

ANKI 020/080

Reversible inverter heat pump.
Air/Water outdoor installation.
Inverter compressor, plate exchanger.
Axial fan.
Cooling capacity 5,9÷18,9 kW.
Heating capacity 6,1÷20,3 kW.



- **PRODUCTION OF HOT WATER UP TO 60°C.**
- **PRODUCTION OF HOT DOMESTIC WATER WITH EXTERNAL TEMPERATURES FROM -20°C TO 42°C.**
- **EASY AND QUICK INSTALLATION.**

FEATURES

The reversible air/water heat pumps of the ANKI series are suitable for outdoor installation, and are designed for heating/cooling requirements and the production of domestic hot water, producing water as hot as 60°C. These single-circuit units are equipped with twin rotary inverter compressors, axial fans, external copper coils 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. ANKI can be installed in systems with any water-operated terminal, and it is also available with an integrated hydronic kit, facilitating the final installation.

Compatible with the VMF system.

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)

- 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

MOD485K

RS-485 interface for supervising systems with MODBUS protocol.

MULTICONTROL:

Allows the simultaneous control of several chillers or heat pumps (up to 4) fitted with our MODUCONTROL controller and installed in the same hydraulic system. For complete control the following accessories are available:

SPLW

System water temperature sensor. In most cases the loose supplied sensors for each chiller/heat pump are sufficient. In cases of a common flow/return header this sensor can be used to control the common system supply water temperature for the chillers connected to the header, or it can be used for temperature monitoring.

SDHW

Domestic hot water temperature sensor. Used with the storage tank to control the temperature of water produced. VMF-CRP to predict accessory for the management of the probes SPLW / SDHW if provided with the MULTICONTROL

DCPX

Low temperature device for correct cooling mode operation with ambient temperatures with outdoor temperatures below 20°C up to -10°C.

BDX

Condensate drip tray.

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.

VT

Anti-vibration mounts.

SAF

Thermal Buffer tank for the instantaneous production of domestic hot water. Refer to the dedicated "SAF" card for more information necessary for the correct operation of the system, as well as details on the required or recommended accessories. Please consult the VMF system for the production of DHW with Thermal Accumulator not supplied by Aermec.

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	070	075	080
MOD485K		*	*	*	*	*	*	*
MULTICONTROL		*	*	*	*	*	*	*
SPLW	(1)	*	*	*	*	*	*	*
SDHW	(1)	*	*	*	*	*	*	*
PR3		*	*	*	*	*	*	*
PGD1		*	*	*	*	*	*	*
BS4KW230M		*	*	*	*	-	-	-
BS6KW230M		*	*	*	*	-	-	-
BS6KW400T		-	-	-	-	*	*	*
BS9KW400T		-	-	-	-	*	*	*
DCPX	(2)	71	71	71	71	71	71	71
BDX		30	30	30	30	5	5	5
VT	H/HX	9	9	9	9	9	9	9
SAF	(3)	*	*	*	*	*	*	*
ACCESSORIES FACTORY FITTED ONLY								
KR2		*	*	*	*	*	*	*
KRB1		*	*	*	*	-	-	-
KRB2		-	-	-	-	*	*	*

(1) Probes required with MULTICONTROL to manage the following additional functions: SPLW for secondary plant management, SDHW for DHW management

(2) Not use the accessory DCPX for units with fans "J or F"

(3) For more information, see the commercial documentation available on the website www.aermec.com

UNIT CONFIGURATOR

UNIT	ANKI
SIZE	020-025-040-045-070-075-080
MODEL	
H	Heat pump
VERSION	
°	Standard
X	With inverter pump
HEAT RECOVERY	
°	Without heat recovery
COIL FIN	
°	Aluminium
V	In painted aluminium-copper (epoxy paint)
FANS	
°	Standard
J	Inverter
F	Standard phase cut
FIELD OF USE	
°	Standard (leaving water temperature down to -8°C)
PLATE EXCHANGER	
°	Standard
POWER SUPPLY	
2	380/3/60 ±5% with circuit breaker
6	220/3/60 ±5% with circuit breaker
7	440/3/60 ±5% with circuit breaker

TECHNICAL DATA

ANKI - H			020	025	040	045	070	075	080
12°C / 7°C	Cooling capacity	(1) kW	5,85	7,31	9,39	11,78	13,7	16,4	18,6
	Total input power	(1) kW	1,96	2,61	3,15	4,22	4,80	6,15	7,62
	EER	(1)	2,98	2,80	2,98	2,79	2,86	2,67	2,44
	ESEER	(1)	4,15	4,10	4,06	4,10	4,20	4,17	4,12
	Water flow rate	(1) l/h	1026	1258	1622	2017	2375	2845	3222
	Pressure drop	(1) kPa	16	22	13	19	17	25	31
40°C / 45°C	Heating capacity	(2) kW	6,23	7,80	9,35	12,33	15,4	17,8	20,3
	Total input power	(2) kW	1,93	2,46	3,06	4,12	4,85	6,06	7,27
	COP	(2)	3,22	3,17	3,05	3,00	3,17	2,93	2,80
	Water flow rate	(2) l/h	1062	1351	1646	2124	2633	3041	3471
	Pressure drop	(2) kPa	14	21	10	17	17	23	30

ANKI - HX			020	025	040	045	070	075	080
12°C / 7°C	Cooling capacity	(1) kW	6,00	7,49	9,59	12,00	14,0	16,7	18,9
	Total input power	(1) kW	1,89	2,52	3,04	4,09	4,65	5,99	7,47
	EER	(1)	3,18	2,97	3,16	2,93	3,01	2,79	2,53
	ESEER	(1)	4,89	5,01	4,78	4,79	4,65	4,65	4,59
	Water flow rate	(1) l/h	1026	1258	1622	2017	2375	2845	3222
	High static pressure	(1) kPa	74	68	76	61	81	61	41
40°C / 45°C	Heating capacity	(2) kW	6,08	7,61	9,16	12,11	15,10	17,50	20,05
	Total input power	(2) kW	1,86	2,36	2,95	3,98	4,70	5,92	7,14
	COP	(2)	3,28	3,23	3,10	3,04	3,21	2,96	2,81
	Water flow rate	(2) l/h	1062	1351	1646	2124	2633	3041	3471
	High static pressure	(2) kPa	76	69	77	60	70	50	27

- (1) Water evaporator 12°C/7°C, External air 35°C
(2) Water condenser 40°C/45°C, External air 7°C d.b./6°C wet bulb

Electrical data			020	025	040	045	070	075	080
FLA	°	A							please contact us
LRA	°	A							please contact us
MCA	°	A							please contact us
MOP	°	A							please contact us
FLA	X	A							please contact us
LRA	X	A							please contact us
MCA	X	A							please contact us
MOP	X	A							please contact us
Inverter Compressor									
Compressor	Type	twin rotary	twin rotary	twin rotary	twin rotary	Scroll	Scroll	Scroll	
Compressor	n°	1	1	1	1	1	1	1	
Circuit	n°	1	1	1	1	1	1	1	
Refrigerant gas	Type	R410A	R410A	R410A	R410A	R410A	R410A	R410A	
Heat exchanger system side - Plate									
Exchanger	n°	1	1	1	1	1	1	1	
hydraulic connections (In/Out)	Ø	1"	1"	1"	1"	1"	1"	1"	
Axial fans									
Fans	n°	1	1	2	2	2	2	2	
Air flow rate (cooling)	m³/h	3590	3590	7480	7480	7350	7350	7350	
Sound data (cooling mode)									
Sound power level	dB(A)	64,0	65,4	66,7	67,7	67,7	69,0	69,0	
Sound pressure level	dB(A)	32,7	34,1	35,4	36,3	36,3	37,6	37,6	

Sound power Aermec determines sound power values on the basis of measurements.

Sound pressure Sound pressure in free field, at 10 m distance from the external surface of the unit.

Note: For more information, refer to the selection program or the technical documentation available on the website www.aermec.com

DIMENSIONS AND WEIGHT

ANKI			020	025	040	045	070	075	080
A	All	mm	1028	1028	1481	1481	1481	1481	1481
B	All	mm	1000	1000	1000	1000	1000	1000	1000
C	All	mm	346	346	346	346	450	450	450
Empty weight	H	kg	80	80	113	113	174	174	174
	HX	kg	82	82	115	115	178	178	178