





USER MANUAL







AERMEC S.P.A.

CE

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HBI control panel

The HBI air-cooled heat pump is managed via a control panel with LCD mounted on the indoor unit.

All information regarding machine functioning and system settings are inserted and/or displayed via this control panel.

The control panel is normally closed, therefore its keys are not visible and to access just open the lower door of the panel, revealing the function keys represented in the figure at the side.



Key	Function			
1	Unit on/off key			
2	LCD			
3	Go back to main display key			
4	Key used to set the internal unit address			
5	SILENCED mode activation key			
6	Key used to set the operational parameters			
7	Key used to set the TIMER function			
8	Key used to set the system clock			
9	Key for increasing parameter value			

Key	Function
10	Key for decreasing parameter value
11	Key for setting the temperature range.
12	Key used to display the various system temperatures
13	Key used for functioning mode selection
14	Domestic hot water production ON/OFF key
15	Key used to block/release the protection for accidental pressing of the keys
16	Key used to go back to previous display
17	Key used to confirm selections
18	Key used for activation of AUTOMATIC heating mode

• Control panel display

The LCD with which the control panel is supplied, allows to display all information regarding system functioning or the active settings on the unit.

Every function or parameter is identified by one or more icons organised in different groups on the basis of the type of function to which they refer.

The layout at the side summarises all icons present on the control panel LCD.



Inde	ех	lcon	Function	lcon status	Meaning
	4	\square	Silenced mode	On	Active mode
	1	(\mathbf{p})	Siencea mode	Off	Mode not active
				On	Active mode
				Off	Mode not active
	2	$ \mathcal{Q} $	Heating mode		Could indicate that:
		<u> </u>		Flashing	• the anti-freeze function is active
					the instant hot water production function is active
	З	*	Cooling mode	On	Active mode
			5	Off	Mode not active
				On	Active mode
	4	$ Z \rangle$	Automatic heating mode	Off	Mode not active
		·	5	Flashing	Indicates that the automatic heating mode is active during the time periods set
	5				in the system. Active mode
			Domestic hot water production mode	On Off	Active mode Mode not active
				UTT	Indicates that the instant hot water production function is active, applied to the
				Flashing	production of DHW
A			Anti-legionella function	On	Function active
	6	1		Off	Function not active
		$\overline{}$		Flashing	Indicates that the anti-legionella cycle has not been completed correctly
			Environment air temperature	On	Indicates that a room air set is being set
	_			Off	Function not active
	7			EL 1.1	Indicates that the room air temperature function is active during the time
				Flashing	periods set in the system.
				On	Indicates that a produced water set is being set
	8	G	Temperature of the water produced by the	Off	Function not active
		جا	HBI unit	Flashing	Indicates that the produced water function is active during the time periods set
				, idoining	in the system.
			LIDI M/T /M/TC stands took toops	On	Indicates that the temperature to be reached in the HBI WT/WTS DHW storage tank is being set
	9	L	HBI WT/WTS storage tank temperature	Off	Storage tank is being set
					Indicates that the temperature of the water produced by the solar collector (if
	10	<u></u>	Solar collector temperature	On	installed) is being set, at which the solar heating pump is to be activated
	10	<u>^</u>		Off	Mode not active

Ind	ex	lcon	Function	lcon status	Meaning
	1	E	Parameters setting mode	On	Indicates that the parameters modification mode is active.
			Fai ameters setting mode	Off	Indicates that the parameters modification mode is not active.
	_			On	Indicates that the temperatures display mode is active.
	2	LQ	Temperatures display mode	Off	Indicates that the temperatures display mode is not active.

In	dex	lcon	Function	lcon status	Meaning
	1	\square	Alarm in progress	On	Indicates that an alarm condition is in progress.
		\bigcirc		Off	Indicates that there are no alarms active.
	/	*	Defrost function	On	Indicates that the defrosting function is in progress.
	2	<u>f:</u>	Denostrancion	Off	Indicates that the defrosting function is not in progress.

Ind	ex	lcon	Function	lcon status	Meaning
				On	Indicates that a switch-on/off timer has been set
	1	A	Timer function	Off	No timer set
				Flashing	Indicates that a switch-on/off timer is being set
				On	Indicates that a countdown has been set for switch-on/off
	2	UU	Countdown function	Off	No countdown set
				Flashing	Indicates that a countdown is being set for switch-on/off
				On	Indicates that a weekly timer has been set
	З	$ \underline{\Theta} $	Weeklytimer	Off	No timer set
				Flashing	Indicates that a weekly timer is being set
				On	Indicates that a timer has been set for the holidays
	4	$ \bigcirc $	Holiday timer	Off	No timer set
				Flashing	Indicates that a timer is being set for the holidays
	5	ſ¢	HBI internal unit pump	On	Indicates that the hydraulic pump of the indoor unit is running
				Off	Indicates that the HBI unit pump is not active.
	6		HBI outdoor unit	On	Indicates that the outdoor unit is active
				Off	Indicates that the outdoor unit is not active
	7 🔯 Electric resistance (power leve	Electric resistance (power level 1)	On	Indicates that the HBI unit resistance is active at the first power level.	
		$\mathbf{\Psi}_1$		Off	Indicates that the HBI unit resistance is not active at the first power level.
	8		Electric resistance (power level 2)	On	Indicates that the HBI unit resistance is active at the second power level.
		\mathbb{W}_2		Off	Indicates that the HBI unit resistance is not active at the second power level.
				On	indicates that the resistance in the HBI-WT/WTS DHW storage tank is active.
	9	٢	DHW electric resistance	Off	indicates that the resistance in the HBI-WT/WTS DHW storage tank is not active.
	10	(λ)	Thermostat	On	
	-10	W	memoadu	Off	
	11		BMS connection system	On	Indicates that the unit is managed by an external supervision system (all HBI control panel keys will be disabled)
				Off	Indicates that the unit is not controlled via a BMS system
	12	1.	Hydraulic pump on solar heating system	On	Indicates that the pump on the solar heating system unit is running
		, D	The date partip of solar fielding system	Off	Indicates that the pump on the solar heating system unit is not running

HBI functioning mode

The HBI system is managed via the control panel on the indoor unit. This interface, as illustrated in the previous pages, allows to select the functioning mode and set the different functions available, via the use of the keys present on the panel. The functioning modes possible on the HBI system are:

K COOLING Mode:

This is the summer functioning mode. In this mode, the HBI system can produce water at a temperature between 7°C and 30°C; however this interval can vary on the basis of the type of utility (on the basis of the presence or not of fan coils in the system) and on the basis of the type of reference set on the panel of the indoor HBI unit (control based on the temperature of the water produced by the indoor unit, or based on the room temperature; **ATTENTION: to base the control of the HBI system on the room temperature it is necessary to install the room air sensor or an external thermostat as indicated in the installation manual)**;

The intervals within which it is possible to set the job in cooling mode are:

Reference	Type of utility	Work temperature range
Tomponature of water produced	System with fan coil	18°C ~ 25°C (default: 18°C)
Temperature of water produced	System without fan coil	7°C ~ 25°C (default: 7°C)
Environment air temperature	All	18°C ~ 30°C (default: 20°C)

HEATING Mode:

This is the winter functioning mode. In this mode, the HBI system can produce water at a temperature between 25°C and 55°C; however this interval can vary on the basis of the type of reference set on the panel of the indoor HBI unit (control based on the temperature of the water produced by the indoor unit, or based on the room temperature; **ATTENTION: to base the control of the HBI system on the room temperature it is necessary to install the room air sensor or an external thermostat as indicated in the installation manual**);

The intervals within which it is possible to set the job in heating mode are:

Reference	Type of utility	Work temperature range
Temperature of water produced	All	25°C ~ 55°C (default: 40°C)
Environment air temperature	All	18°C ~ 36°C (default: 26°C)



DOMESTIC HOT WATER PRODUCTION mode:

This is the specific functioning mode for the production of DHW. In this mode the HBI system can produce water at a temperature between 40°C and 80°C (default value 50°C).

WARNING: the indoor HBI unit does not produce DHW directly, but just hot water for heating the content of the HBI WT/WTS storage tank (to which the anti-legionella cycle can be applied).



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COOLING or HEATING + DOMESTIC HOT WATER PRODUCTION:

The COOLING or HEATING mode can be combined with the PRODUCTION OF DOMESTIC HOT WATER; naturally, if these combined modes are used, the system will assign a priority to the system/domestic requests, on the basis of which the system will satisfy first one and then the other.

WARNING: the default settings envision that the priority is assigned to the COOLING or HEATING mode, with respect to the production of domestic hot water. Therefore, if the system receives two simultaneous requests, the first to be satisfied will be for cooling or heating.

Functions that can be performed from the control panel

Below find a summary layout of the functions that can be used via the control panel. These functions will be discussed in the following pages one by one in order to explain how these must be used and set on HBI systems.



HBI control panel operational procedures

1) ON/OFF due to system side functioning:

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The HBI unit allows to manage both the heating/air conditioning system (radiant panels, fan coils, low temperature radiators) and the system for the production of domestic hot water (with HBI WT/WTS storage tank). These two systems can function independently, therefore the HBI unit allows to activate or deactivate each mode individually. This function allows to activate or deactivate the heating or cooling modes on the system side. **Note:** the function does not set any specific mode, but activates the unit using the last work mode set.



WARNING: if a room thermostat has been installed it will no longer be possible to activate or deactivate the HEATING or COOLING functioning mode from the control panel of the indoor HBI unit. The thermostat will be highlighted on the display by the 🕑 icon if it is installed





2) Selecting functioning mode (system water):



This function allows to select the work mode from heating or cooling on the system side. Note: this selection is only possible if the unit is on.

WARNING: if a room thermostat has been installed it will no longer be possible to select the HEATING or COOLING functioning mode from the control panel of the indoor HBI unit. The thermostat will be highlighted on the display by the 🛞 icon if it is installed



By pressing the key shown in the figure, the functioning mode can be modified for system water production (the domestic hot water production mode will be explained on the following pages). Pressing the key indicated will make the functioning mode change according to the following order: (a) HEATING; (b) COOLING;

Both modes will be indicated by the relative icon shown on the display 1.

Note: prolonged pressing (5 seconds) of the key indicated, will activate the hot water production function just with resistance. electric This function is indicated by the flashing heating icon and allows to produce hot water just using the indoor unit electric resistance. То exit this function, press the key indicated again for 5 seconds.

3) ON/OFF for the production of domestic hot water (HBI WT/WTS):



The HBI unit allows to manage both the heating/conditioning system (radiant panels, fan coils, low temperature radiators) and the system for the production of domestic hot water (with HBI WT/WTS storage tank). These two systems can function independently, therefore the HBI unit allows to activate or deactivate each mode individually. This function allows to activate or deactivate the domestic hot water production mode. Note: the HBI unit cannot produce DHW directly, but produces hot water used for the successive production

Note: the HBI unit cannot produce DHW directly, but produces hot water used for the successive production of DHW via the HBI WT/WTS storage tank.



4) Setting the work sets:







5) Activate/Deactivate silenced mode:

The HBI unit is made up from an indoor and outdoor unit. The latter produces a determined sound level during its normal functioning. However, a function exists that allows to lower the sound level emitted by the outdoor unit. Note: the lowering of the sound level implies lowering of performance as the unit limits the fan speed and the frequency of the inverter compressor.



6) Activate/Deactivate automatic heating function:



The HBI unit has an automatic heating function. This function allows the unit to autonomously calculate (on the basis of a climatic curve set in the opeational parameters) the temperature of the rooms in which the room air sensor is installed.

Note: this function can be applied only to the heating mode. It is not available for any other mode.



7 Activate/Deactivate keys lock:



The HBI unit allows to lock the control panel keyboard in order to prevent accidental pressing of the keys. "EE" is shown on the display while this function is active.



8) Setting the system clock:



The HBI unit control panel allows to set different types of timer. To be able to use these functions it is first necessary to set the system clock.

Note: the system time will be kept in the memory while the unit is live (also if in stand-by), therefore after every intervention that envisions removal of voltage from the unit it will be necessary to set the system clock again.









9) Setting the INDIVIDUAL DAY timer:



The HBI unit control panel allows to set a daily timer for automatic switch-on/off of the unit. During execution of this time period, the unit will activate the functioning mode and the work set-point set by the user for the same time period.

Note: The functioning mode and the work set-point set for the time period are only valid during execution of the same.

The HBI unit envisions two different functions for the use of the time periods:

• the first follows a logic called DIRECT, i.e. the user sets a switch-on time and a switch-off time, which represent the time period limits;

• the second follows a logic called COUNTDOWN, i.e. the user sets the start and the end of the time period, specifying the distance (in hours) from the moment it is set;



WARNING: The setting of the INDIVIDUAL DAY timer is valid just for the day in which this function is set. If the timer is to be repeated for several days, the WEEKLY TIMER function must be used (explained in the next pages).













10 Setting the WEEKLY timer:



The HBI unit control panel allows to set a weekly timer for automatic switch-on/off of the unit. During execution of these time periods (up to 5 for every day of the week) the unit will activate the functioning mode and the work set-point set by the user for the same time period.

Note: The functioning mode and the work set-point set for the time period are only valid during execution of the same.







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Fig. (9)



Once the insertion of the time period has been completed (setting the start and end time), the system will take the remote panel to the situation described in Fig. (5), ready to insert the successive time period for the day selected. At this point the user can choose whether to:

• Insert a new time period by following the procedure illustrated by Fig.(5) up to Fig.(8) (this selection can be made a maximum of 5 times consecutively, because the system can manage up to 5 time periods every day);

• Interrupt the time periods insertion (for the day selected) by pressing the (1) key. In this case, the system will re-start from the window illustrated in Fig.(4) (selecting the day on which to set the time periods) and it will be possible to set the time periods (by repeating the operations from Fig.(5) to Fig.(8)) for another day of the week.

• Exit the WEEKLY timer function by pressing the (2) key. In this case, the time period settings set in the WEEKLY timer will be activated.

(11) Setting the HOLIDAYS EXCLUSION timer:



The HBI unit control panel allows to temporarily exclude one or more days from those set in the WEEKLY timer function, in a way to prevent the unit respecting the time periods when it is not necessary (for example during a holiday period where no use is envisioned).

Note: this function does not switch the unit on or off but is limited to preventing that one or more timed programs envisioned by the WEEKLY timer function are carried out.



WARNING: The setting of the HOLIDAYS EXCLUSION timer is only valid if the WEEKLY timer function has been previously set.





(12) Display of the system times programs



The HBI unit control panel allows the activation of a daily and a weekly timer. This function allows to summarise the clock settings set on the system.

Note: this function does not modify any time setting, but only displays all settings linked to the system timer.







By pressing the keys indicating and HOLDING DOWN for 5 seconds, the timer is activated for the silenced mode.









(14) Setting the LEVEL 1 operational parameters:



This function allows to set a series of parameters (total 27 parameters) necessary for the correct functioning of the unit. These parameters regulate unit functioning on the basis of the type of installation carried out.

WARNING: this function is dedicated to the installer of the technical after-sales staff, as it is necessary to know the system in which the unit has been installed. The correct setting of these parameters is NECESSARY for the correct functioning of the unit.

Index	Description	Value	Settings	Default
	This parameter indicates which type of reference is used for management of the	Ο	Regulation based on the temperature of the water produced (this setting is mandatory if the room air sensor or dedicated room thermostat have	
01	unit;	1	not been installed); Regulation based on the room temperature (this setting is ONLY possible if the room air sensor or dedicated room thermostat have been installed);	0
	This parameter enables or disable the test	0	The test mode is disabled;	
00	mode; WARNING: • The unit must be OFF before activating this mode;	1	The test mode is activated in COOLING mode; This setting is to be used in the following cases: • If necessary, top-up the refrigerant load; • If commissioning takes place with outdoor air temperature below 10°C;	0
02	 If the value of this parameter is 1 or 2, the test mode in cooling mode or in heating mode activates, switching the unit on and stops, switching it off. Otherwise this stops automatically after 15 minutes of continuous functioning; 	2	The test mode is activated in HEATING mode; This setting is to be used in the following cases: • If commissioning takes place with outdoor air temperature over 35°C;	U
03	This parameter sets the unit of measurement for the temperature display;	0	Unit of measurement °C (degrees Celsius);	O
	This parameter indicates the presence of a	1	Unit of measurement °F (degrees Fahrenheit);	
04	dedicated air thermostat;	0	Room air thermostat NOT INSTALLED; Dedicated room air thermostat INSTALLED;	0
05	This parameter enables or disables the contemporaniety of loads (HBI unit and electric resistance inside HBI WT/WTS		The contemporaniety of the loads is DISABLED; This means that if the production of DHW is requested, the HBI unit will be the only load to be used; The contemporaniety of the loads is ENABLED;	•
05	storage tank) during the production of DHW;	1	This means that in the event of a request for the production of DHW, the HBI unit and electric resistance inside HBI WT/WTS storage tank are activated simultaneously;	0
06	This parameter enables or disable the anti- legionella cycle; WARNING: If theunit envisions the installation of a HBI WT/WTS storage tank for the production of DHW, it is mandatory to enable the anti- legionella cycle;	1	Anti-legionella cycle DISABLED; Anti-legionella cycle ENABLED;	0
	This parameter enables or disables the	0	Anti-freeze function DISABLED;	
07	anti-freeze function. This function allows to maintain the room temperature (room air sensor mandatory) within a determined safety threshold in order to prevent the room temperature from dropping too much.	1	Anti-freeze function ENABLED;	0
08	This parameter sets the priority between cooling request and that for production of domestic hot water, during cooling mode.	0	Priority to the cooling request. This means that during functioning in cooling mode, the arrival of a request for the production of DHW, DOES NOT block unit functioning, satisfying the request for DHW only after having completed the conditioning system request. Priority to the request for production of DHW. This means that during	0
		1	functioning in cooling mode, the arrival of a request for the production of DHW, blocks unit functioning, satisfying the request for DHW and after having completed it, re-starts with the conditioning system request.	
00	This parameter sets the priority between heating request and that for production of domestic hot water, during heating mode.	0	Priority to the heating request. This means that during functioning in heating mode, the arrival of a request for the production of DHW, DOES NOT block unit functioning, satisfying the request for DHW only after having completed the heating system request.	0
09		1	Priority to the request for production of DHW. This means that during functioning in heating mode, the arrival of a request for the production of DHW, blocks unit functioning, satisfying the request for DHW and after having completed it, re-starts with the heating system request.	0

ndex	Description	Value	Settings	Defau
	This parameter indicates how to manage the		Limits the electric resistance power to 50% of its nominal capacity. With	
10	electric resistance power, positioned in the indoor unit;	1	this setting, the power supplied by the electric resistance is 3 kW; The electric resistance power is used at 100% of its nominal capacity.	1
	This parameter indicates on which day the	2	With this setting, the power supplied by the electric resistance is 6 kW;	
	anti-legionella cycle must be performed (this	0 1	Set SUNDAY as the day on which to perform the anti-legionella cycle Set MONDAY as the day on which to perform the anti-legionella cycle	
	setting is subject to activation of the cycle	2	Set TUESDAY as the day on which to perform the anti-legionella cycle	
11	itself, set in parameter 6);	З	Set WEDNESDAY as the day on which to perform the anti-legionella cycle	6
		4	Set THURSDAY as the day on which to perform the anti-legionella cycle	-
		5	Set FRIDAY as the day on which to perform the anti-legionella cycle	
		6	Set SATURDAY as the day on which to perform the anti-legionella cycle	
	This parameter indicates the time the anti-	00	The anti-legionella cycle is performed at 24:00	
	legionella cycle is to be performed, during the	01	The anti-legionella cycle is performed at 01:00	
	day selected in the previous parameter. This	02		
12	cycle will be repeated every week on the day		The anti-legionella cycle is performed at 02:00	23
	and at the time envisioned. The value of this	03	The anti-legionella cycle is performed at 03:00	
	parameter can be selected within the range			
	of values from 00 to 23;	23	The anti-legionella cycle is performed at 23:00	
	This parameter enables or disables the use of the electric resistance inside the HBI WT/	0	The resistance inside the HBI WT/WTS storage tank is disabled;	
13	WTS storage tank;	1	The resistance inside the HBI WT/WTS storage tank is enabled and switches on if the external temperature is lower than 0°C during the	1
		'	production of DHW, switching off after the external unit compressor has	
		-	stopped or if the external air temperature has risen to over 2°C;	
	This parameter specifies the amount of temperature probes mounted on the storage	1	Indicates that one temperature probe has been installed;	
14	tank. HBI WT/WTS; WARNING: the HBI WT/WTS accessory is	2	Indicates that two temperature probes have been installed;	2
	supplied with two probes; for further details refer to the accessory installation manual;	two probes; for further details		
	This parameter specifies the presence or not	0	Indicates that the HBI WT/WTS accessory has NOT been installed	
15	of the HBI WT/WTS storage tank;	1	Indicates that the HBI WT/WTS accessory HAS been installed	0
	This parameter specifies whether any	0	Indicates that integrative heat sources are not envisioned;	
	integrative heat sources are present;			
16	WARNING: only using the HBI WT/WTS accessory is it possible to envision any integrative sources; for further details refer to the accessory installation manual;		Indicates that integrative heat sources are envisioned, connected to the secondary coil of the HBI WTS storage tank;	0
17	This parameter specifies if fan coil terminals have been installed in the system;	0	Indicates that fan coils have not been envisioned in the system and supposing that the system envisions radiant panels, their use in cooling mode could cause a condensation effect (if fed with water that is too cold), therefore if this parameter is set at 0, the minimum value that can be set for the water produced in cooling mode is 16°C;	0
17		1	Indicates that fan coil terminals are installed in the system; if a mixed fan coil/radiant panels system is envisioned, it becomes necessary to install a 2-way valve (piloted from the HBI unit board) on the radiant panels line, which excludes them during functioning in cooling mode; for further information, refer to the installation manual;	U
	This parameter specifies whether the room	0	Indicates that the probe has NOT been installed	
18	air remote probe has been installed. The room air remote probe accessory is supplied. For further information, refer to the HBI unit installation manual;	1	Indicates that the probe HAS been installed	0
18	room air remote probe accessory is supplied. For further information, refer to the HBI unit	1	Indicates that the probe HAS been installed	0
18	room air remote probe accessory is supplied. For further information, refer to the HBI unit installation manual; WARNING: the value of this parameter	1	Indicates that the probe HAS been installed The temperature range of the produced water is from 25°C to 55°C; this setting is envisioned only if radiant floors are not present in the system (in order not to allow water that is too hot feeding the radiant panels); The temperature range of the produced water is from 25°C to 45°C; this	0

Index	Description	Range of values	Default
20	This parameter indicates what is the temperature range within which the electric resistance is activated inside the HBI indoor unit in DHW production mode (for heating or production of DHW);	-20°C ~ 18°C	0°C
21	This parameter indiates the water temperature threshold inside the HBI WT/WTS storage tank, over which the HBI indoor unit stops heating the water, leaving the electric resistance inside the tank to take the water to temperature set-point;	40°C ~ 50°C	50°C
22	This parameter specifies the temperature at which the anti-legionella cycle will be performed:	40°C ~ 70°C	70°C
23	This parameter indicates the lower limit for the outdoor air in automatic heating mode (for further information regarding the function, refer to function number 6 in this manual):	-20°C ~ 5°C	-15°C
24	This parameter indicates the upper limit for the outdoor air in automatic heating mode (for further information regarding the function, refer to function number 6 in this manual):	10°C ~ 20°C	15°C
25	This parameter represents the differential applied to the system water or room air temperature set-point, in cooling functioning mode;	2°C ~ 10°C	3°C
26	This parameter represents the differential applied to the system water or room air temperature set-point, in heating functioning mode;	2°C ~ 10°C	3°C
27	This parameter represents the differential applied to the system water or room air temperature set-point, for the production of hot water;	2°C ~ 8°C	3°C











Fig. (4)

Once the operations described in Fig.3 have been completed, the panel goes back to the situation described in Fig.2 (parameter selection). From here it will be possible to select a new parameter and modify it in the same way in which the previous one was modified, until one of the two keys indicated in (1) have been pressed, to exit the LEVEL 1 installer parameters modification function;

(15) System temperature display:



This function allows to display the temperatures detected by the different unit probes. This information can be used by the installer or technical after-sales staff to evaluate unit functioning

WARNING: This function is dedicated to the installer or technical after-sales assistance staff.



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Alarms summary table



WARNING: In the event of an error, consult the installer or technical after-sales assistance staff.



If an alarm condition should occur, it is signalled on the remote panel display, via the general attention icon (2), and the icon (1) that represents the error code. To establish the cause, refer to the error code table given below;

Error code	Cause of the error
F4	Outdoor air temperature probe malfunctioning (outdoor unit)
F6	Probe malfunctioning for the defrosting function
F7	Probe malfunctioning on the compressor pressing line
F5	Probe malfunctioning on the compressor intake line
EF	Outdoor unit fan malfunctioning
E5	Compressor load protection error/Inverter driver malfunction
E1	High pressure alarm
E3	Low pressure alarm
E4	High temperature alarm on the pressing line
C5	Indoor unit management malfunctioning
E6	Communication error between indoor and outdoor unit
Fc	High pressure switch malfunctioning
F9	Water outlet probe malfunctioning
dH	Water outlet probe malfunctioning (2)
F1	Malfunctioning of the temperature probe on the liquid line
F8	Water inlet probe malfunctioning
FE	Malfunctioning on probe number 2 on the HBI WT/WTS storage tank
FL	Malfunctioning on probe number 1 on the HBI WT/WTS storage tank
F3	Malfunctioning of the temperature probe on the gas line
dF	Integrative heating systems output error
FO	Malfunctioning of the room air remote probe
Ec	Malfunctioning of the 3-way diverter valve
E2	Indoor unit anti-freeze alarm
EH	First stage malfunctioning of the HBI indoor unit resistance
	Second stage malfunctioning of the HBI indoor unit resistance
	Malfunctioning of the HBI WT/WTS storage tank electric resistance

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