





User's manual

2025 Touch controller DRY

Model: FRS0193039-040 1.3

Compatibility: DRY300-400-500-800-1200 in make: WAVE, METAL (ALU), SILVER, DUCT, HORIZON





Version: 02/2025; 28.05.2025

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1. Description of display

Please note that actual display and/or its icons may differ from the product you have.





2. Humidity settings

Target humidity should be set within 50~65% RH range. Humidities lower than 40% may cause too dry environment, unnecessary electrical consumption and can cause unwilling dry feeling. Humidities above 70% create favorable environment for mold and/or bacteria growth.

Example:

Below picture shows stand-by in dehumidification mode (compressor off), current reading of relative humidity 64%, time 21:10, WiFi function activated, fan on medium speed and external controller activated.



In order to set target humidity to activate dehumidification, make sure to unlock the display by pressing and holding the ON/OFF button for 5 seconds. Then set with up or down arrow.

Humidity function is also dependent on hysteresis (difference between the target and actual relative humidity to activate/inactivate dehumidification). Parameter C22 is Humidity Hysteresis. Refer to its settings below in Settings (Main parameters). Hysteresis is positive (1 directional).

Should the controller be set to different than dehumidification mode then set dehumidification

by pressing and holding the up arrow for 5s. You need to set the water drop icon . Make sure the display is unlocked.

5 seconds press & hold $\bigcirc => \boxed{\textcircled{0}}$.





In order to set target air temperature to activate air heating, make sure to unlock the display by pressing and holding the ON/OFF button for 5 seconds. Then press and hold M

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button to access "C" System Settings (Main parameters). If you only press M button shortly
you will be prompted to self-diagnosis "d" parameters. Then proceed with arrows $\smile \smile$ to
move to $C2$ parameter, then press M button \textcircled{M} to access settings of C2, then set your
requested air temperature with up or down or arrow, confirm with M button. We
suggest to keep the air temperature in range $+2^{\circ}$ C above water temperature for general pools (normally in range 26~32°C).

Air heating function is also dependent on hysteresis (difference between the target and actual air temperature to activate/inactivate air heating). Parameter C21 is Air heating Hysteresis. Refer to its settings below in Settings (Main parameters). Hysteresis is negative (1 directional).

Should the controller be set to different than dehumidification mode then set dehumidification by pressing and holding the up arrow for 5s. You need to set the sun and water drop icon Make sure the display is unlocked.

5 seconds press & hold \bigcirc => \bigcirc , then again **5 seconds press & hold to show both sun and water drops** \bigcirc . Since the device is dehumidifier, you should keep dehumidification settings activated (water drop) and have sun activated too (to enable air heating). Please note that the actual order of symbols may differ.

4. Self-diagnosis (operational parameters)

Your controller is equipped with self-diagnosis function. This is very convenient function that enables you and your installer (dealer) to diagnose the dehumidifier based only on display readings. In most cases it allows the installer (dealer) to determine if the device is working properly and/or to identify the fault.

In order to access the self-diagnosis make sure to **unlock the display** by pressing and holding the ON/OFF button for 5 seconds. Then **press the M button shortly (1 second)** to access "**d**" parameters. If you press and hold the M button for 5 seconds and more you will be prompted to "C" System parameters (settings). Press on/off to return to basic view and then tap the M shortly to access the d operational parameters.

Parameter Sensor type PCB Meaning of Parameter Sensor code connector parameters range connector number color T5 – air. 5kΩ CN3 Air temperature -30°C~99°C White d1 plastic CN11 **Relative humidity** White d2 T1 – HT sensor 0%RH-99%RH T4 – evaporator, CN6 Evaporator temperature -30°C~99°C Yellow d3 5kΩ copper d4 T3 – 5koΩ copper CN8 Suction temperature -30°C~99°C Black T2 – 50kΩ copper CN9 **Compressor discharge** -30°C~99°C Red d5 temperature CN3 Step number of EEV 1 0-500 steps d6 _ -CN4 d7 Step number of EEV 2 0-500 steps _ -0-2000Hz Operation frequency of d8 the DC inverter fan motor

List of self-diagnosis parameters below:

5. System Settings (main parameters)

Main settings (or parameters) mean overall core settings of your device. **Do not interfere with these settings unless you have been trained to do so.** Manufacturer, installer and/or dealer are not responsible for damages on the device, equipment and/or health risks from incorrect settings.

Your device comes with pre-set factory settings. Should you need to change the parameters,

then please make sure to **unlock the display** by pressing and holding the ON/OFF button for 5 seconds. (if you only short press M button you will be prompted to "d" self-diagnosis

parameters). Then press and hold M button is to access "C" Settings (Main

parameters). Then proceed with arrows $\bigcirc \bigcirc \bigcirc$ to move to C1-C28 parameters. In order to set

particular C parameters press M button M to access its settings. Set with up O or down O arrow, confirm with M button.

List of System parameters below: C1->C9 10->28 means C10 to C28

Parameter	Meaning of the codes	Description of	Default
code		parameters	
C1	Requested humidity	1%RH-99%RH	58%RH
C2	Requested air temperature for air heating	5°C-45°C	30°C
C3	With or without heating	0~1,	The default is 1
		0= without heating	
		1= with heating	
C4	Humidity sensor correction	-10%~10%	0%
C5	Delay detection time after the compressor starts	20~90min	40
	Minimal compressor running before defrosting		
C6	The temperature at which the system enters the defrost point (self-diagnosis d3)	−10°C~10°C	-2
C7	Temperature at which the system exits the defrosting point	0°C∼15°C	8
C8	Maximum defrosting time	2min~12min	10

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C9	Fan control mode	0-2	2
		0=periodical	
		1=continual	
		2=smart – air sampling for	
		parameter C24	
C 10	The return difference when the	1~30°C	10°C
	EEV exits after entering the permissible discharge		
	temperature		
C 11	The permissible discharge	80°C∼150°C	95°C
	the EEV		
C 12	Operation period of the EEV.	20s~90s	30s
C 13	Target super heat.	-10~10°C	5°C
C 14		1~240	75
0 14	settings	1. 240	13
C 15	Fan type selection	0-AC ; 1-DC	0
C 16	High wind speed of DC motor	400-1500	1300
C 17	Low wind speed of DC motor	400-1500	900
C 18	High pressure detection function	0-without; 1-with	1
	(this is refrigerant system core		(set to "0" only for self-
	parameter C18 unless you have		after you have
	been clearly instructed by your installer or dealer to do so).		experienced E4 error code)
	Settings .0" is used to enable the		,
	device to start and read out self-		
	pressure protection has been		
	engaged – error E4.		
C 19	Low pressure detection function	0-without;1-with	1
	(this is refrigerant system core		(set to "0" only for self-
	parameter C19 unless you have		after you have
	installer or dealr to do so).		code)
	Settings "0" is used to enable the		
	device to start and read out self- diagnosis even though low		
	pressure protection has been		
0.00		O with part of the	4
C 20	Return air temperature function	U-without ; 1-with	1

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C 21	Air heating hysteresis Negative hysteresis – turns on when actual air temperature is less than (C2-C21), turns off at C2.	0~+10°C	1
C 22	Air humidity hysteresis Positive hysteresis – turns on when actual RH is more than (target humidity+C22), turn off at target humidity.	0-10%; 0-1-2-3-4-510	4
C 23	Air temperature sensor correction This parameter is to be used when you need to adjust the air temperature sensor reading.	-5~+5	0
C 24	Air sampling (periodic air measurement with "low fan speed"), 60 seconds	10-60minutes, step by 10minutes (10-20-30-40- 50-60)	20
C 25	Active / Passive defrosting Attention to user: do not set "1" yourself, there is risk of frost with subsequent damage of your dehumidifier. Settings of "1" is only used when your dehumidifier is equipped with 4-way valve (low temperature kit for air operations from +5°C).	0~1 0 = passive = 14~45°C (air flow defrosting) 1 = active = 9~45°C (only with 4-way valve)	0
C 26	Fan speed control Your dehumidifier is equipped with simulated step inverter fan. This allows the fan to assume lower speed if the air temperature and humidity and/or air heating function enables it. Typically if RH and/or Air temperature are less than 5% (5°C) from target then if air temperature is below C26, the fan will automatically assume lower speed.	5-45	27
C 27	Temperature at which the system exits the defrosting point PASSIVE defrosting (C25=0)	0°C∼20°C	15
C 28	Maximum defrosting time PASSIVE defrosting (C25=0)	2min~25min	15
C29	Ventilation	0-1	0

C30	DUCT unit	0-1	0
C31	Phase Sequence Protection / Electrical Protection IN1	0-1	0
C32	Dry Contact/PV Ready IN2	0-1	0
C33	Electric heater	0-1	0
C34	LED microLIGHT	0-1	0

6. Description of general function

Your dehumidifier is able to maintain following function modes:

	Range of t	the ambient temperature	Display settings in abnormal mode	
Mode	5°C-45°C	Outside the range of 5°C-45°C	(including downtime due to failure)	Symbol
Dehumidification mode	Normal dehumidification	The dehumidification mode is off, the compressor is off, and the fan is off	The dehumidification mode icon keeps flashing	60
Independent heating mode	Normal heating	Normal heating	In heating mode, the icon flashes continuously	₩
Dehumidification and heating mode	Normal dehumidification and normal heating	The dehumidification mode is turned off. The compressor is turned off, but the fan remains on for independent heating	The icon of dehumidification plus heating mode keeps flashing	ی اللہ
Air supply mode	Normal output	Normal output		

Display flashes water drops Mand snowflake 😂 => unit is defrosting.

Display shows OFF and OUT => DRY contact is disconnected (PV ready disabled).

The dehumidifier is programmed for automatic operations. This means that the dehumidification, air heating and ventilation (fresh air) is turned on based on requested target relative humidity and target air temperature. The fan is programmed to automatically adjust its speed from low to high speed based on demand. If the relative humidity is within 5%

(percentage points) difference from target and air temperature is below settings C27, the fan will not assume high speed. After the system has turned off active dehumidification or air heating, the fan will continue to work on medium speed to dry out or cool down the system for another 120 seconds.

• Real-time clock setting:

On the main interface, press "Clock" to enter the real-time clock setting screen.

On the real-time Clock screen, press the "Clock" Ukey, and the digit in the hour part blinks. Press the "+" key or the "-" key to set the hour of the real-time clock.

After the hours part is set, press the "Clock" key again, and the number in the minutes part blinks. Press the "+" key or the "-" key to set the minutes of the real-time clock.

After the minute part is set, press the "Clock" key again to confirm the real-time clock setting and return to the main interface.

If no key is pressed for 30 seconds on the real-time Clock setting screen, the system confirms the current real-time clock setting value and returns to the main interface.

On the real-time Clock setting screen, press the "on/off" key to confirm the current real-time clock setting and return back to the main interface.

• Set the timer to on/off:

On the main interface, press and hold the "Clock" key for 5 seconds to enter the screen for setting the timer group.

At this time, press the "+" key or "-" key to set the timer group, 1, 2, 3 and 4.

When segment 1 is blinking, press the "Clock"key to enter the screen for setting the hour part of the timer startup time for timer group 1. When the number of the hour part of the timer startup time is blinking, press the "+" key or the "-" key to set the timer hour section for timer group 1.

After the hour part is set and you press the "Clock" key, the number in the minute part of the timer startup time blinks. Press the "+" key or the "-" key to set the timer startup minutes. Then you can set the timer of 1 group of startup minutes.

After setting the timer of the minute section for starting group 1, press the "Clock" key to enter the hour setting for shutting down of timer group 1. The setting method is the same as the above.

After the scheduled shutdown time is set, press the "Clock" key to confirm the current set timer on/off time, enter the on/off setting of timer group 2, the setting is the same as timer group 1, and return to the main screen.

On the timer setting screen, hold down the Clock key for 5 seconds to disable the timer on/off.

On the timer interface, if no button is pressed for 30 seconds, confirm the current timer time and return to the main screen. (Power off after timing can be remembered).

On the timer interface, press the "on/off" key to confirm the current timer time and return to the main screen.

The timer settings for other segments are the same as those for segment 1.

7. WiFi



Application is Smart Life

Open the Smart Life APP and log in to the home screen. Tap "+" in the upper right corner or "Add Device" on the screen to enter the device type selection. Select "Other" from "Other device" to enter the screen for adding device



IN4 = DRY EASY300, EBERLE HYG6001/7001 /0V

- IN3 = DRY EASY300, EBERLE HYG7001 /0V
- IN2 = DRY contact, PV ready, other master control /0V
- OUT5 = external ventilation (fresh air connection) / 230V
- OUT1 = Electrical heating or Solenoid valve for water heating / 230V

CN1 = External controller touch WiFi

9. Error codes

Error code	Operational	Protection/Failure	Solution	Recoverable
	status of the	description		
	dehumidifier			
E1	Air heating	Indoor temperature	Check the CN3 white	yes
	function is	sensor error	connector sensor and/or	
	Compressor and		exchange it.	
	dehumidification			
	function			
	remains.			
	In the case of			
	E1 and closed			
	IN3 (external			
	thermostat) the			
	must remain			
	too. E1 on			
	display OK.			
F2	Air beating	Evaporator	Check the CN6 vellow	Ves
	function works	temperature sensor	connector sensor and/or	yes
	normally.	error	exchange it.	
	Dehumidification		C C	
	works normally			
	with periodic			
	defrosting and			
	showed.			
50	Ainteration			
E3	Air neating	Humidity sensor	Check the CN11 white	yes
	normally.	enor	exchange it.	
	Dehumidification			
	is disabled.			
E4	Dehumidification	High pressure	Restart your device with	no
	function is	protection	ON/OFF button, if E4	
	disabled.		happens repeatedly, pls	
	Serious error.		contact your installer or	
	I his error is		dealer.	
	and requires		You may disable the high	
	manual		pressure protection by	
	intervention.		setting parameter C18 to	
	Airbooting		0. This allows you to run	
	function works		operational parameters to	
	normally.		confirm or deny the error.	
E5	Dehumidification	Low pressure	Restart your device with	no
	disabled	protection	DIN/OFF DULLON, II ED	
	Serious error.		המשקטהים ופויפמובטוץ, איס	

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	This error is		contact your installer or	
	non-recoverable		dealer	
	and requires		dealer.	
	manual		You may disable the high	
	intervention		pressure protection by	
			setting parameter C19 to	
	Air heating		0. This allows you to run	
	function works		the device and read out	
	normally.		operational parameters to	
			confirm or deny the	
			error.Low pressure error	
			may also occur in low	
			air temperatures. The	
			system is programmed	
			to automatically adjust	
			for given air	
			temperature:	
			25 <ta<45, 30seconds<="" th=""><th></th></ta<45,>	
			If 15 <ta<24, 60seconds<="" th=""><th></th></ta<24,>	
			If 5 <ta<14, 120seconds<="" th=""><th></th></ta<14,>	
E6	Dehumidification	Defrosting error	Speak with your	no
	may be		installer/dealer. possible	
	-		, ,	
	disabled. Air		causes: dirty or clogged	
	disabled. Air heating works		causes: dirty or clogged drain or 4-way valve.	
	disabled. Air heating works normally.		causes: dirty or clogged drain or 4-way valve, too cold, etc.	
	disabled. Air heating works normally.		causes: dirty or clogged drain or 4-way valve, too cold, etc.	
	disabled. Air heating works normally.		causes: dirty or clogged drain or 4-way valve, too cold, etc. When C25=0 or C25=1	
	disabled. Air heating works normally.		causes: dirty or clogged drain or 4-way valve, too cold, etc. When C25=0 or C25=1 and unit enters	
	disabled. Air heating works normally.		causes: dirty or clogged drain or 4-way valve, too cold, etc. When C25=0 or C25=1 and unit enters defrosting, then if <u>3</u>	
	disabled. Air heating works normally.		causes: dirty or clogged drain or 4-way valve, too cold, etc. When C25=0 or C25=1 and unit enters defrosting, then if <u>3</u> consecutive times AND	
	disabled. Air heating works normally.		causes: dirty or clogged drain or 4-way valve, too cold, etc. When C25=0 or C25=1 and unit enters defrosting, then if <u>3</u> consecutive times AND each time the system	
	disabled. Air heating works normally.		causes: dirty or clogged drain or 4-way valve, too cold, etc. When C25=0 or C25=1 and unit enters defrosting, then if <u>3</u> consecutive times AND each time the system	
	disabled. Air heating works normally.		causes: dirty or clogged drain or 4-way valve, too cold, etc. When C25=0 or C25=1 and unit enters defrosting, then if <u>3</u> consecutive times AND each time the system exits defrosting based	
	disabled. Air heating works normally.		causes: dirty or clogged drain or 4-way valve, too cold, etc. When C25=0 or C25=1 and unit enters defrosting, then if <u>3</u> consecutive times AND each time the system exits defrosting based on time = C28 (C8) (and	
	disabled. Air heating works normally.		causes: dirty or clogged drain or 4-way valve, too cold, etc. When C25=0 or C25=1 and unit enters defrosting, then if <u>3</u> consecutive times AND each time the system exits defrosting based on time = C28 (C8) (and not based on	
	disabled. Air heating works normally.		causes: dirty or clogged drain or 4-way valve, too cold, etc. When C25=0 or C25=1 and unit enters defrosting, then if <u>3</u> consecutive times AND each time the system exits defrosting based on time = C28 (C8) (and not based on temperature C27 (C7)),	
	disabled. Air heating works normally.		causes: dirty or clogged drain or 4-way valve, too cold, etc. When C25=0 or C25=1 and unit enters defrosting, then if <u>3</u> consecutive times AND each time the system exits defrosting based on time = C28 (C8) (and not based on temperature C27 (C7)), then E6 is activated,	
	disabled. Air heating works normally.		causes: dirty or clogged drain or 4-way valve, too cold, etc. When C25=0 or C25=1 and unit enters defrosting, then if <u>3</u> consecutive times AND each time the system exits defrosting based on time = C28 (C8) (and not based on temperature C27 (C7)), then E6 is activated, then compressor off.	
	disabled. Air heating works normally.		causes: dirty or clogged drain or 4-way valve, too cold, etc. When C25=0 or C25=1 and unit enters defrosting, then if <u>3</u> consecutive times AND each time the system exits defrosting based on time = C28 (C8) (and not based on temperature C27 (C7)), then E6 is activated, then compressor off. Heating function is not	
	disabled. Air heating works normally.		causes: dirty or clogged drain or 4-way valve, too cold, etc. When C25=0 or C25=1 and unit enters defrosting, then if <u>3</u> consecutive times AND each time the system exits defrosting based on time = C28 (C8) (and not based on temperature C27 (C7)), then E6 is activated, then compressor off. Heating function is not changed.	
	disabled. Air heating works normally.	Ouesback and a first	causes: dirty or clogged drain or 4-way valve, too cold, etc. When C25=0 or C25=1 and unit enters defrosting, then if <u>3</u> consecutive times AND each time the system exits defrosting based on time = C28 (C8) (and not based on temperature C27 (C7)), then E6 is activated, then compressor off. Heating function is not changed.	
Ε7	disabled. Air heating works normally.	Overheat protection,	causes: dirty or clogged drain or 4-way valve, too cold, etc. When C25=0 or C25=1 and unit enters defrosting, then if <u>3</u> consecutive times AND each time the system exits defrosting based on time = C28 (C8) (and not based on temperature C27 (C7)), then E6 is activated, then compressor off. Heating function is not changed. E7 – requires correction – described further below	no
Ε7	disabled. Air heating works normally.	Overheat protection, high compressor	causes: dirty or clogged drain or 4-way valve, too cold, etc. When C25=0 or C25=1 and unit enters defrosting, then if <u>3</u> consecutive times AND each time the system exits defrosting based on time = C28 (C8) (and not based on temperature C27 (C7)), then E6 is activated, then compressor off. Heating function is not changed. E7 – requires correction – described further below.	no
Ε7	disabled. Air heating works normally. Serious error, dehumidification is disabled. Air heating function	Overheat protection, high compressor temperature	causes: dirty or clogged drain or 4-way valve, too cold, etc. When C25=0 or C25=1 and unit enters defrosting, then if <u>3</u> consecutive times AND each time the system exits defrosting based on time = C28 (C8) (and not based on temperature C27 (C7)), then E6 is activated, then compressor off. Heating function is not changed. E7 – requires correction – described further below.	no
Ε7	disabled. Air heating works normally. Serious error, dehumidification is disabled. Air heating function works normally.	Overheat protection, high compressor temperature	causes: dirty or clogged drain or 4-way valve, too cold, etc. When C25=0 or C25=1 and unit enters defrosting, then if <u>3</u> consecutive times AND each time the system exits defrosting based on time = C28 (C8) (and not based on temperature C27 (C7)), then E6 is activated, then compressor off. Heating function is not changed. E7 – requires correction – described further below.	no

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E8	Dehumidification works normally. Air heating is disabled.	High temperature by air heating protection Alternative Phase- sequence protection	IN1=OPEN, (electrical heater protectionf fuse failure, fan malfunction, filter dirty, system frozen, problem with air flow) Alternative phase protection (order of the phases, missing phase, etc) /3ph 400V units only)	No Fan running for 120 seconds at high speed.
E9	Dehumidification disabled. Air heating works normally.	Suction temperature sensor error	Check the suction sensor – CN8 black and/or change the sensor.	yes
E10	Dehumidification disabled. Air heating works normally.	Discharge temperature sensor error	Check the suction sensor – CN9 red and/or change the sensor.	yes
E11	Dehumidification disabled. Air heating works normally.	High discharge temperature protection	The device signalizes it is overheating. It will attempt to restart and run the fan at high speed to cool down. If this error is activated 3 consecutive times (within single running period), the system is turned off and E7 (non-recoverable) error is displayed which requires human interaction.	yes
EE	Unit is disabled.	Communication error	Incompatible SW (FW) versions of the PCB and/or display; cable connection.	yes
E12	Unit is disabled.	DC fan failure	Check the cable connection of the display and the PCB and the fan(s). Check PCB for burns.	No
E13	Unit is disabled.	Communication failure between the main board and the DC inverter module	Check the cable connection of the display and the PCB. Check PCB for burns.	No
E14	Unit is disabled.	Too low ambient temperature alarm Snow flake and OFF are flashing	Increase air temperature. The reason for this error is lower air temperature than settings range within parameter C25 (i.e. less than 9°C or 5°C).	Yes

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E15	Electrical	Critical tomporaturo	Check the air flow if there	Voc
E15	Electrical	Childan temperature	Check the all now, it there	165
	heating	of the electrical coil	aren't objects blocking the	
	disabled,		air flow	
	dehumidification			
	works normally		Check fan motor if it works	
			normally.	
			Check the unit for dirt	
			and/or any blockage.	

Main technical performance indicators:

1.1 Working voltage: AC (0.85-1.15)220V,50Hz.

1.2 Temperature control accuracy, in the temperature control range of the electronic

controller: ±1 °C (using a precision resistance box), the measurement accuracy of the sensor:

 ± 1.5 °C, the humidity sensor accuracy of $\pm 5\%$ RH, can be calibrated to $\pm 2\%$ RH (10%-

90%RH range) through parameters.

1.3 Power consumption of a single controller in standby state: \leq 5W.

1.4 Starting voltage: $\leq 80\%$ of rated voltage.

1.5 Storage temperature range: -20°C to 80°C.

1.6 Printed circuit board in accordance with GB/T 4588.1-1996 "Non-metallized hole single,

double-sided printing board specification".

1.7 The controller complies with GB14536.1 "Household and similar electrical automatic controller Part 1: General requirements".

1.8 The controller conforms to GB/T 17626.4-1998 "Electromagnetic Compatibility Test and measurement technology Electrical fast transient pulse group immunity Test", GB4343-1995 "Household and similar electric appliances, electric heating appliances, power tools and similar electrical radio interference characteristics measurement method and allowable value".

Notes:



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