

Subject to modifications without notice. Non contractual document. Air to Water Heat Pump Split system

Packing list

Heat Pump	Outdoor Unit	Hydraulic Unit
Model	Reference	Reference
Waterstage Comfort 5	WOYA060LFCA	WSYA050DG6
Waterstage Comfort 6	WOYA060LFCA	
Waterstage Comfort 8	WOYA080LFCA	WSYA100DG6
Waterstage Comfort 10	WOYA100LFTA	-
Waterstage High Power 112 single phase	WOYG112LCTA	
Waterstage High Power 140 single phase	WOYG140LCTA	WSYG140DG6
Waterstage High Power 112 3-phase	WOYK112LCTA	
Waterstage High Power 140 3-phase	WOYK140LCTA	WSYK160DG9
Waterstage High Power 160 3-phase	WOYK160LCTA	

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ERP values High power	

1 Safety instructions

Please comply with the following instructions in order to avoid any risk of injury or inappropriate use of the appliance.

• Start-up

- Do not switch the appliance on until every fillings have been done.
- ☞ Do not try to install this appliance yourself.
- This heat pump requires an appropriately qualified person to install it.
- The installation must always be connected to the Earth and fitted with a protective circuit breaker.
- Do not modify the electricity supply.
- The appliances are not fireproof and should therefore not be installed in a potentially explosive atmosphere.

• Use

- Do not let children insert foreign bodies into the fan protection grill or climb on top of the outdoor unit. The fins on the air exchanger are extremely fine and cause cuts.
- ☞ Nothing should obstruct the air circulation through the evaporator and from the fan.
- The outdoor unit must only be installed outdoor (outdoors). If a shelter is required, it must have broad openings on the 4 walls and observe the installation clearances (see with your installer).
- Do not climb on the top of the outdoor unit.
- The room in which the appliance is operating must be correctly ventilated in order to prevent any loss of oxygen if there is an escape of refrigerant gas.
- Consult your Installer before making any changes or modifications to the premises where the appliance is installed.
- Do not place any heat source under the room control unit.

Maintenance

- Do not try to repair this appliance yourself.
- This appliance does not contain any components capable of being repaired by the user himself. Removing one or other of the covers can expose you to dangerous electrical voltages.
- In any case, switching off the current is not sufficient to protect you from any external electrical shocks (capacitors).
- To not open the outdoor unit or the hydraulic unit while they are operating.
- Switch off the power supply if there are any abnormal noises, smells or smoke coming from the appliance and contact your installer.
- Switch off the power to the appliance before you clean it.
- Do not use aggressive cleaning liquid or solvents to clean the body work.
- Do not use a pressure washer to clean the outdoor unit. This could damage the air exchanger and the water might penetrate into the electrical circuits.

2 Overall view of the installation

2.1 Precautions and warnings regarding your installation.

2.1.1 The outdoor unit

The outdoor unit contains the equipment for capturing energy from the ambient air.

Your installer has placed this unit in a location that enables it to operate in an optimum manner.

Nothing should obstruct the air circulation through the evaporator and from the fan.

The water that the air contains condenses and flows from the external unit.

In cold periods, this water freezes in contact with the exchanger and is drained away by regular defrosting cycles. The control system automatically controls the defrosting cycle, whose operation can lead to the quite normal emission of steam.

2.1.2 The hydraulic unit

The hydraulic unit contains the heat pump complete control system, in charge of controlling the heating comfort level (and the production of domestic hot water if the installation is fitted with a DHW tank with electrical back-up heating).

The heat pump is equipped with an electrical back-up system, which is designed to provide additional heat during the coldest periods.

2.1.3 Control system

Your installer has carefully adjusted your installation. Do not modify setting parameters without his agreement. If in doubt, do not hesitate to contact him.

The control system for your heating system is designed in flow temperature for the water based on the outdoor temperature (water control).

The installation of a room thermostat (option) allows to improve operation of the regulation (the influence of the room temperature is taken into account).

2.1.4 The radiators

To ensure the function of the regulation with room influence, it's necessary that the room in which the room thermostat is installed has no thermostatic valve or that they must be completely open.

2.1.5 Floor-heating systems

New floor-heating systems require to be initially heated slowly to avoid any problems with cracking. Check with your installer that this initial heating procedure has indeed been performed before using your heating system freely.

The great stability in a regulation system for floor-heating systems avoids sharp differences in temperature. However, this stability involves a reaction time of the order of several hours, (approx 6 hours).

Any changes to the setting must be made slowly, leaving the installation time to react. Adjusting the system to exaggerated setting or in an untimely manner always results in significant temperature fluctuations during course of the day.

Similarly if your dwelling has a floor-heating system, do not reduce the heating or switch it off if you will be absent for a short period. The reheating period is always quite long (approx 6 hours).

2.1.6 Fan convectors / Dynamic radiators with integrated control system

Do not use a room sensor in the area.

2.1.7 Domestic hot water (DHW)

When the DHW production is required, the heat pump adapts to this demand with higher priority.

No space heating is produced while the domestic hot water is being prepared.

Domestic hot water (DHW) is produced by the heat pump and then topped up, if necessary, by electrical backup heating or the boiler.

To ensure a DHW setting over 45°C, the electrical backup heating or the boiler must be left on (Optional boiler connection kit).

The electrical back-up heating enables anti-legionella cycles to be conducted efficiently.

2.2 End of life of the device

Disassembly and recycling shall be handled by a qualified body. Wild disposal is strickly prohibited.

At the end-of-life of the equipment, please contact your installor or any local representant to proceed to disassembly and recycling.

2.3 Overall view of the installation

Your heat pump has been configured by your installer. It is composed of the following main elements:

- The outdoor unit is positioned, as its name indicates, outdoor your dwelling and extracts energy from the outdoor air.
- The hydraulic unit positioned in your boiler room, cellar, garage or even your kitchen, transfers the energy to the heating circuit (and the domestic hot water).

- The outdoor sensor detects the outdoor temperature.

Optional equipment:

- Room thermostat.
- Room control unit.

Heat pumps are systems that can be connected to any form of **low temperature heat distribution systems** : the heat captured by the heat pump can therefore be used in different ways:

- Floor-heating systems.
- Radiators or fan coil heaters.
- Domestic hot water (DHW).

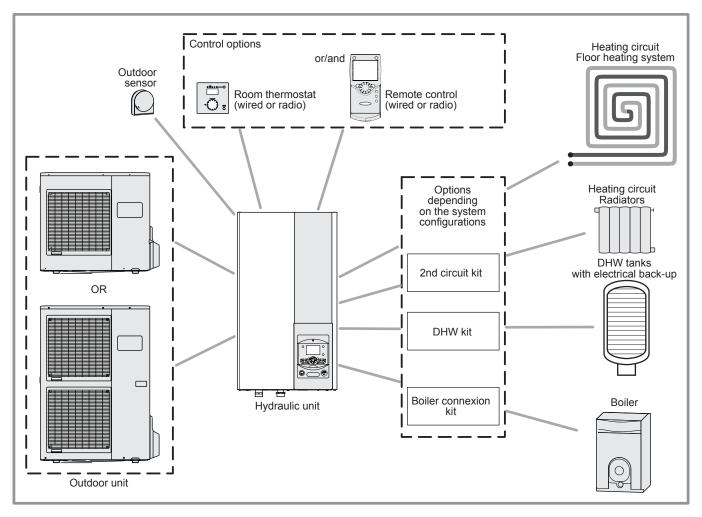
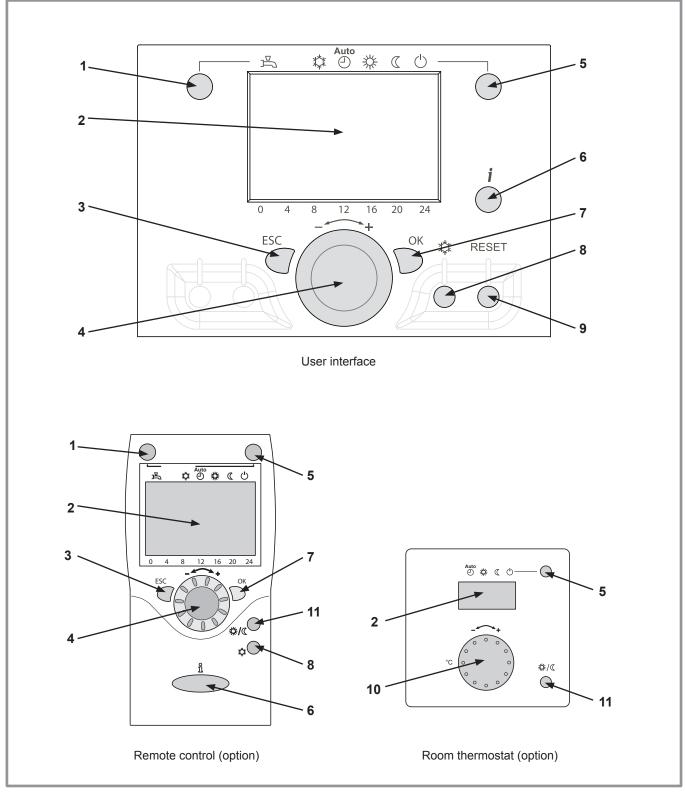


figure 1 - Overall view of the configuration of a complete installation

3 Operation of the installation

3.1 User interface, Room control unit (option) and Room thermostat (option)





Ref.	Functions	- Definitions
1	Selecting of the DHW operating mode (Domestic hot water). On Off	 If the installation is fitted with a DHW tank. On: Production of DHW according to the time program. Off: Preparing the domestic hot water for stopping with the anti-frost function active. Manual start button: Hold down the DHW key for 3 seconds. Switch from "reduced" to "comfort" until the next time the ECS timer switches over.
2	Digital display.	- Operating control. Readout of the current temperature, of the heating mode and of any faults $\ \hfill \Delta$.
		- View the settings.
3	Exit "ESC".	- Quit the menu.
4	Navigation and setting.	 Selecting the menu. Setting parameters. Adjusting the ambient temperature setpoint.
5	Selecting the heating mode.	 - [™] Heating operating according to the heating program (Summer/winter mode switchover is automatic). - [₩] Constant comfort temperature. - ^ℂ Constant reduced temperature. - ^ℂ Stand-by mode with anti-frost protection (Provided that the heat pump's electrical power supply is not interrupted).
6	Information display.	 Various data (see page 18). - ↔ Reading error codes (see Installation and operating manual). - ✓ Information concerning maintenance, special mode.
7	Confirm "OK".	 Input into the selected menu. Confirmation of the parameter settings. Confirmation of the adjustment to the comfort temp. setting.
8	Selecting cooling mode.	 If the installation is fitted with the cooling kit: Cooling operating according to the heating program (Summer/winter mode switchover is automatic).
9	RESET button (Brief press)	 Reinitialising the parameters and cancelling error messages. Do not use during normal operation.
10	Control knob.	- Adjusting the ambient temperature setpoint.
11	Presence key.	- Comfort / Reduced switchover.

3.2 Description of the display

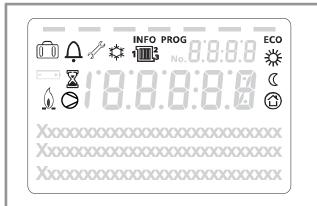
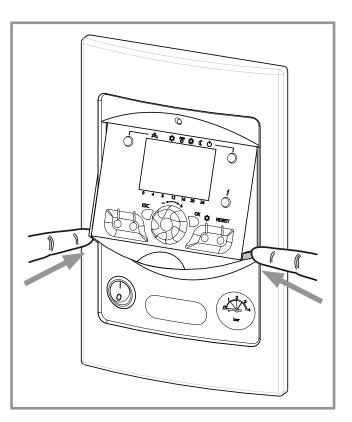


figure 3 -

Symbols	Definitions
1]]]]]2 3	 Heating mode active with reference to the heating circuit.
*	- Heating in comfort mode.
Q	- Heating in reduced mode.
	 Heating in "standby" mode (freeze protection).
\$	- Cooling mode active.
	- Holiday mode activated.
X	- Process in progress.
Ø	- Compressor operation.
$\mathbf{\hat{o}}$	- Burner operation.
Ļ	- Default message.
de la companya	- Service / Special operation.
INFO	- Information level activated.
PROG	- Program activated.
ECO	- ECO mode activated (Heating temporarily stopped).
1828 © 182 © 1828 © 182	- Hour / Parameter number / Setpoint value.
IB28 20.55 tomporature ambiante 	- Room temperature / Setpoint value.
1828 ¢ 2 D.S.E temperature ambiante	- Setpoint information / Parameter Information.





3.3 Appliance start up

- The installation and 1st start up of the appliance must be done by a qualified installer. That person will also give you instructions on starting and running the appliance.
- Ensure that the installation is fully filled with water and has been correctly bled and that there is a sufficient pressure of 1,5 to 2 bars on the manometer (ref. **2**, figure 5).
- Close the installation's main circuit breaker.

In winter, so that the compressor can be preheated, close the installation's main circuit breaker (outdoor unit's power supply) some hours before pressing the on/off button.

3.4 Quick start-up

Once your installer has started your installation for the first time:

• Engage the start/stop switch.

During the regulator initialisation phase, the display shows all the symbols and then "Data, update" and then "State heat pump".

- Select the "AUTO" heating mode (figure 6).
- Select the DHW mode (figure 6).
- Adjust the date and time if necessary (figure 7).

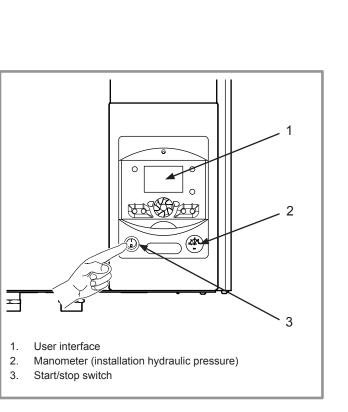


figure 5 - Start-up

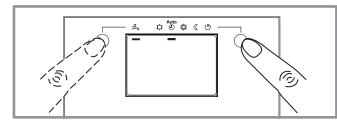
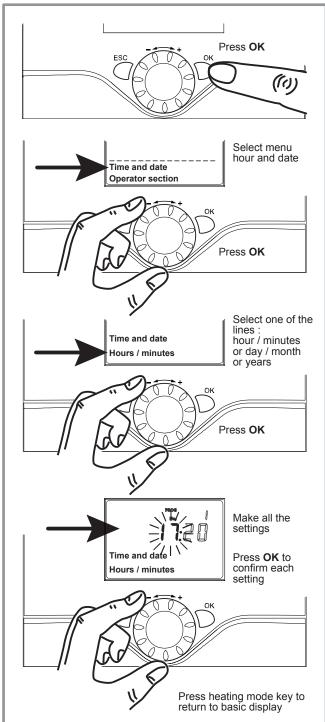


figure 6 - Selecting the heating mode AUTO and Select the DHW mode





3.5 Setting the time

	Keys	Display example	Description
1		≗ [®] ≉ € ७	Basic display
	ESC	Room temperature	If the basic display is not shown, press ESC to return to it
	OK	0 4 8 12 16 20 24	Press OK to confirm.
2	i di ji	بتمود Time and date	Turn the knob Select menu hour and date
	ОК	Operator section 0 4 8 12 16 20 24	Press OK to confirm.
3			Turn the knob
		18:28 Time and date Hours / minutes	Select line 1 Hours / minutes
	OK	0 4 8 12 16 20 24	Press OK to confirm.
4		<u> </u>	The hour display flashes
	OK.	Time and date Hours / minutes	Turn the knob to set the time
	\square		Press OK to confirm.
5	-	≗ ® * C O	The minutes display flashes
		Time and date Hours / minutes	Turn the knob to set the minutes
	OK	0 4 8 12 16 20 24	Press OK to confirm.
6		≞ ®≉€ 0	The setting are recorded
	\bigcirc	Time and date	Turn the knob to make other settings
	<mark>۸۳۵ 🕸 ۲ د د ا</mark>	Hours / minutes	or Press heating mode key to return to

figure 8 -

3.6 Structure of the "End user" control menu

press	
End user Com	missioning Engineer OEM
	ок ок об
Time of day and date	Hours / minutes 1 Day / Month 2 Year 3
Operator section	Language 20 English, German
Time prog heating circuit 1 Time prog heating circuit 2 Time program 4/DHW	Pre-selection5001st phase on5011st phase off5022nd phase on5032nd phase off5043rd phase on5053rd phase off506Copy515Default values516
Holidays heating circuit 1 –	Pre-selection6411st phase on6421st phase off643Operation level648Period 8
Heating circuit 1	Comfort setpoint 710 Reduced temp 28 °C Reduced setpoint 712 Temp. frost protect comfort Frost protect. setpoint 714 4 °C reduced temp.
Domestic hot water	Nominal setpoint 1610 Reduced temp 65 °C
Fault	Reset HP 6711 No, Yes
Service/special operation	Emergency operation7141 Off, On
Diagnostics heat generation	Return temp HP 8410 Flow temp HP 8412 Compressor modulation 8413
Diagnostics consumers	Outdside temp. 8700 Reset outside temp min8701 Reset outside temp max 8702 Swimming pool temp.8900

figure 9 -

3.7 Parametering the setting

3.7.1 General

- Only the parameters accessible to levels: End user
- ... are described in this document.

The parameters accessible at level:

Commissioning

Engineer

... are described in the document reserved for these professional specialists. Do not make any modifications to these parameters without advice from these professional specialists. Incorrect use of any kind may result in serious malfunctioning.

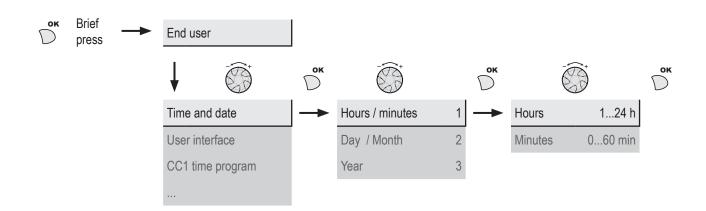
3.7.2 Setting parameters

With the screen on basic display. - Press **OK**.

Once in "End user" level.

- Scroll the menu list.
- Choose the desired menu.
- Scroll the function lines.
- Choose the desired line.
- Adjust the parameter.
- Check the setting by pressing OK.
- To return the menu, press ESC.

If no setting is made for 8 minutes, the screen returns automatically to the basic display.



3.7.3 List of "End user" settings

Line		Function	Setting range or display	Setting increment	Basic setting
Time of	day	and date			
1	U	Hours / Minutes	00:00 23:59	1	
2	U	Day / Month	01.01 31.12	1	
3	U	Year	1900 2099	1	
Operate	or See	ction			
20	U	Language	English, Français, Italiano, Nederlands		English

Function	Setting range or display	Setting increment	Basic setting
ram heating / cooling, circuit 1			
Pre-selection (Day / Week)	Mon-Sun, Mon-Fri, Sat-Sun, Monday, Tuesday, …		Mon-Sun
1st phase On (start)	00:00:	10 min	6:00
1st phase Off (end)	00:00:	10 min	22:00
2nd phase On (start)	00:00:	10 min	:
2nd phase Off (end)	00:00:	10 min	:
3rd phase On (start)	00:00:	10 min	:
3rd phase Off (end)	00:00:	10 min	:
Default values, Circuit 1	No, Yes		No
	ram heating / cooling, circuit 1 Pre-selection (Day / Week) 1st phase On (start) 1st phase Off (end) 2nd phase Off (end) 2nd phase Off (end) 3rd phase On (start) 3rd phase Off (end)	or displayram heating / cooling, circuit 1Pre-selection (Day / Week)Mon-Sun, Mon-Fri, Sat-Sun, Monday, Tuesday,1st phase On (start)00:00:1st phase Off (end)00:00:2nd phase Off (end)00:00:2nd phase Off (end)00:00:3rd phase On (start)00:00:3rd phase Off (end)00:00:	or display increment ram heating / cooling, circuit 1 Pre-selection (Day / Week) Mon-Sun, Mon-Fri, Sat-Sun, Monday, Tuesday, 1st phase On (start) 00:00: 10 min 1st phase Off (end) 00:00: 10 min 2nd phase Off (end) 00:00: 10 min 2nd phase Off (end) 00:00: 10 min 3rd phase Off (end) 00:00: 10 min 3rd phase Off (end) 00:00: 10 min

Yes + OK: The default values memorised in the regulator replace and cancel the customised heating programs. Your customised settings are therefore lost.

Time program heating / cooling, circuit 2

	Only with the 2nd circuit kit option.			
520	Pre-selection (Day / Week)	Mon-Sun, Mon-Fri, Sat-Sun, Monday, Tuesday,		Mon-Sun
521	1st phase On (start)	00:00:	10 min	6:00
522	1st phase Off (end)	00:00:	10 min	22:00
523	2nd phase On (start)	00:00:	10 min	:
524	2nd phase Off (end)	00:00:	10 min	:
525	3rd phase On (start)	00:00:	10 min	:
526	3rd phase Off (end)	00:00:	10 min	:
536	Default values, Circuit 2	No, Yes		No

Yes + OK: The default values memorised in the regulator replace and cancel the customised heating programs. Your customised settings are therefore lost.

Time program 4 / DHW

560	Pre-selection (Day / Week)	Mon-Sun, Mon-Fri, Sat-Sun, Monday, Tuesday, …		Mon-Sun
561	1st phase On (start)	00:00:	10 min	00:00
562	1st phase Off (end)	00:00:	10 min	05:00
563	2nd phase On (start)	00:00:	10 min	14:30
564	2nd phase Off (end)	00:00:	10 min	17:00
565	3rd phase On (start)	00:00:	10 min	:
566	3rd phase Off (end)	00:00:	10 min	:
576	Default values	No, Yes		No

Yes + OK: The default values memorised in the regulator replace and cancel the customised heating programs. Your customised settings are therefore lost.

Holidays, heating circuit 1 (For the Holiday program is active, the heating mode should be on AUTO).					
641	Preselection	Period 1 to 8		Period 1	
642	Period Start (Day / Month)	01.01 31.12	1		
643	Period End (Day / Month)	01.01 31.12	1		
648	Operating level	Frost protection, Reduced		Frost protection	

Air to Water Heat Pump Split system

Line	Function	Setting range or display	Setting increment	Basic setting	
Holidays,	heating circuit 2 (For the Holiday program	is active, the heating mode should be on AU	ГО).		
	If the installation consists of 2 heating c	ircuits (Only with the 2nd circuit kit option).			
651	Preselection	Period 1 to 8		Period 1	
652	Period Start (Day / Month)	01.01 31.12	1		
653	Period End (Day / Month)	01.01 31.12	1		
658	Operating level	Frost protection, Reduced		Frost protection	
Heating ad	djustment, circuit 1				
710	Comfort setpoint	Reduced setpoint Comfort setpoint maximum	0,5 °C	20 °C	
712	Reduced setpoint	Frost protection setpoint Comfort setpoint	0,5 °C	19 °C	
714	Frost protection setpoint	4 °C Reduced setpoint	0,5 °C	3° 8	
Cooling ci	rcuit 1				
	If the installation is fitted with the cooling	g kit (Only with the cooling kit option).			
901	Operating mode	Protection, Automatic, Reduced Comfort	3	Protection	
902	Comfort cooling setpoint	17 40 °C	0,5 °C	24 °C	
903	Reduced setpoint	5 40°C		26 °C	
Heating ad	ljustment, Circuit 2				
	Only with the 2nd circuit kit option (If the installation consists of 2 heating circuits).				
1010	Comfort setpoint	Reduced setpoint Comfort setpoint maximum	0,5 °C	20 °C	
1012	Reduced setpoint	Frost protection setpoint Comfort setpoint	0,5 °C	19 °C	
1014	Frost protection setpoint	4 °C Reduced setpoint	0,5 °C	8 °C	
Cooling ci	rcuit 2				
	If the installation is fitted with the cooling	g kit (Only with the cooling kit option).			
1201	Operating mode	Protection, Automatic, Reduced Comfort	,	Protection	
1202	Comfort cooling setpoint	17 40 °C	0,5 °C	24 °C	
1203	Reduced setpoint	5 40°C		26 °C	
Domestic	hot water				
	If the installation is fitted with the DHW	kit.			
1600	Operating mode	Off, On, Eco		On	
1610	Nominal setpoint	Reduced setpoint (line 1612) 65 °C	1	55 °C	
	The backup electrical system is required	d to reach this level.			
1612	Reduced setting	8 °C Nominal setting (line 1610)	1	40 °C	
Swimming	pool (Only with swimming pool kit option	on)			
2055	Setpoint solar heating	8 80 °C		26 °C	
2056	Setpoint source heating	8 35 °C		22 °C	

Line		Function	Setting range or display	Setting increment	Basic setting
Energy	mete	r			
3113	U	Amount of gas brought in			
		Cumulation of total consumed electrical e Electrical energy consumed = Electrical energy electrical backup and / or DHW el	rgy absorbed by outdoor unit + ele	ectric energy absorb	ed by the heating
3124	U	Energy brought in heating 1 (N - 1)			
3125	U	Energy brought in DHW 1			
3126	U	Energy brought in cooling 1			
3131	U	Energy brought in heating 2 (N - 2)			
3132	U	Energy brought in DHW 2			
3133	U	Energy brought in cooling 2			
3138	U	Energy brought in heating 3 (N - 3)			
3139	U	Energy brought in DHW 3			
3140	U	Energy brought in cooling 3			
3145	U	Energy brought in heating 4 (N - 4)			
3146	U	Energy brought in DHW 4			
3147	U	Energy brought in cooling 4			
3152	U	Energy brought in heating 5 (N - 5)			
3153	U	Energy brought in DHW 5			
3154	U	Energy brought in cooling 5			
3159	U	Energy brought in heating 6 (N - 6)			
3160	U	Energy brought in DHW 6			
3161	U	Energy brought in cooling 6			
3166	U	Energy brought in heating 7 (N - 7)			
3167	U	Energy brought in DHW 7			
3168	U	Energy brought in cooling 7			
3173	U	Energy brought in heating 8 (N - 8)			
3174	U	Energy brought in DHW 8			
3175	U	Energy brought in cooling 8			
3180	U	Energy brought in heating 9 (N - 9)			
3181	U	Energy brought in DHW 9			
3182	U	Energy brought in cooling 9			
3187	U	Energy brought in heating 10 (N - 10)			
3188	U	Energy brought in DHW 10			
3189	U	Energy brought in cooling 10			
Error					
6711		Reset HP	No, Yes		No

Note: "Energy" Counters increment as of 1 July each year.

Line	Function	Setting range or display	Setting increment	Basic setting
Maintenar	nce / special regime			
7141	Emergency operation	Off, On		Off
	Off: Heat pump functions normally (with boost On: Heat pump uses the electric boost system Use the "On" position only in Assist mode or T	or the boiler connection.	er bills.	
Generator	diagnosis			
8410	Return temp HP	0 140 °C		
	Setpoint (flow) HP			
8412	Flow temp HP	0 140 °C		
	Setpoint (flow) HP			
8413	Compressor modulation	0 100%		
Diagnosti	cs consumers			
8700	Outdoor temperature	-50 50 °C		
8701	Outdoor temp min Reset ? (no, yes)	-50 50 °C		50 °C
8702	Outdoor temp max Reset ? (no, yes)	-50 50 °C		-50 °C
8740	Room temperature 1	0 50 °C		
	Room setting 1			20 °C
8743	Flow temperature 1	0 140 °C		
	Flow temperature setpoint 1			
8756	Cooling flow temperature 1	0 140 °C		
	Cooling flow temperature setpoint 1			
8830	DHW (domestic hot water) temperature	0 140 °C		
	DHW temperature setpoint			50 °C

3.8 Information display

Various data can be displayed by pressing the info button.

Depending on the type of unit, configuration and operating state, some of the info lines listed below may not appear.

- Consult your heating technician.
- Service messages ; Special mode messages: The display shows the "Key" symbol *4*.
- Consult your heating technician.

- Various data (see below).

Designation	Line
Floor drying current setpoint .	-
Current drying day.	-
Terminated drying days.	-
State heat pump.	8006
State supplementary source.	8022
State DHW.	8003
State swimming pool.	8011
State heating circuit 1.	8000
State heating circuit 2.	8001
State cooling circuit 1.	8004
Outdoor temperature.	8700
Room temperature 1.	8740
Room setpoint 1.	0740
Flow temperature 1.	8743
Flow temperature setpoint1.	0/43
Room temperature 2.	8770
Room setpoint 2.	0770
Flow temperature 2.	8773
Flow temperature setpoint 2.	0//3
DHW (domestic hot water) temperature.	8830
Heat pump return temperature.	8410
Setpoint (return) HP.	0410
Heat pump flow temperature.	8412
Setpoint (flow) HP.	0412
Swimming pool temperature.	8900
Swimming pool temperature setpoint.	0900
Minimum remaining stop time for compressor 1.	-
Minimum remaining running time for compressor 1.	-

3.9 Details

If the electrical power supply has been cut off while the heat pump is operating (electrical power failure or unprogrammed pressing of the on/off switch on the hydraulic unit) the display will show error 370 when the appliance restarts. Do not be concerned, the communication between the outdoor and hydraulic unit will re-establish itself in a few moments.

3.10 Operation of the DHW system

The key enables you to switch the DHW (domestic hot water) mode on and off. The selection is shown by a bar, which appears under the corresponding symbol.

Manual activation: Hold down the DHW key for 3 seconds (Switch from "reduced" to "nominal" until the next time the DHW timer switches over).

To ensure a DHW setting over 45°C, the electrical backup heating or the boiler must be left on.

In order to optimise operation of the DHW, it is possible to:

- Program the timer settings (parameters 560 to 576),
- Adjust the comfort temperature set point (parameter 1610),
- Adjust the reduced temperature set point (parameter 1612).

Press the info key to obtain the details on the DHW (temperature setting operation).

3.11 Selecting cooling mode

If the installation is fitted with the cooling kit.

The key activates and deactivates cooling mode.

3.12 Pilot wire (if kit regulation extension AVS 55)

It's possible to order up to 15 electric heaters via output "pilot wire".

The "pilot wire" handles only the hourly operation of electric heaters (comfort mode / reduced mode commutation and Frost protection mode).

The comfort temperature setting should be done directly on the electric heater(s). The "pilot wire" does not handle the temperature of the electric heaters. Refer to the manual supplied with the electric heater(s).

Put the electric heaters on "PROG" mode or "AUTO" mode for piloting by the regulation board.

The difference between the comfort temperature and the reduced temperature is from 3,5 $^\circ$ C.

Frost protection temperature is set directly on the electric heaters. Refer to the manual supplied with the electric heater(s).

In the absence of signal, electric heaters operating in comfort mode.

3.13 Telephone modem (if Regulation extension kit AVS 55)

It is possible to command the switching of the heating mode to the "freeze" protection mode / reduced (and vise versa) on the heat pump using a modem contact.

The telephone command switches the current heat pump settings to "freeze" protection mode / reduced (and vise versa). In accordance with the setting, any temperature requests from the heating circuits and the DHW are ignored or activated.

The "freeze" protection mode / reduced must not be selected on the heat pump and/or the remote control. See with your installer.

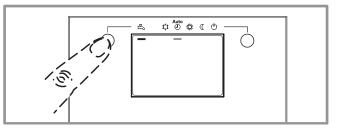
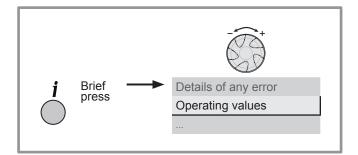


figure 10 - Select the DHW mode





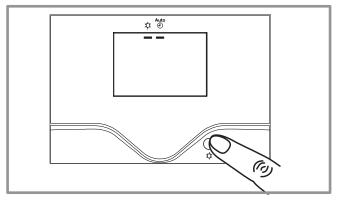


figure 12 - Selecting cooling mode

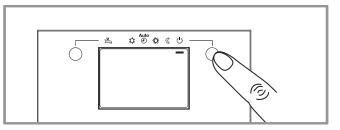


figure 13 - Selecting the frost protection

3.14 Configuring room control unit (option)

In the event that the room control unit (see figure 2), is used, on start-up, after initialising for around 3 minutes, the language needs setting:

- Press OK.
- Choose menu "Operator section".
- Choose language "Language" English.

4 Maintenance

In order to insure your appliance operates correctly for many years, the maintenance operations described below are required at the start of each heating season. Generally, these are performed as part of a service contract.

4.1 Regular checks

- Periodically check the water pressure in the heating circuit (Refer to the pressure recommended by the installer between 1 to 2 bar).
- If filling and re-pressurization are required, check what type of fluid has been used initially (If in any doubt, contact your installer).
- If frequent refills are required it is essential that you look for any leaks.
- The frequent water supply is at risk of scaling for the Heat exchanger and degrades performance and longevity of it.

4.2 Checking the outdoor unit

Dust off the heat exchanger if necessary, being careful not to damage the fins.

Check that there is nothing obstructing the passage of air.

Checking the refrigeration circuit

When the refrigerant charge is in excess of 2kg (models > 8 kW) it is compulsory to have an approved after sales service check the refrigeration circuit every year (with a certificate of capacity for the handling of refrigerants). Consult your heating technician.

\bigcirc	OFF	LED Off: The pump does not work, no electrical power.
Ο	\checkmark	Green LED on: The pump works normally.
÷Ö.	[⊙] air ≁₀° 10 min.	Green LED blink: Venting operating mode (10 minutes).
Ū.	Auto Test	Green/Red LED blink: Operating error with automatic reboot.
ĊŎ:	A Contraction	Red LED blink: Operating error.

figure 14 - Operation signals the HP circulator

ErP performance values

• ErP Definition

"ErP" includes two directives that are part of the program for the reduction of green house gas emission :

- Eco-design directive sets effiency thresholds and prohibits the sale of any product with efficiency lower than the set thresholds.
- According to labelling directive, energetic efficiency shall be displayed to encourage end-users to purchase energy-efficient products.

Package (Comfort models)

- application 35 °C

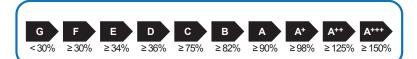


Models : Waterstage	Comfort 5		Comfort 6		Com	fort 8	Comfort 10		
Hydraulic unit reference	WSYA050DG6		WSYA100DG6		WSYA050DG6		WSYA100DG6		
Seasonal space heating energy efficiency of heat pump		169%		169%		156%		155%	
Type of temperature control (* = Outdoor sensor ;** = Room unit)	* class II	** class VI							
Bonus	2%	4%	2%	4%	2%	4%	2%	4%	
Seasonal space heating energy efficiency of package under average climate	171%	173%	171%	173%	158%	160%	157%	159%	
Energy class of package	A++	A++	A++	A++	A++	A++	A++	A++	
Seasonal space heating energy efficiency of package under warmer climate	219%	221%	223%	225%	220%	222%	205%	207%	
Seasonal space heating energy efficiency of package under colder climate	NA								

The energy efficiency of the package of products provided for in this fiche may not correspond to its actual energy efficiency once installed in a building, as the efficiency is influenced by further factors such as heat loss in the distribution system and the dimensioning of the products in relation to building size and characteristics.

Electrical back up heater consumption is taken into account in the performance calculation.

- application 55 °C



Models : Waterstage	Comfort 5		Comfort 6		Comfort 8		Comfort 10		
Hydraulic unit reference	WSYA050DG6		WSYA100DG6		WSYA050DG6		WSYA100DG6		
Seasonal space heating energy efficiency of heat pump		115%		115%		118%		113%	
Type of temperature control (* = Outdoor sensor ;** = Room unit)		** classe VI	* classe II	** classe VI	* classe II	** classe VI	* classe II	** classe VI	
Bonus	2%	4%	2%	4%	2%	4%	2%	4%	
Seasonal space heating energy efficiency of package under average climate	117%	119%	117%	119%	120%	122%	115%	117%	
Energy class of package	A+	A+	A+	A+	A+	A+	A+	A+	
Seasonal space heating energy efficiency of package under warmer climate	140%	142%	141%	143%	144%	146%	136%	138%	
Seasonal space heating energy efficiency of package under colder climate	NA								

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Electrical back up heater consumption is taken into account in the performance calculation.

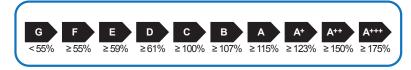
Air to Water Heat Pump Split system

Outdoor sensor included in the package							
Controller class	II						
Contribution to engery efficiency	2%						

Room unit references	UTW-C55XA UTW-C58XD UTW-C74XF UTW-C74HXF UTW-C78XD
Controller class	VI
Contribution to engery efficiency	4%

• Package (High power models)

■ application 35 °C

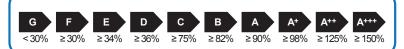


Models Waterstage	HP 112 Single phase type		HP 140 Single phase type		HP 112 3-Phase		HP 140 3-Phase		HP 160 3-Phase	
Hydraulic unit reference	WSYG140DG6		WSYG140DG6		WSYK160DG9		WSYK160DG9		WSYK160DG9	
Seasonal space heating energy efficiency of heat pump	151%		148%		154%		150%		149%	
Type of temperature control (* = Outdoor sensor ; ** = Room unit)	* classe	** classe VI	* classe II	** classe VI	* classe II	** classe VI	* classe II	** classe VI	* classe II	** classe VI
Bonus	2%	4%	2%	4%	2%	4%	2%	4%	2%	4%
Seasonal space heating energy efficiency of package under average climate	153%	155%	150%	152%	156%	158%	152%	154%	151%	153%
Energy class of package	A++	A++	A++	A++	A++	A++	A++	A++	A++	A++
Seasonal space heating energy efficiency of package under warmer climate	196%	198%	189%	191%	196%	198%	193%	195%	194%	198%
Seasonal space heating energy efficiency of package under colder climate		125%	120%	122%	126%	128%	124%	126%	121%	123%

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Electrical back up heater consumption is taken into account in the performance calculation.

■ application 55 °C



Models Waterstage		HP 112 Single phase type		HP 140 Single phase type		HP 112 3-Phase		HP 140 3-Phase		HP 160 3-Phase	
Hydraulic unit reference	WSYG140DG6		WSYG140DG6		WSYK160DG9		WSYK160DG9		WSYK160DG9		
Seasonal space heating energy efficiency of heat pump	109%		113%		112%		117%		117%		
Type of temperature control (* = Outdoor sensor ; ** = Room unit)	* classe	** classe VI	* classe II	** classe VI	* classe II	** classe VI	* classe II	** classe VI	* classe II	** classe VI	
Bonus	2%	4%	2%	4%	2%	4%	2%	4%	2%	4%	
Seasonal space heating energy efficiency of package under average climate	111%	113%	115%	117%	114%	116%	119%	121%	119%	121%	
Energy class of package	A+	A+	A+	A+	A+	A+	A+	A+	A+	A+	
Seasonal space heating energy efficiency of package under warmer climate	119%	121%	130%	132%	125%	127%	135%	137%	141%	143%	
Seasonal space heating energy efficiency of package under colder climate		104%	102%	104%	102%	104%	102%	104%	102%	104%	

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Electrical back up heater consumption is taken into account in the performance calculation.

Air to Water Heat Pump Split system

Outdoor sensor included in the package	
Controller class	II
Contribution to engery efficiency	2%

Room unit references	UTW-C55XA UTW-C58XD UTW-C74XF UTW-C74HXF UTW-C78XD
Controller class	VI
Contribution to engery efficiency	4%





This appliance is marked with this symbol. This means that electrical and electronic products shall not be mixed with general household waste.

European Community countries(*), Norway, Iceland and Liechtenstein should have a dedicated collection system for these products.

Do not try to dismantle the system yourself as this could have harmful effects on your health and on the environment.

The dismanting and treatment of refrigerant, oil and other parts must be done by a qualified installer in accordance with relevant local and national regulations. This appliance must be treated at a specialized treatment facility for re-use, recycling and other forms of recovery and shall not be disposed of in the municipal waste stream. Please contact the installer or local authority for more information.

* subject to the national law of each member state

Date of installation :