



# FULL DC INVERTER SYSTEMS

## MAPPING TABLE

GW-MOD

COMMERCIAL AIR CONDITIONERS SDV5

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Description:

Discrete inputs:

Protocol address = Register address - 10001

Input register:

Protocol address = Register address - 30001

Holding register:

Protocol address = Register address - 40001

# 1. Mapping Table for IDU Variables

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## 1-1 Read Discrete Inputs

Command Type	IDU Address	Register Address	Variable Name	Data Length	Meaning
Read discrete inputs	IDU0	10001	On/Off	1bit	0: Off, 1: On
		10002	Error	1bit	0: No error, 1: Error
		10003	Online status	1bit	0: Offline, 1: Online
		10004	--	1bit	Reserved
		10005	--	1bit	Reserved
		10006	--	1bit	Reserved
		10007	--	1bit	Reserved
		10008	--	1bit	Reserved
Read discrete inputs	IDU1	10009	On/Off	1bit	0: Off, 1: On
		10010	Error	1bit	0: No error, 1: Error
		10011	Online status	1bit	0: Offline, 1: Online
		10012	--	1bit	Reserved
		10013	--	1bit	Reserved
		10014	--	1bit	Reserved
		10015	--	1bit	Reserved
		10016	--	1bit	Reserved
...	...	...			

# 1. Mapping Table for IDU Variables

Command Type	IDU Address	Register Address	Variable Name	Data Length	Meaning
Read discrete inputs	IDUn	n*8+1+10000	On/Off	1 bit	0: Off, 1: On
		n*8+2+10000	Error	1 bit	0: No error, 1: Error
		n*8+3+10000	Online status	1 bit	0: Offline, 1: Online
		n*8+4+10000	--	1bit	Reserved
		n*8+5+10000	--	1bit	Reserved
		n*8+6+10000	--	1bit	Reserved
		n*8+7+10000	--	1bit	Reserved
		n*8+8+10000	--	1bit	Reserved
Read discrete inputs	IDU63	10505	On/Off	1bit	0: Off, 1: On
		10506	Error	1bit	0: No error, 1: Error
		10507	Online status	1bit	0: Offline, 1: Online
		10508	--	1bit	Reserved
		10509	--	1bit	Reserved
		10510	--	1bit	Reserved
		10511	--	1bit	Reserved
		10512	--	1bit	Reserved

# 1. Mapping Table for IDU Variables

## 1-2 Read Input Registers

Command Type	IDU Address	Register Address	Variable Name	Data Length	Meaning
Read input registers	IDU0	30001	AHU Mode	2bytes	0: Off, 1: Fan, 2: Cool, 3: Heat, 4: Auto, 5: Dry, 6: Forced cool
		30002	Fan Speed	2bytes	0: Stop fan (DC unit, fan speed 7) Speed 1-7; (AC unit, fan speed 3) 8: Breeze, 9: Low speed, 10: Mid speed, 11: High speed, 12: Auto
		30003	Set temperature/cool temp_set	2bytes	Set temperature (non-auto mode), 17~30, or cool temperature
		30004	Heat temp set	2bytes	Heat temp set
		30005	Room temperature	2bytes	Room temperature, 17~30 (temperature range: -15°C ~ 80°C. Description: when value > 240, actual temperature +256)
		30006	Error Code	2bytes	Error codes: 0~255 (refer to error code table for description)
		30007	Mode-lock	2bytes	Mode-lock: 0 - Unlock, 1 - Lock cool, 2 - Lock heat
		30008	Fan-lock	2bytes	Fan-lock: 0 - Unlock (DC unit, fan speed 7), 1 - Lock speed 1, 2 - Lock speed 2, 3 - Lock speed 3, 4 - Lock speed 4, 5 - Lock speed 5, 6 - Lock speed 6, 7 - Lock speed 7 (AC unit, fan speed 3), 9 - Lock low speed, 10 - Lock mid speed, 11 - Lock high speed
		30009	Remote controller lock	2bytes	Remote controller lock: 0 - Unlock, 1 - Lock

# 1. Mapping Table for IDU Variables

Command Type	IDU Address	Register Address	Variable Name	Data Length	Meaning
Read input registers	IDU0	30010	Wired controller lock	2bytes	Wired controller lock: 0 - Unlock, 1 - Lock
		30011	Lower limit of cooling temperature	2bytes	Lower limit of heating temperature: 0xFF - Unlock, 17-30 - Lock value
		30012	Upper limit of heating temperature	2bytes	Upper limit of heating temperature: 0xFF - Unlock, 17-30 - Lock value
		30013	Swing lock	2bytes	Swing lock: 0 - Unlock, 1 - Lock
		30014	--	2bytes	Reserved
		30015	--	2bytes	Reserved
		30016	--	2bytes	Reserved
Read input registers	IDU1	30017	AHU Mode	2bytes	0: Off, 1: Fan, 2: Cool, 3: Heat, 4: Auto, 5: Dry, 6: Forced cool
		30018	Fan Speed	2bytes	0: Stop fan, (DC unit, fan speed 7) Speed 1-7; (AC unit, fan speed 3) 8: Breeze, 9: Low speed, 10: Mid speed, 11: High speed, 12: Auto
		30019	Set temperature/cool temp_set	2bytes	Set temperature (non-auto mode), 17-30, or cool temperature
		30020	Heat temp set	2bytes	Heat temp set
		30021	Room temperature	2bytes	Room temperature, 17-30 (temperature range: -15°C ~ 80°C. Description: when value > 240, actual temperature +256)
		30022	Error Code	2bytes	Error codes: 0~255 (refer to error code table for description)
		30023	Mode-lock	2bytes	Mode-lock: 0 - Unlock 1 - Lock cool, 2 - Lock heat

# 1. Mapping Table for IDU Variables

Command Type	IDU Address	Register Address	Variable Name	Data Length	Meaning
Read input registers	IDU1	30024	Fan-lock	2bytes	Fan-lock: 0 - Unlock (DC unit, fan speed 7), 1 - Lock speed 1, 2 - Lock speed 2, 3 - Lock speed 3, 4 - Lock speed 4, 5 - Lock speed 5, 6 - Lock speed 6, 7 - Lock speed 7 (AC unit, fan speed 3), 9 - Lock low speed, 10 - Lock mid speed, 11 - Lock high speed
		30025	Remote controller lock	2bytes	Remote controller lock: 0 - Unlock, 1 - Lock
		30026	Wired controller lock	2bytes	Wired controller lock: 0 - Unlock, 1 - Lock
		30027	Lower limit of cooling temperature	2bytes	Lower limit of heating temperature: 0xFF - Unlock, 17~30 - Lock value
		30028	Upper limit of heating temperature	2bytes	Upper limit of heating temperature: 0xFF - Unlock, 17~30 - Lock value
		30029	Swing lock	2bytes	Swing lock: 0 - Unlock, 1 - Lock
		30030	--	2bytes	Reserved
		30031	--	2bytes	Reserved
		30032	--	2bytes	Reserved
Read input registers	IDUn	n*16+1+30000	AHU Mode	2bytes	0: Off, 1: Fan, 2: Cool, 3: Heat, 4: Auto, 5: Dry, 6: Forced cool
		n*16+2+30000	Fan Speed	2bytes	0: Stop fan, (DC unit, fan speed 7) Speed 1-7; (AC unit, fan speed 3) 8: Breeze, 9: Low speed, 10: Mid speed, 11: High speed, 12: Auto
		n*16+3+30000	Set temperature/cool temp_set	2bytes	Set temperature (non-auto mode), 17~30, or cool temperature
		n*16+4+30000	Heat temp set	2bytes	Heat temp set
		n*16+5+30000	Room temperature	2bytes	Room temperature, 17~30 (temperature range: -15°C ~ 80°C. Description: when value > 240, actual temperature +256)

# 1. Mapping Table for IDU Variables

Command Type	IDU Address	Register Address	Variable Name	Data Length	Meaning
Read input registers	IDUn	n*16+6+30000	Error Code	2bytes	Error codes: 0~255 (refer to error code table for description)
		n*16+7+30000	Mode-lock	2bytes	Mode-lock: 0 - Unlock, 1 - Lock cool, 2 - Lock heat
		n*16+8+30000	Fan-lock	2bytes	Fan-lock: 0 - Unlock (DC unit, fan speed 7), 1 - Lock speed 1, 2 - Lock speed 2, 3 - Lock speed 3, 4 - Lock speed 4, 5 - Lock speed 5, 6 - Lock speed 6, 7 - Lock speed 7 (AC unit, fan speed 3), 9 - Lock low speed, 10 - Lock mid speed, 11 - Lock high speed
		n*16+9+30000	Remote controller lock	2bytes	Remote controller lock: 0 - Unlock, 1 - Lock
		n*16+10+30000	Wired controller lock (WDC lock)	2bytes	Wired controller lock: 0 - Unlock, 1 - Lock
		n*16+11+30000	Lower limit of cooling temperature	2bytes	Lower limit of heating temperature: 0xFF - Unlock, 17~30 - Lock value
		n*16+12+30000	Upper limit of heating temperature	2bytes	Upper limit of heating temperature: 0xFF - Unlock, 17~30 - Lock value
		n*16+13+30000	Swing lock	2bytes	Swing lock: 0 - Unlock, 1 - Lock
		n*16+14+30000	--	2bytes	Reserved
		n*16+15+30000	--	2bytes	Reserved
		n*16+16+30000	--	2bytes	Reserved
Read input registers	IDU63	31009	AHU Mode	2bytes	0: Off, 1: Fan, 2: Cool, 3: Heat, 4: Auto, 5: Dry, 6: Forced cool
		31010	Fan Speed	2bytes	0: Stop fan, (DC unit, fan speed 7) Speed 1-7; (AC unit, fan speed 3) 8: Breeze, 9: Low speed, 10: Mid speed, 11: High speed, 12: Auto
		31011	Set temperature/cool temp_set	2bytes	Set temperature (non-auto mode), 17~30, or cool temperature



# 1. Mapping Table for IDU Variables

Command Type	IDU Address	Register Address	Variable Name	Data Length	Meaning
Read input registers	IDU63	31012	Heat temp set	2bytes	Heat temp set
		31013	Room temperature	2bytes	Room temperature, 17~30 (temperature range: -15°C ~ 80°C. Description: when value > 240, actual temperature +256)
		31014	Error Code	2bytes	Error codes: 0~255 (refer to error code table for description)
		31015	Mode-lock	2bytes	Mode-lock: 0 - Unlock, 1 - Lock cool, 2 - Lock heat
		31016	Fan-lock	2bytes	Fan-lock: 0 - Unlock (DC unit, fan speed 7), 1 - Lock speed 1, 2 - Lock speed 2, 3 - Lock speed 3, 4 - Lock speed 4, 5 - Lock speed 5, 6 - Lock speed 6, 7 - Lock speed 7 (AC unit, fan speed 3), 9 - Lock low speed, 10 - Lock mid speed, 11 - Lock high speed
		31017	Remote controller lock	2bytes	Remote controller lock: 0 - Unlock, 1 - Lock
		31017	Remote controller lock	2bytes	Remote controller lock: 0 - Unlock, 1 - Lock
		31018	Wired controller lock	2bytes	Wired controller lock: 0 - Unlock, 1 - Lock
		31019	Lower limit of cooling temperature	2bytes	Lower limit of heating temperature: 0xFF - Unlock, 17~30 - Lock value
		31020	Upper limit of heating temperature	2bytes	Upper limit of heating temperature: 0xFF - Unlock, 17~30 - Lock value
		31021	Swing lock	2bytes	Swing lock: 0 - Unlock, 1 - Lock
		31022	--	2bytes	Reserved
		31023	--	2bytes	Reserved
31024	--	2bytes	Reserved		

# 1. Mapping Table for IDU Variables

## 1-3 Holding Registers

Command Type	IDU Address	Register Address	Variable Name	Data Length	Meaning
Single holding register	Group control (IDU0~IDU63)	40001	Group control	2bytes	0: Group control, 1: Summer mode 1, 2: Summer mode 2, 3: Winter mode 1, 4: Winter mode 2 Summer mode 1: Cool, 17 degrees, low fan speed, no timer, no electric heater Summer mode 2: Cool, 24 degrees, mid fan speed, no timer, no electric heater Winter mode 1: Heat, 30 degrees, high fan speed, no timer, no electric heater Winter mode 2: Heat, 26 degrees, mid fan speed, no timer, no electric heater
Single holding register	IDU0	40002	On/Off	2bytes	0: Off, 1: On (default is cool when unit is powered on with low fan speed and temperature of 25°C; after that, the implementation state will be based on the last power-on control parameters implemented by the modbus).
Holding register		40003	Mode settings	2bytes	1: Fan, 2: Cool, 3: Heat, 4: Auto, 5: Dry (For initial single mode control parameter, the fan speed is low and temperature is 25°C by default. Note: When only this parameter is controlled, other parameters such as fan speed and temperature will be implemented based on the last modbus control parameters.)
		40004	Fan speed setting	2bytes	0: Auto, (DC unit, fan speed 7) Speed 1-7; (AC unit, fan speed 3) 9: Low speed, 10: Mid speed, 11: High speed (For initial single fan speed parameter control, the mode is cool and temperature is 25°C by default. Subsequently, other parameters such as mode and temperature will be implemented based on the last modbus control parameters.)

# 1. Mapping Table for IDU Variables

Command Type	IDU Address	Register Address	Variable Name	Data Length	Meaning
Holding register	IDU0	40005	Set temperature/cool temp_set	2bytes	Set temperature (non-auto mode), 17~30, or cool temperature (For initial single temperature control parameter, mode is set to cool and fan speed is low by default. Subsequently, other parameters such as mode and fan speed will be implemented based on the last modbus control parameters.)
		40006	Heat temp set	2bytes	Heat temperature is 17~30: 0 indicates that data is invalid.
		40007		2bytes	Reserved
		40008		2bytes	Reserved
		40009		2bytes	Reserved
Single holding register	IDU1	40010	On/Off	2bytes	0: Off, 1: On (default is cool when unit is powered on with low fan speed and temperature of 25°C; after that, the implementation state will be based on the last power-on control parameters implemented by the modbus).
Holding register		40011	Mode settings	2bytes	1: Fan, 2: Cool, 3: Heat, 4: Auto, 5: Dry (For initial single mode control parameter, the fan speed is low and temperature is 25°C by default. Note: When only this parameter is controlled, other parameters such as fan speed and temperature will be implemented based on the last modbus control parameters.)

# 1. Mapping Table for IDU Variables

Command Type	IDU Address	Register Address	Variable Name	Data Length	Meaning
Holding register	IDU1	40012	Fan speed setting	2bytes	0: Auto, (DC unit, fan speed 7) Speed 1-7; (AC unit, fan speed 3) 9: Low speed, 10: Mid speed, 11: High speed (For initial single fan speed parameter control, the mode is cool and temperature is 25°C by default. Subsequently, other parameters such as mode and temperature will be implemented based on the last modbus control parameters.)
		40013	Set temperature/ cool temp_set	2bytes	Set temperature (non-auto mode), 17~30, or cool temperature (For initial single temperature control parameter, mode is set to cool and fan speed is low by default. Subsequently, other parameters such as mode and fan speed will be implemented based on the last modbus control parameters.)
		40014	Heat temp set	2bytes	Heating temperature is 17~30 in dual setting: 0 indicates that data is invalid.
		40015		2bytes	Reserved
		40016		2bytes	Reserved
		40017		2bytes	Reserved
...	...	...		...	...
Single holding register	IDUn	n*8+40002	On/Off	2bytes	0: Off, 1: On (default is cool when unit is powered on with low fan speed and temperature of 25°C; after that, the implementation state will be based on the last power-on control parameters implemented by the modbus).

# 1. Mapping Table for IDU Variables

Command Type	IDU Address	Register Address	Variable Name	Data Length	Meaning
Holding register	IDUn	n*8+40003	Mode settings	2bytes	1: Fan, 2: Cool, 3: Heat, 4: Auto, 5: Dry (For initial single mode control parameter, the fan speed is low and temperature is 25°C by default. Note: When only this parameter is controlled, other parameters such as fan speed and temperature will be implemented based on the last modbus control parameters.)
		n*8+40004	Fan speed setting	2bytes	0: Auto, (DC unit, fan speed 7) Speed 1-7; (AC unit, fan speed 3) 9: Low speed, 10: Mid speed, 11: High speed (For initial single fan speed parameter control, the mode is cool and temperature is 25°C by default. Subsequently, other parameters such as mode and temperature will be implemented based on the last modbus control parameters.)
		n*8+40005	Set temperature/cool temp_set	2bytes	Set temperature (non-auto mode), 17~30, or cool temperature (For initial single temperature control parameter, mode is set to cool and fan speed is low by default. Subsequently, other parameters such as mode and fan speed will be implemented based on the last modbus control parameters.)
		n*8+40006	Heat temp set	2bytes	Heat temperature is 17~30: 0 indicates that data is invalid.
		n*8+40007		2bytes	Reserved
		n*8+40008		2bytes	Reserved
		n*8+40009		2bytes	Reserved

# 1. Mapping Table for IDU Variables

Command Type	IDU Address	Register Address	Variable Name	Data Length	Meaning
Single holding register	IDU63	40506	On/Off	2bytes	0: Off, 1: On (default is cool when unit is powered on with low fan speed and temperature of 25°C; after that, the implementation state will be based on the last power-on control parameters implemented by the modbus).
Holding register		40507	Mode settings	2bytes	1: Fan, 2: Cool, 3: Heat, 4: Auto, 5: Dry (For initial single mode control parameter, the fan speed is low and temperature is 25°C by default. Note: When only this parameter is controlled, other parameters such as fan speed and temperature will be implemented based on the last modbus control parameters.)
		40508	Fan speed setting	2bytes	0: Auto, (DC unit, fan speed 7) Speed 1-7; (AC unit, fan speed 3) 9: Low speed, 10: Mid speed, 11: High speed (For initial single fan speed parameter control, the mode is cool and temperature is 25°C by default. Subsequently, other parameters such as mode and temperature will be implemented based on the last modbus control parameters.)
		40509	Set temperature/cool temp_set	2bytes	Set temperature (non-auto mode), 17~30, or cool temperature (For initial single temperature control parameter, mode is set to cool and fan speed is low by default. Subsequently, other parameters such as mode and fan speed will be implemented based on the last modbus control parameters.)
		40510	Heat temp set	2bytes	Heating temperature is 17~30 in dual setting: 0 indicates that data is invalid.
		40511		2bytes	Reserved
		40512		2bytes	Reserved
		40513		2bytes	Reserved

## 2. Mapping Table for ODU Variables

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### 2-1 Read Discrete Inputs

Command Type	ODU Address	Register Address	Data Length	Meaning
Read discrete inputs	ODU0	11001	1bit	0: Off, 1: On
		11002	1bit	0: No error, 1: Error
		11003	1bit	0: Offline, 1: Online
		11004	1bit	Reserved
		11005	1bit	Reserved
		11006	1bit	Reserved
		11007	1bit	Reserved
		11008	1bit	Reserved
Read discrete inputs	ODU1	11009	1bit	0: Off, 1: On
		11010	1bit	0: No error, 1: Error
		11011	1bit	0: Offline, 1: Online
		11012	1bit	Reserved
		11013	1bit	Reserved
		11014	1bit	Reserved
		11015	1bit	Reserved
		11016	1bit	Reserved
...	...	...		...

## 2. Mapping Table for ODU Variables

Command Type	ODU Address	Register Address	Data Length	Meaning
Read discrete inputs	ODUn	n*8+1001+10000	1bit	0: Off, 1: On
		n*8+1002+10000	1bit	0: No error, 1: Error
		n*8+1003+10000	1bit	0: Offline, 1: Online
		n*8+1004+10000	1bit	Reserved
		n*8+1005+10000	1bit	Reserved
		n*8+1006+10000	1bit	Reserved
		n*8+1007+10000	1bit	Reserved
		n*8+1008+10000	1bit	Reserved
Read discrete inputs	ODU3	11025	1bit	0: Off, 1: On
		11026	1bit	0: No error, 1: Error
		11027	1bit	0: Offline, 1: Online
		11028	1bit	Reserved
		11029	1bit	Reserved
		11030	1bit	Reserved
		11031	1bit	Reserved
		11032	1bit	Reserved



## 2. Mapping Table for ODU Variables

### 2-2 Read Input Registers

Command Type	ODU Address	Register Address	Data Length	Meaning
Read input registers	ODU0	32001	2bytes	Operation mode: 0 - Off, 1 - Cool, 2 - Heat, 3 - Forced cool
		32002	2bytes	Outdoor temperature (temperature range: -15°C ~ 80°C. Description: when value > 240, actual temperature +256)
		32003	2bytes	Number of IDUs that are ON (Note: Actual number of IDUs that require power)
		32004	2bytes	Error Code
		32005	2bytes	Reserved
		32006	2bytes	Reserved
		32007	2bytes	Reserved
		32008	2bytes	Reserved
		32009	2bytes	Reserved
		32010	2bytes	Reserved
Read input registers	ODU1	32011	2bytes	Operation mode: 0 - Off, 1 - Cool, 2 - Heat, 3 - Forced cool
		32012	2bytes	Outdoor temperature (temperature range: -15°C ~ 80°C. Description: when value > 240, actual temperature +256)
		32013	2bytes	Number of IDUs that are ON (Note: Actual number of IDUs that require power)
		32014	2bytes	Error Code
		32015	2bytes	Reserved
		32016	2bytes	Reserved
		32017	2bytes	Reserved
		32018	2bytes	Reserved
		32019	2bytes	Reserved
		32020	2bytes	Reserved
...		...		

## 2. Mapping Table for ODU Variables

Command Type	ODU Address	Register Address	Data Length	Meaning
Read input registers	ODUn	n*10+32001	2bytes	Operation mode: 0 - Off, 1 - Cool, 2 - Heat, 3 - Forced cool
		n*10+32002	2bytes	Outdoor temperature (temperature range: -15°C ~ 80°C. Description: when value > 240, actual temperature +256)
		n*10+32003	2bytes	Number of IDUs that are ON (Note: Actual number of IDUs that require power)
		n*10+32004	2bytes	Error Code
		n*10+32005	2bytes	Reserved
		n*10+32006	2bytes	Reserved
		n*10+32007	2bytes	Reserved
		n*10+32008	2bytes	Reserved
		n*10+32009	2bytes	Reserved
		n*10+320010	2bytes	Reserved
Read input registers	ODU3	32031	2bytes	Operation mode: 0 - Off, 1 - Cool, 2 - Heat, 3 - Forced cool
		32032	2bytes	Outdoor temperature (temperature range: -15°C ~ 80°C. Description: when value > 240, actual temperature +256)
		32033	2bytes	Number of IDUs that are ON (Note: Actual number of IDUs that require power)
		32034	2bytes	Error Code
		32035	2bytes	Reserved
		32036	2bytes	Reserved
		32037	2bytes	Reserved
		32038	2bytes	Reserved
		32039	2bytes	Reserved
		32040	2bytes	Reserved

### 3. Error Code Description

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Error Code	Content
0	No error
1~20	A0~AF, AH, AL, AP, AU
21~40	b0~bF, bH, bL, bP, bU
41~60	C0~CF, CH, CL, CP, CU
61~80	E0~EF, EH, EL, EP, EU
81~100	F0~FF, FH, FL, FP, FU
101~120	H0~HF, HH, HL, HP, HU
121~140	L0~LF, LH, LL, LP, LU
141~160	J0~JF, JH, JL, JP, JU
161~180	n0~nF, nH, nL, nP, nU
181~200	P0~PF, PH, PL, PP, PU
201~220	r0~rF, rH, rL, rP, rU
221~240	t0~tF, tH, tL, tP, tU
241~260	U0~UF, UH, UL, UP, UU
Reserved	

Notes:

- 1) A0~AF refers to A0, A1, A2, A3, A4, A5, A6, A7, A8, A9, AA, AB, AC, AD, AE, AF, and so on.
- 2) For some models, the errors displayed may not be actual errors. In this case, refer to actual errors of the unit.  
The specific meaning of the error code is based on the interpretation of the service manual.

# NOTE CONCERNING PROTECTION OF ENVIRONMENT

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This product must not be disposed of via normal household waste after its service life, but must be taken to a collection station for the recycling of electrical and electronic devices. The symbol on the product, the operating instructions or the packaging indicate such disposal procedures. The materials are recyclable in accordance with their respective symbols. By means of re-use, material recycling or any other form of recycling old appliances you are making an important contribution to the protection of our environment. Please ask your local council where your nearest disposal station is located.

## PRODUCER

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