NRK 0200-0700

Reversible air/water heat pump

Cooling capacity 35,5 ÷ 148 kW
Heating capacity 42,31 ÷ 175 kW

- **Water produced up to +65 °C**
- **Heating operations with external temperatures down to -20 °C**
- **Optimized for operation in heating mode**

DESCRIPTION

Reversible air/water heat pump for air conditioning systems with cold water production for cooling rooms and hot water for heating and/or domestic hot water services, suitable for connection with small or medium users.
It's optimised for use in heating mode, and can be combined not only with low-temperature emission systems such as floor heating or fan coils, but also conventional radiators.
Equipped with scroll compressors, axial fans, external coil with aluminium louvers, plate heat exchanger on the side.
The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

VERSIONS

A High efficiency
E Silenced high efficiency

FEATURES

Operating field

Working at full load up to -20 °C outside air temperature in winter, and up to 48 °C in summer. Hot water production up to 65 °C.

Version with Integrated hydronic kit

Integrated hydronic kit containing the main hydraulic components; available with various configurations to obtain a solution that allows you to facilitate installation.

Components

Water filter,flow switch, low and high pressure transducers as standard supply on all units.

Condensation control temperature

Fitted as standard with a device for electronic condensation control so that the unit can work even with low temperatures, adapting the air flow rate to the actual system request in order to reduce consumption.

CONTROL PCO_5

Microprocessor control, with keyboard and LCD display, for easy access on the unit with a menu available in several languages.
— Adjustment includes complete management of the alarms and their log.
— Possibility to control two units in a Master-Slave configuration
— The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.
— The temperature control takes place with the integral proportional logic, based on the water output temperature.

ACCESSORIES

AER485P1: RS-485 interface for supervising systems with MODBUS protocol. 1 accessory is provided for each unit control board.
AERBAC-ONE: Ethernet communication interface for Bacnet/IP and Modbus TCP/IP protocols, HTTPS protocol for web interface, encrypted communication protocols and access credential management in accordance with the latest standards. One accessory is provided for each unit control board.
AERBACP: Ethernet communication interface for Bacnet/IP and Modbus TCP/IP protocols. 1 accessory is provided for each unit control board.
AERLINK: Aerlink is a WiFi gateway with an RS485 serial port that allows a wide range of Aermec products (heat pumps/chillers/system controllers) equipped with this interface to connect easily and securely to a Wi-Fi network. It works both as an access point (AP access point) and as a client (WiFi Station), it can be connected to a single generator or system centraliser, allowing anyone to easily integrate them into any network. Thanks to the AerApp and AerPlants apps, which can be used on Android and iOS platforms, the remote management of the air conditioning systems developed by Aermec becomes intuitive and simple.
AERNET: The device remotely controls, manages and remotely monitors a chiller/heat pump using a PC, smartphone or table via a Cloud connection. AERNET acts as Master while each connected unit is configured as Slave up to a maximum of 6 control cards. The connection is made via cable and/or USB key. Wi-Fi connectivity is not available. It is also possible to save a log file with all the data from the connected units to your terminal with a simple click for possible post-analysis. With the purchase of the Router, the Customer benefits from a 24-month free period during which he can use the Aernet Service at no additional cost. At the end of this initial period, the Service may be renewed by subscribing to a 1, 2 or 3 year subscription. For further details on costs and renewal methods, please contact our office or consult the technical documentation available on our website. www.aermec.com.
BMConverter: The BMConverter accessory consists of the FPC-N54 network device which allows units that communicate via the Modbus RTU protocol on RS485, to be controlled by a third-party BMS system via the BACNet TCP-IP protocol.

MULTICHILLER-EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel (max. no. 9), always ensuring constant flow rate to the evaporators.
PGD1: Allows you to control the unit at a distance.
SGD: Electronic expansion that enables connecting to the photovoltaic system and heat pumps to accumulate heat in the DHW tank or in the heating system during the photovoltaic production phase and release it at times when heating demand is highest.
PR4: Remote panel with LCD display and touch keyboard that allows carrying out the basic controls, the programming of time ranges and the signalling of the alarms of a single unit.

The accessory PR4 should only be combined with the RS485 communication interface when the serial port is occupied by another device.

GP: Anti-intrusion grid.
VT: Anti-vibration supports.

FACTORY FITTED ACCESSORIES

DRE: Electronic device for peak current reduction.
RIF: Power factor correction. Connected in parallel to the motor allowing about 10% reduction of input current.
T6: Double safety valve with exchange cock, both on the high and low pressure branches.
PRM1: It is a manual pressure switch electrically wired in series with the existing automatic high pressure switch on the compressor discharge pipe.
C-TOUCH: 7", touch screen keyboard, which allows to navigate intuitively among the various screens, allowing to modify the operating parameters and graphically view the progress of some variables in real time.
AERCALM: The aim of the accessory installed in the electric box of the unit is to provide a clean contact for commanding - on the basis of the outside air temperature - a boiler to replace the heat pump. Aercalm must be requested at the time of ordering, as it is installed in the factory.

COMPATIBILITY WITH VMF SYSTEM

For more information about VMF system, refer to the dedicated documentation.

ACCESSORIES COMPATIBILITY

Model	Ver	0200	0280	0300	0330	0350	0500	0550	0600	0650	0700
AER485P1	A					•	•	•	•	•	•
	E	•	•	•	•	•	•	•	•	•	•
AERBAC-ONE	A					•	•	•	•	•	•
	E	•	•	•	•	•	•	•	•	•	•
AERBACP	A					•	•	•	•	•	•
	E	•	•	•	•	•	•	•	•	•	•
AERLINK	A					•	•	•	•	•	•
	E	•	•	•	•	•	•	•	•	•	•
AERNET	A					•	•	•	•	•	•
	E	•	•	•	•	•	•	•	•	•	•
BMConverter	A					•	•	•	•	•	•
	E	•	•	•	•	•	•	•	•	•	•
MULTICHILLER-EVO	A					•	•	•	•	•	•
	E	•	•	•	•	•	•	•	•	•	•
PGD1	A					•	•	•	•	•	•
	E	•	•	•	•	•	•	•	•	•	•
SGD	A					•	•	•	•	•	•
	E	•	•	•	•	•	•	•	•	•	•

Remote panel

Model	Ver	0200	0280	0300	0330	0350	0500	0550	0600	0650	0700
PR4	A					•	•	•	•	•	•
	E	•	•	•	•	•	•	•	•	•	•

The accessory PR4 should only be combined with the RS485 communication interface when the serial port is occupied by another device.

GP: anti-intrusion grid

Ver	0200	0280	0300	0330	0350	0500	0550	0600	0650	0700
A	-	-	-	-	GP2 x 2 (1)	GP2 x 2 (1)	GP2 x 2 (1)	GP2 x 2 (1)	GP2 x 3 (1)	GP2 x 3 (1)
E	GP3	GP3	GP4	GP4	GP2 x 2 (1)	GP2 x 2 (1)	GP2 x 2 (1)	GP2 x 2 (1)	GP2 x 3 (1)	GP2 x 3 (1)

(1) x _ indicates the quantity to buy

VT: Antivibration

Ver	0200	0280	0300	0330	0350	0500	0550	0600	0650	0700
Integrated hydronic kit: 00, P1, P2, P3, P4										
A	-	-	-	-	VT11	VT11	VT11	VT11	VT22	VT22
E	VT17	VT17	VT17	VT17	VT11	VT11	VT11	VT11	VT22	VT22
Integrated hydronic kit: 01, 02, 03, 04, 05, 06, 07, 08										
A	-	-	-	-	VT11	VT11	VT11	VT11	VT22	VT22
E	VT13	VT13	VT13	VT13	VT11	VT11	VT11	VT11	VT22	VT22

DRE: Device for peak current reduction

Ver	0200	0280	0300	0330	0350	0500	0550	0600	0650	0700
A	-	-	-	-	DRE351 (1)	DRE501 (1)	DRE551 (1)	DRE601 (1)	DRE651 (1)	DRE701 (1)
E	DRE201 (1)	DRE281 (1)	DRE301 (1)	DRE331 (1)	DRE351 (1)	DRE501 (1)	DRE551 (1)	DRE601 (1)	DRE651 (1)	DRE701 (1)

(1) Only for supplies of 400V 3N ~ 50Hz and 400V 3 ~ 50Hz. x 2 or x 3 (if present) indicates the quantity to be ordered.
A grey background indicates the accessory must be assembled in the factory

RIF: Power factor correction

Ver	0200	0280	0300	0330	0350	0500	0550	0600	0650	0700
A	-	-	-	-	RIF65	RIF58	RIF59	RIF60	RIF61	RIF61
E	RIF55	RIF56	RIF54	RIF57	RIF65	RIF58	RIF59	RIF60	RIF61	RIF61

A grey background indicates the accessory must be assembled in the factory

Double safety valves

Ver	0200	0280	0300	0330	0350	0500	0550	0600	0650	0700
A	-	-	-	-	T6NRK1	T6NRK2	T6NRK3	T6NRK3	T6NRK3	T6NRK3
E	T6NRK1	T6NRK1	T6NRK1	T6NRK1	T6NRK1	T6NRK2	T6NRK3	T6NRK3	T6NRK3	T6NRK3

A grey background indicates the accessory must be assembled in the factory

PRM1: Manually reset pressure switch

Ver	0200	0280	0300	0330	0350	0500	0550	0600	0650	0700
A	-	-	-	-	PRM1	PRM1	PRM1	PRM1	PRM1	PRM1
E	PRM1	PRM1	PRM1	PRM1	PRM1	PRM1	PRM1	PRM1	PRM1	PRM1

A grey background indicates the accessory must be assembled in the factory

7", touch screen keyboard

Model	Ver	0200	0280	0300	0330	0350	0500	0550	0600	0650	0700
C-TOUCH	A					•	•	•	•	•	•
	E	•	•	•	•	•	•	•	•	•	•

Clean contact for controlling a boiler.

Model	Ver	0200	0280	0300	0330	0350	0500	0550	0600	0650	0700
AERCALM	A					•	•	•	•	•	•
	E	•	•	•	•	•	•	•	•	•	•

CONFIGURATOR

Field	Description
1,2,3	**NRK**
4,5,6,7	**Size** 0200, 0280, 0300, 0330, 0350, 0500, 0550, 0600, 0650, 0700
8	**Operating field (1)**
°	Standard mechanic thermostatic valve
9	**Model**
H	Heat pump
10	**Heat recovery**
D	With desuperheater (2)
°	Without heat recovery
11	**Version**
A	High efficiency
E	Silenced high efficiency
12	**Coils**
R	Copper pipes-copper fins
V	Copper pieps-Coated aluminium fins
°	Copper-aluminium
13	**Fans**
J	Inverter (3)
M	Oversized (4)
°	Standard (5)
14	**Power supply**

Field	Description
°	400V 3N ~ 50Hz
15,16	**Integrated hydronic kit**
00	Without hydronic kit
01	Storage tank with low head pump
02	Storage tank with low head pump + stand-by pump
03	Storage tank with high head pump
04	Storage tank with high head pump + stand-by pump
05	Storage tank with holes for heaters and single low head pump (6)
06	Storage tank with holes for heaters and pump low head + stand-by pump (6)
07	Storage tank with holes for heaters and single high head pump (6)
08	Storage tank with holes for heaters and pump high head + stand-by pump (6)
P1	Single pump low head
P2	Pump low head + stand-by pump
P3	Single pump high head
P4	Pump high head + stand-by pump

(1) Water produced up to +4 °C
(2) The desuperheater must be isolated in heating mode. In cooling mode, a water temperature no lower than 35°C must always be guaranteed on the heat exchanger inlet.
(3) Standard for size 0200÷0330, without useful static pressure. Option for size 0350÷0700 with useful static pressure.
(4) Option available only for size 0200÷0330.
(5) As standard in sizes fom 0350÷0700.
(6) Storage tanks with holes for supplementary heaters (not provided) are sent from the factory with plastic protection caps. Before loading the system, if the installation of one or all resistances is not expected, all plastic caps must be replaced with the special caps, commonly commercially available.

PERFORMANCE SPECIFICATIONS 12 °C/ 7 °C - 40 °C/ 45 °C

NRK - A / 12/7 °C - 40/45 °C

Size		0350	0500	0550	0600	0650	0700
Fans: °							
Cooling performance 12 °C / 7 °C (1)							
Cooling capacity	kW	75,4	88,8	101,6	117,4	133,4	148,1
Input power	kW	25,4	29,5	34,4	41,0	45,0	52,6
Cooling total input current	A	55,30	60,70	66,10	71,80	86,50	107,40
EER	W/W	2,97	3,01	2,95	2,86	2,97	2,82
Water flow rate system side	l/h	12.983	15.278	17.488	20.211	22.975	25.516
Pressure drop system side	kPa	23	26	32	28	34	42
Heating performance 40 °C / 45 °C (2)							
Heating capacity	kW	87,9	103,9	118,9	136,6	155,6	174,4
Input power	kW	25,5	30,2	34,7	39,9	45,6	51,7
Heating total input current	A	54,40	59,40	64,30	69,80	84,60	105,60
COP	W/W	3,45	3,44	3,42	3,42	3,41	3,37
Water flow rate system side	l/h	15.236	18.010	20.602	23.680	26.988	30.254
Pressure drop system side	kPa	32	36	44	37	45	57

(1) Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C
(2) Data EN 14511:2022; System side water heat exchanger 40 °C / 45 °C; Outside air 7 °C d.b. / 6 °C w.b.

NRK - E / 12/7 °C - 40/45 °C

Size		0200	0280	0300	0330
Fans: J					
Cooling performance 12 °C / 7 °C (1)					
Cooling capacity	kW	35,6	50,4	59,5	66,1
Input power	kW	11,7	17,4	19,5	22,3
Cooling total input current	A	27,70	37,90	42,20	48,60
EER	W/W	3,05	2,90	3,05	2,96
Water flow rate system side	l/h	6.131	8.670	10.235	11.379
Pressure drop system side	kPa	18	17	23	19
Heating performance 40 °C / 45 °C (2)					
Heating capacity	kW	42,2	59,7	69,4	78,2
Input power	kW	12,0	17,0	19,9	22,4
COP	W/W	3,50	3,50	3,49	3,49
Heating total input current	A	24,30	33,50	37,90	43,60
Water flow rate system side	l/h	7.318	10.355	12.032	13.569
Pressure drop system side	kPa	24	22	30	25

(1) Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C
(2) Data EN 14511:2022; System side water heat exchanger 40 °C / 45 °C; Outside air 7 °C d.b. / 6 °C w.b.

Size		0350	0500	0550	0600	0650	0700
Fans: °							
Cooling performance 12 °C / 7 °C (1)							
Cooling capacity	kW	74,4	87,4	99,8	114,5	130,8	145,3
Input power	kW	27,6	32,4	38,1	45,8	49,5	58,1
Cooling total input current	A	60,40	66,80	73,20	71,80	95,30	118,70
EER	W/W	2,69	2,70	2,62	2,50	2,64	2,50
Water flow rate system side	l/h	12.801	15.035	17.175	19.713	22.512	25.033
Pressure drop system side	kPa	22	25	30	27	32	41
Heating performance 40 °C / 45 °C (2)							
Heating capacity	kW	87,9	103,9	118,9	136,6	155,6	174,4
Input power	kW	25,5	30,2	34,7	39,9	45,6	51,7
COP	W/W	3,45	3,44	3,42	3,42	3,41	3,37
Heating total input current	A	54,40	59,40	64,30	69,80	84,60	105,60
Water flow rate system side	l/h	15.236	18.010	20.602	23.680	26.988	30.254
Pressure drop system side	kPa	32	36	44	37	45	57

(1) Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C
(2) Data EN 14511:2022; System side water heat exchanger 40 °C / 45 °C; Outside air 7 °C d.b. / 6 °C w.b.

PERFORMANCE SPECIFICATIONS 23 °C/ 18 °C - 30 °C/ 35 °C

NRK - A / 23/18 °C - 30/35 °C

Size		0350	0500	0550	0600	0650	0700
Fans: °							
Cooling performance 23 °C / 18 °C (1)							
Cooling capacity	kW	93,2	108,2	122,7	143,0	165,0	181,0
Input power	kW	26,4	30,7	35,9	43,3	47,0	55,1
Cooling total input current	A	57,10	62,70	68,50	75,30	89,90	111,80
EER	W/W	3,54	3,53	3,42	3,30	3,51	3,28
Water flow rate system side	l/h	16.111	18.705	21.231	24.719	28.513	31.266
Pressure drop system side	kPa	35	39	47	42	52	63
Heating performance 30 °C / 35 °C (2)							
Heating capacity	kW	86,4	101,5	114,6	132,6	150,2	170,5
Input power	kW	20,6	24,5	27,8	31,7	37,0	41,9
Heating total input current	A	44,00	48,00	51,30	55,30	68,40	85,40
COP	W/W	4,19	4,15	4,13	4,19	4,06	4,06
Water flow rate system side	l/h	14.931	17.533	19.787	22.919	25.938	29.467
Pressure drop system side	kPa	31	34	41	35	42	54

(1) Data EN 14511:2022; System side water heat exchanger 23 °C/ 18 °C; External air 35 °C
(2) Data EN 14511:2022; System side water heat exchanger 30 °C / 35 °C; External air 7 °C d.b. / 6 °C w.b.

NRK - E / 23/18 °C - 30/35 °C

Size		0200	0280	0300	0330
Fans: J					
Cooling performance 23 °C / 18 °C (1)					
Cooling capacity	kW	44,2	61,5	72,1	80,9
Input power	kW	12,2	18,2	20,4	23,5
Cooling total input current	A	28,70	39,60	44,00	51,00
EER	W/W	3,64	3,37	3,53	3,44
Water flow rate system side	l/h	7.643	10.631	12.470	13.977
Pressure drop system side	kPa	28	26	34	29
Heating performance 30 °C / 35 °C (2)					
Heating capacity	kW	41,4	57,2	67,2	75,7
Input power	kW	9,4	13,3	15,8	18,1
Heating total input current	A	18,90	26,10	30,00	35,20
COP	W/W	4,41	4,31	4,26	4,18
Water flow rate system side	l/h	7.156	9.895	11.618	13.083
Pressure drop system side	kPa	23	20	28	23

(1) Data EN 14511:2022; System side water heat exchanger 23 °C/ 18 °C; External air 35 °C
(2) Data EN 14511:2022; System side water heat exchanger 30 °C / 35 °C; External air 7 °C d.b. / 6 °C w.b.

Size		0350	0500	0550	0600	0650	0700
Fans: °							
Cooling performance 23 °C / 18 °C (1)							
Cooling capacity	kW	91,9	106,5	120,6	139,5	161,7	177,5
Input power	kW	28,7	33,6	39,7	48,3	51,7	60,8
Cooling total input current	A	62,40	69,00	75,90	75,30	99,00	123,60
EER	W/W	3,20	3,16	3,04	2,89	3,13	2,92
Water flow rate system side	l/h	15.886	18.408	20.850	24.110	27.939	30.673
Pressure drop system side	kPa	34	37	44	40	49	62
Heating performance 30 °C / 35 °C (2)							
Heating capacity	kW	86,4	101,5	114,6	132,6	150,2	170,5
Input power	kW	20,6	24,5	27,8	31,7	37,0	41,9
Heating total input current	A	44,00	48,00	51,30	55,30	68,40	85,40
COP	W/W	4,19	4,15	4,13	4,19	4,06	4,06
Water flow rate system side	l/h	14.931	17.533	19.787	22.919	25.938	29.467
Pressure drop system side	kPa	31	34	41	35	42	54

(1) Data EN 14511:2022; System side water heat exchanger 23 °C/ 18 °C; External air 35 °C
(2) Data EN 14511:2022; System side water heat exchanger 30 °C / 35 °C; External air 7 °C d.b. / 6 °C w.b.

ENERGY DATA

Size			0200	0280	0300	0330
Fans: J						
SEER - 12/7 (EN14825: 2018)						
SEER	A	W/W	-	-	-	-
	E	W/W	3,40	3,30	3,48	3,39
Seasonal efficiency	A	%	-	-	-	-
	E	%	133,00	128,80	136,10	132,50
Water Regulation (1)	A	type	-	-	-	-
	E	type	FW/VO	FW/VO	FW/VO	FW/VO

(1) VW/VO - variable water flow rate/variable outlet temperature; FW/VO - fixed water flow rate/variable outlet temperature; VW/FO - variable water flow rate/fixed outlet temperature; FW/FO - fixed water flow rate/fixed outlet temperature.

Size			0350	0500	0550	0600	0650	0700
Fans: °								
SEER - 12/7 (EN14825: 2018)								
SEER	A	W/W	3,45	3,52	3,46	3,42	3,44	3,33
	E	W/W	3,35	3,42	3,34	3,29	3,35	3,27
Seasonal efficiency	A	%	134,80	137,60	135,20	133,70	134,60	130,00
	E	%	130,90	133,70	130,60	128,70	130,90	127,90
Water Regulation (1)	A,E	type	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO

(1) VW/VO - variable water flow rate/variable outlet temperature; FW/VO - fixed water flow rate/variable outlet temperature; VW/FO - variable water flow rate/fixed outlet temperature; FW/FO - fixed water flow rate/fixed outlet temperature.

Size			0200	0280	0300	0330
Fans: J						
Performance in average ambient conditions (average) - 35 °C (1)						
Efficiency energy class	A		-	-	-	-
	E		A++	A+	A+	-
Pdesignh	A	kW	-	-	-	-
	E	kW	42,00	58,00	67,00	75,00
SCOP	A	W/W	-	-	-	-
	E	W/W	3,88	3,75	3,70	3,68

(1) Efficiencies for low temperature applications (35 °C)
(2) VW/VO - variable water flow rate/variable outlet temperature; FW/VO - fixed water flow rate/variable outlet temperature; VW/FO - variable water flow rate/fixed outlet temperature; FW/FO - fixed water flow rate/fixed outlet temperature.
(3) Efficiencies for average temperature applications (55 °C)

Size			0200	0280	0300	0330
ηsh	A	%	-	-	-	-
	E	%	152,00	147,00	145,00	144,00
Water Regulation (2)	A	type	-	-	-	-
	E	type	FW/VO	FW/VO	FW/VO	FW/VO
Performance in average ambient conditions (average) - 55 °C (3)						
Efficiency energy class	A		-	-	-	-
	E		A+	A+	A+	-
Pdesignh	A	kW	-	-	-	-
	E	kW	44,00	62,00	70,00	80,00
SCOP	A	W/W	-	-	-	-
	E	W/W	3,08	3,03	3,00	3,03
ηsh	A	%	-	-	-	-
	E	%	120,00	118,00	117,00	118,00
Water Regulation (2)	A	type	-	-	-	-
	E	type	FW/VO	FW/VO	FW/VO	FW/VO

(1) Efficiencies for low temperature applications (35 °C)
(2) VW/VO - variable water flow rate/variable outlet temperature; FW/VO - fixed water flow rate/variable outlet temperature; VW/FO - variable water flow rate/fixed outlet temperature; FW/FO - fixed water flow rate/fixed outlet temperature.
(3) Efficiencies for average temperature applications (55 °C)

Size			0350	0500	0550	0600	0650	0700
Fans: °								
Performance in average ambient conditions (average) - 35 °C (1)								
Efficiency energy class	A,E		-	-	-	-	-	-
Pdesignh	A,E	kW	84,00	99,00	113,00	131,00	149,00	168,00
SCOP	A,E	W/W	3,43	3,40	3,70	3,70	3,38	3,33
ηsh	A,E	%	134,00	133,00	145,00	145,00	132,00	130,00
Water Regulation (2)	A,E	type	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO
Performance in average ambient conditions (average) - 55 °C (3)								
Efficiency energy class	A,E		-	-	-	-	-	-
Pdesignh	A,E	kW	89,00	106,00	121,00	137,00	157,00	178,00
SCOP	A,E	W/W	2,88	2,90	3,03	3,03	2,93	2,90
ηsh	A,E	%	112,00	113,00	118,00	118,00	114,00	113,00
Water Regulation (2)	A,E	type	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO	FW/VO

(1) Efficiencies for low temperature applications (35 °C)
(2) VW/VO - variable water flow rate/variable outlet temperature; FW/VO - fixed water flow rate/variable outlet temperature; VW/FO - variable water flow rate/fixed outlet temperature; FW/FO - fixed water flow rate/fixed outlet temperature.
(3) Efficiencies for average temperature applications (55 °C)

ELECTRIC DATA

Size			0200	0280	0300	0330	0350	0500	0550	0600	0650	0700
Electric data												
Maximum current (FLA)	A	A	-	-	-	-	75,0	85,0	94,0	114,0	144,0	147,0
	E	A	40,0	49,0	61,0	74,0	75,0	85,0	94,0	114,0	144,0	147,0
Peak current (LRA)	A	A	-	-	-	-	216,0	226,0	191,0	228,0	285,0	288,0
	E	A	124,0	146,0	175,0	215,0	216,0	226,0	191,0	228,0	285,0	288,0

GENERAL TECHNICAL DATA

Refrigerant circuit

Size			0200	0280	0300	0330	0350	0500	0550	0600	0650	0700
Fans: J												
Compressor												
Type	A,E	type	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Compressor regulation	A,E	Type	On-Off	On-Off	On-Off	On-Off	On-Off	On-Off	On-Off	On-Off	On-Off	On-Off
Number	A,E	no.	2	2	2	2	2	3	4	4	4	4
Circuits	A,E	no.	2	2	2	2	2	2	2	2	2	2
Refrigerant	A,E	type	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Total refrigerant charge (1)	A,E	kg	13,60	15,60	16,40	16,40	23,00	28,50	29,00	29,00	39,00	40,00
Potential global heating (GWP)	A,E		2088	2088	2088	2088	2088	2088	2088	2088	2088	2088
Equivalent CO_2	A,E	tCO_2eq	28,40	32,57	34,24	34,24	48,02	59,51	60,55	60,55	81,43	83,52

(1) The load indicated in the table is an estimated and preliminary value. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office.

System side heat exchanger

Size			0200	0280	0300	0330	0350	0500	0550	0600	0650	0700
System side heat exchanger												
Type	A,E	type	Brazed plate									
Number	A,E	no.	1	1	1	1	1	1	1	1	1	1
Hydraulic connections												
Connections (in/out)	A,E	Type	Grooved joints									
Sizes (in/out)	A,E	Ø	2½"									

Fans

Size			0200	0280	0300	0330	0350	0500	0550	0600	0650	0700
Fans: J												
Fan												
Type	A,E	type	axials	axials	axials	axials	-	-	-	-	-	-
Fan motor	A,E	type	Inverter	Inverter	Inverter	Inverter	-	-	-	-	-	-
Number	A,E	no.	4	6	8	8	-	-	-	-	-	-
Air flow rate	A,E	m^3/h	14.000	20.000	26.000	26.000	-	-	-	-	-	-

Size			0200	0280	0300	0330	0350	0500	0550	0600	0650	0700
Fans: M												
Fan												
Type	A,E	type	axials	axials	axials	axials	-	-	-	-	-	-
Fan motor	A,E	type	On-Off	On-Off	On-Off	On-Off	-	-	-	-	-	-
Number	A,E	no.	4	6	8	8	-	-	-	-	-	-
Air flow rate	A,E	m^3/h	14.000	20.000	26.000	26.000	-	-	-	-	-	-

Size			0200	0280	0300	0330	0350	0500	0550	0600	0650	0700
Fans: °												
Fan												
Type	A,E	type	-	-	-	-	axials	axials	axials	axials	axials	axials
Fan motor	A,E	type	-	-	-	-	On-Off	On-Off	On-Off	On-Off	On-Off	On-Off
Number	A,E	no.	-	-	-	-	2	2	2	2	3	3
Air flow rate	A	m^3/h	-	-	-	-	37.000	36.500	36.500	36.500	58.000	58.000
	E	m^3/h	-	-	-	-	21.100	21.400	22.400	22.400	31.900	31.900

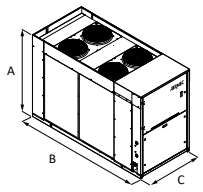
Sound data

Size			0200	0280	0300	0330	0350	0500	0550	0600	0650	0700
Sound data calculated in cooling mode (1)												
Sound power level	A	dB(A)	-	-	-	-	82,0	82,0	82,0	83,0	85,0	85,0
	E	dB(A)	74,0	74,0	75,0	75,0	74,0	74,0	74,0	75,0	77,0	77,0

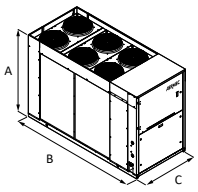
(1) Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

DIMENSIONS

NRK 0200



NRK 0280



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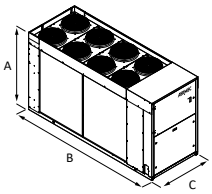

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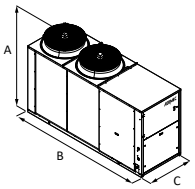

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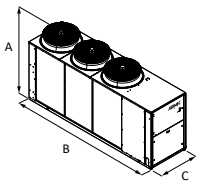

Size			0200	0280	0300	0330	0350	0500	0550	0600	0650	0700
Dimensions and weights												
A	A	mm	-	-	-	-	1.875	1.875	1.875	1.875	1.875	1.875
	E	mm	1.606	1.606	1.606	1.606	1.875	1.875	1.875	1.875	1.875	1.875
B	A	mm	-	-	-	-	3.330	3.330	3.330	3.330	4.330	4.330
	E	mm	2.700	2.700	3.200	3.200	3.330	3.330	3.330	3.330	4.330	4.330
C	A	mm	-	-	-	-	1.100	1.100	1.100	1.100	1.100	1.100
	E	mm	1.100	1.100	1.100	1.100	1.100	1.100	1.100	1.100	1.100	1.100
Dimensions and weights for transport												
A	A	mm	-	-	-	-	2.027	2.027	2.027	2.027	2.039	2.039
	E	mm	1.735	1.735	1.758	1.758	2.027	2.027	2.027	2.027	2.039	2.039
B	A	mm	-	-	-	-	3.395	3.395	3.395	3.395	4.387	4.387
	E	mm	2.760	2.760	3.260	3.260	3.395	3.395	3.395	3.395	4.387	4.387
C	A	mm	-	-	-	-	1.170	1.170	1.170	1.170	1.170	1.170
	E	mm	1.160	1.160	1.160	1.160	1.170	1.170	1.170	1.170	1.170	1.170

Size			0200	0280	0300	0330	0350	0500	0550	0600	0650	0700
Integrated hydronic kit: 00												
Weights												
Empty weight	A	kg	-	-	-	-	1.067	1.213	1.274	1.316	1.495	1.530
	E	kg	761	833	913	920	1.067	1.213	1.274	1.316	1.495	1.530

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