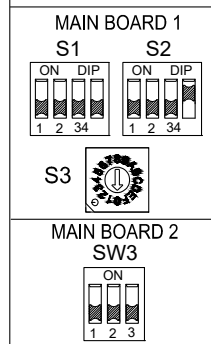


- NOTE:**
- 1.Equipment must be grounded.
 - 2.All high-voltage external load, if it is metal or a grounded port, must be grounded.
 - 3.All external load current is needed less than 0.2A, if the single load current is greater than 0.2A, the load must be controlled through AC contactor.
 - 4.AHS1" "AHS2", "A1" "A2", "R1" "R1" and "DTF1" "DTF2" wiring terminal ports provide only the switch signal.
 - 5.Expansion valve E-Heating tape,Plate heat exchanger E-Heating tape and Flow switch E-Heating tape share a control port.
 - 6.WIRING: transfer board/13 to 40 connection priority

POWER SUPPLY

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

FACTORY SETTING



CN35-SMART GRID

Operating behavior	EVU	SG
Increased operation output	ON	ON
Normal operation	ON	OFF
Decreased operation output	OFF	ON

DIP switch	ON=1	OFF=0	Factory defaults
1	Reserved	Reserved	OFF
2	With solar energy	Without solar energy	OFF
3/4	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		3:OFF 4:OFF
1	Start outside circulator pump after six hours will be invalid	Start outside circulator pump after six hours will be valid	OFF
2	Without TBH	With TBH	OFF
3/4	0/0=variable speed pump(Max head:8.5m) 0/1=constant speed pump 1/0=variable speed pump(reserved) 1/1=variable speed pump(Max head:9m)		3:OFF 4:ON

Display	Fault or Protection(MAIN BOARD 1)
E0	Water flow fault(after 3 times E8)
E2	Communication fault between controller and indoor unit
H0	Communication fault between indoor unit and outdoor unit
E3	Final outlet water temp.sensor(T1) fault
E4	Water tank temp.sensor(T5) fault
E8	Water flow fault
Ed	Inlet water temp.sensor(Tw_in) fault
EE	Indoor unit EEPROM fault
H2	Refrigerant liquid temp.sensor(T2) fault
H3	Refrigerant gas temp.sensor(T2B) fault
HA	Outlet water temp.sensor(Tw_out) fault
Hb	Three times "PP" protection and Tw_out < 7 °C
H5	Room temp.sensor(Ta) fault
H9	Outlet water for zone 2 temp. sensor (T1B) fault
Pb	Anti-freeze mode
P5	[Tw_out - Tw_in] value too big protection
pp	Tw_out - Tw_in unusual protection

Display	Fault or protection(MAIN BOARD 2)
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
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 protection in 60 minutes
H6	DC dan 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
P6	Transducer module (IPM) protection
Pd	Exchanger temperature (T3) too high protection
F1	DC bus voltage is too low protection

L0	Module protection
L1	DC generatrix low voltage protection
L2	DC generatrix high voltage protection
L4	MCE malfunction
L5	Zero speed protection
L7	Phase sequence 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

THE CHECK TABLE(MAIN BOARD 1)	
Sequence	Content
0	Normal display(OFF display 0 ON display 11) (Show Tw_out when T1 invalid and including T1 is not set or T1 fault)
1	Mode(0/Off,2/Cool,3/Heat,5/Heat water)
2	Capacity requirements
3	Capacity requirements(Correct)
4	T1: final outlet water temperature
5	T1B: outlet water temperature of Zone2
6	T1S:setting outlet water temperature or zone 1 outlet water temperature
7	T1S2:setting outlet water temperature for Zone 2
8	Ta:room temperature
9	T5: tank water temperature
10	T2:refrigerant liquid temperature
11	T2B:refrigerant gas temperature
12	Tw_out: outlet water temperature of plate heat exchanger
13	Tw_in:inlet water temperature of plate heat exchanger
14	T4:ambient temperature of outdoor
15	Current(Reserved)
16	Current(Reserved)
17	Last failure
18	Last second failure
19	Last third failure
20	Software version
21	--

THE CHECK TABLE(MAIN BOARD 2)	
Sequence	Content
0	Normal display (OFF display 0, ON display frequency)
1	Mode (0/Off,2/Cool,3/Heat,4/Force Cool)
2	Fan Speed
3	Capacity requirements
4	Capacity requirements(Correct)
5	Frequency limit code
6	T3:condenser temperature
7	T4:outdoor ambient temperature
8	Tp:COMP. discharge temperature
9	Th:evaporator input temperature
10	Tf:radiator temperature
11	Electric Expansive Valve
12	Actual current
13	Compressor current
14	Voltage AC
15	Voltage DC
16	H_SEN:high pressure
17	software version
18	Last fault
19	--

CODE	Part name
AHS	Additional heat source
4-WAY	4-WAY valve
COMP.	Compressor
CT1	AC current detector
DHW	Domestic hot water
EEV	Electric expansive valve
EVU/SG	Commercial power/Solar energ
FAN	Outdoor fan motor
HEAT	Flow switch/Plate heat exchanger/Expansion valve electrical heating tape
HEAT1/2	Comp. electrical heating tape1/2
HEAT3	Chassis electrical heating tape
HT/CL	Heat mode/Cool mode(thermostat)
H-PROL-PRO	High pressure switch/Low pressure switch
H-SEN	Pressure sensor
KM	AC Contactor
MR1-MR5	Magnetic ring
PUMP_i/P_c /P_d/P_s/P_o	Pump
SV1/SV2/SV3	Value(field supply)
RTR	Room thermostat
XT1/XT6-9	Terminal blocks

Temp.sensor code	Property values
T2/T2B	B _{25,0} =4100K , R _{25,0} =10k Ω
T1/T1B/T5	B _{0/100} =3970K , R _{0/100} =17.6k Ω
Tw_in/TW_out	B _{25,0} =4100K , R _{25,0} =10k Ω
T3/T4/Th	B _{25,0} =4100K , R _{25,0} =10k Ω
TP	B _{25,0} =3950K , R _{25,0} =5k Ω



Clivet: Via camp Lonc, 25 Villapaiera 32032 Feltre (BL) Italy Web: www.clivet.com
 Email: info@clivet.it Tel.: +39 0439 3131 - Fax : +39 0439 313300

Serie/Series:

WSAN-YMi

Schema/Wiring Diagram:

WD-16025300004915

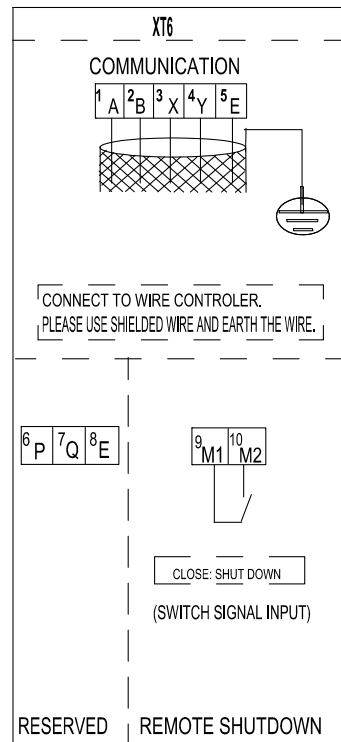
Grandezza/Size:

21 - 31 - 41

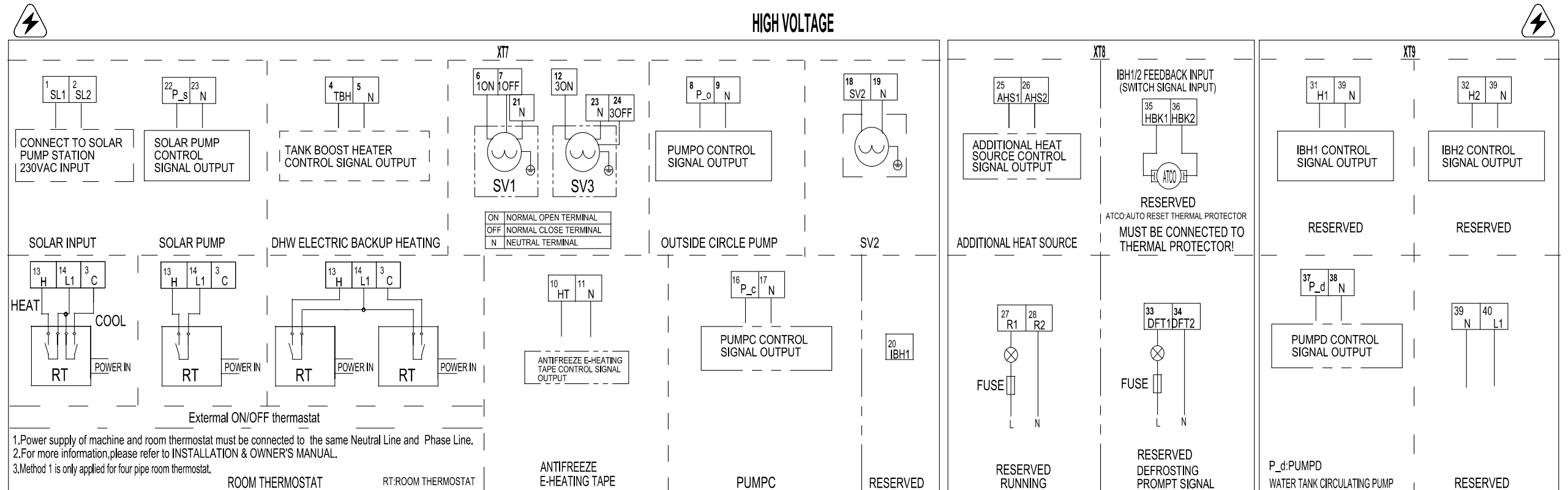
Tensione/Supply:

220-240V ~ 50Hz

LOW VOLTAGE



HIGH VOLTAGE



Clivet: Via camp Lonc, 25 Villapaiera 32032 Feltre (BL) Italy Web: www.clivet.com
Email: info@clivet.it Tel.: +39 0439 3131 - Fax: +39 0439 313300

Serie/Series:

WSAN-YMi

Schema/Wiring Diagram:

WD-16025300004915

Grandezza/Size:

21 - 31 - 41

Tensione/Supply:

220-240V ~ 50Hz