

Hydro Free Low-Temperature

Heating mode only



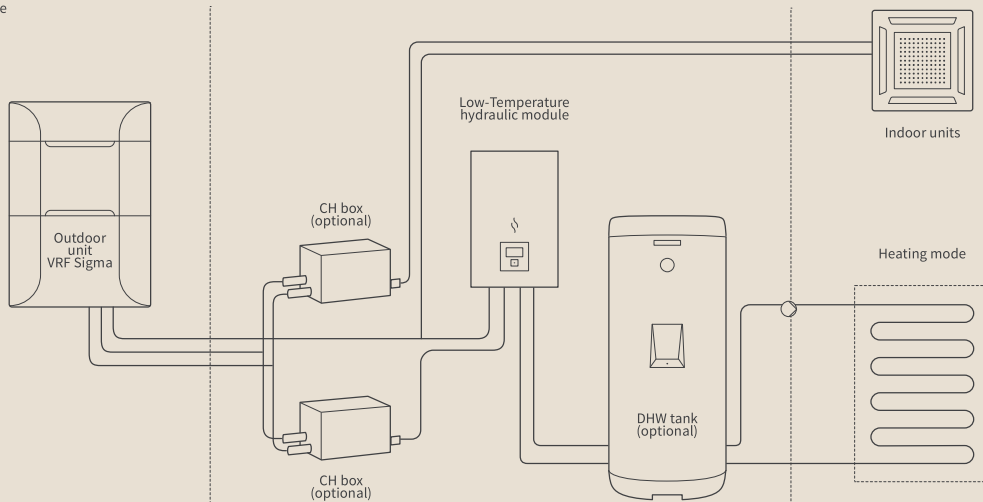
Heating applications

The Hydro Free module (low temperature, 45°C) is compatible with underfloor heating and fan coil units. This solution ensures maximum thermal comfort with the DX/hydraulic combined solution. This compact and ultra-silent module offers the most comfort for renovation projects.

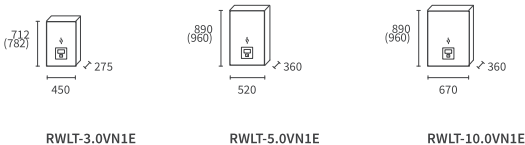
Compactness

A single solution: the VRF installation is made even easier with the Plug-Play system. The module has all the necessary equipment as standard: pump, filter, expansion tank, purges, manometer ...

Setup example



Indoor units



Compatible with outdoor units SET FREE SIGMA: RAS-FSXNSE, RAS-FSXNPE and SET FREE Mini L (8/10/12hp).

Indoor units		Unit	RWLT-3.0VN1E	RWLT-5.0VN1E	RWLT-10.0VN1E
Rated power Heating (7°C outside / 35°C water)		kW	9	16	27
Heating capacity (-7°C outside / 35°C water)		kW	5.5	11.5	17.7
Heating capacity (-7°C outside / 45°C water)		kW	5.2	11.1	15.61
Sound power		dB(A)	37	39	47
Net weight		kg	35	50	62
Unit dimensions	Height (with connections)	mm	712 (782)	890 (960)	890 (960)
	Width	mm	450	520	670
	Depth	mm	275	360	360
Water flow	Nominal	m ³ /h	1.5	2.7	4.7
Min. system water capacity		L	100	150	180
Power supply		-	1~ 230V 50Hz		
Max. consumption		kW	0.05	0.08	0.14
Refrigeration connection type		-	Flare nut	Flare nut	Liq: Flare nut - Gas: Brazed
Diameter of pipes (Liq - Gas)		inches	3/8" - 5/8"	3/8" - 5/8"	3/8" - 7/8"
Hydraulic connections (male/male valves supplied)		inches	1"	1 - 1/4"	1 - 1/4"
Hydrofree connection rate		-	0 ~ 100%		
Min. overall index of DX* units		-	50%		
General connection rate of Hydrofree + DX units	2-pipe VRF*	-	50% ~ 130%		
	3-pipe VRF*(2)	-	RAS-FSXNSE: 50% ~ 150%		
		-	RAS-FSXNPE: 50% ~ 200%		
Max. number of indoor units with Hydrofree installed ⁽¹⁾		-	38		
Temperature range of water outlet in heating mode		-	20°C ~ 45°C		

* Important: simultaneous operation can never be higher than 100% in heat pump mode.

Simultaneous operation in the same mode can never exceed 100% for a VRF system in heat recovery mode.

⁽¹⁾ The maximum number of indoor units is the recommended quantity of indoor units for every size of outdoor unit. For more information, please refer to the technical catalog of the outdoor unit.

⁽²⁾ See Section 9.5.2.2 "Function of DIP switches and dial switches" in the technical catalog for more information on Pin 3 of the DSW8 with a connection rate of > 180%.

You can have multiple contacts with the connector PCC-1A: progress report, error report, thermostat control, remote "Start/Stop".

Controls and compatible accessories (see page 48)



ON/OFF wireless thermostat
ATW-RTU-04



Controller enclosure
ATWFCP-01



Temperature sensors
ATW-2OS-02
ATW-ITS-01
ATW-WTS-02Y



Hydro Free High-Temperature

Heating mode only



For a variety of applications

- High-temperature heating: combined with the VRF Sigma or SET FREE Mini 2/3-pipe.
- Constant DHW production: combined with the VRF Sigma or 3-pipe SET FREE Mini.
- Timed DHW production: combined with the VRF Sigma or 3-pipe SET FREE Mini.

The Hydro Free high-temperature system is ideal for high-temperature hot water needs for renovation projects, as heat is recovered via the CH box on indoor units operating in cooling mode.

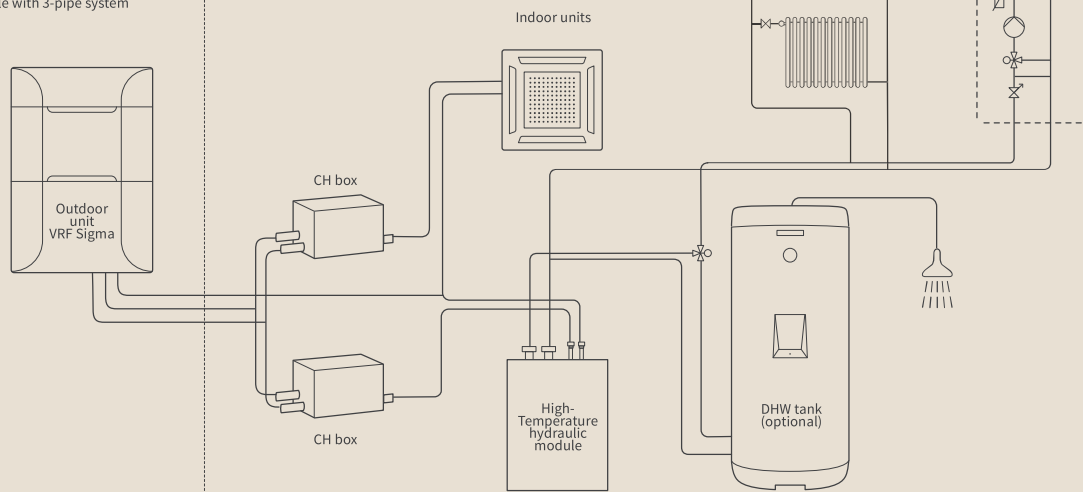
2-in-1 system

A single unit to meet 2 needs: **heating and DHW**. The High-Temperature Hydro Free system produces hot water up to 80°C from renewable energy (no anti-legionella cycle required).

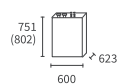
Smart operation

High-Temperature Hydro Free models are equipped with 2 compressors operating on a smart cascading system, and 2 refrigeration cycles (R-410A and R-134A): the second cycle occurs only if the inlet temperature is greater than or equal to 30°C or when the outlet temperature is greater than or equal to 45°C.

Setup example with 3-pipe system



Indoor units



RWHT-5.0VNF1E

Indoor units		Unit	RWHT-5.0VNF1E
Rated power Heating (7°C outside / 35°C water)		kW	16
Heating capacity (-7°C outside / 65°C water)		kW	13.9
Heating capacity (-7°C outside / 80°C water)		kW	12.4
Sound power		dB(A)	57
Net weight		kg	129
Unit dimensions	Height (with connections)	mm	751(802)
	Width	mm	600
	Depth	mm	623
Water flow	Nominal	m³/h	2.8
Min. system water capacity		L	80
Power supply		-	1~ 230V 50Hz
Max. consumption		kW	6.23
Refrigeration connection type		-	Flare nut
Diameter of pipes (Liq - Gas)		inches	3/8" - 5/8"
Hydraulic connections (male/male valves supplied)		inches	1-1/4" - 1-1/4"
Refrigerant		-	R134A
Compressor		-	Scroll
Hydro free connection rate		-	0 ~ 100%
Total ratio of DX when installed with Hydro free*		-	50% ~ 130%
Total connection rate Hydrofree + DX	2-pipe* VRF	-	50% ~ 130%
	3-pipe* VRF	-	RAS-FSXNSE: 50% ~ 150%
		-	RAS-FSXNPE: 50% ~ 200%
Max. number of indoor units with HM installed		-	38
Max. temperature range of water outlet		-	25°C ~ 80°C
Remote control		-	PC-ARFWE (mounted locally)

* Important: simultaneous operation can never be higher than 100% in heat pump mode.
 Simultaneous operation in the same mode can never exceed 100% for a heat recovery system.
 (1 *) The maximum number of indoor units is the recommended quantity of indoor units for every size of outdoor unit. For more information, please refer to the technical catalog of the outdoor unit.
 (* 2) See Section "9.5.2.2 Function of DIP switches and dial switches" for more information on Pin 3 of the DSW8 with a connection rate of > 180%.

You can have multiple contacts with the PCC-1A connector: progress report, error report, thermostat control, remote "Start/Stop".

Controls and compatible accessories (see page 60)



Controller
PC-ARFWE



ON/OFF wireless thermostat
ATW-RTU-04



Temperature sensors
ATW-2OS-02
ATW-ITS-01
ATW-WTS-02Y

