# NRP





Multipurpose air cooled units with inverter axial fans. For external installation. High efficiency version.





**MULTIPURPOSE NRP** 

## The NRP series from Aermec. A value choice.

The NRP series represents for Aermec an entry into the world of heat pump units of the multipurpose type: units that allow simultaneous production of chilled water and hot water in the most versatile and efficient way.

The NRP Multipurpose heat pump is capable of satisfying simultaneously and independently all the requirements for cooling, heating and hot water for domestic hot water purpose. All this in the most rational and efficient way: the multipurpose heat pump units are the most efficient current technology because they extract the maximum recovery of heat of condensation; heat that would otherwise be rejected to the external ambient.

The NRP heat pumps are therefore the units most suitable for 4 pipe systems (simultaneous demands for heating and cooling) and for 2 pipe systems + domestic hot water (simultaneous heating and production of domestic hot water; simultaneous cooling and production of domestic hot water).



# Aermec technology has a heart. And it is green.

- Simultaneous and independent production of hot water and cold water
- Production of hot water for domestic hot water purpose all year round
- Very high energy efficiency, particularly at part load, through the multipurpose logic and the MultiScroll Technology
- Maximum reliability through the MultiCircuit system
- Extremely simplified plant: reduced time and cost of installation
- Units fitted as standard with axial fans Inverter EC Motor

**-40%** 

#### **Primary energy** annual saving

Compared to traditional chiller + boiler installation -8dB(A) -35%

#### Average noise level reduction

Of Extra Low Noise models compared to standard models

#### **Installation cost** reduction

Compared to traditional chiller + boiler installation **-40%** 

# Reduction of CO<sub>2</sub> emissions

Carbon dioxide is responsible for the greenhouse warming effect



# Green Comfort, versatility and savings. Aermec technology. To the service of air and water.

# Cooling and heating simultaneously and independently

The Aermec NRP Multipurpose heat pump is the ideal choice for all applications that have simultaneous and independent requirements for heating and cooling . In general modern buildings in the commercial, lodging and health care sectors have heating and cooling demands not directly linked with seasonal variations. This creates the need to provide simultaneous and independent chilled water for space cooling and dehumidification and hot water for space heating and/or for the production of domestic hot water. The Aermec NRP Multipurpose heat pump unit does all this: it is the unit most suitable for 4 pipe systems (simultaneous requests for cooling and heating) and for 2 pipe systems + domestic hot water.



# Maximum savings economic/energy

The Aermec NRP Multipurpose heat pump unit is the most efficient choice from the energy and running cost point of view.

Aermec is the most efficient choice from the energy and running cost point of view.

The simultaneous production of hot water and of chilled water allows the free recovery of the heat of condensation which would otherwise be rejected outdoors.

At the times of simultaneous demand for heating and cooling the NRP heat pump unit reaches maximum efficiency because it simply transfers energy from the spaces to be cooled to the spaces to be heated or to the domestic hot water. The multiscroll technology serves to further increase the energy efficiency especially at part load.



#### **Extremely simplified plant**

The Aermec NRP Multipurpose heat pump unit allows the utmost simplification of the plant and to significantly reduce the time and cost of installation.

Through the multipurpose technology the installation requires no gas: a gas fired boiler is not required.

NRP makes available hot water for heating and domestic hot water throughout the year, independently and also simultaneously to the demands for chilled water.



#### **Environmental respect**

With the multipurpose technology and use of non-ozone depleting refrigerant R410A, the NRP series is a friend to the environment. R410A is also a thermodynamically high efficiency refrigerant which allows, together with the use of scroll compressors, to reduce CO2 emissions. Adding the savings for cooling, heating and production of domestic hot water the emissions of CO2 compared to a traditional chiller + boiler system are reduced by 40%.



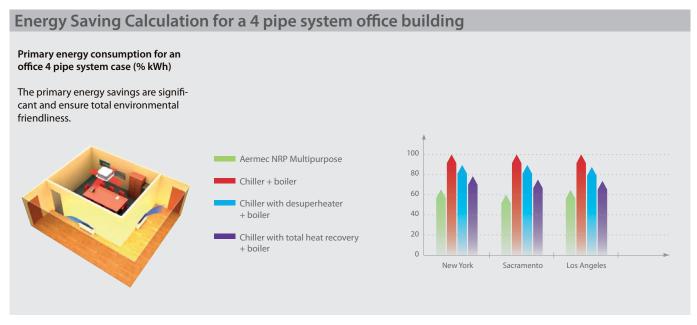
#### **TER: Total Efficiency Ratio**

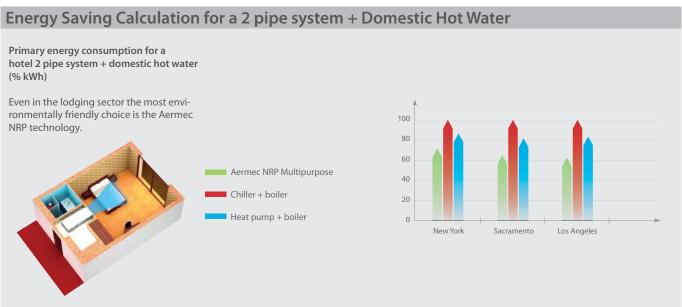
The energy efficiency of traditional heat pump units is measured by the parameters of EER for cooling mode and COP for heating mode. For the new multipurpose type of heat pumps a parameter is required that takes into account the simultaneous production of hot water and chilled water. This new parameter is the TER (Total Efficiency Ratio), defined as the ratio between the total capacity produced simultaneously (heating and cooling) and the electrical power input to the unit: TOTAL EFFICIENCY RATIO: TER = (Heating Capacity + Cooling Capacity) / Electrical Power Input Looking at the technical data for the NRP series it can be seen that the TER values are significantly higher than the values for COP and EER: this demonstrates the overall very high efficiency that a multipurpose heat pump unit can achieve compared to a traditional heat pump without heat recovery. The project designer (in close collaboration with the architect) can therefore achieve the maximum energy savings, optimally balancing the heating and cooling needs for the system installation.



# The ideal solution for public and residential buildings.

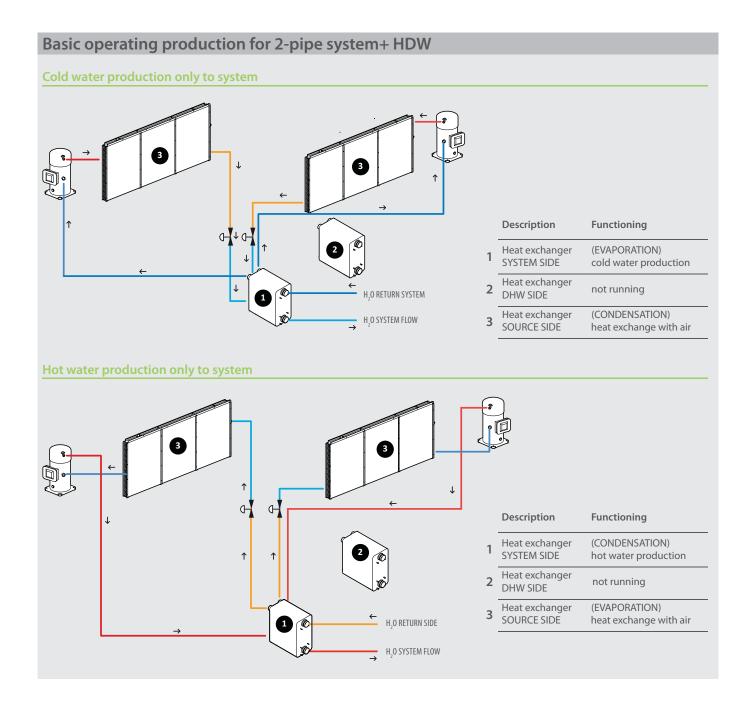
NRP is the most rational and efficient choice for all buildings that typically have heating capacity and cooling capacity demands for the whole year, such as: hospitals, hotels, and buildings for residential use. The NRP Multipurpose heat pump is the most convenient solution from an energy saving point of view for both 4 pipe systems and 2 pipe systems with hot water for domestic hot water purpose production. The following graphs show the results obtained in different american geographical locations and for various system installations (4 pipe system for offices – 2 pipe system + domestic hot water for hotels). The results are extraordinary: the Aermec NRP multipurpose technology is shown as the most economical and environmentally friendly.





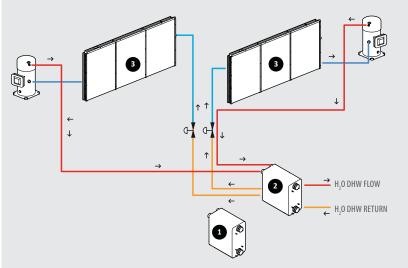
# Description of operation.

The NRP Multipurpose operating schematics are detailed for various 2 pipe and 4 pipe systems.



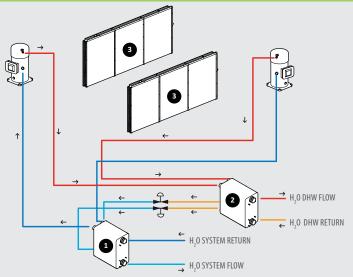
#### Basic operating production for 2-pipe system+ HDW

#### **Production hot water only to DHW**



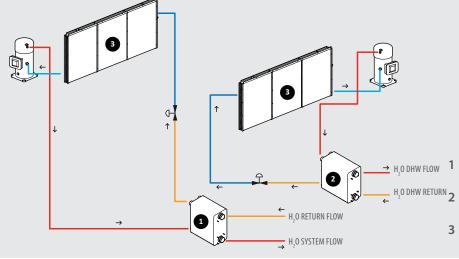
	Description	Functioning
1	Heat exchanger SYSTEM SIDE	not running
2	Heat exchanger DHW SIDE	(CONDENSATION) DHW production
3	Heat exchanger SOURCE SIDE	(EVAPORATION) Heat exchange with air

#### Production cold water to system and hot water to DHW



	Description	Functioning
1	Heat exchanger SYSTEM SIDE	(EVAPORATION) cold water production
2	Heat exchanger DHW SIDE	(CONDENSATION) DHW production
3	Heat exchanger SOURCE SIDE	not running

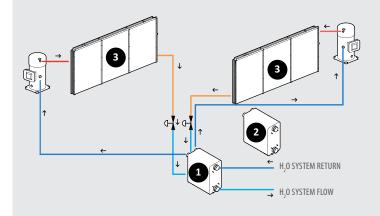
#### Production hot water to system and hot water to DHW



	Description	Functioning
1	Heat exchanger SYSTEM SIDE	(CONDENSATION) hot water production
2	Heat exchanger DHW SIDE	(CONDENSAZIONE) DHW production
3	Heat exchanger SOURCE SIDE	(EVAPORAZIONE) heat exchange with air

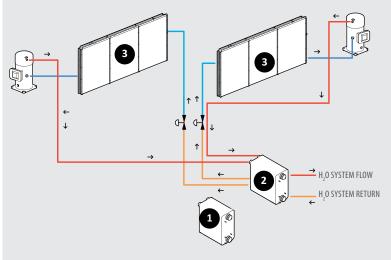
#### Basic operating layout for 4-pipe system

#### Cold water production only to system



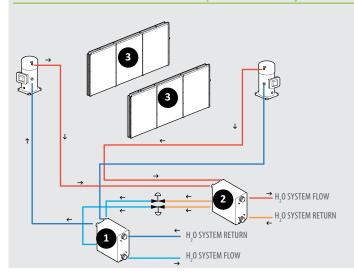
	Description	Functioning
1	Heat exchanger COOLING SIDE	(EVAPORATION) cold water production
2	Heat exchanger HEATING SIDE	not running
3	Heat exchanger SOURCE SIDE	(CONDENSATION) heat exchange with air

#### Hot water production only to system



	Description	Functioning
1	Exchanger COOLING SIDE	not running
2	Exchanger HEATING SIDE	(CONDENSATION) hot water production
3	Heat exchanger SOURCE SIDE	(EVAPORATION) heat exchange with air

#### Silmutaneous hot and cold water production to system



	Description	Functioning
1	Exchanger COOLING SIDE	(EVAPORATION) cold water production
2	Exchanger HEATING SIDE	(CONDENSATION) hot water production
3	Heat Exchanger SOURCE EXCHANGE	ER not running

## TER is the new name for energy efficiency



= (Heating Capacity + Cooling Capacity) / Electrical Power Input

Looking at the technical data for the NRP series it can be seen that the TER values are significantly higher than the values for COP and EER: this demonstrates the overall very high efficiency that a multipurpose heat pump unit can achieve compared to a traditional heat pump without heat recovery. The project designer (in close collaboration with the architect) can therefore achieve the maximum energy savings, optimally balancing the heating and cooling needs for the system installation.



(\*) Note this high value compared to traditional heat pump COP and EER values.

#### **Technical features**

NRP is the range of multipurpose external units operating on refrigerant R410A, designed for 2 or 4-pipe systems. With just one unit simultaneous and independent requests for hot and chilled water can be accommodated all year round.

Units fitted as standard with Inverter EC - Motor which permits operation in the winter with external temperatures down to -10 °C, and in heating mode with external temperatures up to 42 °C.

#### Available versions:

- "A" High efficiency heat pump.
- "E" High efficiency low noise heat pump. Options for integrated hydronic modules with pumps, buffer tank, water filter, flow switch, expansion tank.

Microprocessor controls.

#### Range:

- Refrigerant R410A.
- 2 refrigerant circuits.
- High efficiency even at part load.
- Heat exchangers optimised to benefit from the excellent heat transfer characteristics of R410A.
- High efficiency scroll compressors.
- Axial fans with low sound level.
- Extremely solid structure with anti-corrosion polyester
- Extended operating limits in heat pump operation:
  - Maximum leaving water temperature 55 °C.
  - External air temperature from -15 °C to 42 °C.

### **Accessories**

- VT: Anti-vibration mounts to be installed under the base of the unit.
- AVX: Anti-vibration mounts to be installed under the base of the unit.
- · GP: Protection grille protects the external coil from accidental damage.
- RIF: Power factor correction. Connected in parallel to the motor allowing about 10% reduction of input current. Must be requested at time of order and is available factory fitted only.
- AER485P1: RS-485 interface for supervising systems with MODBUS protocol.
- AERWEB300: The AERWEB option allows remote control of a chiller through a standard PC and an ethernet connection with a standard browser; 4 versions available:

- AERWEB300-6: Web server to monitor and remote control maximum 6 units on RS485 network:
- AERWEB300-18: Web server to monitor and remote control maximum 18 units on RS485 network:
- AERWEB300-6G: Web server to monitor and remote control maximum 6 units on RS485 network with integrated GPRS modem;
- AERWEB300-18G: Web server to monitor and remote control maximum 18 units on RS485 network with integrated GPRS modem.
- PGD1: Simplified remote panel. Allows control of basic unit functions and alarm notification. Remote mounted up to 500 m away with TWISTED PAIR SCREENED cable and TCONN6J000.

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NRP	u.m.	0280E	0300E	0330E	0350E	0500A	0550A	0600A	0650A	0700A	0750A
Cooling capacity 1	Tons kW	12.02 42.3	14.12 49.7	16.19 57.0	20.09 70.7	21.34 75.1	24.83 87.4	32.61 114.8	36.28 127.7	39.91 140.5	44.89 158.0
Input power	kW	15.2	17.6	20.1	25.4	29.0	35.1	40.6	46.3	51.8	56.0
Evaporator water flow	gpm I/h	28.82 6545	33.88 7695	38.86 8827	48.16 10938	51.15 11618	59.54 13523	78.26 17774	87.02 19765	95.79 21756	107.70 24461
Evaporator pressure drop - Vers. 00	p.s.i. kPa	1.7 12	2.2 15	2.2 15	2.5 17	2.0 14	2.5 17	4.6 32	5.2 36	6.4 44	4.8 33
EER	BTU/h/W	9.50	9.64	9.68	9.51	8.84	8.50	9.66	9.42	9.26	9.64
Heating capacity <sup>2</sup>	W/W BTU/h	2.77 184070	2.82 213440	2.84 242810	2.78 304960	2.59 328520	2.49 381800	2.83 479810	2.76 536840	2.71 591140	2.82 660800
nput power	kW kW	53.9 17.2	62.5 19.9	71.1 22.7	89.3 27.3	96.2 31.0	111.8 36.5	140.5 46.6	157.2 51.2	173.1 56.6	193.5 63.5
Condenser water flow	gpm	40.84	47.35	53.86	67.64	72.85	84.70	106.42	119.03	131.06	146.51
Condenser pressure drop	l/h p.s.i.	9276 3.2	10755 5.1	12234 5.2	15363 4.2	16547 5.1	19238 8.1	24170 10.0	27035 10.0	29767 9.0	33275 7.0
COP	kPa W/W	22 3.13	35 3.14	36 3.14	29 3.27	35 3.10	56 3.06	69 3.02	69 3.07	62 3.06	48 3.05
Cooling capacity <sup>3</sup>	Tons	11.16	13.18	15.11	19.38	20.63	24.55	29.89 105.2	33.98	37.84	41.56
Recovery capacity	kW BTU/h	39.3 181680	46.4 214800	53.2 246900	68.2 312810	72.6 328860	86.4 401260	491760	119.6 556640	133.2 620510	146.3 681630
nput power	kW kW	53.2 14.7	62.9 17.4	72.3 20.1	91.6 24.7	96.3 24.9	117.5 32.8	144.0 40.8	163.0 45.7	181.7 51.0	199.6 56.1
Evaporator water flow	gpm	26.8	31.6	36.2	46.5	49.5	58.9	71.7	81.5	90.8	99.7
	l/h p.s.i.	6081 1.5	7181 1.9	8233 1.9	10551 2.3	11238 1.9	13375 2.5	16287 3.9	18517 4.6	20627 5.8	22648 4.2
Evaporator pressure drop - Vers. 00	kPa gpm	10 40.3	13 47.6	13 54.7	16 69.4	13 72.9	17 89.0	27 109.0	32 123.5	40 137.6	29 151.2
Recovery water flow	l/h	9157	10821	12432	15760	16561	20212	24764	28042	31252	34331
Recovery pressure drop - Vers. 00	p.s.i. kPa	<u>3</u> 21	5.1 35	5.4 37	4.4 30	5.1 35	9.0 62	10.4 72	10.7 74	9.9 68	7.5 52
ER (Total Efficiency Ratio)	W/W	6.30	6.28	6.24	6.47	6.77	6.23	6.11	6.18	6.18	6.17
electrical data Power supply						230V-3	-60Hz				
nput current	A	62	69	78	99	102	120	151	168	186	210
nput current nput current	A A	66 48	74 64	89 71	104 86	106 92	123 109	167 131	182 160	199 178	222 193
RA MCA	A A	239 87	287 95	294 101	375 146	376 148	389 161	373 180	454 225	494 265	546 284
ЛОР	A	117	132	138	203	205	218	218	283	323	346
ower supply nput current	A	40	43	47	54	460V-3 49	-60Hz 58	70	78	86	97
put current	Α	42	46	50	57	51	60	77	84	92	106
nput current RA	A A	24 132	32 157	32 163	39 193	44 189	52 200	65 199	72 229	80 239	91 276
1CA	Α	50	57	63	74	70	81	99	110	120	134
MOP Power supply	A	64	77	83	99	95 575V-3		119	135	145	163
nput current nput current	A A	34 36	37 39	40 42	46 48	38 40	45 46	54 60	60 65	66 71	75 82
nput current	Α	18	25	25	30	34	40	50	56	62	70
RA MCA	A A	103 38	105 43	108 46	145 64	138 57	146 64	134 72	171 89	186 105	217 118
MOP Compressors	А	49	57	60	86	79	86	86	112	127	144
Compressors (n°/circuit)		2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	3"
C inverter fans											
Air flow rate	cfm	25882	25882	25882	24118		26471	40000	40000		54118
	cfm m³/h	25882 44000	25882 44000	25882 44000	24118 41000	26471 45000	26471 45000	40000 68000	40000 68000	40000 68000	54118 92000
Quantity of fans vaporator						26471 45000 2	45000 2			40000	
Quantity of fans vaporator lydraulic connection type	m³/h n°	44000 8	44000 8	44000 8	41000 8	26471 45000 2	45000 2	68000 3	68000 3	40000 68000 3	92000 4
Quantity of fans Evaporator Hydraulic connection type Hydraulic connections size Hydronic module	m³/h n° inch	44000	44000	44000	41000	26471 45000 2	45000 2	68000	68000	40000 68000	92000
Quantity of fans Vaporator Hydraulic connection type Hydraulic connections size Hydronic module stem side (2 and 4 pipes) - Hydror	m³/h n° inch	44000 8	44000 8	44000 8	41000 8	26471 45000 2	45000 2	68000 3	68000 3	40000 68000 3	92000 4
quantity of fans vaporator ydraulic connection type lydraulic connections size lydronic module stem side (2 and 4 pipes) - Hydror w static head pump nput power (230-460V)	m³/h n° inch nic kit	44000 8 2" 1/2	2" 1/2 1.5	44000 8 2" 1/2	41000 8 2" 1/2	26471 45000 2 Victa 2" 1/2	45000 2 nulic 2" 1/2	68000 3	68000 3	40000 68000 3	92000 4
Quantity of fans vaporator lydraulic connection type lydraulic connections size lydronic module stem side (2 and 4 pipes) - Hydror w static head pump nput power (230-460V) nput current (230V)	m³/h n°  inch  nic kit  kW kW A	44000 8 2" 1/2 1.5 1.1 7.5	44000 8 2" 1/2 1.5 1.1 7.5	44000 8 2" 1/2 1.5 1.1 7.5	41000 8 2" 1/2 1.5 1.1 7.5	26471 45000 2 Victa 2" 1/2	45000 2 nulic 2" 1/2 1.5 1.1 7.5	2" 1/2 2.2 7.8	2" 1/2 2.2 7.8	4000 68000 3 2" 1/2 2.2 7.8	92000 4 3" 2.2 7.8
Quantity of fans vaporator lydraulic connection type lydraulic connections size lydronic module stem side (2 and 4 pipes) - Hydror w static head pump nput power (230-460V) nput power (575V) nput current (230V) nput current (460V)	m³/h n°  inch  nic kit  kW kW A A	2" 1/2 1.5 1.1 7.5 4.3	44000 8 2" 1/2 1.5 1.1 7.5 4.3	44000 8 2" 1/2 1.5 1.1 7.5 4.3	41000 8 2" 1/2 1.5 1.1 7.5 4.3	26471 45000 2 Victa 2" 1/2	45000 2 nulic 2" 1/2 1.5 1.1 7.5 4.3	2" 1/2 2.2 7.8 3.9	2" 1/2 2.2 7.8 3.9	40000 68000 3 2" 1/2 2.2 7.8 3.9	92000 4 3" 2.2 7.8 3.9
Quantity of fans vaporator lydraulic connection type lydraulic connections size lydronic module stem side (2 and 4 pipes) - Hydror w static head pump nput power (230-460V) nput power (575V) nput current (230V) nput current (460V) nput current (460V) ligh static head pump	m³/h n°  inch  nic kit  kW kW A A A	2" 1/2 1.5 1.1 7.5 4.3 1.6	1.5 1.1 7.5 4.3 1.6	1.5 1.1 7.5 4.3 1.6	1.5 1.1 7.5 4.3 1.6	26471 45000 2 Victa 2" 1/2	45000 2 nulic 2" 1/2 1.5 1.1 7.5	2" 1/2 2.2 7.8	2" 1/2 2.2 7.8	4000 68000 3 2" 1/2 2.2 7.8	92000 4 3" 2.2 7.8
Quantity of fans vaporator lydraulic connection type lydraulic connections size lydronic module stem side (2 and 4 pipes) - Hydror w static head pump put power (230-460V) nput power (575V) nput current (230V) nput current (460V) nput current (575V) light static head pump nput power (230-460V)	m³/h n°  inch  nic kit  kW kW A A	2" 1/2 1.5 1.1 7.5 4.3	44000 8 2" 1/2 1.5 1.1 7.5 4.3	44000 8 2" 1/2 1.5 1.1 7.5 4.3	41000 8 2" 1/2 1.5 1.1 7.5 4.3	26471 45000 2 Victa 2" 1/2	45000 2 nulic 2" 1/2 1.5 1.1 7.5 4.3	2" 1/2 2.2 7.8 3.9	2" 1/2 2.2 7.8 3.9	40000 68000 3 2" 1/2 2.2 7.8 3.9	92000 4 3" 2.2 7.8 3.9
quantity of fans vaporator ydraulic connection type ydraulic connections size lydronic module stem side (2 and 4 pipes) - Hydror w static head pump put power (230-460V) pput power (575V) pput current (230V) nput current (460V) nput current (575V) ligh static head pump nput power (230-460V) nput current (250V)	m³/h n°  inch nic kit  kW kW A A A kW kW A	2" 1/2  1.5 1.1 7.5 4.3 1.6  2.2 1.5 7.8	1.5 1.1 7.5 4.3 1.6 2.2 1.5 7.8	1.5 1.1 7.5 4.3 1.6 2.2 1.5 7.8	1.5 1.1 7.5 4.3 1.6 2.2 1.5 7.8	26471 45000 2 Victa 2" 1/2 1.5 1.1 7.5 4.3 1.6	1.5 1.1 7.5 4.3 1.6	2" 1/2  2.2  7.8  3.9  3.1  3.0	2" 1/2  2.2  7.8  3.9  3.1  3.0	40000 68000 3 2" 1/2 2.2 7.8 3.9 3.1	92000 4 3" 2.2 7.8 3.9 3.1 3.0
Quantity of fans vaporator lydraulic connection type lydraulic connections size lydronic module stem side (2 and 4 pipes) - Hydror w static head pump nput power (230-460V) nput power (230-450V) nput current (460V) nput current (460V) nput tower (575V) ligh static head pump nput power (575V) nput current (460V) nput power (575V) nput current (330-460V) nput power (575V) nput current (450V) nput current (450V) nput current (450V) nput current (575V)	m³/h n°  inch  nic kit  kW kW A A A KW kW A A A	1.5 1.1 7.5 4.3 1.6 2.2 1.5 7.8 4.5 2.2	2" 1/2 2" 1/2 1.5 1.1 7.5 4.3 1.6 2.2	2" 1/2 1.5 1.1 7.5 4.3 1.6 2.2 1.5	1.5 1.1 7.5 4.3 1.6 2.2 1.5	26471 45000 2 Victa 2" 1/2	45000 2 sulic 2" 1/2 1.5 1.1 7.5 4.3 1.6	2" 1/2  2.2  7.8  3.9  3.1	2" 1/2  2.2  7.8  3.9  3.1	40000 68000 3 2" 1/2 2.2 7.8 3.9 3.1	92000 4 3" 2.2 7.8 3.9 3.1
Quantity of fans vaporator lydraulic connection type lydraulic connections size lydronic module stem side (2 and 4 pipes) - Hydror w static head pump put power (230-460V) put power (575V) put current (460V) put current (460V) put tower (575V) light static head pump put urgower (230-460V) put current (575V) light static head pump put power (230-460V) put power (375V) put current (460V) light current (460V)	m³/h n°  inch nic kit  kW kW A A A A kW kW A A A A A A A A A	2" 1/2  1.5 1.1 7.5 4.3 1.6  2.2 1.5 7.8 4.5 2.2 ronic kit	1.5 1.1 7.5 4.3 1.6 2.2 1.5 7.8 4.5 2.2	1.5 1.1 7.5 4.3 1.6 2.2 1.5 7.8 4.5 2.2	1.5 1.1 7.5 4.3 1.6 2.2 1.5 7.8 4.5 2.2	26471 45000 2 Victa 2" 1/2 1.5 1.1 7.5 4.3 1.6 2.2 7.8 4.5 3.1	45000 2 sulic 2" 1/2 1.5 1.1 7.5 4.3 1.6 2.2 7.8 4.5 3.1	2" 1/2  2.2  7.8  3.9  3.1  3.0  10.0  5.0  4.0	2" 1/2  2.2  7.8  3.9  3.1  3.0  10.0  5.0  4.0	40000 68000 3 2" 1/2 2.2 7.8 3.9 3.1 3.0 10.0 5.0 4.0	92000 4 3" 2.2 7.8 3.9 3.1 3.0 10.0 5.0 4.0
Quantity of fans ivaporator lydraulic connection type lydraulic connections size lydronic module stem side (2 and 4 pipes) - Hydror w static head pump nput power (230-460V) nput power (230-460V) nput current (230V) nput current (460V) nput current (575V) lidn static head pump nput power (575V) nput power (575V) nput current (230-460V) nput current (460V) nput current (575V) HW side (2 pipes) / System side (4 put power (575V)	m³/h n° inch nic kit kW kW A A A A A A A A A A A A A A A A A A	1.5 1.1 7.5 4.3 1.6 2.2 1.5 7.8 4.5 2.2 ronic kit 1.5	1.5 1.1 7.5 4.3 1.6 2.2 1.5 7.8 4.5 2.2	1.5 1.1 7.5 4.3 1.6 2.2 1.5 7.8 4.5 2.2	1.5 1.5 1.1 7.5 4.3 1.6 2.2 1.5 7.8 4.5 2.2	26471 45000 2 Victa 2" 1/2 1.5 1.1 7.5 4.3 1.6 2.2 7.8 4.5 3.1	45000 2 sulic 2" 1/2 1.5 1.1 7.5 4.3 1.6 2.2 7.8 4.5 3.1	2" 1/2  2.2  7.8  3.9  3.1  3.0  10.0  5.0  4.0	2" 1/2  2.2  7.8  3.9  3.1  3.0  10.0  5.0  4.0	40000 68000 3 2" 1/2 2.2 7.8 3.9 3.1 3.0 10.0 5.0 4.0	92000 4 3" 2.2 7.8 3.9 3.1 3.0 5.0 4.0
quantity of fans vaporator ydraulic connection type ydraulic connection size lydronic module stem side (2 and 4 pipes) - Hydror w static head pump put power (230-460V) put power (575V) put current (460V) put current (460V) put power (575V) ligh static head pump put urgent (575V) put current (460V) put power (230-460V) put current (30V) put current (460V) put current (275V) HW side (2 pipes) / System side (4 put power (575V) put current (330V) put current (350V) hydrower (575V) put current (330V)	m³/h n°  inch  kW kW A A A kW kW A A A A kW kW A A A A	1.5 1.1 7.5 4.3 1.6 2.2 1.5 7.8 4.5 2.2 ronic kit 1.5	1.5 1.1 7.5 1.1 7.5 4.3 1.6 2.2 1.5 7.8 4.5 2.2	1.5 1.1 7.5 1.1 7.5 4.3 1.6 2.2 1.5 7.8 4.5 2.2	1.5 1.1 7.5 1.1 7.5 4.3 1.6 2.2 1.5 7.8 4.5 2.2	26471 45000 2 Victa 2" 1/2 1.5 1.1 7.5 4.3 1.6 2.2 7.8 4.5 3.1	45000 2 sulic 2" 1/2 1.5 1.1 7.5 4.3 1.6 2.2 7.8 4.5 3.1	2" 1/2  2.2  7.8  3.9  3.1  3.0  10.0  5.0  4.0	2" 1/2  2.2  7.8  3.9  3.1  3.0  10.0  5.0  4.0	40000 68000 3 2" 1/2 2.2 7.8 3.9 3.1 3.0 10.0 5.0 4.0	92000 4 3" 2.2 7.8 3.9 3.1 3.0 10.0 5.0 4.0
quantity of fans vaporator ydraulic connection type ydraulic connections size lydronic module stem side (2 and 4 pipes) - Hydror w static head pump put power (230-460V) put power (230-460V) put current (230V) put current (460V) put current (575V) ligh static head pump put power (230-460V) put power (230-460V) put current (460V) put power (575V) ligh static head pump put power (575V) ligh static head pump put power (230-460V) put current (460V) put current (460V) put current (575V) ligh static head pump put power (230-460V) put power (575V) put current (575V) light current (230-460V) put power (575V) put power (575V) put current (460V) put current (460V) put current (575V)	m³/h n°  inch nic kit  kW kW A A A A A A A A A A A A A A A A	1.5 1.1 7.5 4.3 1.6 2.2 1.5 7.8 4.5 2.2 ronic kit 1.5 1.1 7.5	1.5 1.1 7.5 4.3 1.6 2.2 1.5 7.8 4.5 2.2	1.5 1.1 7.5 4.3 1.6 2.2 1.5 7.8 4.5 2.2	1.5 1.1 7.5 4.3 1.6 2.2 1.5 7.8 4.5 2.2	26471 45000 2 Victa 2" 1/2 1.5 1.1 7.5 4.3 1.6 2.2 7.8 4.5 3.1	1.5 1.1 7.5 4.3 1.6 2.2 7.8 4.5 3.1	2" 1/2  2.2  7.8  3.9  3.1  3.0  10.0  5.0  4.0  2.2  7.8	2" 1/2  2.2  7.8  3.9  3.1  3.0  10.0  5.0  4.0  10.0	40000 68000 3 2" 1/2 2.2 7.8 3.9 3.1 3.0 10.0 5.0 4.0	92000 4 3" 2.2 7.8 3.9 3.1 3.0 10.0 5.0 4.0 10.0
Quantity of fans vaporator lydraulic connection type lydraulic connections size lydronic module stem side (2 and 4 pipes) - Hydror w static head pump nput power (230-460V) nput power (230-460V) nput current (230V) nput current (460V) nput current (575V) lidigh static head pump nput power (230-460V) nput power (230-460V) nput power (230-460V) nput current (460V) nput current (460V) nput current (575V) lydrout current (575V) nput current (575V) nput current (575V) nput power (230-460V) nput power (230-460V) nput power (230-460V) nput power (575V) nput current (460V) nput power (230-460V)	m³/h n°  inch  inckit  kW kW A A A A  kW kW A A A A A A A A A	1.5 1.1 7.5 4.3 1.6 2.2 1.5 7.8 4.5 2.2 ronic kit 1.5 1.1 7.5 4.3	1.5 1.1 7.5 4.3 1.6 2.2 1.5 7.8 4.5 2.2 1.5 1.1 7.5 2.2	1.5 1.1 7.5 4.3 1.6 2.2 1.5 7.8 4.5 2.2 1.5 1.1 7.5 2.2	1.5 1.1 7.5 4.3 1.6 2.2 1.5 7.8 4.5 2.2 1.5 1.1 7.5 4.3 2.2	26471 45000 2 Victa 2" 1/2 1.5 1.1 7.5 4.3 1.6 2.2 7.8 4.5 3.1	1.5 1.1 7.5 4.3 1.6 2.2 7.8 4.5 3.1 2.2 7.8 3.9 3.1	2" 1/2  2.2  7.8  3.9  3.1  3.0  10.0  5.0  4.0  2.2  7.8  3.9  3.1	2" 1/2  2.2  7.8  3.9  3.1  3.0  10.0  5.0  4.0  10.0  5.0  4.0	40000 68000 3 2" 1/2 2.2 7.8 3.9 3.1 3.0 10.0 5.0 4.0	92000 4 3" 2.2 7.8 3.9 3.1 3.0 10.0 5.0 4.0 10.0 5.0 4.0
quantity of fans vaporator ydraulic connection type ydraulic connections size ydronic module stem side (2 and 4 pipes) - Hydror w static head pump put power (230-460V) put tourent (230V) put current (230V) put current (230V) put current (375V) idh static head pump put power (230-460V) put power (230-460V) put current (330V) put current (460V) put power (230-460V) put current (460V) put current (575V) idh static head pump put power (575V) put current (575V) idh static head pump put current (575V) igh static head pump put current (575V) igh static head pump put power (575V)	m³/h n°  inch  nic kit  kW kW A A A A  kW kW A A A A  kW kW A A A A	1.5 1.1 7.5 4.3 1.6 2.2 1.5 7.8 4.5 2.2 ronic kit 1.5 1.1 7.5 4.3	1.5 1.1 7.5 4.3 1.6 2.2 1.5 7.8 4.5 2.2 1.5 1.1 7.5 4.3 4.5 2.2	1.5 1.1 7.5 4.3 1.6 2.2 1.5 7.8 4.5 2.2 1.5 1.1 7.5 4.3 4.5 2.2	1.5 1.1 7.5 4.3 1.6 2.2 1.5 7.8 4.5 2.2 1.1 7.5 4.3 1.6	26471 45000 2 Victa 2" 1/2 1.5 1.1 7.5 4.3 1.6 2.2 7.8 4.5 3.1 2.2 7.8 3.9 3.1	1.5 1.1 7.5 4.3 1.6 2.2 7.8 4.5 3.1 2.2 7.8 3.9 3.1 3.0	2" 1/2  2.2  7.8  3.9  3.1  3.0  10.0  5.0  4.0  2.2  7.8  3.9  3.1  4.0	2" 1/2  2.2  7.8  3.9  3.1  3.0  10.0  5.0  4.0  4.0	40000 68000 3 2" 1/2 2.2 7.8 3.9 3.1 3.0 10.0 5.0 4.0 4.0	92000 4 3" 2.2 7.8 3.9 3.1 3.0 10.0 5.0 4.0 4.0 4.0
Quantity of fans vaporator lydraulic connection type lydraulic connections size lydronic module stem side (2 and 4 pipes) - Hydror w static head pump nput power (230-460V) nput power (230-460V) nput current (460V) nput current (460V) nput current (575V) lidin static head pump nput power (230-460V) nput current (320V) nput current (460V) nput current (460V) nput current (575V) lydrout current (460V) nput current (575V) nput current (575V) nput current (575V) nput current (575V) nput power (230-460V) nput power (230-460V) nput power (575V) nput current (460V) nput current (460V) nput current (575V) lidin static head pump nput power (230-460V) nput current (460V) nput current (460V)	m³/h n°  inch  inch  kW kW A A A A  4 pipes) - Hydi kW kW A A A A A A A A A A A A A A A A A	1.5 1.1 7.5 4.3 1.6 2.2 1.5 7.8 4.5 2.2 ronic kit 1.5 4.3 1.6 2.2 1.5 7.8 4.3 4.5 4.5 4.3 4.5 4.5 4.3 4.5 4.3 4.5 4.3 4.5 4.3	1.5 1.1 7.5 4.3 1.6 2.2 1.5 7.8 4.5 2.2 1.5 1.1 7.5 2.2 1.5 1.1 7.5 2.2	1.5 1.1 7.5 4.3 1.6 2.2 1.5 7.8 4.5 2.2 1.5 1.1 7.5 2.2 1.5 1.1 7.5 2.2 1.5 1.6	1.5 1.1 7.5 4.3 1.6 2.2 1.5 7.8 4.5 2.2 1.5 1.1 7.5 4.3 1.6 2.2 1.5 1.1 7.5 2.2	26471 45000 2 Victa 2" 1/2 1.5 1.1 7.5 4.3 1.6 2.2 7.8 4.5 3.1 2.2 7.8 3.9 3.1	1.5 1.1 7.5 1.1 7.5 4.3 1.6 2.2 7.8 4.5 3.1 2.2 7.8 3.9 3.1	2" 1/2  2.2  7.8  3.9  3.1  3.0  10.0  5.0  4.0  2.2  7.8  3.9  3.1  4.0  13.2  6.6	2" 1/2  2.2  7.8  3.9  3.1  3.0  10.0  5.0  4.0  10.0  5.0  4.0  13.2  6.6	40000 68000 3 2" 1/2 2.2 7.8 3.9 3.1 3.0 10.0 5.0 4.0 4.0 4.0	3"  2.2  7.8  3.9  3.1  3.0  10.0  5.0  4.0  4.0  4.0  13.2  6.6
Quantity of fans Evaporator Hydraulic connection type Hydraulic connections size Hydronic module Instem side (2 and 4 pipes) - Hydror Instem side (2 and 50V) Input current (230V) Input current (450V) Input power (230-460V) Input current (460V) Input current (230V) Input current (230V) Input current (230V) Input power (230-460V) Input power (575V) Input current (450V) Input current (450V) Input current (450V) Input current (575V) Input current (575V) Input current (575V) Input current (575V) Input current (530V) Input power (575V) Input current (530V) Input power (575V) Input current (230V) Input power (575V) Input current (230V) Input current (230V) Input current (230V) Input current (575V)	m³/h n°  inch nic kit  kW kW A A A A 4 pipes) - Hydi kW KW A A A A A A A A A A A A A A A A A A	2" 1/2  1.5 1.1 7.5 4.3 1.6  2.2 1.5 7.8 4.5 2.2 ronic kit 1.5 1.1 7.5 4.3 1.6  2.2 1.5 7.8 4.3 1.6	1.5 1.1 7.5 4.3 1.6 2.2 1.5 7.8 4.5 2.2 1.1 7.5 4.3 1.6 2.2 1.5 7.8 4.5 2.2 1.1	1.5 1.1 7.5 4.3 1.6 2.2 1.5 7.8 4.5 2.2 1.1 7.5 4.3 1.6 2.2 1.5 7.8 4.5 2.2 1.1 7.5 4.3 1.6	1.5 1.1 7.5 4.3 1.6 2.2 1.5 7.8 4.5 2.2 1.1 7.5 4.3 1.6 2.2 1.5 7.8 4.3 1.6	26471 45000 2 Victa 2" 1/2 1.5 1.1 7.5 4.3 1.6 2.2 7.8 4.5 3.1 2.2 7.8 3.9 3.1	1.5 1.1 7.5 4.3 1.6 2.2 7.8 4.5 3.1 2.2 7.8 3.9 3.1 3.0 10.0	2" 1/2  2.2  7.8  3.9  3.1  3.0  10.0  5.0  4.0  2.2  7.8  3.9  3.1  4.0	2" 1/2  2.2  7.8  3.9  3.1  3.0  10.0  5.0  4.0  4.0  4.0  13.2	40000 68000 3 2" 1/2 2.2 7.8 3.9 3.1 3.0 10.0 5.0 4.0 4.0	3"  2.2  7.8  3.9  3.1  3.0  10.0  5.0  4.0  4.0  13.2
Quantity of fans Evaporator Hydraulic connection type Hydraulic connections size Hydronic module Index of the side (2 and 4 pipes) - Hydror Index of the side (2 and 4 pipes) - Hydror Index of the side (2 and 4 pipes) - Hydror Index of the side (2 and 4 pipes) - Hydror Index of the side (2 and 4 pipes) - Hydror Index of the side (2 and 4 pipes) - Hydror Index of the side (2 and 4 pipes) - Hydror Index of the side (2 and 4 pipes) - Hydror Index of the side (3 and 5	m³/h n°  inch  inch  kW kW A A A A  4 pipes) - Hydi kW kW A A A A A A A A A A A A A A A A A	1.5 1.1 7.5 4.3 1.6 2.2 1.5 7.8 4.5 2.2 ronic kit 1.5 1.1 7.5 4.3 1.6	1.5 1.1 7.5 1.6 2.2 1.5 7.8 4.5 2.2 1.5 1.1 7.5 4.3 1.6 2.2 1.5 7.8 4.5 2.2 1.5 4.3 1.6	1.5 1.1 7.5 4.3 1.6 2.2 1.5 7.8 4.5 2.2 1.5 1.1 7.5 4.3 1.6 2.2 1.5 1.1 7.5 4.3 4.5 2.2 1.5 4.3 4.5 2.2 1.5 4.3 1.6	1.5 1.1 7.5 4.3 1.6 2.2 1.5 2.2 1.5 1.1 7.5 4.3 1.6 2.2 1.5 1.1 7.5 4.3 1.6	26471 45000 2 Victe 2" 1/2 1.5 1.1 7.5 4.3 1.6 2.2 7.8 4.5 3.1 2.2 7.8 3.9 3.1	1.5 1.1 7.5 1.1 7.5 4.3 1.6 2.2 7.8 4.5 3.1 2.2 7.8 3.9 3.1 3.0 10.0 5.0 4.0	2" 1/2  2.2  7.8  3.9  3.1  3.0  10.0  5.0  4.0  2.2  7.8  3.9  3.1  4.0  13.2  6.6  5.3	2" 1/2  2.2  7.8  3.9  3.1  3.0  10.0  5.0  4.0  13.2  6.6  5.3  131.6	40000 68000 3 2" 1/2 2.2 7.8 3.9 3.1 3.0 10.0 5.0 4.0 4.0 4.0 13.2 6.6 5.3	92000 4 3" 2.2 7.8 3.9 3.1 3.0 10.0 5.0 4.0 4.0 4.0 4.0 13.2 6.6 5.3
Quantity of fans Evaporator Hydraulic connection type Hydraulic connections size Hydronic module Interest side (2 and 4 pipes) - Hydror Interest (230-460V) Input current (230V) Input current (375V) Input current (230-460V) Input current (460V) Input current (460V) Input current (230-460V) Input current (230-460V) Input current (230V) Input current (257SV)	m³/h n°  inch nic kit  kW kW A A A A 4 pipes) - Hyd kW kW A A A A A A A A A A A A A A A A A	1.5 1.1 7.5 4.3 1.6 2.2 ronic kit 1.5 4.3 1.6 2.2 ronic kit 1.5 7.5 4.3 1.6 2.2 ronic kit 1.5 4.3 1.6 2.2 1.5 7.8 4.5 2.2 ronic kit 1.5 7.5 7.5 2.2 ronic kit 1.5 7.5 7.5 2.2 ronic kit 1.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.	1.5 1.1 7.5 4.3 1.6 2.2 1.5 7.8 4.5 2.2 1.5 1.1 7.5 4.3 1.6 2.2 1.5 7.8 4.5 2.2 1.5 1.1 7.5 4.3 4.5 2.2 2.2	1.5 1.1 7.5 1.6 2.2 1.5 7.8 4.5 2.2 1.5 1.1 7.5 4.3 1.6 2.2 1.5 7.8 4.5 2.2 1.5 7.8 4.3 1.6	1.5 1.1 7.5 4.3 1.6 2.2 1.5 7.8 4.5 2.2 1.5 7.5 4.3 1.6 2.2 1.5 7.8 4.5 2.2 1.5 7.5 4.3 1.6	26471 45000 2 Victa 2" 1/2 1.5 1.1 7.5 4.3 1.6 2.2 7.8 4.5 3.1 2.2 7.8 3.9 3.1 3.0	45000 2 sulic 2" 1/2 1.5 1.1 7.5 4.3 1.6 2.2 7.8 4.5 3.1 2.2 7.8 3.9 3.1 3.0 10.0 5.0 4.0	2" 1/2  2.2  7.8  3.9  3.1  3.0  10.0  5.0  4.0  2.2  7.8  3.9  3.1  4.0  13.2  6.6  5.3	2" 1/2  2.2  7.8  3.9  3.1  3.0  10.0  5.0  4.0  4.0  13.2  6.6  5.3	40000 68000 3 2" 1/2 2.2 7.8 3.9 3.1 3.0 10.0 5.0 4.0 4.0 4.0 13.2 6.6 5.3	3°  2.2  7.8  3.9  3.0  10.0  5.0  4.0  4.0  13.2  6.6  5.3

1. Cooling conditions: AHRI standard system water outlet = 6.7 °C system water flow = 0.043 l/s per kW external air temperature = 35 °C 2. Heating conditions: DHW / System water inlet = 40°C DHW / System water outlet = 45°C external air temperature d.b./w.b. = 7 / 6 °C 3. Cooling and Total Recovery conditions: system heat exchanger water outlet = 6.7 °C water flow = 0.043 l/s per kW

DHW / System heat exchanger water inlet =  $40^{\circ}$ C water outlet =  $45^{\circ}$ C

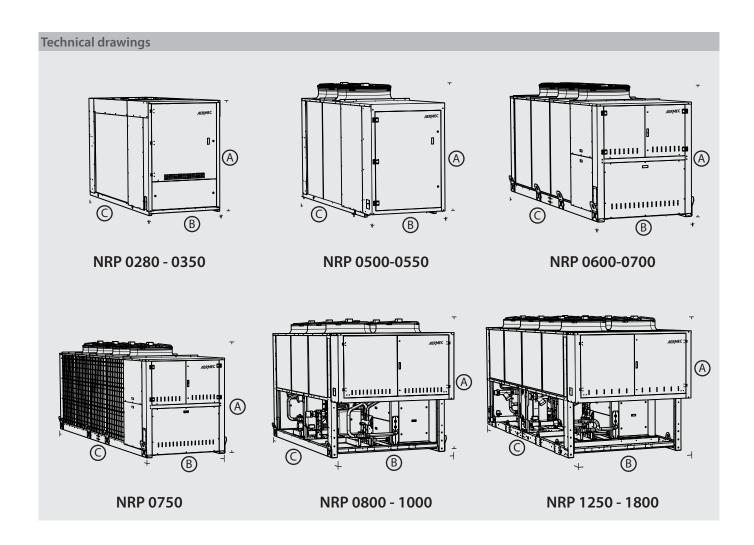
NDD		00004	00004	10004	12504	14004	15004	16504	10004
NRP	u.m. Tons	0800A 49.20	0900A 55.09	1000A 60.99	1250A 77.24	1400A 87.56	1500A 97.76	1650A 103.58	1800A 109.32
Cooling capacity 1	kW	173.2	193.9	214.7	271.9	308.2	344.1	364.6	384.8
Input power	kW	64.1	73.0	81.9	103.5	119.3	135.1	146.4	157.7
Evaporator water flow	gpm l/h	118.04 26809	132.17 30019	146.30 33229	185.30 42086	210.03 47703	234.50 53261	248.50 56441	262.24 59562
Evaporator pressure drop - Vers. 00	p.s.i.	3.9	4.4	3.2	3.5	3.6	4.1	4.1	4.2
Evaporator pressure drop vers. 00	kPa	27	30	22	24	25	28	28	29
EER	BTU/h/W W/W	9.23 2.70	9.07 2.66	8.95 2.62	8.97 2.63	8.82 2.58	8.70 2.55	8.50 2.49	8.33 2.44
Heating capacity <sup>3</sup>	BTU/h	739006	831211	929222	1179541	1339705	1499868	1595830	1690767
Input power	kW kW	216.4 70.9	243.4 79.7	272.1 87.1	345.4 111.9	392.3 126.3	439.2 140.7	467.3 149.9	495.1 158.9
	gpm	163.86	184.29	206.05	261.57	297.09	332.61	353.91	374.92
Condenser water flow	I/h	37216	41857	46798	59410	67476	75543	80381	85154
Condenser pressure drop	p.s.i.	5.5	6.1	3.6	4.9	5.4	5.8	5.8	5.9
COP	kPa W/W	38 3.05	42 3.05	25 3.12	34 3.09	37 3.11	40 3.12	40 3.12	41 3.12
	Tons	46.25	52.47	59.66	74.29	85.85	97.19	104.40	111.45
Cooling capacity <sup>3</sup>	kW	162.8	184.7	210.0	261.5	302.2	342.1	367.5	392.3
Recovery capacity	BTU/h kW	748568 219.2	852384 249.6	963372 282.1	1207203 353.5	1393320 408.0	1577047 461.8	1694865 496.3	1810633 530.2
Input power	kW	59.4	68.3	75.8	96.8	111.4	126.0	135.6	145.2
Evaporator water flow	gpm	111	125.9	143.2	178.2	206.0	233.2	250.5	267.3
Evaporator water now	l/h	25204	28592	32515	40481	46782	52964	56887	60721
Evaporator pressure drop - Vers. 00	p.s.i. kPa	3.5 24	3.9 27	3.0 21	3.2	3.6 25	4.1 28	4.2 29	<u>4.4</u> 30
Pocovory water flow	gpm	166	189	213.6	267.7	309.0	349.8	375.9	401.5
Recovery water flow	l/h	37711	42930	48515	60796	70183	79438	85366	91195
Recovery pressure drop - Vers. 00	p.s.i. kPa	5.7 39	6.4 44	3.9 27	5.2 36	5.8 40	6.5 45	6.7 46	6.8 47
TER (Total Efficiency Ratio)	W/W	6.43	6.36	6.49	6.35	6.38	6.38	6.37	6.35
Electrical data	**, **	-1.0		0		0.50	0.50	0.07	0.55
Power supply					230V-3-60Hz				
Input current	A	245	-	-	-	-	-	-	-
Input current Input current	A A	219 264	-	-	-	-	<u>-</u>	-	-
LRA	A	571	-	-	-	-	-	-	-
MCA	Α	309	-	-	-	-	-	-	-
MOP	A	371	-	-	-	-	-	-	-
Power supply Input current	A	114	121	129	460V-3-60Hz 162	184	206	223	240
Input current	Ä	99	106	112	142	162	183	198	212
Input current	А	122	130	135	173	193	213	227	31
LRA	A	294	344	355	448	500	528	546	541
MCA MOP	A A	151 181	162 196	172 206	234 281	266 326	294 354	312 373	328 374
Power supply			170	200	575V-3-60Hz	520	55 1	3,3	57.
Input current	A	88	94	100	126	143	160	173	186
Input current Input current	A A	37 95	82 100	86 105	109 134	125 149	141 165	152 176	164 25
LRA	A	233	282	285	383	400	432	439	460
MCA	Α	134	136	139	193	230	262	268	270
MOP	A	160	164	166	232	285	317	323	309
Compressors (n°/circuit)		4/2	4/2	4/2	4/2	4/2	4/2	5/2	6/2
EC inverter fans									
Air flow rate	cfm	78824	78824	78824	105882	105882	105882	105882	105882
Quantity of fans	m³/h n°	134000	134000 6	134000 6	180000 8	180000 8	180000 8	180000 8	180000 8
Evaporator		6	U	U	0	υ	0	υ	0
Hydraulic connection type					Victaulic				
Hydraulic connections size	inch	3"	3"	3"	4"	4"	4"	4"	4"
Hydronic module System side (2 and 4 pipes) - Hydroni	c kit								
Low static head pump									
Input power	kW	2.2	2.2	3.0	3.0	3.0	3.0	4.0	4.0
Input current (230V) Input current (460V)	A A	7.8 3.9	3.9	5.0	5.0	5.0	5.0	6.6	6.6
Input current (460V)	A	3.1	3.1	4.0	4.0	4.0	4.0	5.3	5.3
High static head pump									
Input power	kW	3.0	3.0	5.5	5.5	5.5	5.5	7.5	7.5
Input current (230V) Input current (460V)	A A	10.0 5.0	5.0	9.2	9.2	9.2	9.2	11.0	11.0
Input current (575V)	Α	4.0	4.0	7.4	7.4	7.4	7.4	8.8	8.8
DHW side (2 pipes) / System side (4 p				4.5					
Input power Input current (230V)	kW A	4.0 13.2	4.0	4.0	5.5	5.5	5.5	7.5	7.5
Input current (250V)	A	6.6	6.6	6.6	9.2	9.2	9.2	11.0	11.0
Input current (575V)	A	5.3	5.3	5.3	7.4	7.4	7.4	8.8	8.8
High static head pump	1								
Input power Input current (230V)	kW A	5.5 18.4	5.5 -	5.5	7.5 -	7.5 -	7.5 -	11.0	11.0
Input current (230V) Input current (460V)	A	9.2	9.2	9.2	11.0	11.0	11.0	17.3	17.3
Input current (575V)	A	7.4	7.4	7.4	8.8	8.8	8.8	13.8	13.8
Buffer tank	,	1012	4045	4040	4045	1015	4045	4045	40.11
Capacity	gal 	184.2 700	184.2 700	184.2 700	184.2 700	184.2 700	184.2 700	184.2 700	184.2 700
Sound data		700	/ 00	700	/ 00	700	700	700	700
	dB(A)	89	92	93	94	95	96	96	96
Sound pressure Sound power	dB(A)	57	60	61	62	63	64	64	64

**Sound powerAermec** determines sound power values in agreement with the 9614-2 Standard.

Sound PressureSound

pressure measured in free field conditions with
reflec-tive surface (directivity factor Q=2) at
394 in/10mt distance from external surface of
unit, in compliance with ISO 3744 regulations.

\* DHW side/system side DHW side, hot water for domestic hot water purpose, in 2-pipe systems System side, production of hot water, in 4-pipe systems.



Dimensions (mm)											
NRP	u.m.	NRP 280E	NRP 300E	NRP 330E	NRP 350E	NRP 500A	NRP 550A	NRP 600A	NRP 650A	NRP 700A	NRP 750A
Haimht (A)	in	63.23	63.23	63.23	63.23	73.82	73.82	73.82	73.82	73.82	77.76
Height (A)	mm	1606	1606	1606	1606	1875	1875	1875	1875	1875	1975
\\/;d&b \(D\)	in	43.31	43.31	43.31	43.31	43.31	43.31	43.31	43.31	43.31	59.06
Width (B)	mm	1100	1100	1100	1100	1100	1100	1100	1100	1100	1500
Longlet (C)	in	125.98	125.98	125.98	125.98	131.57	131.57	170.94	170.94	170.94	210.83
Lenght (C)	mm	3200	3200	3200	3200	3342	3342	4342	4342	4342	5355
Majalat amantu	lb	1949	2004	2061	2244	2465	2571	3210	3263	3406	4932
Weight empty	kg	884	909	935	1018	1118	1166	1456	1480	1545	2237

Dimensions (mm	1)								
NRP	u.m.	NRP 800 A	NRP 900 A	NRP 1000 A	NRP 1250 A	NRP 1400 A	NRP 1500 A	NRP 1650 A	NRP 1800 A
Height (A)	in	96.5	96.46	96.46	96.46	96.46	96.46	96.46	96.46
neight (A)	mm	2450	2450	2450	2450	2450	2450	2450	2450
\\/: al&la_(D)	in	86.61	86.61	86.61	86.61	86.61	86.61	86.61	86.61
Width (B)	mm	2200	2200	2200	2200	2200	2200	2200	2200
L l- + (C)	in	167.32	167.32	167.32	226.38	226.38	226.38	226.38	226.38
Lenght (C)	mm	4250.0	4250.0	4250.0	5750.0	5750.0	5750.0	5750.0	5750.0
M/-:	lb	5357	5754	6327	7782	8025	8201	8598	8995
Weight empty	ka	3430	2610	2970	3530	3640	3720	3000	4090

Attention: weights refer to units without pumps or buffer tank.

For futhers informations, please refer to the technical booklet available in the web site www.aermec.com
The technical data shown in the following documentation are not binding. Aermec reserves the right, at any time, to make any changes necessary to improve the product.

# Total comfort. Maximum efficiency. Minimum consumption. This is Aermec. Italian technology serving your comfort.

Aermec's capacity to remain leader in an evolving market is based on constant research for quality and innovation. A total Italian quality because each unit is designed, developed and tested in the modern and technologically advanced research laboratories of Aermec in Bevilacqua (Verona).

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Room for fan coils, split system and small chiller acoustic test.

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