

UNI-E

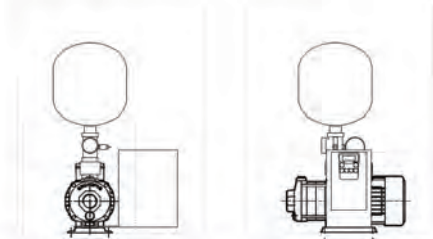
Installation and Operating Instructions



Installation

To ensure cooling of motor and electronics, the following must be observed:

- Place the pump in such a way that sufficient cooling is ensured.
- The temperature of the cooling air must not exceed 40°C.
- Motor cooling fins and fan must be kept clean.
- When installing outdoors, a proper cover / shade must be provided to ensure protection from direct sun exposure and rain. Good ventilation is also necessary as illustrated in the diagram below:



Electrical connections

The user or the installer is responsible for the installation of the earth cable and also adhering to valid national and local standards. All operations must be carried out by a qualified electrician.



Never make any connections in the pump/VSD terminal box unless the electricity supply has been switched off for at least 5 minutes.

Additional protection

If the pump is connected to an electrical installation where an earth leakage circuit breaker is used as additional protection, this circuit breaker must be marked with the following symbol.



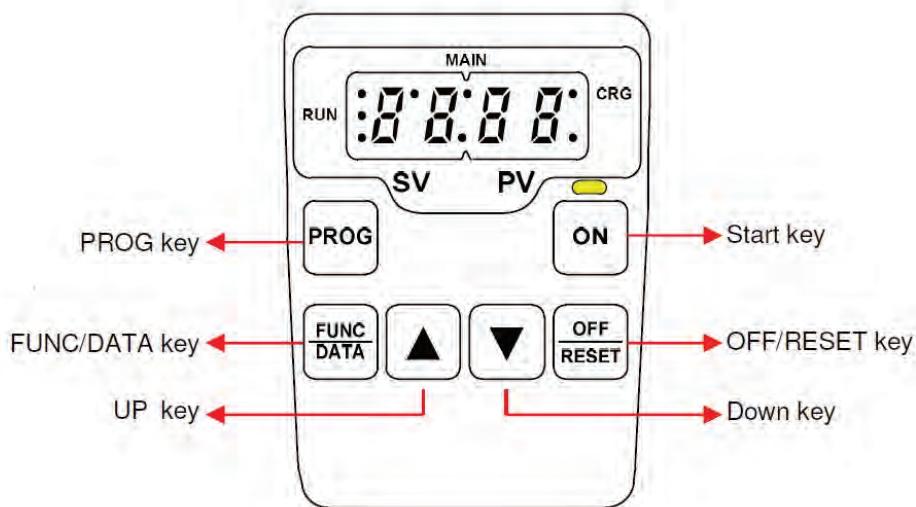
ELCB

Terminal connection special functions

The terminal below are program as standard to function as per description.

TERMINAL	DESCRIPTION
COM & X4	DRY-RUNNING PROTECTION Level switch must provide a Close contact (NC) when the suction tank water is low and Open contact (NO) when the suction tank level is high.
COM & X2	MANUAL BYPASS OVERRIDE On/off switch with normally close (NC) to manually "ON" and normally open (NO) to manually "OFF"
Ta & Tc	RELAY OUTPUT DURING RUN. The VSD will provide a contact signal when VSD/Pump is running. RELAY OUTPUT WHEN VSD ERROR. The VSD will provide a contact signal when VSD error. F060 must be set to 11

UNI-E Settings



Display readout.

SV is the readout of the pressure setpoint.

PV is the readout of the operating setpoint.

To activate the pump, press the Start button.

To stop or reset (if any fault) the pump, press the OFF/RESET button.

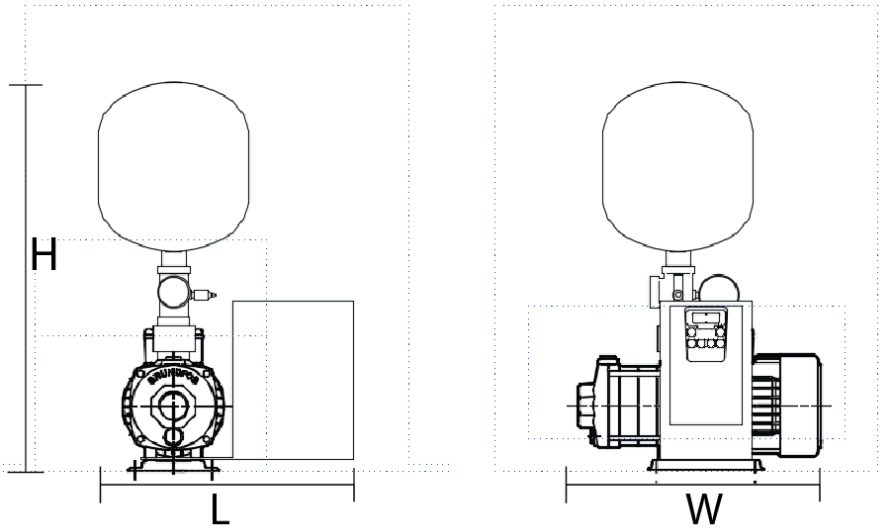
Setting the operating setpoint.

To increase the setpoint, press the up arrow until the SV readout display the value re-quired.

To decrease the setpoint, press the download arrow until the SV readout display the value required.

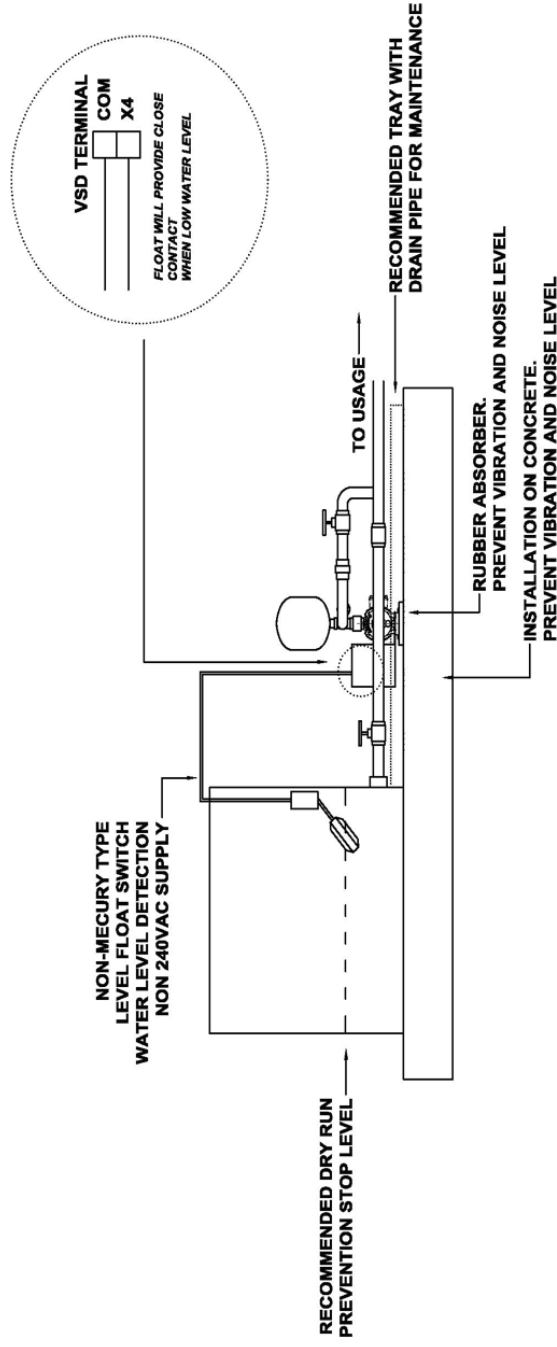
* Please refer to Grundfos should other settings required.

UNI-E dimensions



	Uni-E CM 3-5	Uni-E CM 5-4	Uni-E CM 5-5	Uni-E CM 10-2
S: SUCTION (INCHES)	1	1¼	1¼	1½
D: DISCHARGE (INCHES)	1	1	1	1
L: LENGTH (MM)	350	400	400	400
H: HEIGHT (MM)	650	650	650	750
W: WIDTH (MM)	400	400	400	400

Grundfos recommended installation



Note: Grundfos will Not bear any responsibility for installations that do not adhere to the above recommendation

Standard specifications

Pump specifications :

Max liquid temp:	70°C
Min liquid temp:	0°C
Min ambient temp:	0°C
Max ambient temp:	40°C
Enclosure class:	IP42(Shelter required for outdoor used)
Insulation class:	F

VSD specifications :

Rated input voltage:	1 phase 220-240 VAC
Max. output frequency:	50Hz
Enclosure class:	IP20

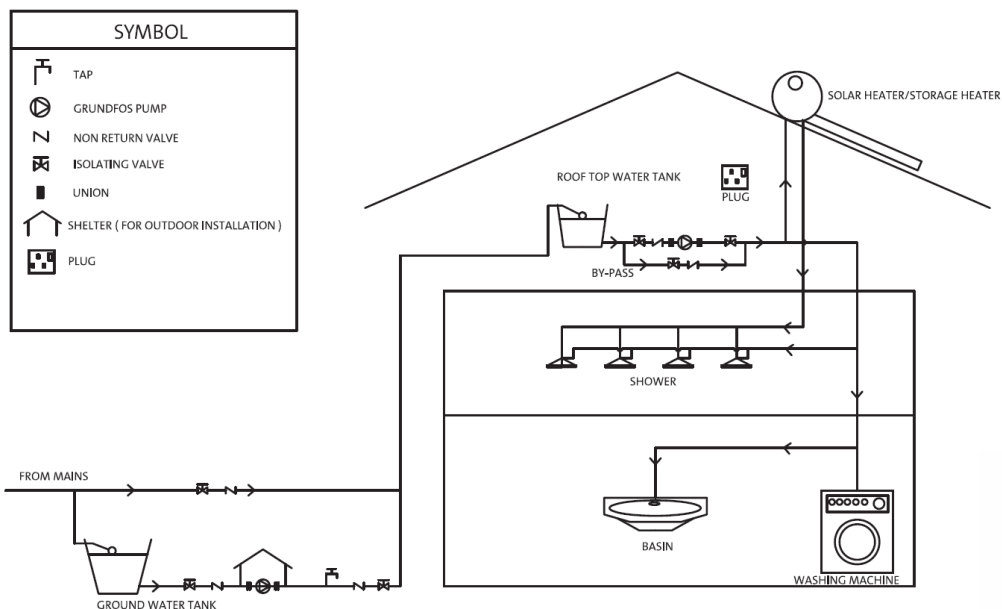
Standard features

- Easy setpoint adjustment
- Actual pressure readout
- Constant pressure via variable speed drive for optimum comfort
- Energy saving
- Built-in overload protection
- Low operation noise
- Auto restart on power failure
- Low voltage dry run float sensor connection
- Dry running (secondary) protection built-in VSD
- Plug and play capability

Variable speed drive fault code

•	FR	Primary Dry run
•	FB LO	Secondary Dry run (INT)
•	FB NO	Sensor fault
•	Eer	Eeprom error
•	Oc	Over current
•	OE	Over voltage
•	LEI	Under voltage during operation
•	GF	Ground fault
•	OH	Over heat
•	OL	Motor over load

PROPER WAY TO INSTALL GRUNDFOS DOMESTIC WATER PUMP



- * We reserve the right to decline warranty claim if the above installation is not followed.
- * Direct suction from main is prohibited.

Subject to alterations.
UNI-E 1117

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