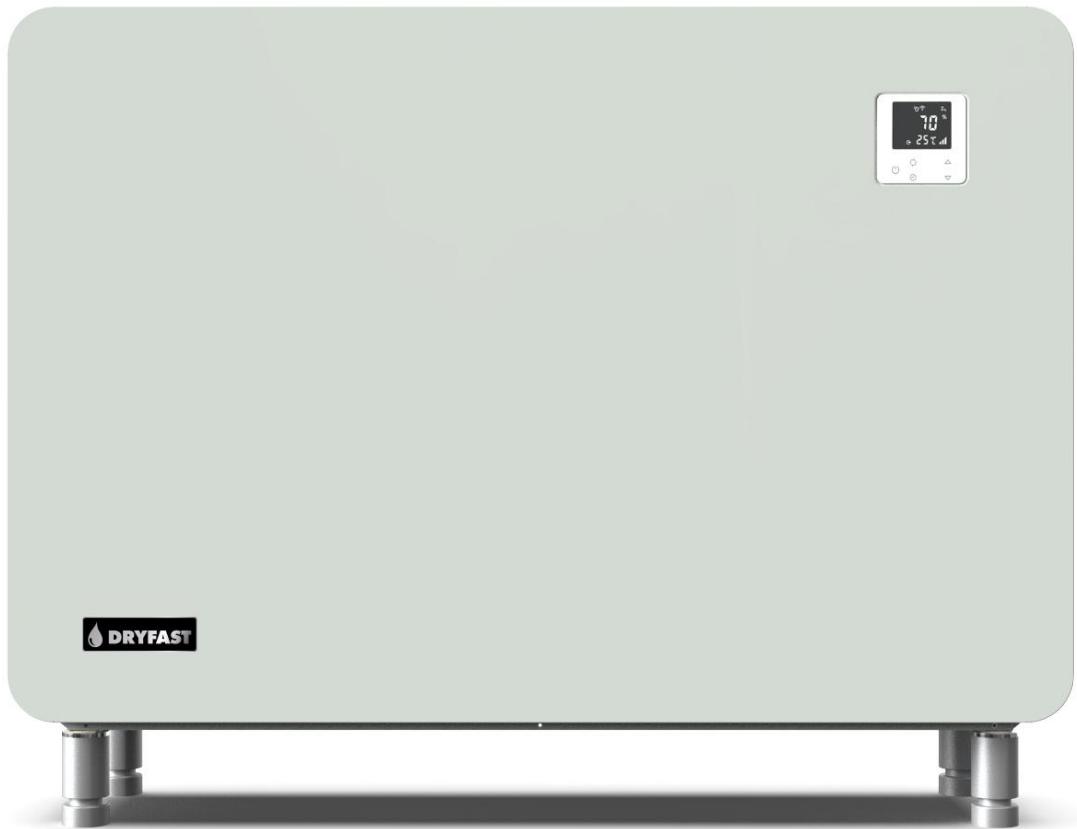


R32 Full-inverter Dehumidifier

INSTALLATION AND USER MANUAL



SUMMARY

FOR USERS *P.3-P.11*

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Please read it carefully and keep it for subsequent use.

This manual provides you necessary information for optimal use and maintenance. This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.



Warning:

- a. Please read the following tips before installation, use and maintenance.
- b. Installation, removal and maintenance must be carried out by Professionals in accordance with the instructions.
- c. Gas leakage test must be done before and after installation.



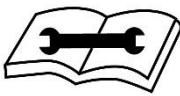
Warning: flammable material .



Read operator's manual .



Operator's manual: operating instructions.



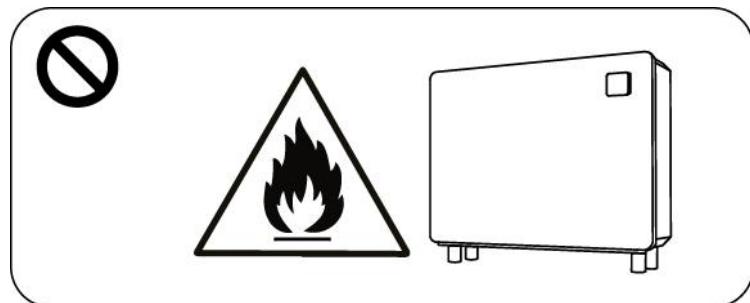
Service indicator: read technical manual.

1. Use

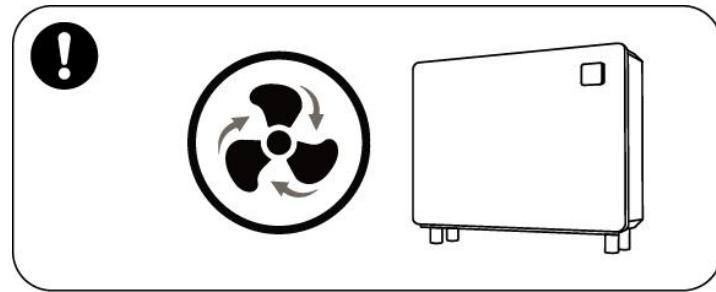
- a. It must be installed or removed by professionals, and it is forbidden to dismantle and refit without permission.
- b. Don't put obstacles before the air inlet and outlet of the dehumidifier.

2. Installation

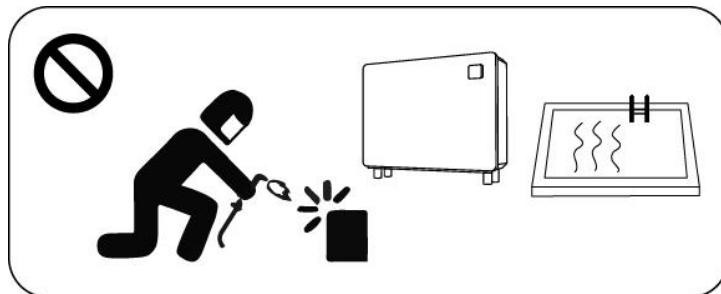
- a. This product must be kept away from any source of fire.



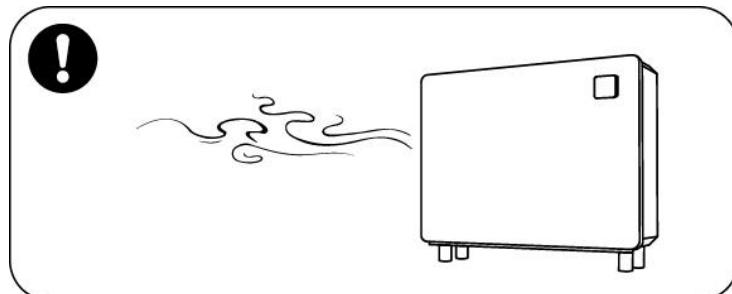
- b. The installation place must be kept well ventilated.



- c. Vacuum completely before welding, field welding is not allowed, welding can only be performed by professional personnel in professional maintenance center.



- d. Installation must be stopped if any R32 gas leakage, and the unit must be returned to professional maintenance center.



3. Transportation and Storage

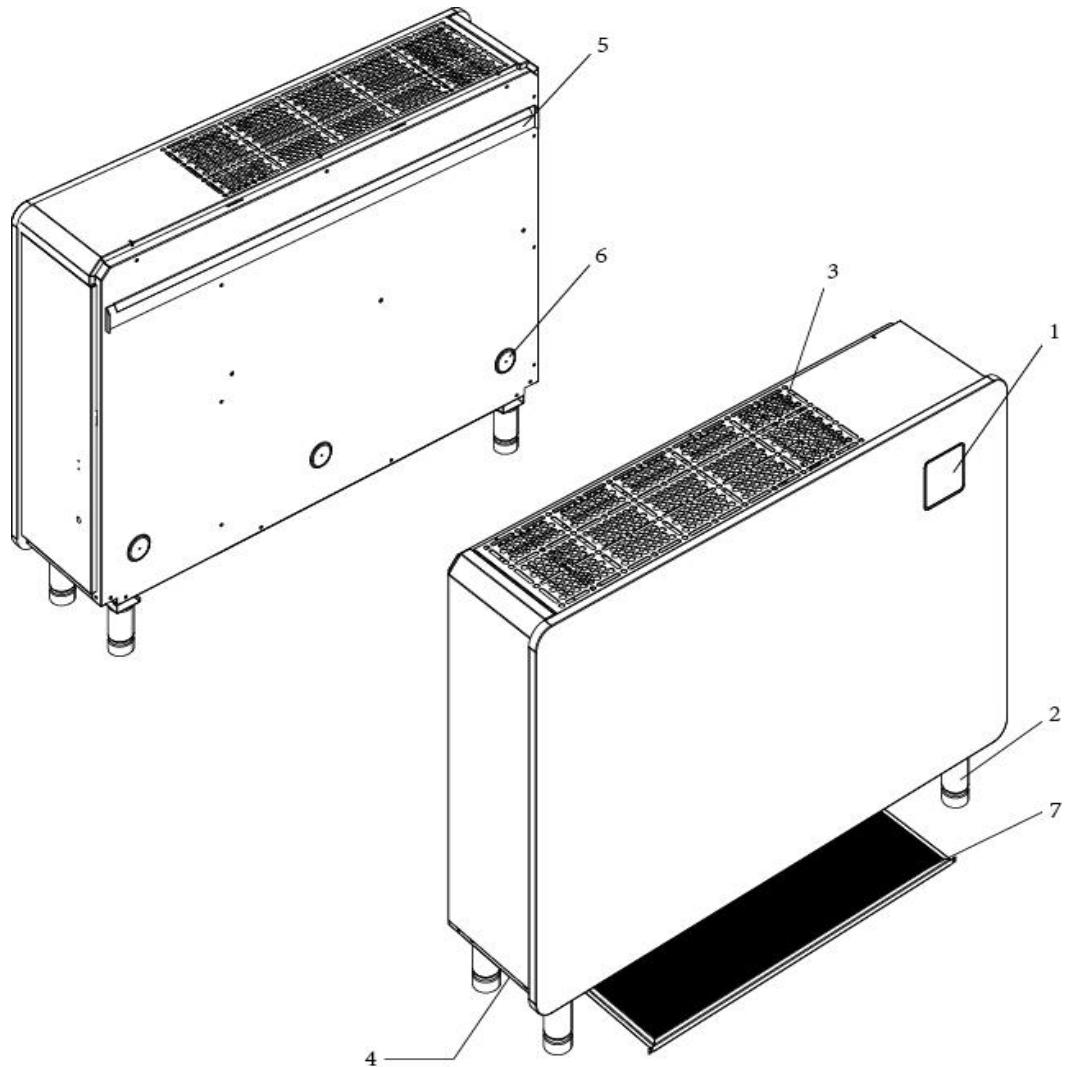
- a. Sealing is not allowed during transportation
- b. Transporting goods at a constant speed is needed to avoid sudden acceleration or sudden braking, so as to reduce the collision of goods.
- c. The unit must be far away from any source of fire.
- d. Storage place must be bright, wide, open and good ventilation, ventilation equipment is required.

4. Maintenance Notice

- a. If maintenance or scrap is required, contact an authorized service center nearby
- b. Qualification requirement
All operators who dispose refrigerant gas must be qualified by valid certification which issued by professional agency.
- c. Please strictly comply with the requirement from manufacturer when maintenance or filling R32 refrigerant gas. Please refer to the technical service manual.

1. GENERAL INFORMATION

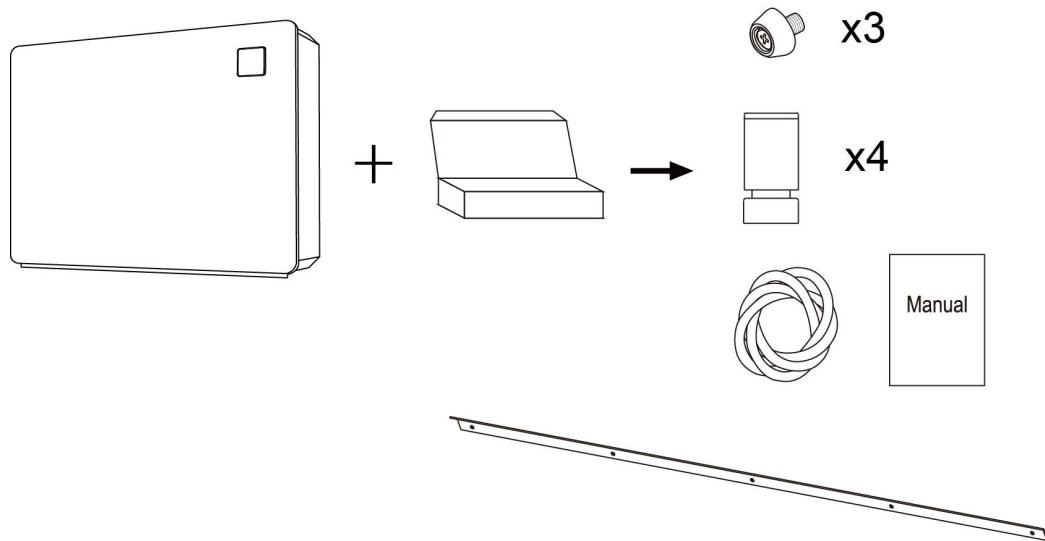
1.1. Name of Parts



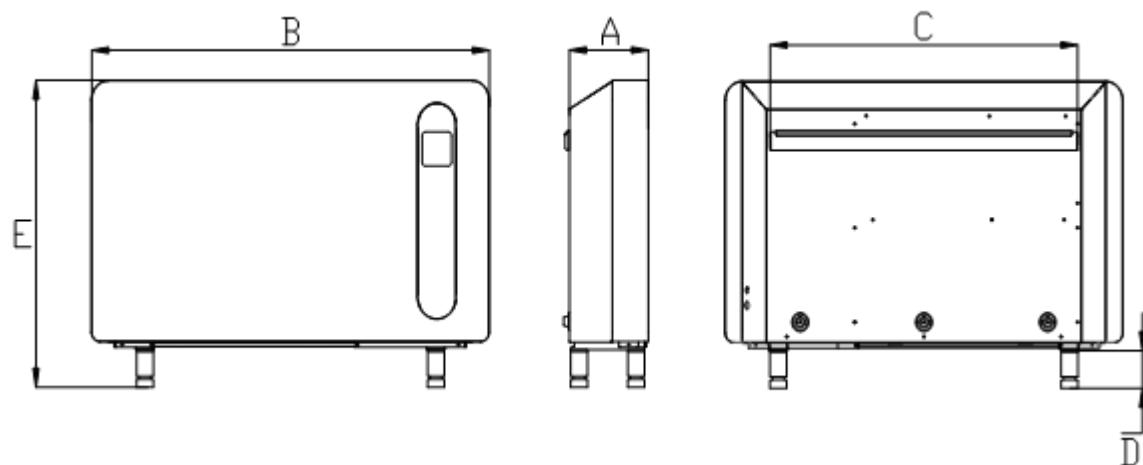
No.	Name
1	Controller
2	Feet
3	Air Outlet
4	Air Inlet (on the bottom)
5	Hanging Strip on Wall
6	Pad
7	Filter and filter bracket

1.2. Accessory list

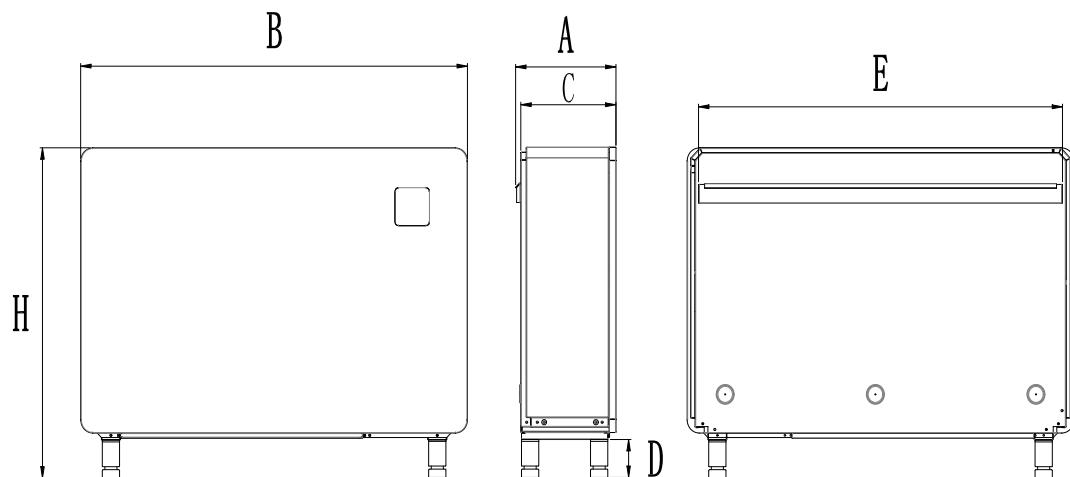
Padx3, Feetx4, Drain-pipe x1(2m), Hanging Stripx1, Manual



1.3. Dimension



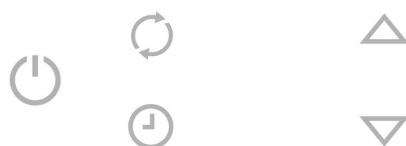
Model	A	B	C	D	E
DH-i25	236	1010	740	100	813
DH-i35	236	1040	870	100	813



Model \ Name	A	B	C	D	E	H
DH-i45	291	850	276	100	784	870
DH-i65	291	1120	276	100	1054	870
DH-i75	291	1220	276	100	1154	870

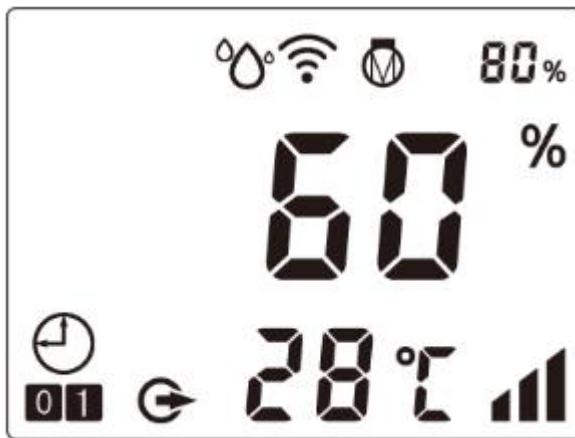
2. OPERATION

2.1 Instruction for Controller



FOR USER

SYMBOL	DESIGNATION	FUNCTION
	ON/OFF	Press to power on or off the dehumidifier
	Mode	For dehumidifier with dehumidifying function only, press “  / Silence  mode.
	Timer	Press to set the time to switch on and off
	Up and Down	Adjust the value of the required parameters



	Dehumidifying mode
	Compressor running percentage
	Wi-Fi connection
	Air temperature
	Humidity
	Mode
	Timer

1. (1) This device is equipped with an automatic lock screen function. If no operation is performed for more than 30 seconds, the screen will enter a locked state with display turns darker and button lights turns off.

FOR USER

(2) Press both  and  simultaneously for 3 seconds to unlock the screen, then the display and button lights will be on.

(3) When the screen is on and bright, long press  and  for 3 seconds to lock the screen. Then the display will turn darker, and button lights will be off.

(4) Except for the unlocking operation, all buttons will only function when the screen display is lighted on after unlocking.

2. Mode Button

Dehumidifying Function only: Press  one time, it can transfer  or  mode.

Smart mode : Compressor running percentage between 100%~20%

Silence mode : Compressor running percentage between 80%~20%

3. Humidity/Temperature Setting

(1) Dehumidifying Function only:

Press  or  to set the humidity. The humidity setting range is 30-95%.

4. Timer Setting

(1) Timer ON setting: When the dehumidifier is on or off, press the to enter the timer

setting; Meanwhile, the symbol  light and the  are flashing to enter the Timer ON setting. Press the  and  to adjust Timer ON hour setting, then press  or 

(2) Timer OFF setting: When the dehumidifier is on or off, press the setting; Meanwhile, the symbol light and the or (If you don't press 7

FOR USER

automatically.)

(3) Timer ON and OFF setting: When the dehumidifier is on or off, press the  to enter the timer setting; Meanwhile, the symbol  light and the  are flashing to enter the Timer ON setting. Press the  and  to adjust Timer ON hour setting, then press , you can adjust the minute setting by pressing  or . Press the  to enter timer off setting, the  is flashing, you can adjust the hour setting by pressing the  and , then press again the , then you can adjust the minute setting by pressing  or , press  to confirm the status then exit, the  and  will keep lighted all the time.

(4) Method of cancelling timer function: Press the  to enter the timer setting. After Timer ON or Timer OFF setting, you can press directly the  without adjusting the setting time in order to cancel timing function setting.

(5) The timer is countdown setting and cannot repeat everyday. For example, when 12:30 is set and display for timer on, that means that the dehumidifier will automatically start after 12 hours and 30 minutes of countdown. If repeat is required, the timer need to be set again.

5. Wi-Fi connection

Please kindly scan below QR code for Wi-Fi connection.



6. Advanced application (for professional technician's operating only)

6.1 Running status checking

(1) Press  for 5 seconds to enter into "Running status checking", the screen alternately shows status point "C0" and its corresponding value.

(2) Check all status points and their corresponding value through  and , Press  to quit "running status checking" mode.

Table 1: Running status checking

Symbol	Content	Unit
C0	Inlet air temp	°C
C1	Outlet air temp	°C
C2	Relative humidity	°C
C3	Exhaust temp	°C
C4	Evaporation coil temp	°C
C5	Gas return temp	°C
C6	Cooling plate temp	°C
C8	EEV opening	P
C9	DC fan speed	r/min

6.2 Parameter Checking

(1) Press  and  for 5 seconds to enter into “Parameter Checking” status, the parameter code “P0” and the parameter value “0” or “1” will display on the screen, such as “P0 0” or “P0 1”.

(2) In “Parameter checking” status, press  or  to check the parameters.

6.3 Parameter modification

In “Parameter checking” status, press  to enter the “parameter modification” mode, press  or  to change the values, then press  to confirm and quit “parameter modification” mode. press  to quit “Parameter Checking” status.

6.4 Parameter list

NO.	Content	Adjust range	Step length
P0	Heating function	0 — no / 1 — yes	1
P1	Fan running mode	0: Reach temp/humidity to low speed 1: Reach temp/humidity stop	1
P2	Compressor continuously running time before defrosting mode	20 ~ 90min	1min
P3	Defrosting start temp	-10 ~ 10°C/14~50°F	1°C/°F
P4	Defrosting running time	1 ~ 12min	1min
P5	Defrosting quit temp	0 ~ 30°C/32~86°F	1°C/°F

3. TECHNICAL SPECIFICATION

Model	DH-i25	DH-i35	DH-i45	DH-i65	DH-i75
Advised pool surface (m ²) *	≤10	≤15	≤25	≤40	≤50
Advised room size (m ²) *	40~80	50~100	60~120	90~180	120~240
Operating air temperature (°C)	10~38		0~38	10~38	
Capacity (L/h) (Air 30°C, RH 80%) *	1.5	2.0	2.5	4.0	5.0
DER (L/kW·h) (Air 30°C, RH 80%) *	4.00~3.50	3.7~3.30	4.00~3.40	4.53~4.05	4.50~3.68
Capacity (L/h) (Air 30°C, RH 70%) *	1.25	1.7	2.1	3.3	4.2
DER (L/kW·h) (Air 30°C, RH 70%) *	3.34~3.10	3.34~3.00	3.34~3.00	4.00~3.50	3.86~3.25
Electric heating optional (kW)	/	/	1.3	2.1	2.1
Rated power (kW) (Air 30°C, RH 80%) *	0.10~0.43	0.11~0.60	0.13~0.73	0.17~0.99	0.22~1.36
Rated current (A) (Air 30°C, RH 80%) *	0.43~1.87	0.48~2.61	0.57~3.17	0.74~4.30	0.96~5.91
Power supply	230V~/1Ph/50Hz				
Sound pressure at 1 m dB(A)	34.9~41.4	35.5~43.8	38.3~45.6	40.3~45.8	39.9~46.4
Air flow (m ³ /h)	600	600	600	1000	1200
Net dimension (mm)	1010×236×7 13	1040×236×7 13	850×291×77 0	1120×291×7 70	1220×291×7 70
Net weight	52	62	53	68	72
Gas (g)	300	350	500	750	800
GWP	675				
CO ₂ equivalent (tonnes)	0.203	0.236	0.338	0.506	0.540

1. The temperature of this products can only work normally within the recommended temperature. If it exceeds this range, the performance will not be guaranteed; please note that the performance parameters of the dehumidifier will be different under different working conditions;
2. Due to the technical improvement of the product, the relevant parameters will be adjusted by steps without prior notice. Please refer to their nameplate for more details.

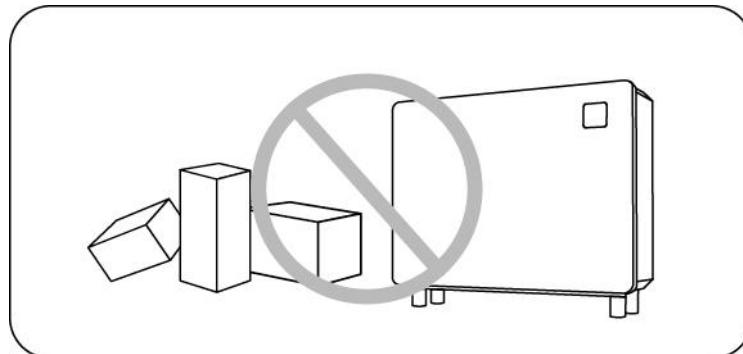
1. Installation and Maintenance

! This product must be installed by a professional team. The users are not qualified to install by themselves, otherwise the dehumidifier might be damaged and risky for users' safety.

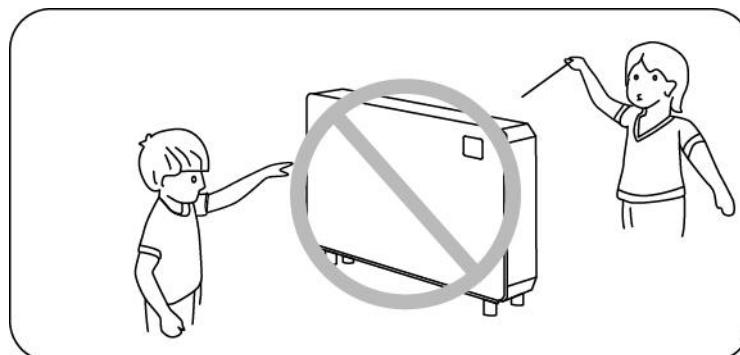
1.1. Notice before installation

The product must ensure sufficient air circulation, otherwise the dehumidification function will be ineffective or have little effect.

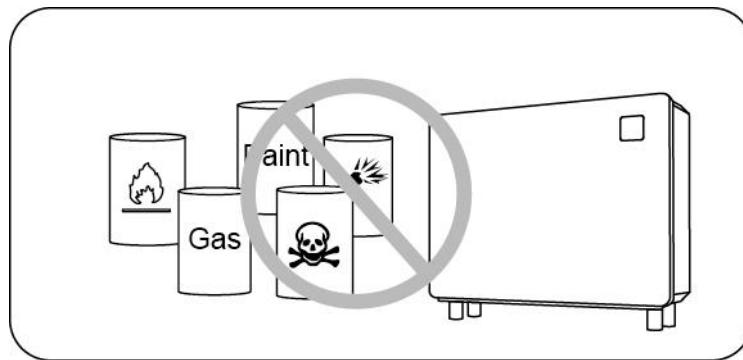
- 1.1.1. When storing or moving the equipment, it should be at the upright position
- 1.1.2. The equipment is a general dehumidification product, NEVER use it for other flammable and turbid gases.
- 1.1.3. Set the temperature and humidity appropriately to get a comfortable environment.
- 1.1.4. Do not place objects that block the airflow nearby the air inlet or the air outlet, because it will reduce the effect of the equipment and even stop the equipment.



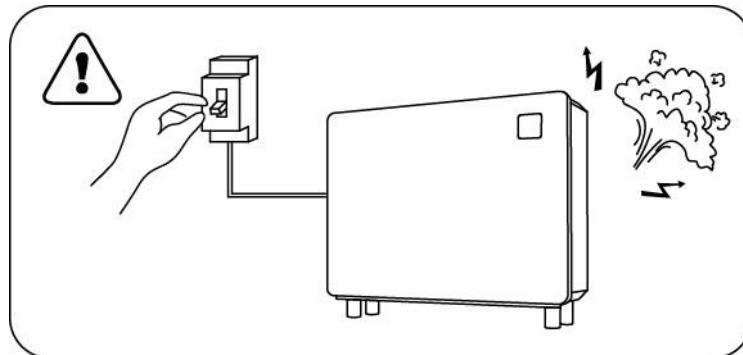
- 1.1.5. Do not put the hands or other objects such as sticks into the air inlet and outlet of the dehumidifier, and do not remove its appearance. Otherwise, the high speed running wind wheel may cause injury to you.



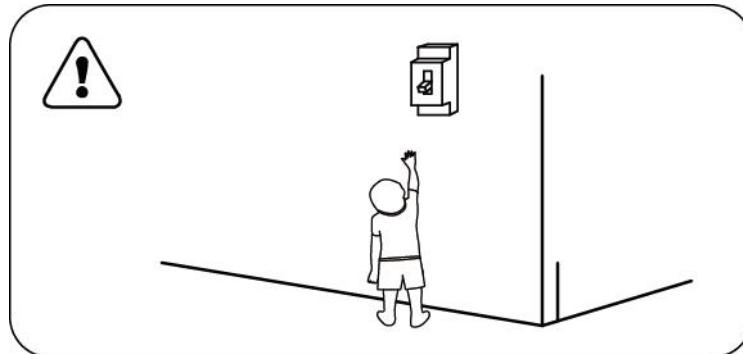
- 1.1.6. It is strictly forbidden to use or store flammable gases or liquids such as hair spray, paint, gasoline, etc. near the dehumidifier, otherwise a fire may occur.



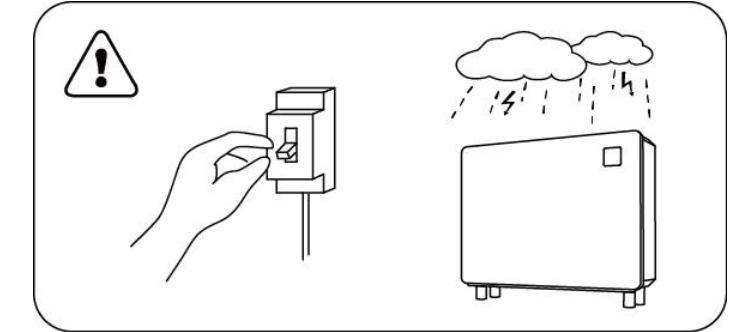
1.1.7. If any abnormal conditions such as abnormal noise, odour, smoke, leakage, etc., are found, the power should be cut off immediately and contact the local dealer, and do not repair the equipment yourself.



1.1.8. The manpower switch should be located in a position that the child cannot reach, to prevent children from playing with the main power switch in danger.

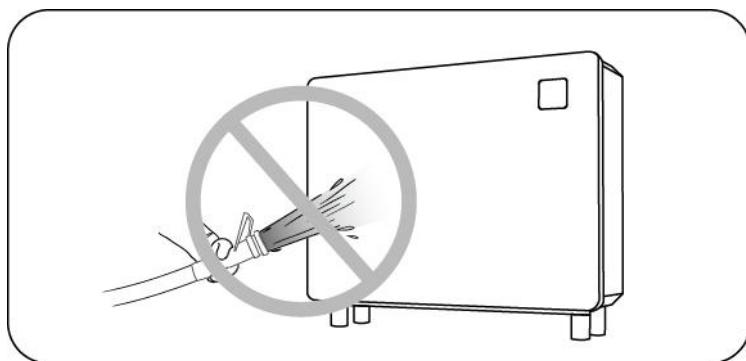


1.1.9. In thunderstorms, disconnect the main power switch, otherwise the lightening might damage the unit



FOR INSTALLERS AND PROFESSIONALS

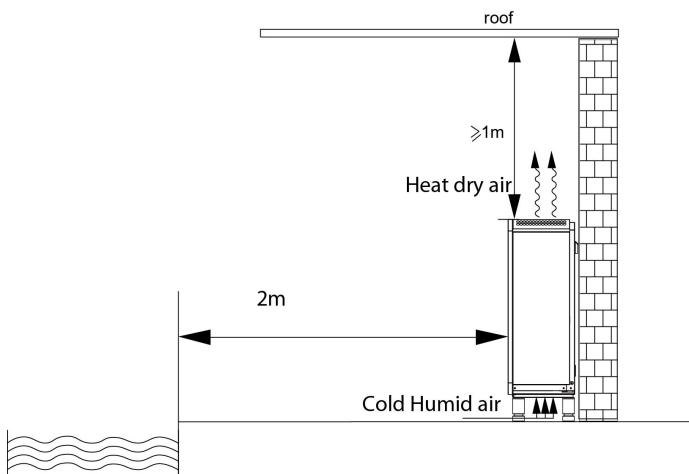
1.1.10. Do not wash the equipment directly with water.



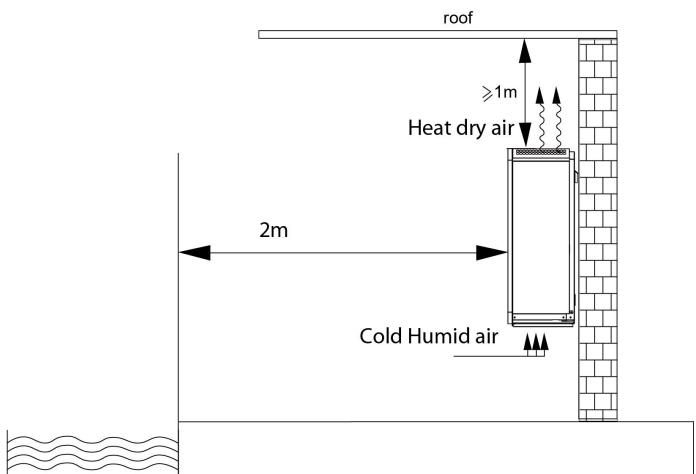
1.2. Instruction

! This product should be installed in a well-ventilated place

Ambient - Floor Standing



Ambient_Wall Mounted



1.2.1. Installation

- (1) The dehumidifier may be placed on the ground or installed on the wall;
- (2) When installing on the wall, be sure to use M6 pull-out screws to fix the bracket, the concrete foundation of the selected wall should be firm and strong, and the bracket should be strong enough and rust-proof;
- (3) Please ensure that the dehumidifier and the swimming pool are kept at a distance of 200cm or more. Do not place objects which block the airflow near the air inlet or air outlet. Do not set any obstacles within 100cm in front of the air outlet. Otherwise, the efficiency of dehumidification will be reduced, or even the system will stop running.
- (4) When the dehumidifier is running, there will be condensed water discharged from the bottom

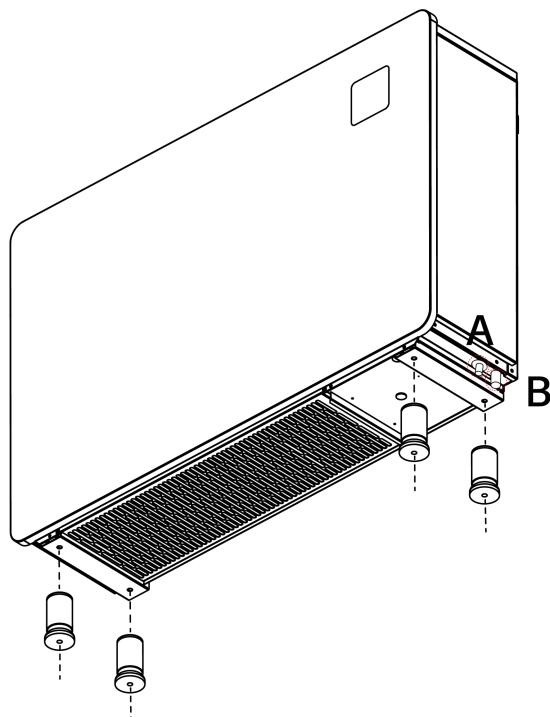
FOR INSTALLERS AND PROFESSIONALS

board, please pay attention; put the drainage kit firmly into the drain hole of the bottom board, and then connect the drain pipe to drain away the condensed water smoothly.

Steps to install the foot and place it on the ground:

1. Align the foot to the mounting hole of the dehumidifier chassis and screw it in the clockwise direction (do not flip the equipment to install!).

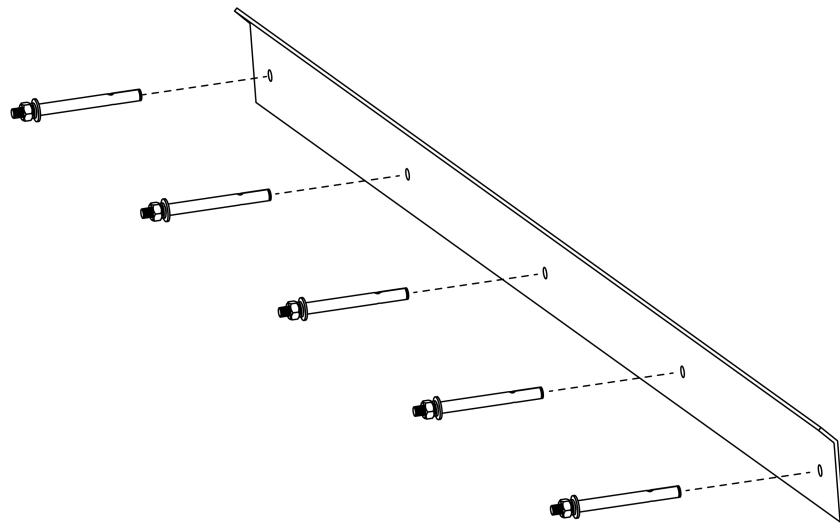
A: Power Cord; B: Drain Outlet (Connected with drain pipes)



2. Connect the drain pipe and connect the power cord according to the cable diagram.

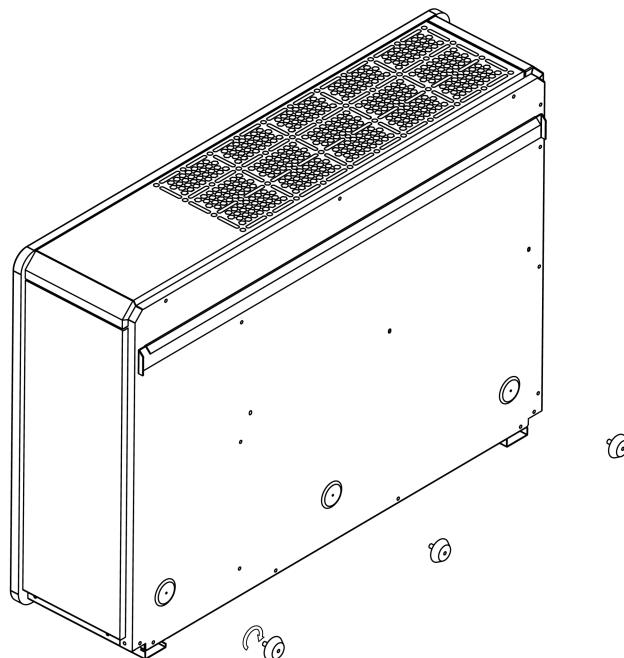
Steps of installation on the wall:

1. On the appropriate wall, mount the bracket to the wall by attaching five $\varphi 6\text{mm}$ pull-out screws to the holes in the wall bracket.

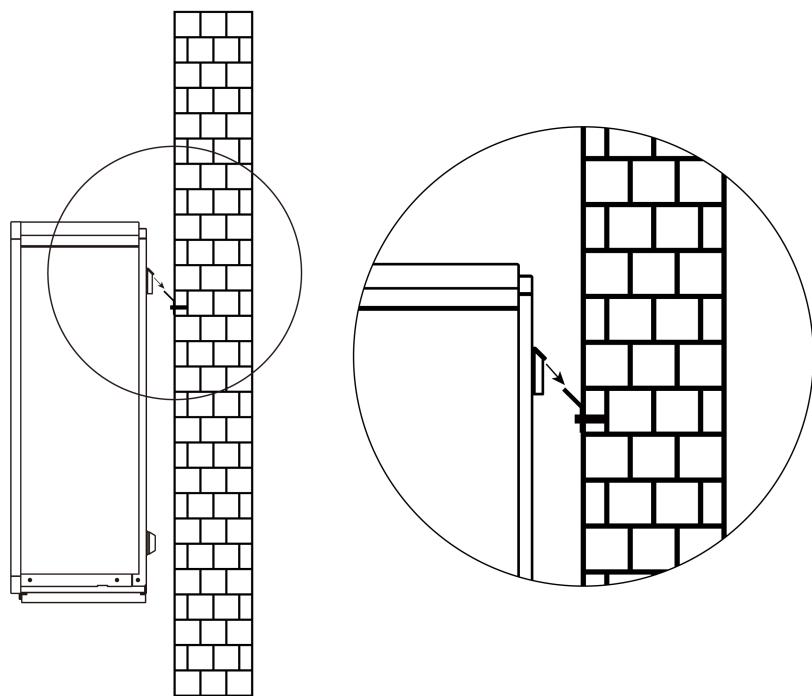


FOR INSTALLERS AND PROFESSIONALS

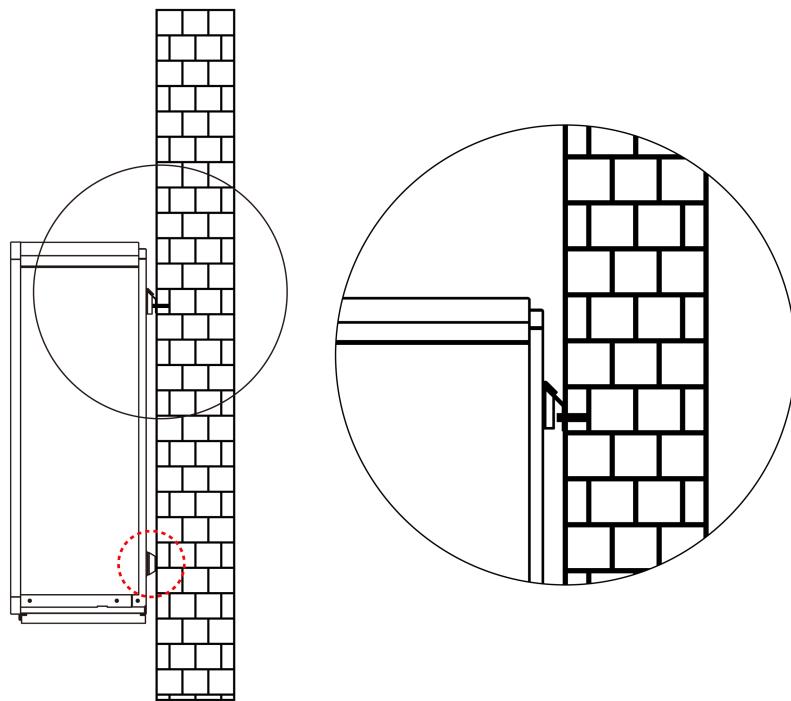
2. Place the pad on the wall-mounting platform behind the equipment



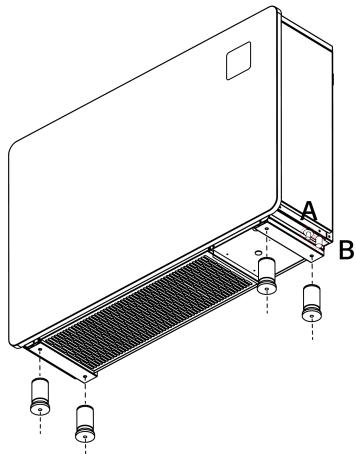
3. Hang the hanging strip on the back of the equipment on the bracket.



After hanging the bracket, gently put the equipment until the pad of the bottom rests against the wall.



4. Connect the drain pipe, and connect the power cord according to the wiring diagram



A: Power cord;
B: Drain outlet (connect the drain pipes)

1.2.2. Electrical installation wiring

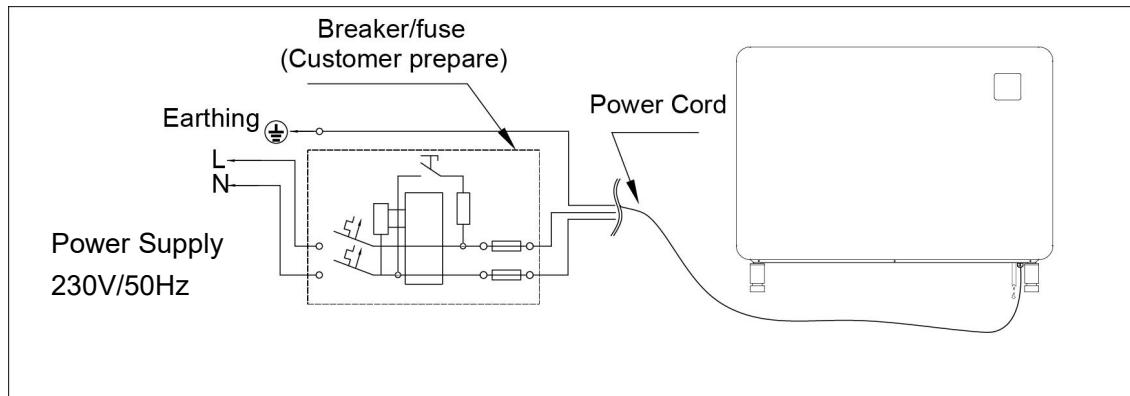
- (1) Connect to appropriate power supply, the voltage should comply with the rated voltage of the products.
- (2) Dehumidifier must be well grounded.
- (3) Wiring must be connected by professional technician according to the circuit diagram.
- (4) According to the requirements of relevant electrical equipment technical standards of the local country of the user, set up leakage protection devices (leakage operating current $\leq 30mA$)

FOR INSTALLERS AND PROFESSIONALS

- (5) The layout of power cable and signal cable should be orderly and not affecting each other; considering the environmental condition (ambient temperature, direct sunlight, rain, power grid voltage, cable length etc.) The cross-sectional area of the cable can be appropriately increased.
- (6) Completed all the wiring, must be checked carefully then connect the power.
- (7) If you use green energy to power this equipment, please make sure the power supply voltage is stable and the voltage range is within the range indicated on the equipment. Unstable voltage or voltage range beyond the indicated value will easily cause damage to the machine.



Electric wiring diagram



Model		DH-i25	DH-i35	DH-i45	DH-i65	DH-i75
Breaker	Rated current (A)	4.0	6.0	8.0	10.0	12.0
	Rated residual Action Current (mA)	30	30	30	30	30
	Max input current (A)	2.5	4.6	6.50	8.0	9.5
Fuse (A)		4.0	6.0	8.0	10.0	12.0
Power cord (mm ²)		3x1.5	3x1.5	3x1.5	3x2.5	3x2.5

Note: Above data is adapted to power cord $\leq 10\text{m}$. If power cord $\geq 10\text{m}$, wire diameter must be increased.

1.3. Trail after Installation



Please check all the wirings carefully before turning on the dehumidifier.

1.3.1. Inspection before use

- (1) Check if the dehumidifier is vertically or horizontally placed on the ground or hung on the wall, connected with drain pipe;
- (2) Check the electric wiring according to the electrical wiring diagram and earthing connection;
- (3) Make sure that the main power is well connected;

FOR INSTALLERS AND PROFESSIONALS

- (4) Make sure that setting the appropriate humidity;
- (5) Check if there is any obstacle in front of the air inlet and outlet of the dehumidifier.

1.3.2. Trail

The user should open the power switch firstly then connect the power.

To protect the dehumidifier, it is equipped with start delay function; when starting the dehumidifier, the fan will firstly start to run in 3 minutes, then the compressor will start running. After dehumidifier starts up, check for any abnormal noise from the dehumidifier.

1.4. Daily Maintenance Notice

⚠ The maintenance should be carried out per year by qualified professional technician.

- Cut off power supply of the dehumidifier before inspection;
- Please cut off the power supply when not be used, and cover the plastic sheet use the cloth to prevent dust from entering.
- Please clean the dehumidifier with the household detergents or clean water, NEVER use Volatile oil, gasoline, thinner or sassafras powder.
- Please clean the filter regularly, household neutral detergent or water is recommended, volatile oils, petrol, thinner, and other chemical cleaning is strictly prohibited.

2. TROUBLE SHOTTING FOR COMMON FAULTS

Failure	Reason	Solution
Dehumidifier doesn't run	No power	Wait until the power recovers
	Power switch is off	Switch on the power
	Fuse burned	Check and change the fuse
	The breaker is off	Check and turn on the breaker
Fan running but insufficient heating	Evaporator blocked	Remove the obstacles
	Air outlet blocked	Remove the obstacles
	3 minutes start delay	Wait patiently
Display normal, but no dehumidification	The set humidity too low	set proper humidity
	3 minutes start delay	Wait patiently

If above solutions don't work, please contact professional installer with model number and detailed information. Don't try to repair it yourself.

ATTENTION! Please don't try to repair the dehumidifier by yourself to avoid any risk.

3. FAILURE CODE

NO	Failure	Code
1	High pressure protection	E1
2	Low pressure protection	E2
3	Abnormal power supply voltage protection	E5
4	Electric heating overheating protection (manual reset thermostat)	E7
5	Exhaust high temp protection	E8
6	Air out high temp protection	EA
7	Environmental low temp protection	Eb
8	Controller failure	P0
9	Air inlet temperature sensor failure	P1
10	Air outlet temperature sensor failure	P2
11	Exhaust gas temp sensor failure	P3
12	Gas return temp sensor failure	P5
13	Evaporation coil temperature sensor failure	P6
14	Ambient humidity sensor failure	P7
15	Cooling plate sensor failure	P8
16	Current sensor failure	P9
17	Restart memory failure	PA
18	Compressor drive module or related wiring failure	F1
19	PFC module failure	F2
20	Compressor start failure	F3
21	Compressor running failure	F4
22	Inverter board over current protection	F5
23	Inverter board overheat protection	F6
24	Over current protection	F7
25	Radiator high temperature protection	F8
26	DC fan fault	F9
27	PFC module overcurrent protection	FA

The factory reserves the final interpretation right.

And keep the right to stop or change product specification and design without prior notice at any time, no need to bear the resulting obligations.



Version: GFL181IDr32