



Schema elettrico – Wiring diagram

WD-16025300005435

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Schema elettrico (wiring diagram)

Tabella revisioni (Table revisions)

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Simbologie di riferimento

Symbols reference

EN 617-2



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Descrizione/Description:

WiSAN-YME 1 S

Grandezza/Size

2.1 - 3.1- 4.1 - 5.1

Tensione/Supply

220-240V ~ 50Hz

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Disegnato/Drawn by:
De Col Luciano

Approvato/Chkd-Appd:
Andrea Marchetti

Data: 06/07/2021

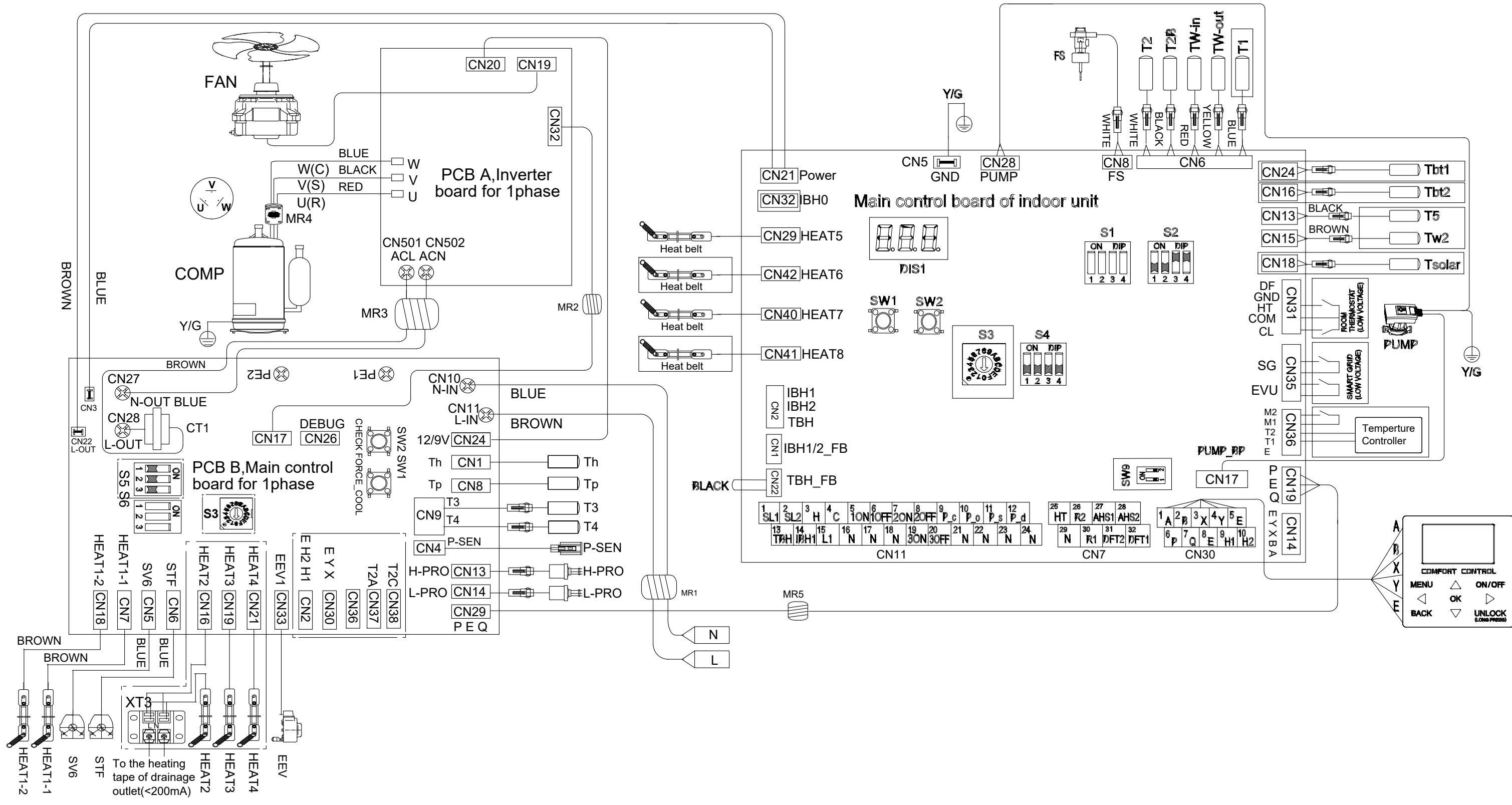
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Factory code	Date	Revision
16025300005435	2020.08.31	F

The wiring picture shown is for reference only, actual product may vary.



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Figure1: 9KW IBH(Three step control)

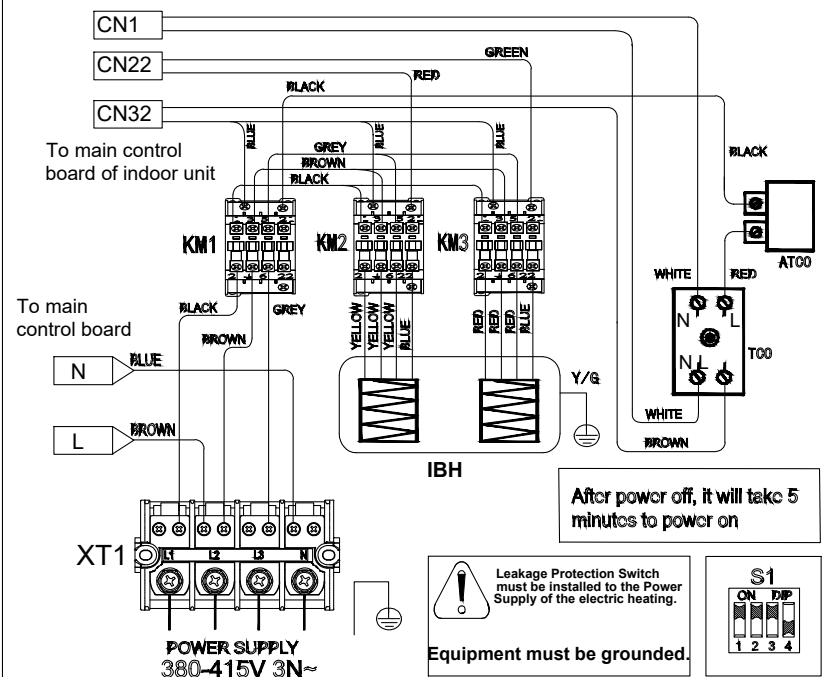
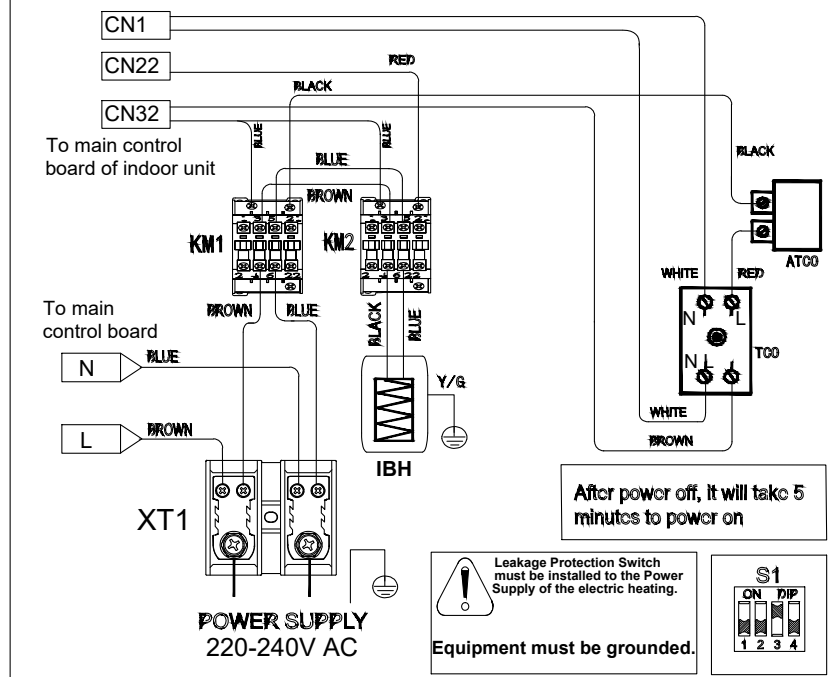


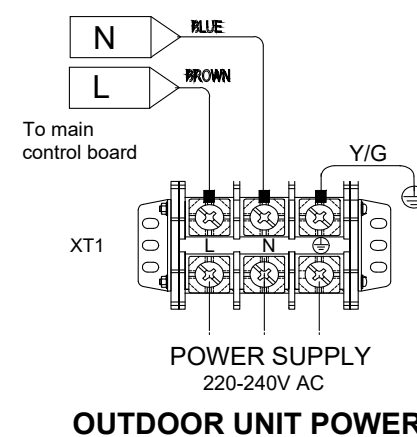
Figure2: 3KW IBH(One step control)



NOTE:

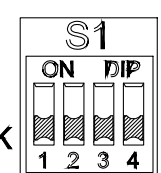
1. Equipment must be grounded.
2. All high-voltage external load, if it is metal or a grounded port, must be grounded.
3. All external load current is needed less than 0.2A, if the single load current is greater than 0.2A, the load must be controlled through AC contactor.
4. AHS1 "AHS2", "A1" "A2", "R1" "R2" and "DFT1" "DFT2" wiring terminal ports provide only the switch signal.

Figure3: No IBH



To main control board of indoor unit

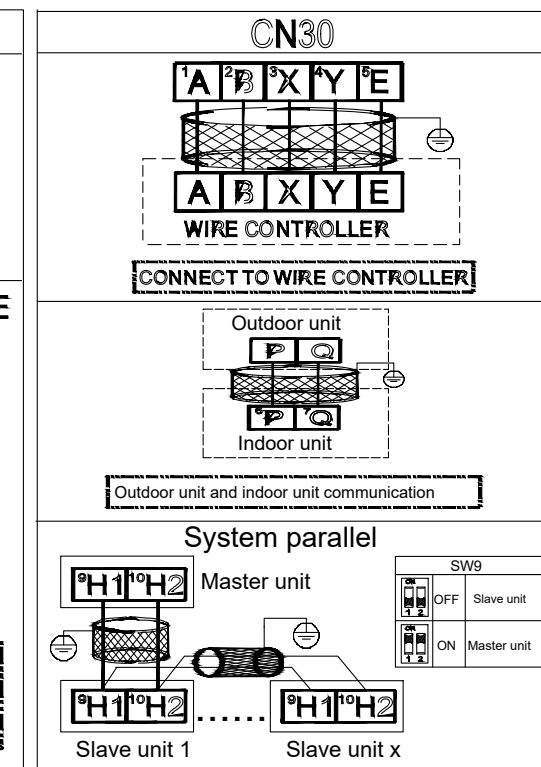
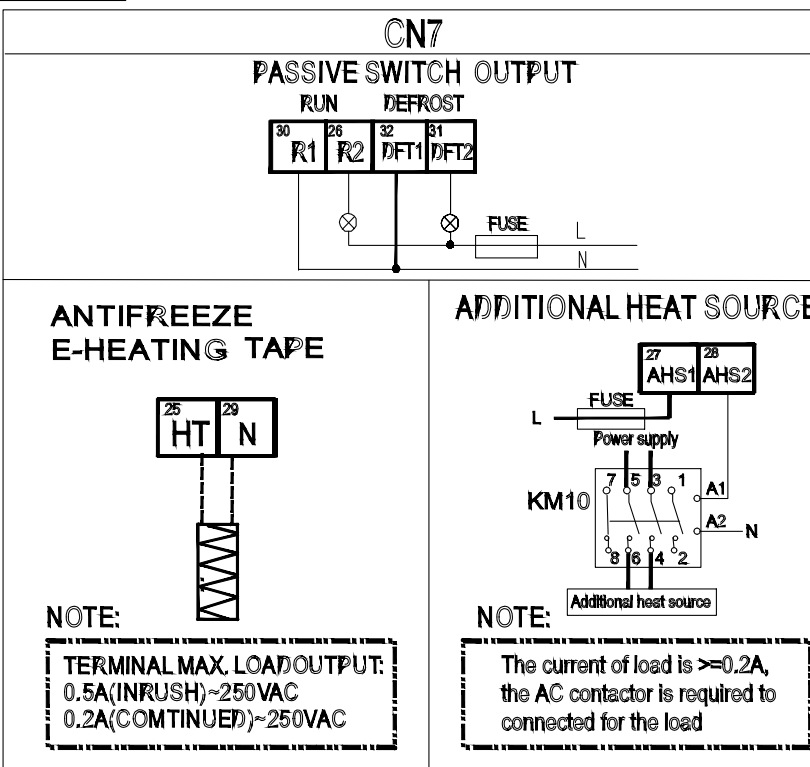
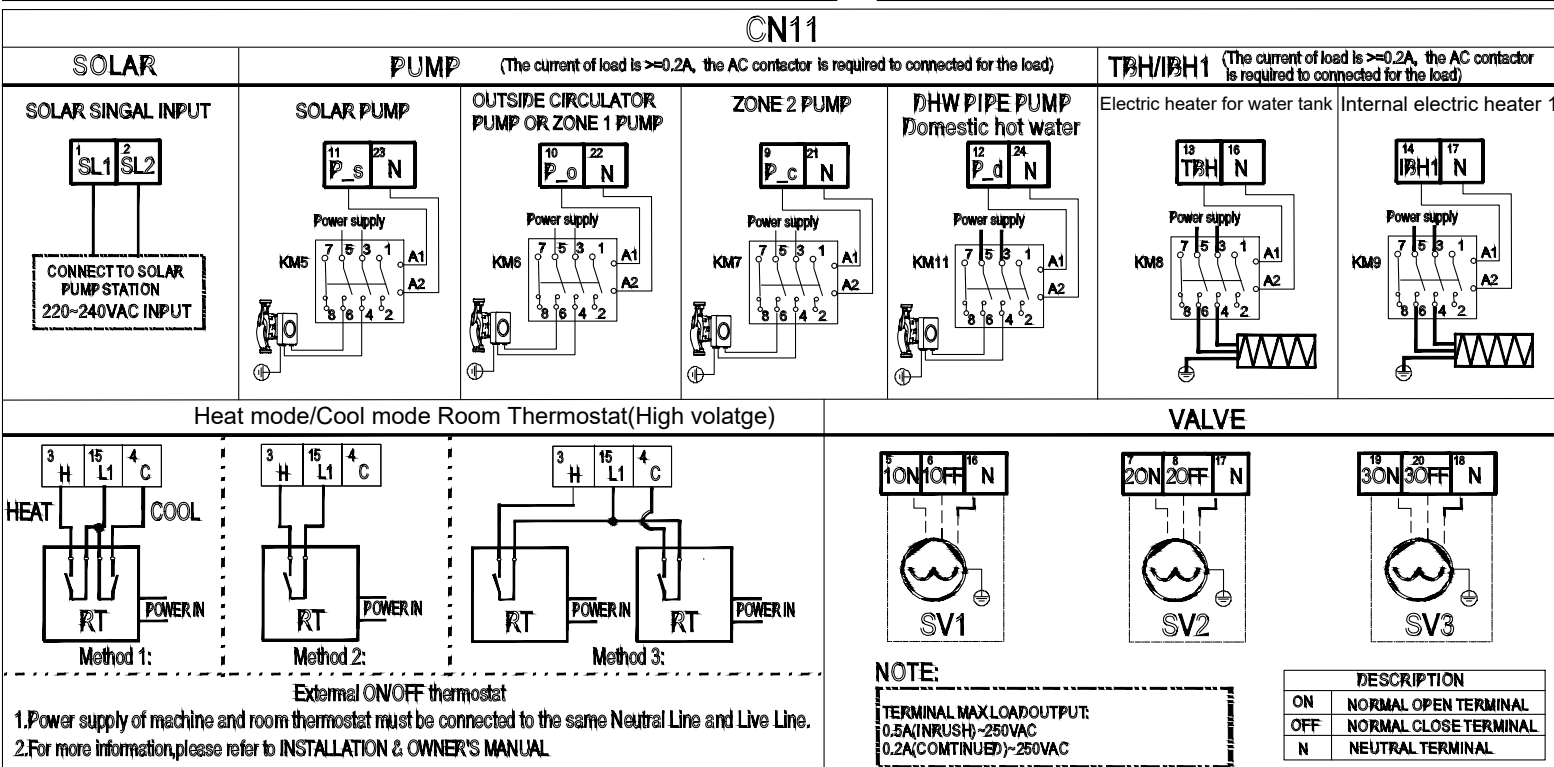
CN1 BLACK



After power off, it will take 5 minutes to power on

Leakage Protection Switch must be installed to the Power Supply of the electric heating.

Equipment must be grounded.



Operate the switches and push buttons with an insulated stick (such as a closed ball-point pen) to avoid touching of live parts.

Querying external parameters and setting menu parameters are only allowed on the wire controller.

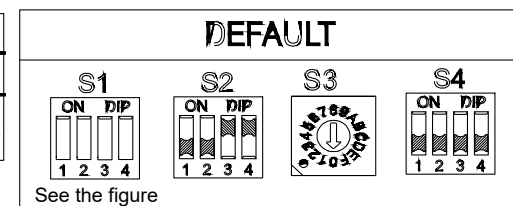
FACTORY SETTING	S6-1	S6-2	S6-3
4KW	0	0	0
6KW	1	0	0
8KW	0	1	0
10KW	1	1	0

Temp. Sensor code	Property values
T3/T4/Th	B25/50=4100K, R25° =10kΩ
Tp	B25/50=3950K, R90° =5kΩ

Display	Fault or protection
C7	Transducer module (IPM) temperature too high protection
E5	Condenser temp.sensor (T3) fault
E6	Outdoor ambient temp.sensor (T4) fault
E9	Suction temp.sensor (T6/Th) fault
EA	Compressor discharge temp.sensor (T5/Tp) fault
F1	DC bus voltage is too low protection
H0	Communication fault between indoor unit and outdoor unit
H1	Communication fault between inverter board and main control board in outdoor unit
H4	Three times P6(L0/L1) protection in 60 minutes
H6	DC fan motor fault
H7	Voltage protection
H8	Pressure sensor fault
HF	EEPROM fault
HH	10 times H6 in 120 minutes
HP 3	times low pressure protection in 1 hour in cooling mode
P0	Heat pump system low pressure protection
P1	Heat pump system high pressure protection
P3	Compressor current protection
P4	Compressor discharge temperature too high protection
Pd	Exchanger temperature (T3) too high protection
L0	Module protection
L1	DC generatrix low voltage protection
L2	DC generatrix high voltage protection
L4	MCE malfunction
L5	Zero speed protection
L8	Speed difference >15Hz protection between the front and the back clock
L9	Speed difference >15Hz protection between the real and the setting speed

Temp.sensor code	Property values
T2/T2B	B25/50=4100K, R25°C=10kΩ
T1/TW_out TW_in/T5/Tw2	B _{0/100} =3970K, R _{50°C} =17.6kΩ

DIP switch	ON=1	OFF=0	Factory default
S1	0/0=IBH(One-step control) 0/1=IBH(Two-step control) 1/1=IBH(Three-step control)		See the figure
	0/0=Without IBH and AHS 0/1=With AHS for heat mode 1/0=With IBH 1/1=With AHS for heat mode and DHW mode		
	1 Start pumpo after six hours will be invalid 2 Without T _{BH} 3/4 0/0=pump 1 0/1=pump 2 1/0=pump 3 1/1=pump 4	Start pumpo after six hours will be valid With T _{BH}	
S2	1 Master unit: clear addresses of all slave units Slave unit: clear its own address	Keep the current address	OFF
	2 Reserved	Reserved	OFF
	3/4 Reserved	Reserved	OFF/OFF



CN35--SMART GRID		
Operating behavior	EVU	SG
Increased operation output	ON	ON
Normal operation	OFF	ON
Decreased operation output	OFF	OFF

AHS	Additional heat source
DHW	Domestic hot water
EVU	Commercial power
FS	Flow switch
HT/CL	Heat mode/Cool mode(thermostat)
KM5-KM11	AC Contactor
M1/M2	Remote switch
PUMP	Variable speed pump
P_c	Zone 2 pump(field supply)
P_d	DHW pipe pump (field supply)
P_o	Outside circulator pump (field supply) or Zone 1 pump (field supply)
P_s	Solar pump
SG	Solar energy
SV1-3	Motorized 3-way valve (field supply)
T2, T2B, TW-in, TW-out, T1, Tbt1, Tbt2, T5, Tw2, Tsolar	Temperature sensor

CODE	Part name
4-WAY	4-WAY valve
COMP.	Compressor
CT1	AC current detector
EEV	Electric expensive valve
FAN	Outdoor fan motor
HEAT1-1	Comp. electrical heating tape1
HEAT1-2	Comp. electrical heating tape2
HEAT2	Chassis electrical heating tape
H-PRO	High pressure switch
L-PRO	Low pressure switch
MR1-MR5	Magnetic ring
P-SEN.	Pressure sensor
T3	Condenser temp.sensor
T4	Outdoor ambient temp.sensor
TF	Radiator temp.sensor
Th	Suction temp.sensor
Tp	COMP. discharge temp.sensor
XT1,3	Terminal blocks

THE FAULT OR PROTECTION TABLE

Display	Fault or Protection
E0	Water flow fault(after 3 times E8)
E2	Communication fault between controller and indoor unit
E3	Final outlet water temp.sensor(T1) fault
E4	Water tank temp.sensor(T5) fault
E7	Balanced water tank of up balanced temp.sensor(Tbt1) fault
E8	Water flow fault
Eb	Solar panel temp.sensor(Tsolar) fault
Ec	Balanced water tank of down balanced temp.sensor(Tbt2) fault
Ed	Inlet water temp.sensor(Tw_in) fault
EE	Indoor unit EEPROM fault
H0	Communication fault between indoor unit and outdoor unit
H2	Refrigerant liquid temp.sensor(T2) fault
H3	Refrigerant gas temp.sensor(T2B) fault
H5	Temp.sensor(Ta) fault
H9	Outlet water for zone 2 temp.sensor (Tw2) fault
HA	Outlet water temp.sensor(Tw_out) fault
Hb	Three times "PP" protection and Tw_out < 7°C
Hd	Communication fault between indoor unit parallel
HE	Communication fault between indoor unit and temperature board
P5	Tw_out - Tw_in value too big protection
Pb	Anti-freeze mode
PP	Tw_out - Tw_in unusual protection

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REV NR	DATA	Autore	DESCRIZIONE MODIFICHE APPORTATE RISPETTO ALLA PRECEDENTE REVISIONE	Pagine Modificate
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