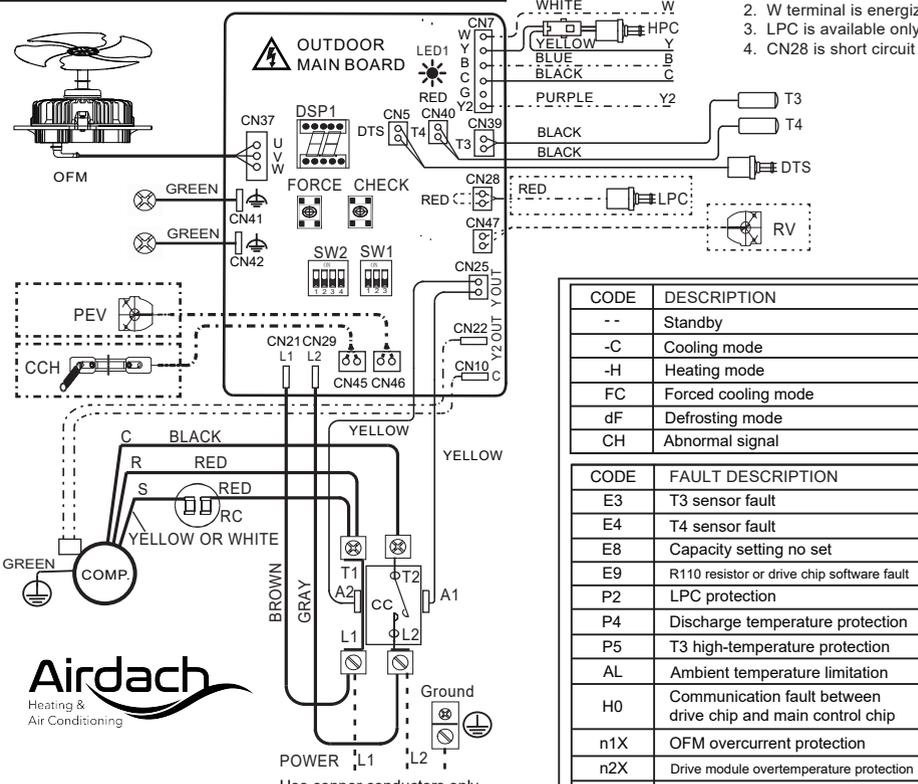**WARNING: ELECTRIFICATION ON THE OUTDOOR MAIN BOARD, DO NOT TOUCH WHEN POWER IS ON.**

To indoor unit

Note:
1. B terminal is connected and energized for heating operation.
2. W terminal is energized in defrosting operation.
3. LPC is available only for heat pump model.
4. CN28 is short circuit for cooling only model.

OUTDOOR MAIN BOARD

WHITE — W
YELLOW — Y
BLUE — B
BLACK — C
PURPLE — Y2
BLACK — T3
BLACK — T4

LED1
DSP1
FORCE CHECK
SW2 SW1
OFM
GREEN CN41
GREEN CN42
PEV
CCH
CN37 U V W

HPC
T3
T4
DTS
LPC
RV

C BLACK
R RED
S RED
RC
YELLOW OR WHITE
GREEN
COMP.
BROWN GRAY
YELLOW
T1 T2
A2 A1
CC
L1 L2
Ground
POWER L1 L2
Use copper conductors only

Airdach
Heating & Air Conditioning

CODE	DESCRIPTION
CC	Compressor Contactor
COMP.	Compressor
CCH	Crankcase Heater
PEV	Pressure Equalizer Valve
T4	Ambient Temperature Sensor
T3	Pipe Temperature Sensor
HPC	High Pressure Cut-out Control
LPC	Low Pressure Cut-out Control
DTS	Discharge Temperature Switch
OFM	Outdoor Fan Motor
RC	Run Capacitor
RV	Reversing Valve

CODE	DESCRIPTION
--	Standby
-C	Cooling mode
-H	Heating mode
FC	Forced cooling mode
dF	Defrosting mode
CH	Abnormal signal

CODE	FAULT DESCRIPTION
E3	T3 sensor fault
E4	T4 sensor fault
E8	Capacity setting no set
E9	R110 resistor or drive chip software fault
P2	LPC protection
P4	Discharge temperature protection
P5	T3 high-temperature protection
AL	Ambient temperature limitation
H0	Communication fault between drive chip and main control chip
n1X	OFM overcurrent protection
n2X	Drive module overtemperature protection
n3X	DC bus voltage fault
n4X	IPM Fault
n5X	OFM startup fault
n6X	Phase loss protection
n serial faults, alternately display n and xx	

NUMBER	POINT CHECK CONTENT
1	Unit capacity
2	Operation mode
3	Current fan speed(Actual speed divided by 10, for example, 560R is represented by '56.', 1050R is represented by 'A5.', hexadecimal number A represents 10.)
4	Target fan speed(Actual speed divided by 10, for example, 560R is represented by '56.', 1050R is represented by 'A5.', hexadecimal number A represents 10.)
5	T3 temperature(°F)(if the value is less than 100, the actual value is displayed. if over 100, divided by 10, 135 is represented by '13.', if it is negative, '1.0' means -10, '.5' means -5)
6	T4 temperature(°F)(if the value is less than 100, the actual value is displayed. if over 100, divided by 10, 135 is represented by '13.', if it is negative, '1.0' means -10, '.5' means -5)
7	Compressor running time(day) (if the value is less than 100, the actual number of days is displayed. if over 100 and less than 1000, 360 days are represented by '36.', if over 1000, 3600 days are represented by '3.6.')
8	Main control chip software version
9	Drive chip software version
10	Y1 signal state(1=ON, 0=OFF)
11	B signal state(1=ON, 0=OFF)
12	W signal state(1=ON, 0=OFF)
13	Y2 signal state(1=ON, 0=OFF)
14	RV condition (1=ON, 0=OFF)
15	High wind pattern (1=ON, 0=OFF)
16	Last fault code
17	Last second fault code
18	Last third fault code
19	--

CAPACITY SETTING	MODEL	18K 1.5TON	24K 2TON	30K 2.5TON	36K 3TON	42K 3.5TON	48K 4TON	60K 5TON	61K 5TON
SW2	15.2AC FIN	010,0	001,0	010,1	010,1	011,1	100,1	100,1	100,1
	13.4/15.2AC MCHE	010,0	001,0	010,1	010,1	011,1	100,1	100,1	/
	15.2HP	011,0	001,0	001,0	010,1	011,1	100,1	100,1	100,1

0/1 Definition of dial code switch

	means 0=OFF
	means 1=ON

* The factory default

SW2 - 4 definition

	100W Fan motor
	200W Fan motor

MODEL	DESCRIPTION
15.2AC FIN	15.2 SEER2 Fin type heat exchanger cooling only system
13.4/15.2AC MCHE	13.4/15.2 SEER2 Micro-channel heat exchanger cooling only system
15.2HP	15.2 SEER2 heat exchanger heat pump system

Force	Press 1 s	Forced cooling mode
	Press 6s	Forced defrosting mode
Check	Press 1 s	Check the system paramters

WARNING!
CABINET MUST BE PERMANENTLY GROUNDED CONFORM, AND ALL WIRING CONFORM TO UL60335. REPLACEMENT WIRES MUST BE THE SAME GAUGE AND INSULATION TYPE AS ORIGINAL WIRES.

SW1	SW1-1	ON	Reserved	
		OFF	Reserved	*
	SW1-2	ON	Reserved	
		OFF	Reserved	*
	SW1-3	ON	Defrosting cycle:30min	
		OFF	Defrosting cycle:60min	*

High voltage line
- Factory standard
- Field installed
- Factory optional
Low voltage line
- Factory standard
- Factory optional

Factory code	Date	Revision
16023000014756	Jul. 16th, 2024	G

THE WIRING DIAGRAM SHOWN IS FOR REFERENCE ONLY.IT MAYBE DIFFERENT FROM THE ACTUAL PRODUCT.

缩写参考表

类别	中文名称	英文名称	缩写规范	举例
温度传感器	温度传感器	Temperature sensor	Tx(x为后缀)	室温T1、管温T3
温度传感器	排气温度传感器	Discharge temperature sensor	TPx	TP1
温度传感器	模块温度传感器	Inverter module temperature sensor	TFx	散热器传感器TF1
温度传感器	水温传感器	Water temperature sensor	TWx	总出水TW，进水TWi，出水TWo
温度传感器	温湿度传感器	Temperature/Humidity sensor	T&Hx	T&H
压力传感器	压差传感器(气或液)	Differential pressure sensor	DP-YLx	DP-YL1 冷媒压差传感器
压力传感器	水压传感器	Water pressure sensor	WP-YLx	WP-YL1
压力传感器	高压传感器	High pressure sensor	H-YLx	H-YL1
压力传感器	低压传感器	Low pressure sensor	L-YLx	L-YL1
电流传感器	电流互感器	Current transformer	CTx	CT1
电机	风机	Fan motor	FANx	FANA或FAN_UP
电机	压缩机	Compressor	COMPx	COMP1或COMP_LEFT
电机	电子膨胀阀	Electronic expansion valve	EEVx	EEV1
电机	摇摆电机	Swing motor	GMx	GM1
电机	水阀	Water valve	WVx	WV1 0-10V阀体，WV2 弱电线圈类
电机	水泵	Water pump	PUMPx	普通水泵PUMP，循环水泵PUMP_CYC，末端水泵PUMP_COLD
电加热	电辅热	Electric heater	HEATx	内机HEATx，外机水箱电加热HEAT_Wx，防冻加热器HEAT_Fx 底盘电加热HEAT_Px，曲轴箱电加热HEAT_Cx
阀体	电磁阀	Solenoid valve	SVx	SV1，水阀SV_Wx
阀体	四通阀	Four-way valve	STx	ST1
安全类开关	高压开关	High pressure switch	H-PROx	H-PRO1
安全类开关	低压开关	Low pressure switch	L-PROx	L-PRO1
安全类开关	高水压开关	High water pressure switch	HW-PROx	HW-PRO1
安全类开关	低水压开关	Low water pressure switch	LW-PROx	LW-PRO1
安全类开关	温度开关	Temperature switch	T-PROx	T-PRO1
安全类开关	排气温控器	Discharge thermostat	TP_PROx	TP_PRO1
安全类开关	压缩机保护开关	Compressor protection switch	C-PROx	C-PRO1
安全类开关	风机保护开关	Fan motor protection switch	F-PROx	F-PRO1
功能类开关	水位开关	Water level switch	CS-SW	CS-SW
功能类开关	水压差开关	Differential water pressure switch	WP-SW	WP-SW
功能类开关	防溢流开关	Anti-overflow switch	OV-SW	OV-SW
功能类开关	水流开关	Water flow switch	FS-SW	FS-SW
功能类开关	气压差开关	Differential pressure switch	PSF	PSF
元器件	自动转换开关	Automatic transfer switch	ATSx	ATS1
元器件	隔离开关	Isolating switch	QSx	QS1
元器件	风机电容	Capacitor	CAPx	CAP1
元器件	继电器	Relay	RYx	RY1
元器件	接触器	Contactor	KMx	KM1
元器件	变压器	Transformer	TRx	TR1
元器件	接线座	Terminal block	XTx	XT1
元器件	电抗器	Reactor	RAx	RA1
元器件	指示灯	Indicator light	HLx	HL1
元器件	保险管	Fuse	FUx	FU1
元器件	微型断路器	Breaker	QFx	QF1
元器件	电源模块	Power module	PSUx	PSU1
元器件	变频器	Inverter	VFDx	VFD1
元器件	电表	Energy meter	PJ	PJ
外接	报警输出	Alarm output	ALARM	ALARM
外接	远程开关	Remote on/off	ON/OFF	ON/OFF
外接	远程模式开关	Remote mode selection	COOL/HEAT	COOL/HEAT
外接	Smart Grid开关	EVU Port for smart grid (photovoltaic signal) SG Port for smart grid (grid signal)	SG/EUV	SG/EUV
外接	管道电加热器(水管)	Electric heating (water pipe)	IBHx	IBH1
外接	水箱电加热器(水箱)	Electric heating (water tank)	TBHx	TBH1