890
AAC4-191C-2PP3E	193,6	59,7	3,38	4,78	188,2	5,70	225,1	6,44	154,4	72,2	33,3	44,0	DN65	1820
AAC4-191C-2PP2E	187,7	61,9	3,01	4,28	168,3	5,05	198,9	6,07	154,4	72,2	32,3	43,5	DN65	1750
AAC4-194C-3PP4E	202,7	59,1	3,50	4,94	194,6	5,92	233,8	6,54	152,5	68,7	34,9	44,7	DN80	1800
AAC4-194C-3PP2E	190,9	63,8	2,95	4,20	165,1	4,94	194,7	5,99	152,5	68,7	32,9	43,8	DN65	1650

Unit model	Cool. cap.	El. power	EER	SEER (12/7)	Eta <sub>s,c</sub> (12/7)	SEER (18/23)	Eta <sub>s,c</sub> (18/23)	SEPR <sub>HT</sub>	Max. current	Sound press	Water flow	Press drop	Hydr. conn.	Weight
	kW	kW			%		%		A	dB(A)	m <sup>3</sup> /h	kPa		kg
<b>AAC4</b>														
AAC4-214C-2PP4E	223,5	64,0	3,45	4,87	191,9	5,83	230,2	6,51	171,6	72,2	38,5	46,4	DN80	1920
AAC4-214C-2PP3E	217,0	66,4	3,27	4,63	182,3	5,51	217,3	6,33	171,6	72,2	37,4	45,9	DN80	1850
AAC4-214C-2PP2E	204,1	71,3	2,91	4,15	163,0	4,87	191,9	5,97	171,6	72,2	35,2	44,9	DN80	1770
AAC4-252C-3PP4E	255,1	77,5	3,28	4,65	182,8	5,52	218,0	6,32	202,6	68,7	43,9	48,7	DN80	2100
AAC4-252C-3PP3E	247,3	80,5	3,05	4,34	170,5	5,12	201,7	6,09	202,6	68,7	42,6	48,2	DN80	2030
AAC4-252C-3PP2E	231,2	87,1	2,65	-	-	4,42	174,0	5,69	202,6	68,7	39,8	47,0	DN80	1950
AAC4-275C-3PP4E	278,6	84,3	3,25	4,61	181,2	5,47	215,9	6,29	219,8	72,7	48,0	50,4	DN80	2130
AAC4-275C-3PP3E	270,2	87,5	3,01	4,28	168,3	5,05	198,9	6,05	219,8	72,7	46,5	49,8	DN80	2050
AAC4-275C-3PP2E	252,7	94,4	2,58	-	-	4,30	169,2	5,62	219,8	72,7	43,5	48,6	DN80	1970
AAC4-298C-3PP4E	293,0	94,4	3,11	4,42	173,7	5,22	205,9	6,15	237,0	72,7	50,5	51,4	DN80	2140
AAC4-298C-3PP3E	283,9	98,0	2,92	4,16	163,5	4,89	192,6	5,96	237,0	72,7	48,9	50,8	DN80	2070
AAC4-321C-3PP4E	315,8	101,3	3,05	4,34	170,5	5,12	201,7	6,09	254,2	72,7	54,4	52,9	DN80	2170
AAC4-207C-4PP4E	215,6	62,1	3,47	4,90	193,0	5,87	231,6	6,49	153,2	68,2	37,1	45,8	DN80	1900
AAC4-207C-4PP3E	209,2	64,6	3,24	4,59	180,7	5,45	215,1	6,26	153,2	68,2	36,0	45,3	DN80	1830
AAC4-207C-4PP2E	196,2	70,0	2,85	-	-	4,77	187,8	5,87	153,2	68,2	33,8	44,2	DN65	1750
AAC4-233C-4PP4E	243,0	69,8	3,31	4,69	184,4	5,58	220,1	6,33	177,2	69,2	41,9	47,9	DN80	1920
AAC4-233C-4PP3E	235,8	72,6	3,15	4,47	175,8	5,29	208,8	6,17	177,2	69,2	40,6	47,3	DN80	1840
AAC4-233C-4PP2E	221,4	78,6	2,80	-	-	4,68	184,3	5,82	177,2	69,2	38,1	46,2	DN80	1770
AAC4-259C-4PP4E	262,4	80,6	3,22	4,56	179,6	5,42	213,7	6,24	201,2	69,2	45,2	49,3	DN80	1930
AAC4-259C-4PP3E	254,5	83,8	3,00	4,27	167,8	5,03	198,2	6,02	201,2	69,2	43,8	48,7	DN80	1850
AAC4-259C-4PP2E	238,0	88,2	2,68	-	-	4,48	176,0	5,70	201,2	69,2	41,0	47,5	DN80	1770
AAC4-297C-4PP4E	292,1	94,9	3,08	4,38	172,1	5,17	203,8	6,10	234,6	69,2	50,3	51,3	DN80	2130
AAC4-297C-4PP3E	283,0	98,9	2,80	-	-	4,68	184,3	5,82	234,6	69,2	48,7	50,7	DN80	2050
AAC4-336C-4PP4E	319,4	110,5	2,94	4,19	164,6	4,93	194,0	5,96	268,0	69,2	55,0	53,1	DN80	2330
AAC4-382C-4PP4E	363,8	124,6	2,85	-	-	4,77	187,8	5,87	302,4	73,2	62,7	55,9	DN100	2370
<b>AAC6</b>														
AAC6-259C-4PP4E	278,2	73,8	3,72	5,23	206,4	6,32	249,7	6,74	204,4	69,2	47,9	50,4	DN80	2440
AAC6-259C-4PP3E	270,3	79,4	3,40	4,81	189,2	5,74	226,6	6,42	204,4	69,2	46,6	49,8	DN80	2330
AAC6-259C-4PP2E	254,5	85,7	3,01	4,28	168,3	5,05	198,9	6,03	204,4	69,2	43,8	48,7	DN80	2220
AAC6-321C-3PP4E	335,3	96,1	3,45	4,87	191,9	5,83	230,2	6,49	257,4	72,7	57,8	54,1	DN80	2680
AAC6-321C-3PP3E	325,6	99,7	3,26	4,62	181,7	5,49	216,6	6,30	257,4	72,7	56,1	53,5	DN80	2570
AAC6-321C-3PP2E	306,1	107,0	2,90	4,14	162,4	4,86	191,2	5,94	257,4	72,7	52,7	52,2	DN80	2460
AAC6-336C-4PP4E	350,6	100,0	3,40	4,81	189,2	5,74	226,6	6,42	271,2	69,2	60,4	55,1	DN100	2850
AAC6-336C-4PP3E	340,2	104,0	3,22	4,56	179,6	5,42	213,7	6,24	271,2	69,2	58,6	54,4	DN100	2740
AAC6-336C-4PP2E	319,4	112,4	2,84	-	-	4,75	187,1	5,86	271,2	69,2	55,0	53,1	DN80	2620
AAC6-428C-4PP4E	434,1	131,0	3,20	-	-	5,38	212,3	6,22	340,0	73,2	74,8	59,9	DN100	2930
AAC6-428C-4PP3E	421,1	135,8	3,01	-	-	5,05	198,9	6,03	340,0	73,2	72,5	59,2	DN100	2820
AAC6-310C-6PP4E	323,5	93,2	3,47	4,90	193,0	5,87	231,6	6,45	229,8	69,2	55,7	53,4	DN80	2650
AAC6-310C-6PP3E	313,8	96,9	3,24	4,59	180,7	5,45	215,1	6,22	229,8	69,2	54,0	52,7	DN80	2550
AAC6-310C-6PP2E	304,1	100,8	2,92	4,16	163,5	4,89	192,6	5,90	229,8	69,2	52,4	52,1	DN80	2440
AAC6-388C-6PP4E	393,6	120,9	3,23	4,58	180,1	5,44	214,4	6,21	301,8	70,2	67,8	57,6	DN100	2690
AAC6-388C-6PP3E	381,7	125,7	3,00	4,27	167,8	5,03	198,2	5,98	301,8	70,2	65,8	56,9	DN100	2580
AAC6-388C-6PP2E	357,0	132,4	2,62	-	-	4,37	171,9	5,60	301,8	70,2	61,5	55,5	DN100	2460
AAC6-503C-6PP4E	494,7	159,2	3,01	-	-	5,05	198,9	5,99	402,0	70,2	85,2	63,2	DN125	3300
AAC6-573C-6PP4E	545,7	187,0	2,86	-	-	4,79	188,5	5,84	453,6	74,2	94,0	65,7	DN125	3360

<b>Cool. cap.</b>	<b>kW</b>	nominal cooling capacity: water 12/7 °C, ambient temperature 35 °C
<b>Heat cap.</b>	<b>kW</b>	nominal heating capacity: water 40/45 °C, ambient temperature 7 °C
<b>El. power</b>	<b>kW</b>	electrical power consumption (without pump)
<b>EER / COP</b>		coefficient of nominal energy efficiency
<b>SEER (12/7)</b>		efficiency performance (calculation based on EN 14825:2018) - comfort low temperature, (12/7 °C), fixed water flow
<b>Etas,c (12/7)</b>	<b>%</b>	fixed outlet temp.
<b>SEER (18/23)</b>		efficiency performance (calculation based on EN 14825:2018) - comfort medium temperature, (18/23 °C), fixed water flow
<b>Etas,c (18/23)</b>	<b>%</b>	fixed outlet temp.
<b>SEPR<sub>HT</sub></b>		efficiency performance (calculation based on EN 14825:2018) - processí high temperature, fixed water flow
<b>Max. current</b>	<b>A</b>	maximal allowable current for dimensioning of power cable
<b>Sound press.</b>	<b>dB(A)</b>	sound pressure level at 10 m (in accordance ISO3744)
<b>Water flow</b>	<b>m<sup>3</sup>/h</b>	nominal water flow
<b>Press. drop</b>	<b>kPa</b>	hydraulic pressure drop of the unit
<b>Hydr. conn.</b>		hydraulic connection (threated)
<b>Weight</b>	<b>kg</b>	weight without water and additional options



ALPENTA s.r.o. has established and applies a quality system for design and manufacture of refrigeration and air conditioning equipment according to ISO 9001:2015.  
EAC units design and production have been certified according to Directive 2014/68/EU.

*Alpenta reserves the right to change the technical information for improving the product at any time without prior notice.*

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