



Please complete and return this commissioning form within 14 days of commissioning.

The commissioning form should be returned along with the following documentation to info@ultimaterenewables.com

- Photo image of the installed heat pump and local area (1m around the unit)
- Wiring schematic as installed
- Pipe work schematic as installed

Section 1. Pre-commissioning
 (Air cooled heat pump mono-block products)

Installer’s details name and address:	Site address:
Installers contact details, telephone No: and email:	
Date equipment was installed.	Date equipment was commissioned.
Equipment details:	
Model WISAN-YME	Refrigerant type and quantity
Size? 2.1 3.1. 4.1. 5.1. 6.1. 7.1. 8.1	
Serial No	
(See data plate label or white bar code label)	
Ancillaries	
Pre-operational checks	Additional notes:
Damage to equipment/ refrigerant leakage?	
Location - suitable space around the unit	
Clearance to rear - M	
Clearance to front - M	
Clearance to left - M	
Clearance to right - M	
Distance to other buildings/windows M	
Ambient sensor (subject to sun/wind?) Yes/No	



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Unit correctly mounted, AV mounts?	Yes/No	
Condensate drain suitable?	Yes/No	
Electrical power to unit		
Site voltage at unit	V	
Isolation	Yes/No	
Protection	Yes/No	
Cables	Yes/No	
Water side installation		
Water strainer installed	Yes/No	
Low loss header installed	Yes/No	
Buffer tank volume (> than min water vol)	lt	
Water flow measurement device?	Yes/No	
Water flow rate	l/s	
Isolation valves on flow/return	Yes/No	
Flexible connections on flow/return	Yes/No	
Expansion vessel sized for system	lt	
Water quality checked (inhibitors/Glycol?)	%	
Pipework insulated/protected for low ambient Yes/No		
Air purged from system Yes/No		
DHW T5 sensor fitted and secured	Yes/No	
T1 sensor fitted after IBH/AHS (option)	Yes/No	
System Installation completed	Yes/No	
DHW valve wired (DHW/heating)	Yes/No	
Wall controller fitted and wired	Yes/No	
Thermostats fitted and wired (option) Mode change / one zone / 2 Zone.	Yes/No	
Remote on/off	Yes/No	
AHS Additional heat source (dip switch)	Yes/No	
TBH DHW heater (dip switch)	Yes/No	
Pd Pump	Yes/No	
IBH Back up heater	Yes/No	
Mixing valve + PC +P_C	Yes/No	
Ensure power connected 24 your prior commissioning (crank case heaters on)	Yes/No	

Section 2. Commissioning

(Air cooled heat pump mono-block products)

Please record all parameter changes made during the commissioning.

It is mandatory to check/correct those in highlighted yellow. Enabling functions may open up associated parameter menus or disable menus.

DHW mode settings		Default	Commissioned
1.1 DHW MODE	Enable or disable the DHW mode NO/YES	YES	
1.2 DISINFECT	Enable or disable the disinfect mode NO/YES	YES	
1.3 DHW PRIORITY	Enable or disable the DHW priority mode NO/YES	YES	
1.4 DHW PUMP	Enable or disable the DHW pump mode NO/YES	NO	
1.5 DHW PRIORITY TIME SET	Enable or disable the DHW priority time set NO/YES	NO	
1.6 dT5_ON	The temperature difference for starting the heat pump	10 °C	
1.7 dT1S5	The correct value to adjust the output of the compressor	10 °C	
1.8 T4DHWMAX	The maximum ambient temperature that the heat pump can operate at for domestic water heating	43 °C	
1.9 T4DHWMIN	The minimum ambient temperature that the heat pump can operate for domestic water heating	-10 °C	
1.10 t_INTERVAL_DHW	the start time interval of the compressor in DHW mode	5 MIN	
1.11 dT5_TBH_OFF	the temperature difference between T5 and T5S that turns the booster heater off	5 °C	
1.12 T4_TBH_ON	the highest outdoor temperature the TBH can operate	5 °C	
1.13 t_TBH_DELAY	the time that the compressor has run before starting the boost heater	30 Min	
1.14 T5S_DI	the target temperature of water in the domestic hot water tank in the Disinfect function	65 °C	
1.15 t_DI_HIGHTEMP	the time that the highest temperature of water in the domestic hot water tank in the DISINFECT function will last	15 MIN	
1.16 t_DI_MAX	the maximum time that disinfection will last	210 MIN	
1.17 t_DHWHP_RESTRICT	the operation time for the space heating/cooling operation	30 MIN	
1.18 t_DHWHP_MAX	the maximum continuous working period of the heat pump in DWH priority mode	90 MIN	
1.20 PUMP RUNNING TIME	the time that the DHW pump will keep running for	5 MIN	
1.19 DHW PUMP TIME RUN	Enable or disable the DHW pump run as timed and keeps running for pump run time NO/YES	YES	

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1.21 DHW PUMP DISINFECT	Enable or disable the DHW pump operate when the unit is in disinfect mode and T5≥T5S_DI-2 NO/YES	YES	
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Cooling Mode Settings		Default	Commissioned
2.1 COOL MODE	Enable or disable the cooling mode NO/YES	YES	NO

Heating Mode Settings		Default	Commissioned
3.1 HEAT MODE	Enable or disable the heating mode	YES	
3.2 t_T4_FRESH_H	Refresh time of climate related curves for heating mode	0.5 hours	
3.3 T4HMAX	Max ambient operating temperature for heating mode	25 °C	
3.4 T4HMIN	Min ambient operating temperature for heating mode	-15 °C	
3.5 dT1SH	The temperature difference for starting the unit (T1)	5 °C	
3.6 dTSH	The temperature difference for starting the unit (Ta)	2 °C	
3.7 t_INTERVAL_H	The compressor start time interval	5 MIN	
3.8 T1SETH1	Temperature 1 of climate related curves for heat mode	35 °C	
3.9 T1SETH2	Temperature 2 of climate related curves for heat mode	28 °C	
3.10 T4H1	Temperature 1 of climate related curves for heat mode	-5 °C	
3.11 T4H2	Temperature 2 of climate related curves for heat mode	7 °C	
3.12 ZONE1 H-EMISSION	The type of zone 1 for heating mode : FCU(fan coil unit), RAD (radiator), FLH (floor heating)	1	
3.13 ZONE2 H-EMISSION	The type of zone 2 for heating mode : FCU(fan coil), RADV(radiator), FLH (floor heating).	2	
3.14 t_DELAY_PUMP	Time that the compressor has run before starting the pump	2 MIN	

Auto Mode Settings		Default	Commissioned
4.1 T4AUTOCMIN	Min ambient temperature for cooling in auto mode	25 °C	
4.2 T4AUTOHMAX	Maximum ambient temperature for heating in auto mode	17 °C	

Temp Type Settings		Default	Commissioned
5.1 WATER FLOW TEMP	Enable WATER FLOW TEMP NO/YES	YES	
5.2 ROOM TEMP	Enable ROOM TEMP NO/YES	NO	
5.3 DOUBLE ZONE	Enable ROOM THERMOSTAT DOUBLE ZONE NO/YES	NO	



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Temp Type Settings		Default	Commissioned
6.1 ROOM THERMOSTAT	Room thermostat No, Mode set, 1 zone, 2 zone	No	

Other Heat Source Settings		Default	Commissioned
7.1 dT1_IBH_ON	Temp diff between T1S and T1 for starting backup heater	5 °C	
7.2 t_IBH_DELAY	Compressor run time before first backup heater starts	30 MIN	
7.3 T4_IBH_ON	Ambient temperature for starting the backup heater	-5 °C	
7.4 dT1_AHS_ON	Temp diff between T1S and T1B to start additional heat source	5 °C	
7.5 t_AHS_DELAY	Comp run time before starting the additional heat source	30 MIN	
7.6 T4_AHS_ON	The ambient temperature for starting the additional heat Source		
7.7 IBH_Locate	IBH/AHS Installation location pipe loop	Pipe	
7.8 P_IBH1	Power input of IBH1	0.0kw	
7.9 P_IBH2	Power input of IBH2	0.0kw	
7.10 P_TBH	Power input of TBH	2.0kw	

Holiday Away Settings		Default	Commissioned
8.1 T1S_H.A_H	The target outlet water temperature for space heating when in holiday away mode	25 °C	
8.2 T5S_H.A_DHW	The target outlet water temperature for domestic hot water heating when in holiday away mode	25 °C	

Auto Restart Settings		Default	Commissioned
13.1 AUTO RESTART COOL/HEAT MODE	Enable auto restart cooling/heating mode NO/YES	YES	
13.2 AUTO RESTART DHW MODE	Enable or disable the auto restart DHW mode NO/YES	YES	

Power Input Settings		Default	Commissioned
14.1 POWER INPUT LIMITATION	The type of power input limitation 0=NO 1-8 Setting	NO	



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Input Settings		Default	Commissioned
15.1 ON/OFF (M1 M2)	Define the function of the M1 M2 switch. REMOTE ON/OFF, TBH ON/OFF, AHS ON/OFF	Remote	
15.2 SMART GRID	Enable or disable the SMART GRID. NO, YES	No	
15.3 T1b (TW2)	Enable or disable the T1b (TW2). NO, YES	No	
15.4 Tbt1	Enable or disable the Tbt1, NO, YES	No	
15.5 Tbt2	Enable or disable the Tbt2, NO, YES	No	
15.6 Ta	Enable or disable the Ta (HMI, IDU)	HMI	
15.7 Ta-adj	The correction value for Ta on the wired controller	-2	
15.8 Solar Input	Type of Solar input, No, Tsolar, 1SL 1SL2	No	
15.9 F-Pipe length	Total length of the liquid pipe (F-Pipe length) less than 10m, more than 10m	less 10	
15.10 RT/Ta_PCB	Enables disables the RT/Ta_PCB, NO, YES	No	
15.11 Pump I silent mode	Enables or disables Pump I silent mode, No, Yes	No	
15.12 DFT1/DFT2	Defrost or Alarm	Defrost	

Input Settings		Default	Commissioned
16.1 PER_START	Start up % with multiple units	10 %	
16.2 TIME_ADJUST	Adjustment time for adding and subtracting units	5 MIN	
16.3 ADDRESS RESET	Reset the address code of the unit 0-15	FF	

Input Settings		Default	Commissioned
17.1 HMI SET	Master, Slave	Master	
17.2 HMI address for BMS	HMI address for the BMS 1-16	1	
17.3 Stop bit		1	



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Once the unit is operating in a stable way under full load (approx. 20 minutes of compressor running time) record the operating parameter values shown in controller menu. Record for all operating modes if applicable/configured (i.e. Heating, DHW, Cooling).

Operating mode	Heating	DHW	Cooling
On line number			
Operating mode			
SV1 State			
SV2 State			
SV3 State			
Pump_I			

Pump_O			
Pump_C			
Pump_S			
Pump_D			
Pipe backup heater			
Tank backup heater			

Gas boiler			
T1 leaving water temp			
Water flow			
Heat pump capacity			
Power consumed			
Ta Room Temp			

T5 Water tank temp			
Tw2 circuit2 water temp			
T1S' C1 Cli curve temp			
T1S2' C2 Cli curve temp			
TW_O Plate W-Outlet Tem			
TW_I Plate W-Inlet Temp			

Tbt1 Buffertank_Up Temp			
Tbt2 Buffertank_Low Temp			
T solar			
IDU Software			



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ODU Model			
Comp Current			
Comp Frequency			
Comp run time			
Comp total run time 2			
Expansion Valve			

Fan Speed			
IDU Target Frequency			
Frequency Limited Type			
Supply Voltage			
DC Generatrix Voltage			
DC Generatrix Current			

TW_O Plate W_Outlet Tem			
TW_I Plate W_Inlet Temp			
T2 Plate F-Out Temp			
T2B Plate F-In Temp			
Th Comp Discharge Temp			
Tp Comp Discharge Temp			

T3 Outdoor Exchanger Tem			
T4 Outdoor Air Temp			
TF Module Temp			
P1 Comp Pressure			
ODU Software			
HMI Software			

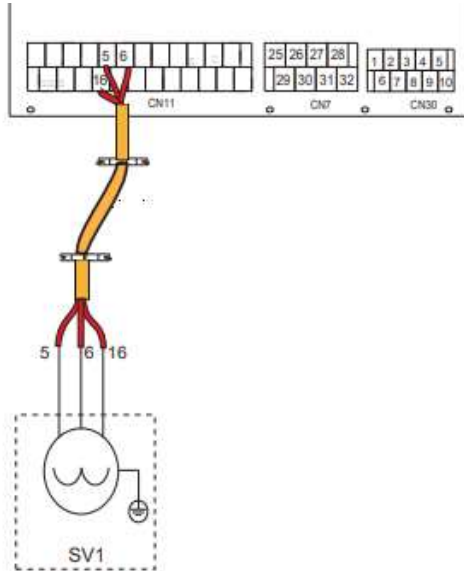
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Check and record all hard-wired connections that have been made during the installation. The most common options are shown below: please tick those that have been installed

Main wiring options, please indicate if used in your system

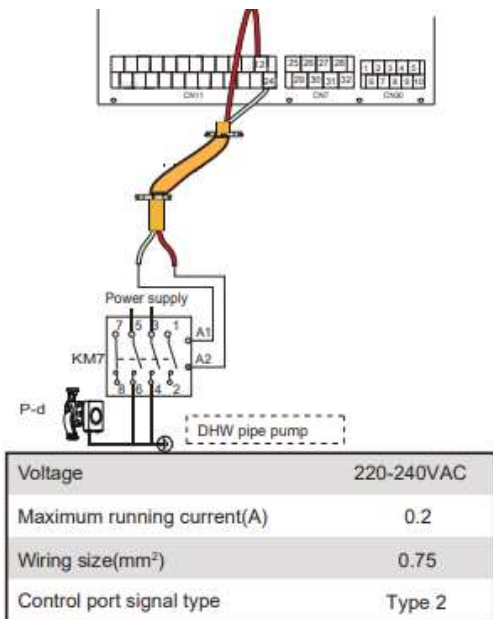
1. Domestic hot water valve connection wired? _____

Ensure T5 sensor fitted in DHW tank

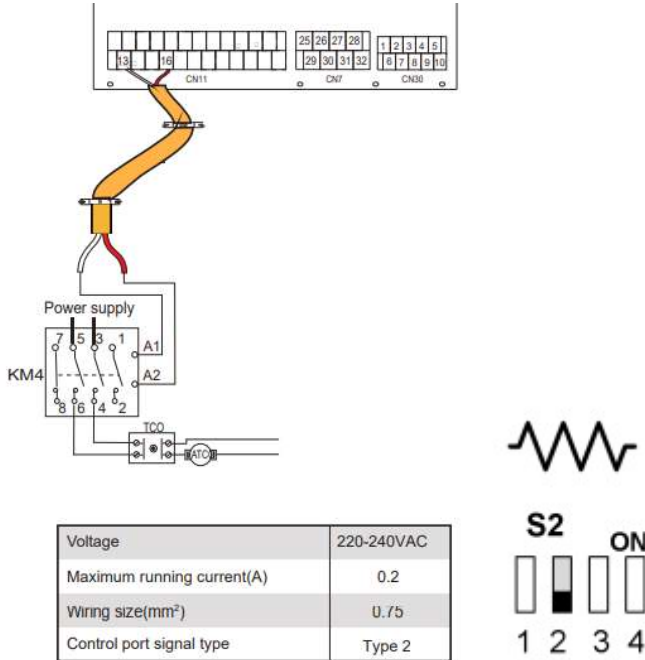


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2. Domestic hot water pump wired (via customer supplied contactor)? _____



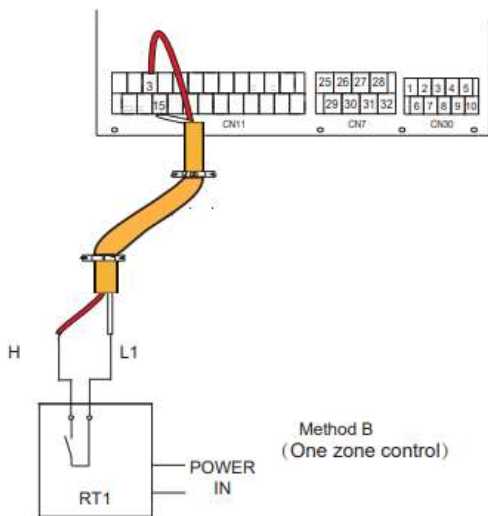
3. DHW Tank backup heater wired (via customer supplied contactor)? _____



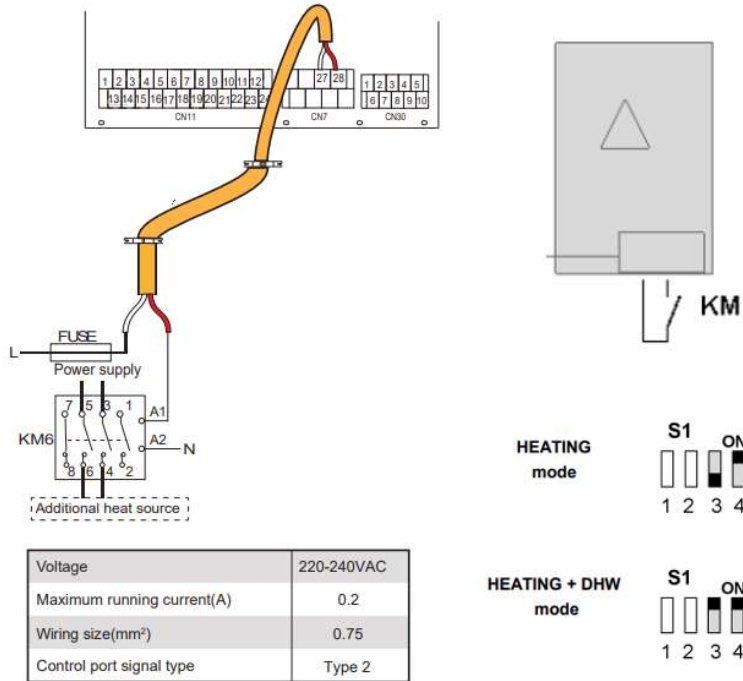
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4. Has the single zone thermostat connection been wired and activated in the menu? _____

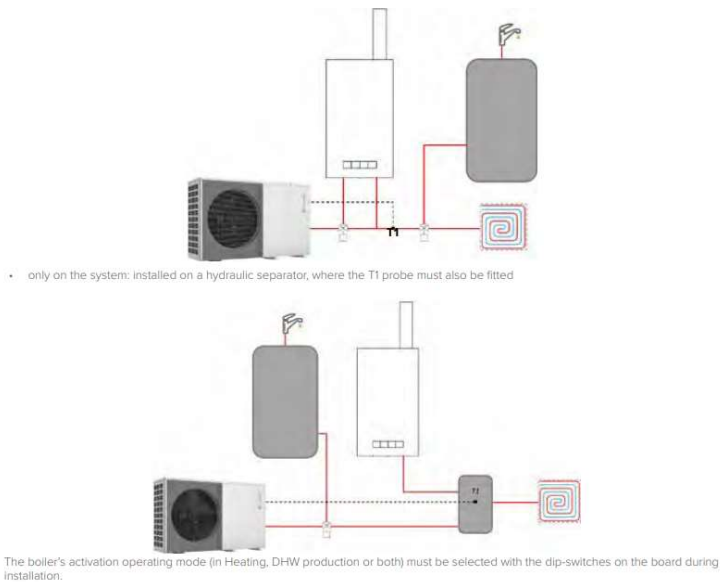
This will ensure the heat mode stops when there is no demand for heating.



5. Boiler integrated within system? _____



Has the T1 (separately supplied sensor option) been installed (required when using an additional heat source AHS)? _____



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