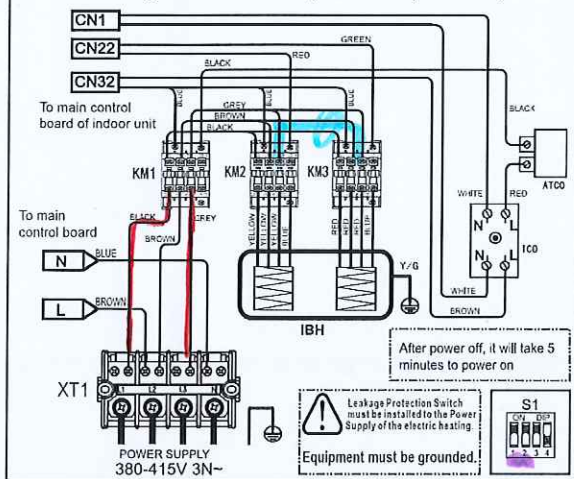


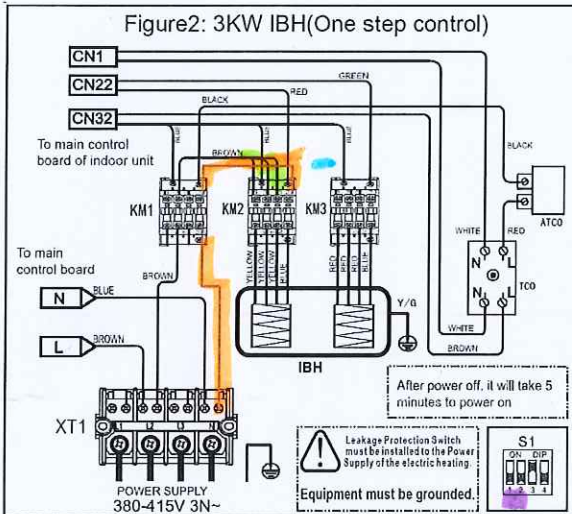
Figure1: 9KW IBH(Three step control)



MHC-V8W/D2N8-BER90 & MHC-V10W/D2N8-BER90

Delivery condition, 9kW Internal Backup Heater

Figure2: 3KW IBH(One step control)



Changes to 3kW (one Step)

✓ Remove cable from Power Supply board L1 and L3 to KM1 / KM2 / KM3

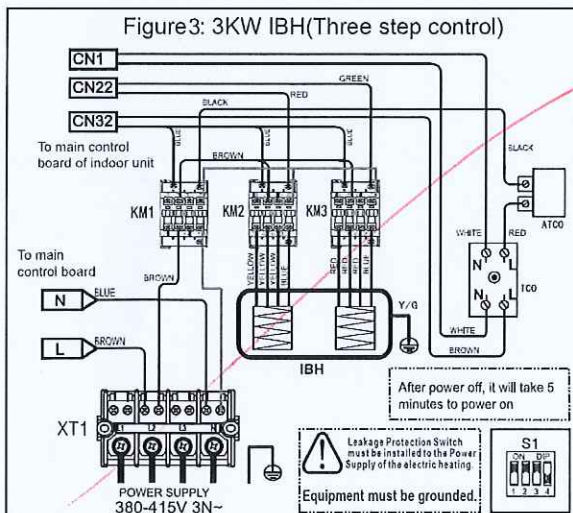
Install bridges on KM2 contact 1 - 3 - 5

remove cable KM2 contact 3 to KM3 contact 3

Install cable from Power Supply Board N to KM1 / KM2

Change DIP Switch S1 setting

Figure3: 3KW IBH(Three step control)



Changes to 3kW (three Step)

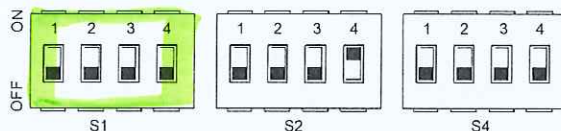
Remove cable from Power Supply board L1 and L3 to KM1 / KM2 / KM3

Install cable from Power Supply Board N to KM1 / KM2 / KM3

Control DIP Switch S1 setting

⚠ WARNING

- Switch off the power supply before opening the switch box service panel and making any changes to the DIP switch settings.
- Operate the switches with an insulated stick (such as a closed ball-point pen) to avoid electrostatic damage to the components.



DIP switch		ON=1	OFF=0	Factory defaults	DIP switch		ON=1	OFF=0	Factory defaults	DIP switch		ON=1	OFF=0	Factory defaults
S1	1	Reserved	Reserved	Refer to eletrically controlled wiring diagram	S2	1	Start pumpo after 24 hours will be invalid	Start pumpo after 24 hours will be invalid	Refer to eletrically controlled wiring diagram	S4	1	Master unit:clear address of all slave units Slave unit:clear its own address	Keep the current address	Refer to eletrically controlled wiring diagram
	2	Reserved	Reserved			2	Without TBH	With TBH			2	Reserved	Reserved	
	3/4	0/0=Without IBH and AHS 1/0=With IBH 0/1=With AHS for heat mode 1/1=With AHS for heat mode and DHW mode				3/4	0/0=variable speed pump, Max head: 8.5m 0/1=constant speed pump 1/0=variable speed pump, Max head: 10.5m 1/1=variable speed pump, Max head: 9.0m				3/4	Reserved		

10.3 Initial start-up at low outdoor ambient temperature

During initial start-up and when water temperature is low, it is important that the water is heated gradually. Failure to do so may result in concrete floors cracking due to rapid temperature change. Please contact the responsible cast concrete building contractor for further details.

To do so, the lowest water flow set temperature can be decreased to a value between 25°C and 35°C by adjusting the FOR SERVICEMAN. Refer to "FOR SERVICEMAN/special function/preheating for floor" .

10.4 Pre-operation checks

Checks before initial start-up.

⚠ DANGER

Switch off the power supply before making any connections.

After the installation of the unit, check the following before switching on the circuit breaker:

- Field wiring: Make sure that the field wiring between the local supply panel and unit and valves (when applicable), unit and room thermostat (when applicable), unit and domestic hot water tank, and unit and backup heater kit have been connected according to the instructions described in the chapter 9.6 Field wiring, according to the wiring diagrams and to local laws and regulations.
- Fuses, circuit breakers, or protection devices Check that the fuses or the locally installed protection devices are of the size and type specified in the chapter 14 Technical specifications. Make sure that no fuses or protection devices have been bypassed.
- Backup heater circuit breaker: Do not forget to turn on the backup heater circuit breaker in the switchbox (it depends on the backup heater type). Refer to the wiring diagram.
- Booster heater circuit breaker: Do not forget to turn on the booster heater circuit breaker (applies only to units with optional domestic hot water tank installed).
- Ground wiring: Make sure that the ground wires have been connected properly and that the ground terminals are tightened.
- Internal wiring: Visually check the switch box for loose connections or damaged electrical components.
- Mounting: Check that the unit is properly mounted, to avoid abnormal noises and vibrations when starting up the unit.
- Damaged equipment: Check the inside of the unit for damaged components or squeezed pipes.
- Refrigerant leak: Check the inside of the unit for refrigerant leakage. If there is a refrigerant leak, call your local dealer.
- Power supply voltage: Check the power supply voltage on the local supply panel. The voltage must correspond to the voltage on the identification label of the unit.
- Air purge valve: Make sure the air purge valve is open (at least 2 turns).
- Shut-off valves: Make sure that the shut-off valves are fully open.