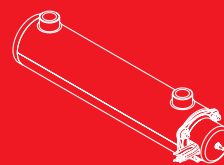


ACCESSORIES TO MEET EVERY NEED

SUPPLEMENTARY HEATING ELEMENT

Available as either 3 kW single phase or 4.5 kW single phase or three phase. Controlled by the heat pump.



REC10MH REMOTE CONTROL

System controller for full-electric systems.



OUTDOOR AIR SENSOR

Managed by the REC10MH remote control.



BUFFER TANK OF 50L

Suitable for vertical installation.



1" Y FILTER



HEAT PUMP CYLINDER

Indirect, unvented stainless-steel hot water storage cylinder with 50 litre buffer store. Pre-plumbed with pre-fabricated pipework and wiring saves installation time. Magnetic system filter included. Available in 170, 200, 250 and 300 litre capacities.

MODEL	PRODUCT CODE
170	29450639
200	29450640
250	29450641
300	29450642



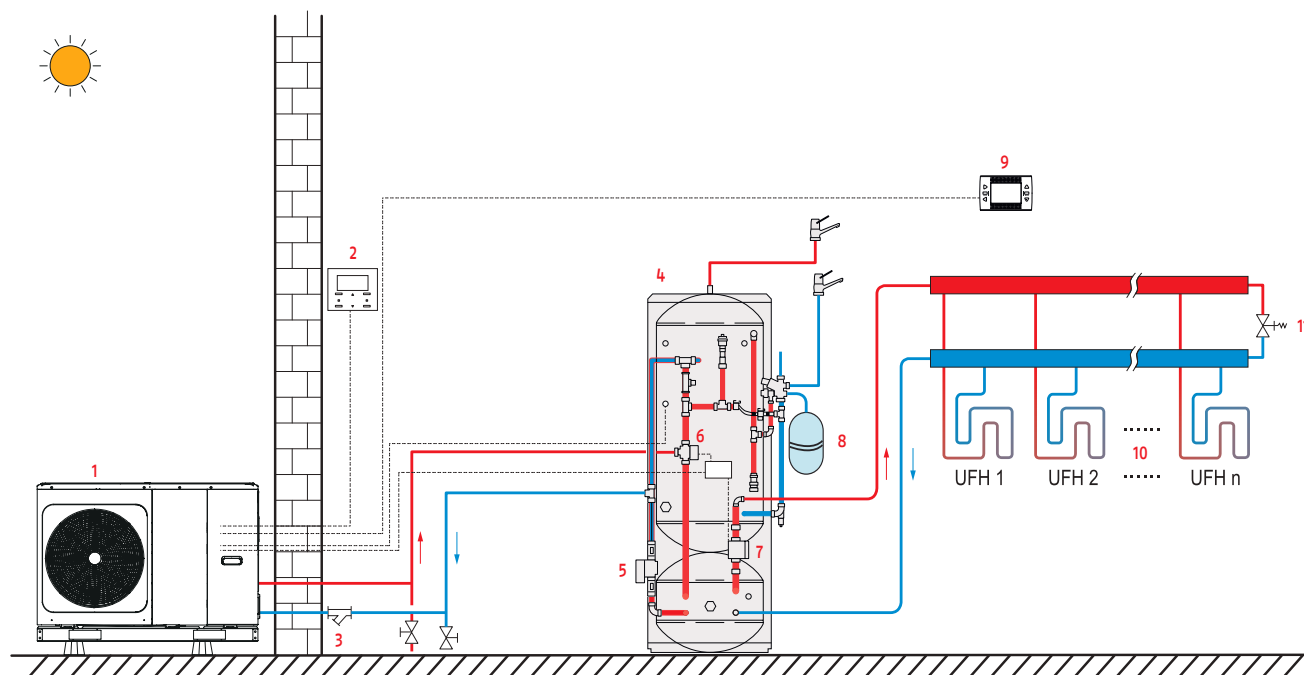
THE APPLICATIONS

The following diagram is an installation example where the only heat generator is the heat pump. This meets all the typical space heating and DHW needs of a single-family domestic home.

The REC10MH remote control coordinates system operation to guarantee optimum comfort for the occupants with the lowest possible electricity consumption.

#1 DIAGRAM: UNDERFLOOR HEATING AND DHW SYSTEM (FULL-ELECTRIC VERSION)

- | | |
|------------------------|---------------------------------|
| 1 NXHM heat pump | 7 System pump |
| 2 Heat pump controller | 8 DHW expansion vessel |
| 3 Mesh filter | 9 REC10MH controller |
| 4 Heat pump cylinder | 10 Under floor heating circuits |
| 5 Magnetic filter | 11 System by-pass |
| 6 3-way valve | |



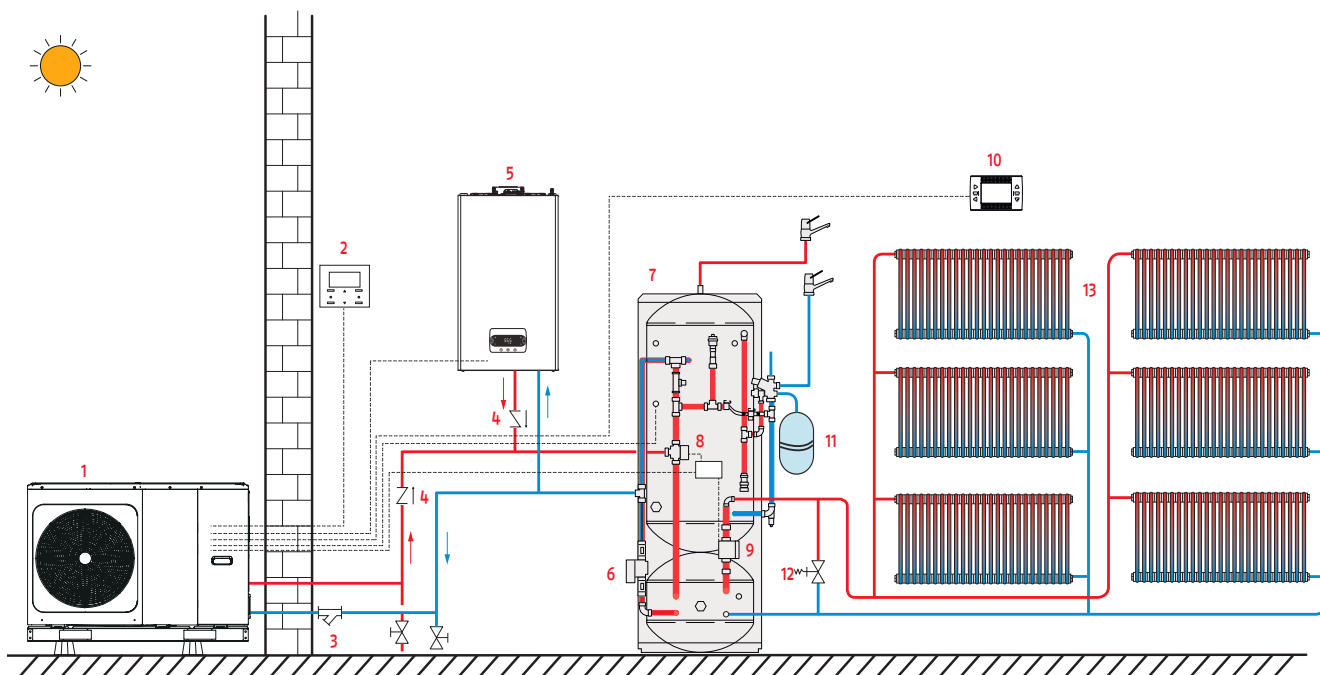
A fully indemnified system design service is available, please contact your local representative for further details.

The following diagram shows one of the possible installation configurations for a heat pump and a gas boiler that meet all the typical space heating and DHW needs of

a single-family domestic home. There are many hybrid solutions, but all of them are designed to minimise consumption without compromising the user's comfort.

#2 DIAGRAM: HEATING WITH RADIATORS AND DHW SYSTEM (HYBRID VERSION)

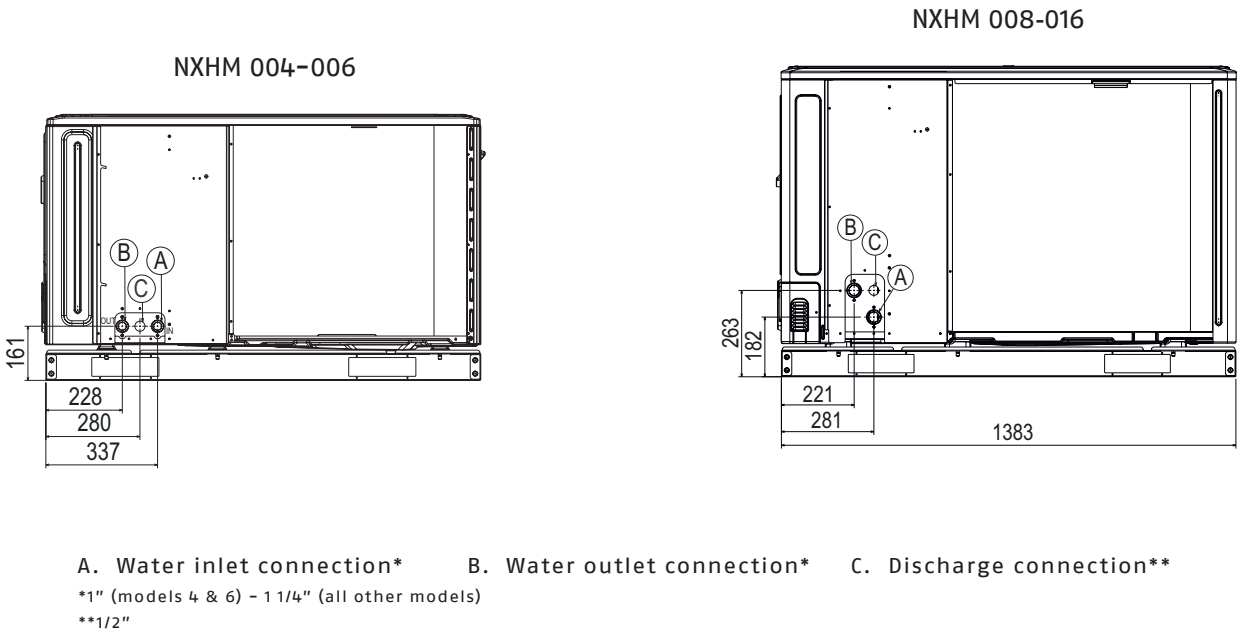
- | | |
|------------------------|-------------------------|
| 1 NXHM heat pump | 8 3-way valve |
| 2 Heat pump controller | 9 System pump |
| 3 Mesh filter | 10 REC10MH controller |
| 4 Non-return valves | 11 DHW expansion vessel |
| 5 Gas boiler | 12 System by-pass |
| 6 Magnetic filter | 13 Radiator circuit |
| 7 Heat pump cylinder | |



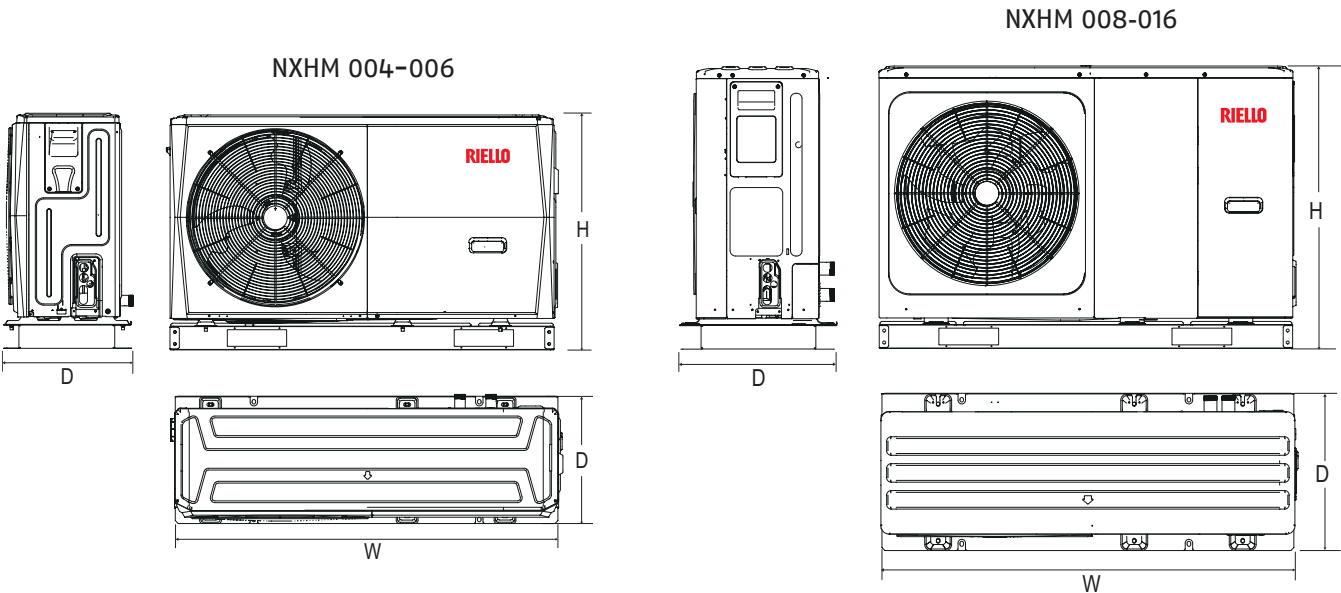
A fully indemnified system design service is available, please contact your local representative for further details.

CONNECTIONS AND TECHNICAL DATA NXHM

HYDRAULIC CONNECTIONS



TECHNICAL DRAWINGS



DIMENSIONS

	uom	4	6	8	10	12	14	16	12T	14T	16T
Product code		20191936	20191940	20191942	20191943	20191944	20191945	20191946	20191947	20191948	20191949
W - Width	mm	1295	1295	1385	1385	1385	1385	1385	1385	1385	1385
D - Depth	mm	429	429	526	526	526	526	526	526	526	526
H - Height	mm	792	792	945	945	945	945	945	945	945	945
Net weight	kg	98	98	121	121	144	144	144	160	160	160

TECHNICAL DATA

	note	uom	4	6	8	10	12	14	16	12T	14T	16T
PERFORMANCE DATA SPACE HEATING												
Performance in heating (A7°C DB; W35°C)												
Nominal heating capacity	1	kW	4.20	6.35	8.40	10.00	12.10	14.50	15.90	12.10	14.50	15.90
COP	1		5.10	4.95	5.15	4.95	4.95	4.60	4.50	4.95	4.60	4.50
SCOP	1		4.85	4.95	5.21	5.19	4.81	4.72	4.62	4.81	4.72	4.62
Performance in heating (A7°C DB; W45°C)												
Heating capacity	2	kW	4.30	6.30	8.10	10.00	12.30	14.10	16.00	12.30	14.10	16.00
COP	2		3.80	3.70	3.85	3.75	3.70	3.60	3.50	3.70	3.60	3.50
Performance in heating (A7°C DB; W55°)												
Heating capacity	3	kW	4.40	6.00	7.50	9.50	11.90	13.80	16.00	11.90	13.80	16.00
COP	3		2.95	2.95	3.18	3.10	3.05	2.95	2.85	3.05	2.95	2.85
SCOP	3		3.31	3.52	3.52	3.49	3.45	3.47	3.41	3.45	3.47	3.41
Performance in heating (A2°C DB; W35°C)												
Nominal heating capacity	4	kW	4.40	5.50	7.10	8.20	9.20	11.00	13.00	9.20	11.00	13.00
COP	4		4.00	3.90	4.10	4.00	3.90	3.60	3.45	3.90	3.60	3.45
Performance in heating (A2°C DB; W45°C)												
Heating capacity	5	kW	5.10	5.80	7.40	7.85	10.60	11.50	12.70	10.60	11.50	12.70
COP	5		3.00	3.00	3.25	3.20	3.00	2.85	2.85	3.00	2.85	2.85
Performance in heating (A2°C DB; W55°)												
Heating capacity	6	kW	5.10	5.65	7.10	8.10	11.30	12.40	13.30	11.30	12.40	13.30
COP	6		2.45	2.45	2.60	2.56	2.50	2.45	2.40	2.50	2.45	2.40
Performance in heating (A-7°C DB; W35°C)												
Nominal heating capacity	7	kW	4.70	6.00	7.00	8.00	10.00	12.00	13.10	10.00	12.00	13.10
COP	7		3.10	3.00	3.20	3.05	3.00	2.85	2.70	3.00	2.85	2.70
Performance in heating (A-7°C DB; W45°C)												
Heating capacity	8	kW	4.30	5.40	6.60	7.35	10.20	11.70	12.80	10.20	11.70	12.80
COP	8		2.35	2.40	2.55	2.55	2.40	2.35	2.25	2.40	2.35	2.25
Performance in heating (A-7°C DB; W55°)												
Heating capacity	9	kW	4.00	5.15	6.15	6.85	9.80	11.00	12.50	9.80	11.00	12.50
COP	9		1.95	2.00	2.05	2.00	2.05	2.05	2.00	2.05	2.05	2.00
ENERGY EFFICIENCY SPACE HEATING												
Energy efficiency class (W35°C)	10		A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++
Energy efficiency class (W55°C)	11		A++	A++	A++	A++	A++	A++	A++	A++	A++	A++
SOUND DATA												
Sound pressure	12	dB(A)	45.0	47.5	48.5	50.5	53.0	53.5	57.5	53.5	54.0	58.0
Sound power	13	dB(A)	55	58	59	60	65	65	68	65	65	68
ELECTRICAL DATA												
Supply voltage		V/ph/Hz	230/1/50						400/3/50			

(1) Outside air temperature 7°C DB; 6°C WB; water inlet/outlet 30/35°C

(2) Outside air temperature 7°C DB; 6°C WB; water inlet/outlet 40/45°C

(3) Outside air temperature 7°C DB; 6°C WB; water inlet/outlet 47/55°C

(4) Outside air temperature 2°C DB; 1°C WB; water inlet/outlet 30/35°C

(5) Outside air temperature 2°C DB; 1°C WB; water inlet/outlet 40/45°C

(6) Outside air temperature 2°C DB; 1°C WB; water inlet/outlet 47/55°C

(7) Outside air temperature -7°C DB; -8°C WB; water inlet/outlet 30/35°C

(8) Outside air temperature -7°C DB; -8°C WB; water inlet/outlet 40/45°C

(9) Outside air temperature -7°C DB; -8°C WB; water inlet/outlet 47/55°C

(10) Value referring to the average climatic profile for a 35°C delivery temperature. Values complying with regulation 811/2013

(11) Value referring to the average climatic profile for a 55°C delivery temperature. Values complying with regulation 811/2013

(12) Measured at a position 1m in front of the unit and (1+unit height)/2m above the floor in semi-anechoic chamber

(13) Declared value in compliance with the EN 12102-1