AERMEC

NEW

ANKI

Reversible inverter heat pump Air/Water outdoor installation
Twin rotary compressor, Plate exchanger and axial fan
Cooling capacity 5,85 - 12,0 kW
Heating capacity 6,08 - 12,3 kW

R410A

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

Aermec participates in the EUROVENT programme: LCP
The products involved can be found at the website
www.eurovent-certification.com

Variable Multi Flow
VMF
Ventilatori INVERTER TECHNOLOGY

- **PRODUCTION OF HOT WATER UP TO 60 °C**
- **PRODUCTION OF HOT DOMESTIC WATER WITH EXTERNAL TEMPERATURES FROM –20 °C UP TO 42 °C**

Features

Reversible outdoor inverter heating pump for air-conditioning systems where, in addition to cooling rooms, high temperature hot water is required for heating or for the production of hot domestic water.
All the units are equipped with rotary compressors, axial fans, external coil with aluminium fins, and a
plate heat exchanger on the side. The base, the structure and the panels are made of steel treated with polyester anti-corrosion paints.
They are also available with an integrated hydronic unit, thereby simplifying also the final installation because it just need to be connected electrically and hydraulically to be able to start it.

Versions
ANKI H: Standard
ANKI HX: With inverter pump

Range of operations
Working at full load up to -20°C outside air temperature in winter, and up to 46°C in summer. Hot water production up to 60°C (for more information see the technical documentation)
- Single circuit.
- The units are equipped with the soft start, an electronic device to reduce the peack current.
- Flow switch, high and low pressure transducers fitted as standard.
- Water filter supplied
- Option of an integrated hydronic unit, which contains the main hydraulic components.
- Micro-processor adjustment Electronic board

Accessories

- **MOD845K**: RS-485 interface for supervising systems with MODBUS protocol.
- **AERWEB300:** Accessory AERWEB allows remote control of a chiller through a common PC and an ethernet connection over a common browser; 4 versions available:
  AERWEB300-6: Web server to monitor and remote control max. 6 units in RS485 network;
  AERWEB300-18: Web server to monitor and remote control max. 18 units in RS485 network;
  AERWEB300-6G: Web server to monitor and remote control max. 6 units in RS485 network with integrated GPRS modem;
  AERWEB300-18G: Web server to monitor and remote control max. 18 units in RS485 network with integrated GPRS modem;
  SDHW: Domestic hot water temperature sensor. Used with the storage tank to control the temperature of water produced.
- **PGD1:** Simplified remote panel. Allows control of basic unit functions and alarm notification.
- **PR3**: Simplified remote panel. Permits control of the basic unit functions (on/off and change of operating mode, diagnostics and alarm reset). Maximum distance permitted is 30 m with screened cable, otherwise up to 10 m.
- **BSKW:** Electric heater kit with IP44 panel for remote mounting in a sheltered area.
- **DCPX**: Low temperature device for correct cooling mode operation with ambient temperatures
- **BDX**: Condensate drip tray.
- **VT**: Anti-vibration mounts.

Accessories for the production of HDW with Thermal buffer Aermec

- **SAF:** Thermal Buffer tank kit with instantaneous Domestic Hot Water production.
- **VTV160:** 3-way diverter sector valve, complete with 2-point actuator, (kvs = 16).
- **KRX-SAF:** supplementary electric heater with thermostat control from 1200W 230V/1/50Hz with connexion of 1" 1/2

Production of HDW with Thermal buffer not supplied from Aermec

For further information, refer to specific VMF documentation

Accessories factory fitted only
- **KR**: Electric anti-freeze resistance for plate heat exchanger.
- **KRB**: Electric anti-freeze resistance kit for base; prevents the formation of ice on the base.

COMPATIBILITY with the VMF SYSTEM
For further information about the system see the specific documentation.

Accessory compatibility

ANKI		vers	020	025	040	045
MOD845K			•	•	•	•
AERWEB300			•	•	•	•
PGD1			•	•	•	•
PR3			•	•	•	•
BS4KW230M			•	•	•	•
BS6KW230M			•	•	•	•
DCPX	(1)		71	71	71	71
BDX			30	30	30	30
VT		**H/HX**	9	9	9	9
SAF	(2)		•	•	•	•
VTV160			•	•	•	•
KRX-SAF			•	•	•	•
Accessories factory fitted only						
KR2			•	•	•	•
KRB1			•	•	•	•

(1) **Not use the accessory DCPX for units with fans "J or F"**
(2) For more information, see the commercial documentation available on the website www.aermec.com

Unit Configurator

By suitably combining the numerous options available it is possible to configure each model in such a way as to meet the most particular of system requirements.

Field	Code
1,2,3,4	ANKI
5,6,7	**Size**
	020-025-040-045
8	**Model**
	H Heat pump
9	**Versions**
	° Standard
	X With inverter pump
10	**Heat recovery**
	° Without heat recovery
11	**Coil fin**
	° Aluminium
	V In painted aluminium-copper (epoxy paint)
	O Aluminium with Cataphoresis treatment
12	**Fans**
	° Standard
	J Inverter
	F Standard phase cut
13	**Field of use**
	° Standard (leaving water temperature down to -8°C)
14	**Evaporator**
	° Standatd
15	**Power supply**
	M 230V/1/50Hz
16	**Filed not used**
	°

Technical Data

ANKI - H				020	025	040	045
	V/ph/Hz				230V~50Hz		
12°C / 7°C	Cooling capacity	(1)	kW	5,85	7,31	9,39	11,78
	Total input power	(1)	kW	1,96	2,61	3,15	4,22
	EER	(1)		2,98	2,80	2,98	2,79
	ESEER	(1)		4,15	4,10	4,06	4,10
	Cooling Energy Class Eurovent	(1)		A	A	A	A
	Water flow rate	(1)	l/h	1026	1258	1622	2017
	Pressure drop	(1)	kPa	16	22	13	19
40°C / 45°C	Heating capacity	(2)	kW	6,23	7,80	9,35	12,33
	Total input power	(2)	kW	1,93	2,46	3,06	4,12
	COP	(2)		3,22	3,17	3,05	3,00
	Heating Energy Class Eurovent	(2)		A	B	B	B
	Water flow rate	(2)	l/h	1062	1351	1646	2124
	Pressure drop	(2)	kPa	14	21	10	17
	Performance under average climatic conditions (Average)						
	Pdesignh	(3)		6	7	8	11
	SCOP	(3)		2,87	2,89	2,57	2,56
	ηs	(3)		112	113	100	100
	Efficiency Energy Class	(5)		A+	A+	A+	A+
	Pdesignh	(4)		6	7	9	12
	SCOP	(4)		3,57	3,55	3,41	3,20
	ηs	(4)		140	139	133	125
	Efficiency Energy Class	(5)		A+	A+	A+	A+

ANKI - HX				020	025	040	045
	V/ph/Hz				230V~50Hz		
12°C / 7°C	Cooling capacity	(1)	kW	6,00	7,49	9,59	12,00
	Total input power	(1)	kW	1,89	2,52	3,04	4,09
	EER	(1)		3,18	2,97	3,16	2,93
	ESEER	(1)		4,89	5,01	4,78	4,79
	Cooling Energy Class Eurovent	(1)		A	A	A	A
	Water flow rate	(1)	l/h	1026	1258	1622	2017
	High static pressure	(1)	kPa	74	68	76	61
40°C / 45°C	Heating capacity	(2)	kW	6,08	7,61	9,16	12,11
	Total input power	(2)	kW	1,86	2,36	2,95	3,98
	COP	(2)		3,28	3,23	3,10	3,04
	Heating Energy Class Eurovent	(2)		A	A	B	B
	Water flow rate	(2)	l/h	1062	1351	1646	2124
	High static pressure	(2)	kPa	76	69	77	60
	Performance under average climatic conditions (Average)						
	Pdesignh	(3)		5	7	8	11
	SCOP	(3)		2,91	2,95	2,62	2,61
	ηs	(3)		113	115	102	101
	Efficiency Energy Class	(5)		A+	A+	A+	A+
	Pdesignh	(4)		6	7	9	12
	SCOP	(4)		3,83	3,82	3,61	3,36
	ηs	(4)		150	150	141	131
	Efficiency Energy Class	(5)		A++	A++	A+	A+

Date (14511:2013)

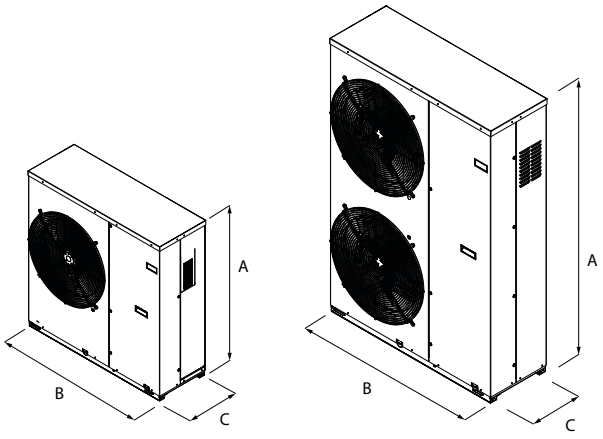
(1) Water evaporator 12°C/7°C, External air 35°C
(2) Water condenser 40°C/45°C, External air 7°C b.s./6°C b.u.
(3) Efficiencies for average temperature Applications (55°C)
(4) Efficiencies for low temperature Applications (35°C)
(5) Efficiency Energy Class in according to regulation n°811/2013 Pdesignh ≤ 70kW

Technical Data

					020	025	040	045
Electrical data								
230V	Total input current (cooling)	(8)	°	A	8,3	11,1	13,5	18,1
230V	Total input current (heating)	(8)	°	A	10,5	13,2	17,6	0,0
230V	Maximum current (FLA)	(8)	°	A	12,1	14,1	20,0	23,6
230V	Starting current (LRA)	(8)	°	A	8,0	8,0	10,0	10,0
230V	Total input current (cooling)	(8)	X	A	9,0	11,8	14,3	18,8
230V	Total input current (heating)	(8)	X	A	11,2	13,9	18,4	0,8
230V	Maximum current (FLA)	(8)	X	A	12,9	14,9	20,8	24,4
230V	Starting current (LRA)	(8)	X	A	8,8	8,8	10,8	10,8
Compressor								
Compressor Inverter twin rotary				n°	1			
Circuit				n°	1			
Refrigerant				Type	R410A			
Heat exchanger system side								
Exchanger				Type/n°	Plate/1			
hydraulic connections (In/Out)				Ø	1"			
Axial fans								
Fans				Type/n°	1	1	2	2
Air flow rate (cooling)					3590	3590	7480	7480
Sound data (cooling mode)								
Sound power level				dB(A)	64,0	65,4	66,7	67,7
Sound pressure level				dB(A)	32,7	34,1	35,4	36,3

Sound power Aermec determines sound power values on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification.
Sound pressure Sound pressure in free field, at 10 m distance from the external surface of the unit (in accordance with UNI EN ISO 3744).
Note: For more information, refer to the selection program or the technical documentation available on the website www.aermec.com

Dimensions (mm)



ANKI				020	025	040	045
Height	(A)	All	mm	1028	1028	1481	1481
Width	(B)	All	mm	1000	1000	1000	1000
Depth	(C)	All	mm	346	346	346	346
Weight		H	kg	80	80	113	113
		HX	kg	82	82	115	115

Cod.: SANKIUY03 /1609

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