

NRE-CWU NRE-CWR NRE-HDP R290

WATER CHILLERS &
REVERSIBLE HEAT PUMPS
AIR/WATER FROM 40 TO 410 KW



- Refrigerant R290 (Propane): GWP = 0,02 / ODP = 0 exempt from the F-Gas regulation (2024/573)
- Production of hot water up to 75°C and -5°C ambient
- Possibility to work up to -20°C ambient temperature
- High SEASONAL EFFICIENCY in cold and heat
- High modulation of the power delivered
- Modular installation capability for all the range
- Small footprint
- High efficiencies at partial loads
- Reduced quantities of refrigerant
- Maximum accessibility to the refrigeration circuit compartment



The chillers and heat pumps are designed for use in air conditioning and heating systems for commercial and industrial users. The High Efficiency Units of the NRE-CWU, NRE-CWR and NRE-HDP series guarantee unparalleled results in terms of TLC (Total Life Cost) containment.

By favoring the use of energy from renewable sources, they can contribute to obtaining the best energy classification levels and the best performance of the building to which they are dedicated, based on various global protocols in the field of Green Buildings, such as LEED® and BREEAM®.

Particular attention has been paid to energy efficiency and has Minimum Energy Performance Standards values foreseen by the ECODESIGN regulation (EU) n. 2016/2281. Achieving compliance with all energy efficiency indices: SEER, SEPR and SCOP makes the series usable in any context. Furthermore, the desire to always offer the best performance in every context has led to the definition of three distinct versions, each optimized for a specific area.

The use of propane (R290) as a refrigerant further reduces the direct and indirect environmental impact, also freeing the units from current and future limitations dictated by regulations on the use of fluorinated gases (F-Gas, PFAS).

From the point of view of noise emissions, the design of the units allows the noise of the compressor section to be effectively confined and decrease the one produced by fans section.

Publication: Sales technical information sheet for NRE-CWU, NRE-CWR, CRE-HDP R290

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Versions

- CWU water cooler only
- CWR reversible water cooler
- HDP reversible heat pump
- HTW reversible heat pump with augmented temperature difference at user exchanger in heating mode
- SL silenced up to -6.8 dB(A) vs standard
- SLN super silent up to -9.2 dB(A) vs standard
- HR partial recovery
- CT/CTS marine type Onshore/Offshore

Accessories

- 1/2 PB - 1/2 low head pump (10-15m)
- 1/2 PA - 1/2 high head pump (20-25m)
- 1/2 PBS - 1/2 low head pump (10-15m) + Buffer tank
- 1/2 PAS - 1/2 high head pump (20-25m) + Buffer tank
- 1/2 P(B)(A)V - Inverter pumps with constant pressure operation
- DEG - Deareator in standard version (on board or provided for single fan) or premium (only provided)

Presentation of the scope of application.

The units have been designed to respond in a specialised manner to a wide spectrum of applications:



Industrial



Sports facilities



Airports
Railway stations



Tertiary



Cinema, Theatres



Hospitals, Nursing homes



Catering



Supermarkets



Shops



Wellness centers



Schools and Institutes



Multi-family dwellings



Hotels



Offices



Marine and Offshore
Power Plant

Refrigerant R290, Care-for-air for a greener Future

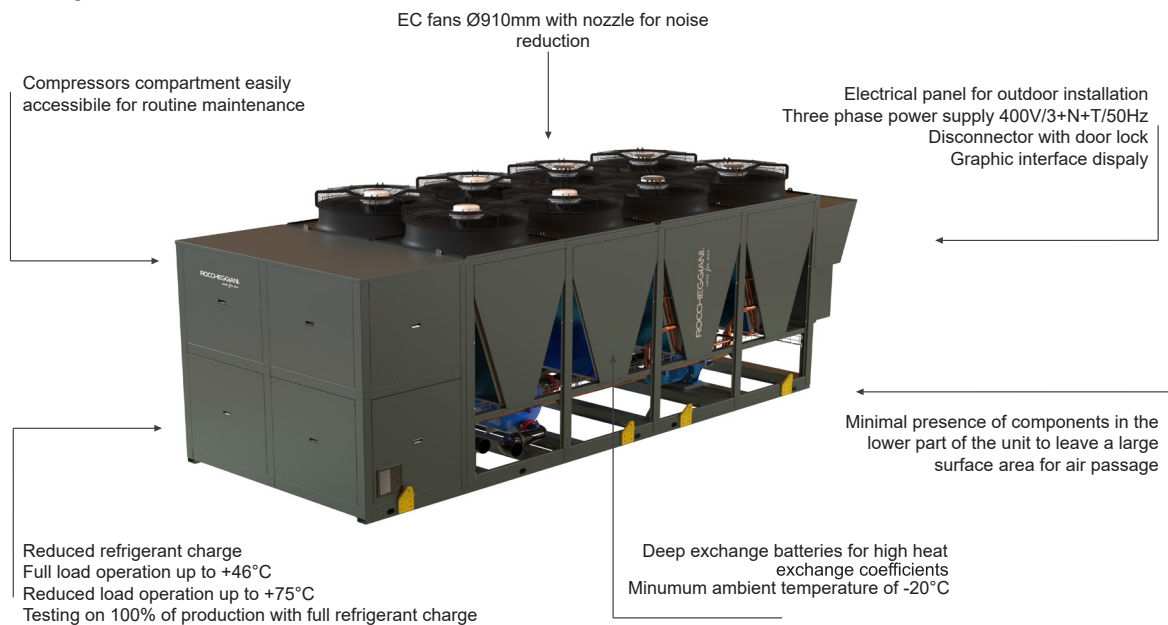
R290 (propane) is a hydrocarbon (HC) used as a refrigerant. Being a natural fluid, it has a very low GWP (Global Warming Potential) value of 0,02 (as per IPCC AR6 at 100yr), and zero ODP (Ozone Depletion Potential). The thermodynamic properties are excellent and for this reason it is possible to obtain excellent performance and efficiencies which, combined with a specific refrigeration circuit, allow working with particularly low refrigerant charges.

R290 is a refrigerant excluded from the scope of regulation 2024/573 better known as F-Gas, which places limits on use and assistance over time for systems equipped with fluorinated gases.

For all these reasons, the R290 refrigerant is a future-proof choice: very low direct and indirect environmental impact and not subject to any maintenance limitations for the entire life span of the machine.

Since propane is a flammable substance, the specific design of this range has addressed and resolved all the critical aspects related to its use, making the solution safe within the limits of use indicated in the manual.

Main components



Structure

- Small footprint with particular attention to accessibility of the compressor compartment
- Strong monobloc load-bearing structure painted in epoxy RAL7012 galvanized steel
- Stainless steel small parts
- Suitable for outdoor installation
- Corrosion resistance
- Basement with specific open areas to evacuate any leaks
- Prepared for the insertion of vibration dampers
- Prepared with lifting eyebolts (except single fan)

Refrigeration circuit

- Mono or bi circuit
- SCROLL compressors in tandem and/or trio
- Natural refrigerant gas R290 (propane)
- Microchannel air exchanger for chiller version and fin&tubes for reversible versions
- Single circuit plate evaporators for greater reliability
- Electronic expansion valve
- Liquid separator as standard on reversible versions
- Gas leak sensor presents as standard
- Compressor compartment air extraction fan as standard
- Partial heat recovery (optional)

Aeraulic circuit

- Fans Ø 910 mm EC
- Batteries with multi-V geometry from nr.4 fans frame
- Pressostatic Speed control as standard
- Noise control for night hours

Hydraulic circuit

- Standard setup with evaporator only, antifreeze flow switch and thermostat
- Suitable for operation with glycol up to 40%
- UV-resistant external pipe insulation
- Prepared for monobloc parallel free-cooling version

Plumbing accessories

- 1 or 2 low or high head pumps
- Inverter pumps
- Inertial tank
- Water pressure gauges upstream and downstream of the pump(s).
- Air vent valve

Electrical accessories

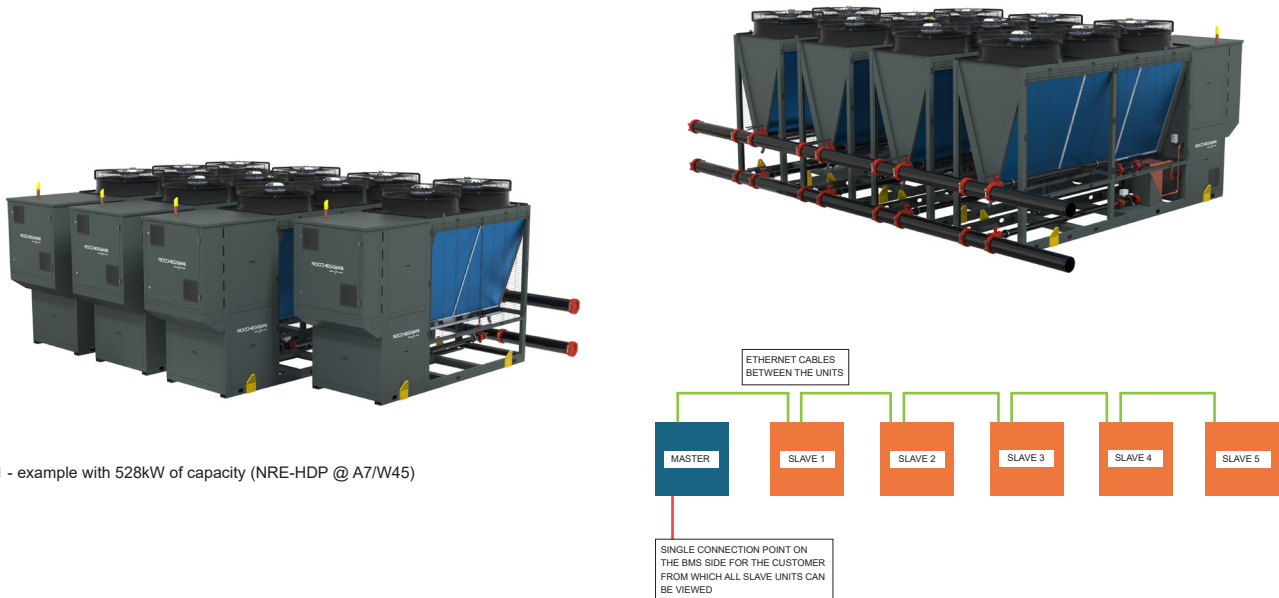
- Antifreeze resistance
- Relay for managing 1 or 2 external pumps
- Double set point from digital input
- Variable set point from analogue input
- Soft Starter compressors
- Remote user terminal
- BMS network cards

Mechanical accessories

- Water condensed trays
- Rubber vibration dampers
- Spring vibration dampers for superior isolation
- Battery protection filters

Flexibility of the NRE R290 range

The NRE R290 range of chillers and heat pumps is equipped with a specific control, developed internally, capable of managing up to 1 master plus 5 slaves for a total of 6 units. An external control is no longer necessary but everything will be integrated and the BMS control can be performed for the entire group of machines simply by connecting to the master unit.



While the Roccheggiani NRE series is one of those with the widest power range available on the market using R290 refrigerant, at the same time it can also be used in a modular manner, coupling multiple units in parallel, so as to be able to exploit the advantages offered by this type of installation. Typically:

- Possibility of dividing the power across multiple units in order to be redundant and to avoid being completely blocked in the event of a failure;
- Split the refrigerant charge between multiple small units. Since the refrigerant is flammable, having circuits with lower charges can make the risk analysis of the installation site easier;
- It allows you to easily add (or even remove) units to the system to adjust the generated power to that required;
- It allows you to distribute multiple small units in different places in case there is no room for a single large unit;
- In some combinations it allows you to increase the partialization steps of the system with a positive impact on seasonal performance coefficients. The machines are called individually based on the load and therefore more machines means more compressors and therefore more partialization steps;
- Possibility for OEMs to keep some sizes in stock ready for delivery which, with appropriate combinations, can cover a wide range of power requirements in an agile manner

HTW Version

The HTW version aims to meet the needs dictated by the replacement of gas boilers, trying to minimize interventions on the heating system. Thanks to the use of an appropriate exchanger on the user side specifically designed for high delta T in heating mode, our heat pump is able to operate with the flow rates and temperature differences of gas boiler heating systems. The high temperature delivered thanks to the natural refrigerant R290, the possibility of operating at low ambient temperatures, the large range of power delivered by the NRE range, combined with the possibility of operating with large delta T, makes this HTW version the best ally for obtaining the modernization and efficiency of existing heating systems, reducing the need for modifications to be implemented.

Technical data – NRE-CWU – R290 – Water chiller

NRE-CWU MODEL			45.1	55.1	65.1	90.1	110.1	130.1	140.1	170.2	220.2	260.2	290.2	330.2	360.2	410.2
Refrigeration yield	(1)	kW	42,1	50,0	62,5	81,8	103,0	113,0	130,0	163,0	206,0	234,0	276,0	311,0	344,06	385,0
Total electrical power absorbed	(1)	kW	11,9	14,9	19,6	22,7	30,7	34,0	37,2	45,3	61,3	74,0	79,1	93,8	96,9	114,0
EER (UNI EN 14511-22)	(1)		3,54	3,35	3,19	3,60	3,36	3,32	3,49	3,60	3,36	3,16	3,49	3,32	3,56	3,39
SEER	(2)		4,98	4,78	4,40	4,93	4,59	4,68	4,73	5,05	4,83	4,66	4,98	4,98	5,32	5,12
ηs		%	194	188	173	194	181	184	186	199	190	183	196	196	210	202
SEPRHT	(3)		5,96	5,55	5,67	6,29	5,62	6,08	5,90	6,20	5,82	5,44	5,84	5,80	6,22	5,87
Compressors																
Number of circuits	no		1	1	1	1	1	1	1	2	2	2	2	2	2	2
Number of compressors	no		2	2	2	2	2	2	2	2	4	4	5	5	6	6
Minimum partialization step	%		40%	37%	50%	50%	50%	50%	50%	25%	25%	23%	21%	20%	17%	17%
Refrigerant charge (estimated)	kg		3	4	4	6	7	8	9	12	15	17	20	22	25	28
Hydronics																
Nominal water flow rate	m³/h		7,2	8,6	10,8	14,1	17,7	19,4	22,4	28,0	35,4	40,2	47,5	53,5	59,3	66,2
Water pressure drops	kPa		31	32	34	32	34	31	32	34	31	32	33	34	32	33
H Low head pump	m		19	19	18	18	17	16	17	15	14	14	18	17	16	15
H High head pump	m		22	21	20	23	21	21	21	27	25	23	23	21	26	25
Tank capacity	dm³		150	150	150	200	200	200	250	300	300	300	300	300	300	300
Hydraulic diameters	"		1" 1/2	1" 1/2	1" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	3"	3"	3"	4"	4"	4"	4"
Hydraulic diameters	DN		DN40	DN40	DN40	DN65	DN66	DN65	DN65	DN80	DN80	DN80	DN100	DN100	DN100	DN100
Aeraulica																
Type of fans			Axial EC													
Fan diameter	Ø		910													
Number of fans	no		1	1	1	2	2	2	3	4	4	4	6	6	8	8
Fans air flow	m³/h		23000	23000	23000	46000	46000	46000	69000	92000	92000	92000	138000	138000	184000	184000
Acoustics																
Sound Power Level	(5)	dBA	80	80	81	84	85	86	87	88	88	89	91	91	92	93
Dimensions																
Height	mm		1973	1973	1973	2444	2444	2444	2444	2444	2444	2444	2444	2444	2444	2444
Length	mm		1099	1099	1099	1100	1100	1100	1100	1100	2240	2240	2240	2240	2240	2240
Length	mm		2592	2592	2592	3330	3330	3330	4400	4113	3942	3942	5076	5076	6210	6210
Power supply			400 / 3 / 50													
Max absorbed power (FLI)	kW		22,6	27,2	34,0	46,9	60,1	65,7	77,3	93,9	120,3	136,4	160,5	185,7	200,8	230,2
Max absorbed current (FLA)	A		38,4	45,8	57,4	78,8	102,4	117,6	134,4	157,6	204,8	242,2	281,6	324,8	358,4	400,4
Max starting current (MIC)	A		140,7	157,1	230,8	252,2	328,0	335,6	345,4	331,0	430,4	460,2	499,6	535,8	576,4	611,4

NOTES: **(1)** In accordance with standard EN14511-2022: inlet/outlet chilled water: 12/7°C, air temperature 35°C DB; **(2)** User side exchanger inlet/outlet water temperature 12/7°C (low temperature application), with reference to regulation 2016/2281 and standard EN 14825; **(3)** Exchanger inlet/outlet water temperature on user side 12/7°C, with reference to regulation 2016/2281 and standard EN 14825; **(5)** Unit operating at nominal power, without accessories of any kind - external air temperature 35°C and exchanger and user water inlet/outlet temperature equal to 12/7°C. Values according to ISO 3744. Preliminary data subject to change

Technical data – NRE-CWR – R290 – Reversible water chiller

NRE-CWR MODEL		45.1	55.1	65.1	90.1	110.1	130.1	140.1	170.2	220.2	260.2	290.2	330.2	360.2	410.2
Refrigeration yield	(1) kW	40,4	47,7	59,1	78,4	98,4	107,0	124,0	158,0	197,0	222,0	265,0	297,0	331,0	368,0
Electrical power absorbed	(1) kW	12,1	15,3	20,1	23,1	31,3	34,8	37,7	46,4	62,7	76,0	80,9	97,1	98,8	116,0
EEA (UNI EN 14511-22)	(1)	3,34	3,12	2,94	3,39	3,14	3,07	3,3	3,41	3,14	2,92	3,28	3,09	3,35	3,17
Thermic yield	(2) kW	44,1	52,5	64,1	86,6	108,0	117,0	134,0	173,0	216,0	246,0	291,0	331,0	362,0	411,0
Electrical power absorbed	(2) kW	12,2	15,1	19	24,9	31,5	34,6	40,5	49,7	62,9	74,8	83,3	98,3	103,0	120,0
COP (UNI EN 14511-22)	(2)	3,61	3,48	3,37	3,48	3,43	3,38	3,31	3,48	3,43	3,29	3,49	3,36	3,51	3,42
SCOP Medium Temperature	(4)	3,35	3,37	3,07	3,19	3,20	3,17	3,14	3,34	3,35	3,28	3,42	3,40	3,50	3,46
ηs Medium Temperature	%	131	132	120	125	125	124	123	131	131	128	134	133	137	135
SCOP Low Temperature	(4)	4,29	4,25	3,68	4,09	4,09	4,04	4,01	4,22	4,23	3,93	4,33	4,29	4,46	4,40
ηs Low Temperature	%	167	167	144	161	161	159	157	166	166	154	170	169	175	173

Compressors

Number of circuits	no	1	1	1	1	1	1	1	2	2	2	2	2	2	2
Number of compressors	no	2	2	2	2	2	2	2	2	4	4	5	5	6	6
Minimum bias	%	40%	37%	50%	50%	50%	50%	50%	25%	25%	23%	21%	20%	17%	17%
Refrigerant charge (estimated)	kg	6	7	8	11	14	15	17	22	27	31	36	41	45	51

Hydronics

Nominal water flow rate	m³/h	7,6	9,0	11,0	14,9	18,6	20,1	23,0	29,8	37,2	42,3	50,1	56,9	62,3	70,7
Water pressure drops	kPa	34	35	36	36	37	33	34	38	34	35	37	39	35	38
H Low head pump	m	19	19	18	18	17	16	17	15	14	14	18	17	16	15
H High head pump	m	22	21	20	23	21	21	21	27	25	23	23	21	26	25
Tank capacity	dm³	150	150	150	200	200	200	250	300	300	300	300	300	300	300
Hydraulic diameters	"	1" 1/2	1" 1/2	1" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	3"	3"	3"	4"	4"	4"	4"
Hydraulic diameters	DN	DN40	DN40	DN40	DN65	DN66	DN65	DN65	DN80	DN80	DN80	DN100	DN100	DN100	DN100

Aeraulica

Type of fans		Axial EC													
Fan diameter	Ø	910													
Number of fans	no	1	1	1	2	2	2	3	4	4	4	6	6	8	8
Fans air flow	m³/h	23000	23000	23000	46000	46000	46000	69000	92000	92000	92000	138000	138000	184000	184000

Acoustics

Sound Power Level	(5) dBA	80	80	81	84	85	86	87	88	88	89	91	91	92	93
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Dimensions

Height	mm	1973	1973	1973	2444	2444	2444	2444	2444	2444	2444	2444	2444	2444	2444
Length	mm	1099	1099	1099	1100	1100	1100	1100	1100	2240	2240	2240	2240	2240	2240
Length	mm	2592	2592	2592	3330	3330	3330	4400	4113	3942	3942	5076	5076	6210	6210
Power supply		400 / ~ 3 + T / 50													
Max absorbed power (FLI)	kW	22,6	27,2	34,0	46,9	60,1	65,7	77,3	93,9	120,3	136,4	160,5	185,7	200,8	230,2
Max absorbed current (FLA)	A	38,4	45,8	57,4	78,8	102,4	117,6	134,4	157,6	204,8	242,2	281,6	324,8	358,4	400,4
Max starting current (MIC)	A	140,7	157,1	230,8	252,2	328,0	335,6	345,4	331,0	430,4	460,2	499,6	535,8	576,4	611,4

NOTES: **(1)** In accordance with standard EN14511-2022: inlet/outlet chilled water: 12/7°C, air temperature 35°C DB; **(2)** In accordance with standard EN14511-2022: inlet/outlet hot water: 40/45°C, air temperature 7°C DB/6°C WB; **(4)** User side exchanger inlet/outlet water temperature 30/35°C, Average climate profile, with reference to regulation 2013/813 and standard EN14825; **(5)** Unit operating at nominal power, without accessories of any kind - external air temperature 35°C and exchanger and user water inlet/outlet temperature equal to 12/7°C. Values according to ISO 3744. Preliminary data subject to change

Technical data – NRE-HDP – R290 – Reversible heat pump

NRE-HDP MODEL			45.1	55.1	65.1	90.1	110.1	130.1	140.1	170.2	220.2	260.2	290.2	330.2	360.2	410.2
Refrigeration yield	(1)	kW	35,7	42,9	52,3	69,0	88,3	94,8	109,0	138,0	177,0	200,0	233,0	262,0	291,0	324,0
Electrical power absorbed	(1)	kW	11,8	15,0	19,5	22,7	30,8	34,0	37,0	45,3	61,6	73,9	79,1	93,8	96,8	113
EEA (UNI EN 14511-22)	(1)		3,03	2,86	2,68	3,04	2,87	2,79	3,0	3,05	2,87	2,71	2,95	2,79	3,01	2,87
Thermal output	(2)	kW	45,5	54,2	66,0	88,5	110,0	118,0	136,0	177,0	221,0	252,0	297,0	336,0	371,0	416,0
Electrical power absorbed	(2)	kW	11,8	14,6	18,2	23,2	29,0	32,0	37,1	46,4	58,6	70,4	77,8	91,2	96,1	112,0
COP (UNI EN 14511-22)	(2)		3,86	3,71	3,63	3,81	3,79	3,69	3,67	3,81	3,77	3,62	3,82	3,68	3,86	3,71
SCOP Medium Temperature	(4)		3,54	3,56	3,25	3,44	3,43	3,38	3,39	3,58	3,56	3,53	3,65	3,63	3,72	3,66
ηs Medium Temperature		%	138,7	139,6	126,9	134,6	134,3	132,2	132,6	140,3	139,3	138,4	142,8	142,0	145,9	143,5
SCOP Low Temperature	(4)		4,42	4,42	4,01	4,34	4,33	4,25	4,27	4,48	4,45	4,39	4,58	4,54	4,70	4,61
ηs Low Temperature		%	173,9	173,8	157,4	170,6	170,0	167,0	167,6	176,3	175,0	172,4	180,0	178,5	185,2	181,4

Compressors

Number of circuits	no	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2
Number of compressors	no	2	2	2	2	2	2	2	2	2	4	4	5	5	6	6
Minimum bias	%	40%	37%	50%	50%	50%	50%	50%	50%	25%	25%	23%	21%	20%	17%	17%
Refrigerant charge (estimated)	kg	6	7	8	11	14	15	17	22	28	32	37	42	46	52	

Hydronics

Nominal water flow rate	m³/h	7,8	9,3	11,4	15,2	18,9	20,3	23,4	30,4	38,0	43,3	51,1	57,8	63,8	71,6	
Water pressure drops	kPa	36	38	38	37	39	34	35	40	36	37	38	40	37	39	
H Low head pump	m	19	19	18	18	17	16	17	15	14	14	18	17	16	15	
H High head pump	m	22	21	20	23	21	21	21	27	25	23	23	21	26	25	
Tank capacity	dm³	150	150	150	200	200	200	250	300	300	300	300	300	300	300	
Hydraulic diameters	"	1"1/2	1"1/2	1"1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	3"	3"	3"	4"	4"	4"	4"	
Hydraulic diameters	DN	DN40	DN40	DN40	DN65	DN66	DN65	DN65	DN80	DN80	DN80	DN100	DN100	DN100	DN100	

Aeraulica

Type of fans		Axial EC														
Fan diameter	Ø	910														
Number of fans	no	1	1	1	2	2	2	3	4	4	4	6	6	8	8	
Air flow Fans	m³/h	23000	23000	23000	46000	46000	46000	69000	92000	92000	92000	138000	138000	184000	184000	

Acoustics

Sound Power Level	(5) dBA	80	80	81	84	85	86	87	88	88	89	91	91	92	93	
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Dimensions

Height	mm	1973	1973	1973	2444	2444	2444	2444	2444	2444	2444	2444	2444	2444	2444	
Length	mm	1099	1099	1099	1100	1100	1100	1100	1100	2240	2240	2240	2240	2240	2240	
Length	mm	2592	2592	2592	3330	3330	3330	4400	4113	3942	3942	5076	5076	6210	6210	
Power supply		400 / ~ 3 +T / 50														
Max absorbed power (FLI)	kW	22,6	27,2	34,0	46,9	60,1	65,7	77,3	93,9	120,3	136,4	160,5	185,7	200,8	230,2	
Max absorbed current (FLA)	A	38,4	45,8	57,4	78,8	102,4	117,6	134,4	157,6	204,8	242,2	281,6	324,8	358,4	400,4	
Max starting current (MIC)	A	140,7	157,1	230,8	252,2	328,0	335,6	345,4	331,0	430,4	460,2	499,6	535,8	576,4	611,4	

NOTES: **(1)** In accordance with standard EN14511-2022: inlet/outlet chilled water: 12/7°C, air temperature 35°C DB; **(2)** In accordance with standard EN14511-2022: inlet/outlet hot water: 40/45°C, air temperature 7°C DB/6°C WB; **(4)** User side exchanger inlet/outlet water temperature 30/35°C, Average climate profile, with reference to regulation 2013/813 and standard EN14825; **(5)** Unit operating at nominal power, without accessories of any kind - external air temperature 35°C and exchanger and user water inlet/outlet temperature equal to 12/7°C. Values according to ISO 3744. Values according to ISO 3744. Preliminary data subject to change

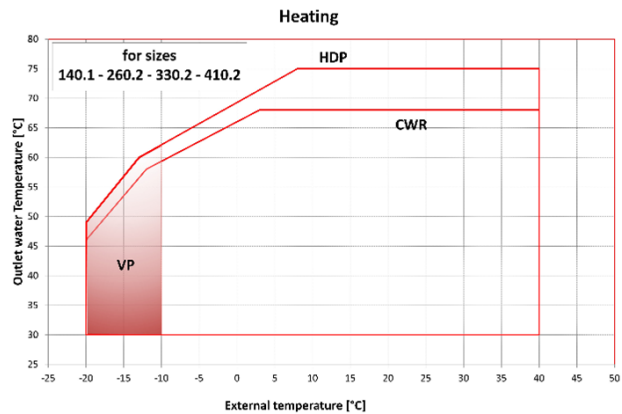
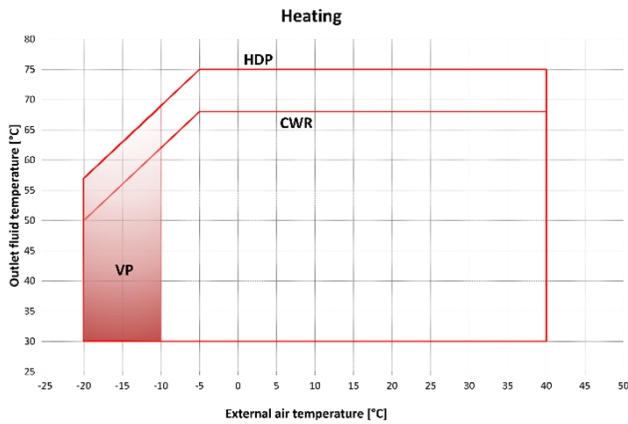
Technical data – Heat recovery – R290

PARTIAL RECOVERY															
NRE MODEL		45.1	55.1	65.1	90.1	110.1	130.1	140.1	170.2	220.2	260.2	290.2	330.2	360.2	410.2
Thermal power	kW	9,2	11,0	14,0	17,8	22,7	25,0	28,4	35,4	45,4	52,4	60,4	68,8	75,1	84,8
Water flow rate W40/45	m³/h	1,6	1,9	2,4	3,1	3,9	4,3	4,9	6,1	7,8	9,0	10,4	11,8	12,9	14,6
Water pressure drops	kPa	37	38	40	38	39	42	40	41	38	42	40	41	42	43

NOTES: Preliminary data subject to change

Operational limits – R290

HEATING



The temperature difference at the user side exchanger must be between 3K and 6K (between 12K and 20K in case of HTW version)

Operating outside the operating limits may cause the intervention of the safety devices or serious malfunctions

The water inlet temperature at the user side exchanger cannot be lower than 25°C (20°C in case of HTW version)

Within the operating limits, the ventilation section can be subject to modulation

Operating limits are subject to change based on humidity in the air

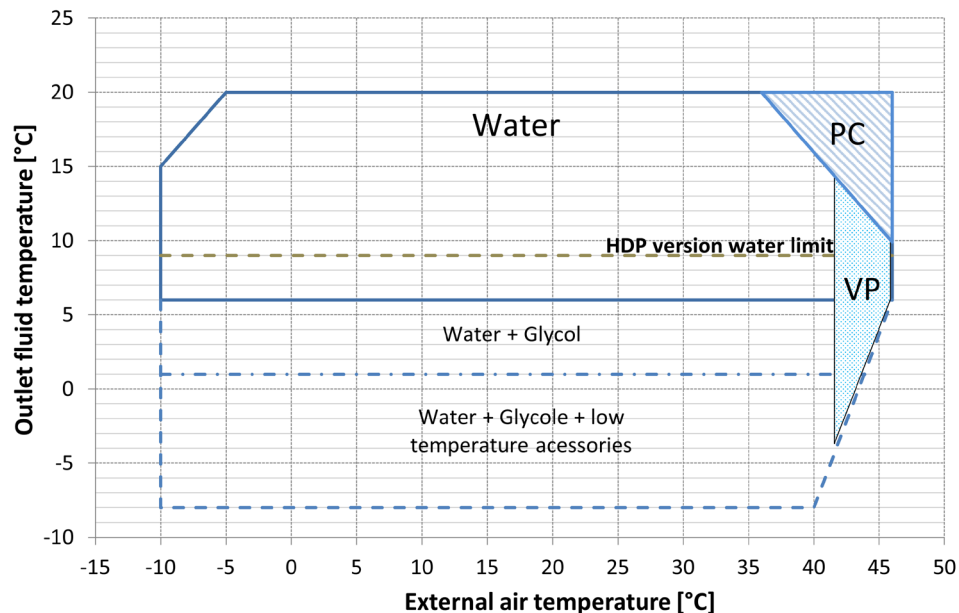
The inlet and outlet temperatures of the user exchanger must be indicated at the time of order to allow the correct setting of the alarm parameters and verification of the sizing of the expansion valve

PC = In the indicated area the control could implement a forced partialization of the compressors to avoid the intervention of the safety devices

VP = in the indicated area it's necessary to work with high volume fans

Preliminary data subject to change

COOLING



The temperature difference at the user side exchanger must be between 3K and 6K (in case of HTW version it is not possible to work on chilling mode)

Operating outside the operating limits may cause the intervention of the safety devices or serious malfunctions

The water inlet temperature at the user side exchanger cannot be higher than 25°C

Within the operating limits, the ventilation section can be subject to modulation

Within the operating limits, to limit the delivery temperature, the unit may be subject to partialization of the compressors

Operating limits are subject to change based on humidity in the air

The inlet and outlet temperatures of the user exchanger must be indicated at the time of order to allow the correct setting of the alarm parameters and verification of the sizing of the expansion valve

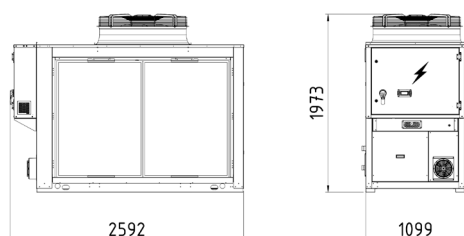
PC: In the indicated area the control could implement a forced partialization of the compressors to avoid the intervention of the safety devices

VP = in the indicated area it's necessary to work with high volume fans

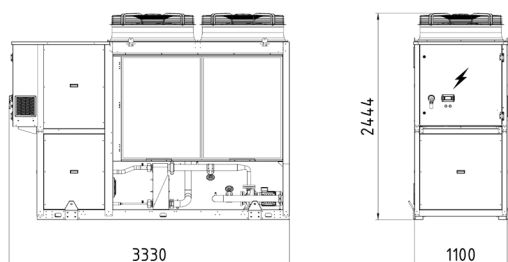
Preliminary data subject to change

Dimensional – R290

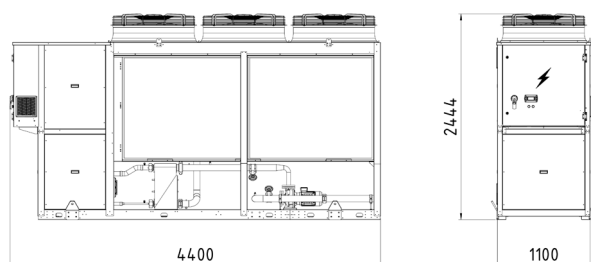
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SIZE 90.1 – 110.1 – 130.1

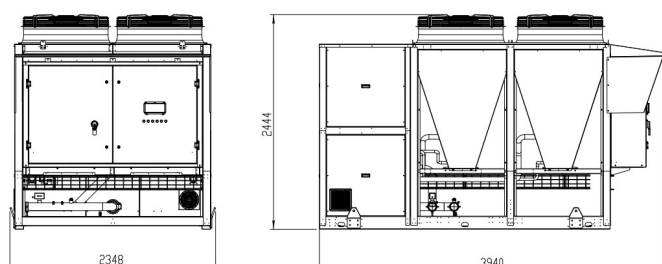


SIZE 140.1

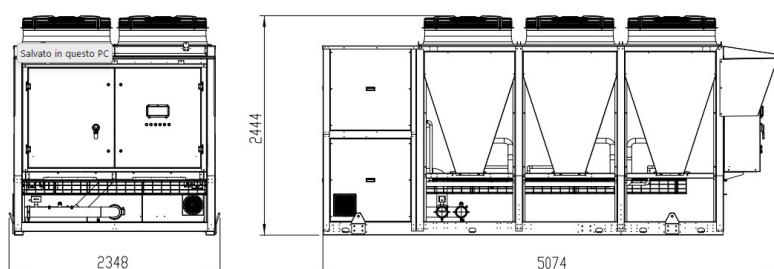


Dimensional – R290

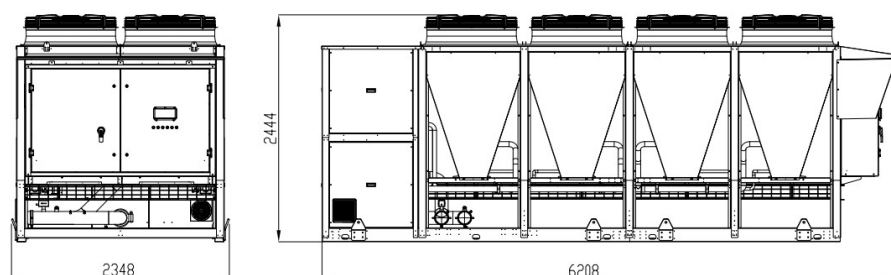
SIZE 170.2 - 220.2 – 260.2



SIZE 290.2 – 330.2



SIZE 360.2 – 410.2





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