

BLUEDIAMOND[®]

CONDENSATE REMOVAL PUMPS

MINIBLUE[®]



MAXIBLUE[®]



MEGABLUE[®]



The BlueDiamond[®] pump range out performs other condensate pumps, can be mounted in any orientation and does exactly what you need it to do.

S30-194/6

Manufactured by:



3 YEAR
WARRANTY

SAFETY INFORMATION



Caution: Alarm lead must be connected to a class 2 circuit only –Do not connect to a load higher than 5A, 240v AC/DC.

Caution: This pump has been evaluated for use with water only.

Caution: Risk of electric shock: This pump has not been investigated for use in swimming pool or marine areas.

Caution: Since there is no water level sensing, the alarm relay will not operate with hot & cold sensing option.

Warning: Be sure that the power to the unit is disconnected before installing, servicing or removing any component.

Warning: Do not store, install or operate this pump in a damp environment.

Warning: The unit must not be placed outside, immersed in water or exposed to frost.

Warning: All existing collection elements and fittings should be thoroughly cleaned before installing. Do not install if damaged.

Warning: Acceptable for indoor use only.

WARRANTY



The BlueDiamond[®] series of pumps are manufactured under Charles Austen Pumps strict quality control system. In the unlikely event of failure within 3 years from the date of purchase under normal usage, Charles Austen Pumps will repair the item free of charge subject to the following conditions:

- Charles Austen Pumps will decline any responsibility if the installation of the pump does not conform to these instructions and specifications.
- Any modifications to the unit will immediately void the warranty.

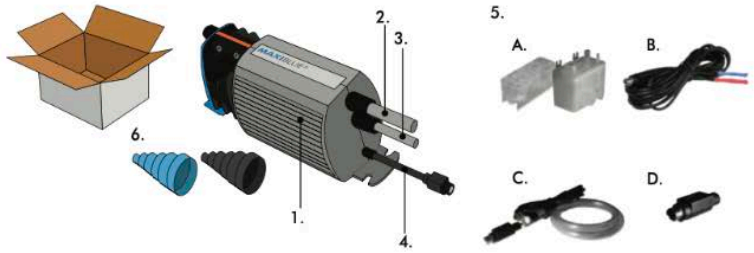
• We reserve the right to alter specifications without prior notice.



IN THE BOX



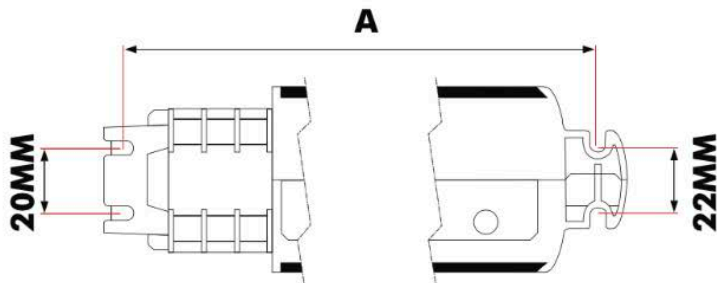
1. Pump (Mini, Maxi or Mega)
2. 2m (6' 7") mains lead
3. Zero volt alarm lead (reservoir and DrainStik® only)
4. Sensor input socket
5. Sensing Option:
 - (A) Reservoir
 - (B) Hot & cold sensor
 - (C) DrainStik®
 - (D) Continuous Running Plug
6. Stepped Connector x2 (Rigid & Flexible)



MOUNTING DETAIL

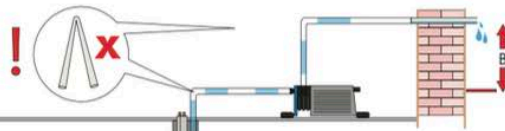


	A (mm)
MEGABLUE®	234
MAXIBLUE®	142
MINIBLUE®	122



The pump may be mounted in any orientation but must be kept dry.

INSTALLATION



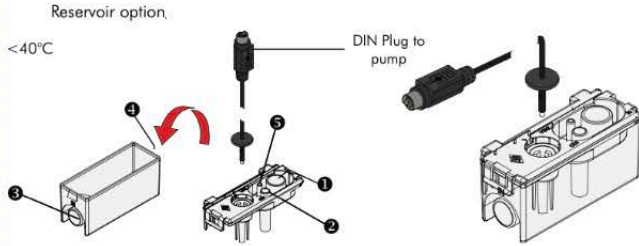
	FLOW	HEAD (A)	EFT (B)	
MINIBLUE®	8 L/HR	5 METRES	8 METRES	0.5A
MAXIBLUE®	14 L/HR	8 METRES	8 METRES	0.5A
MEGABLUE®	30 L/HR	20 METRES	7 METRES	1.0A

*Fuse pumps 0.5A (Not Supplied)

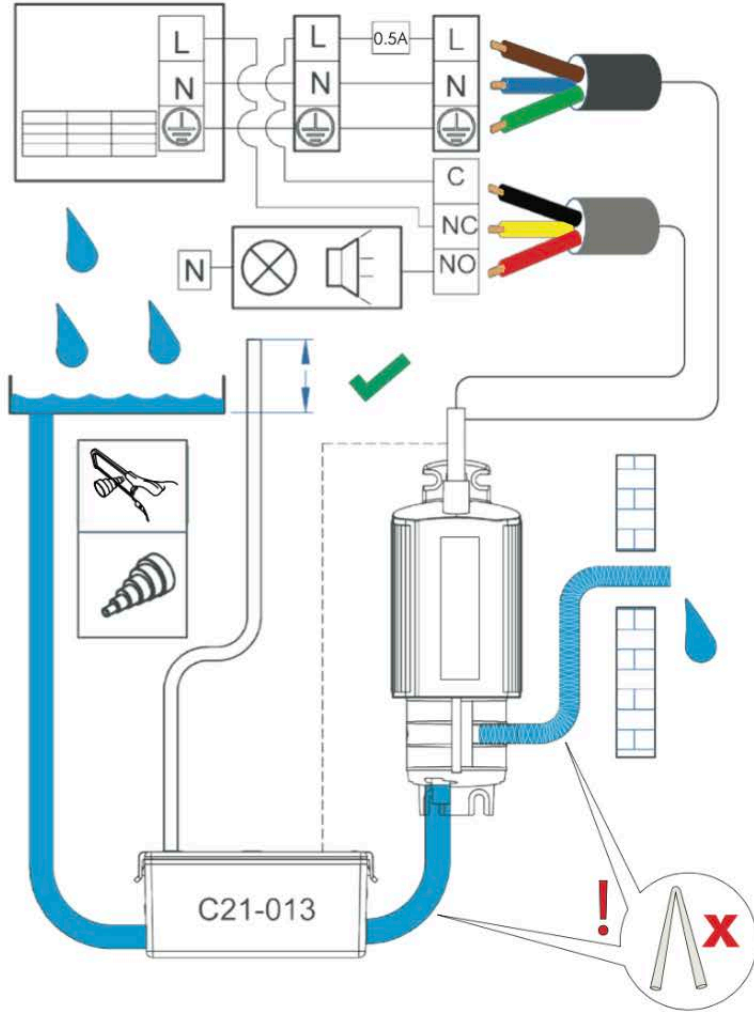


Leave sufficient space around the pump unit to allow for cooling. Ensure that the pump is not more than A above the condensate outlet, and not more than B below the desired drainage point for the pump outlet. The pump can be mounted in any orientation but must be kept DRY. (See table above for A & B). Connect the discharge tube of the pump to a suitable drainage system. Secure with cable ties where necessary. A stepped adaptor is supplied to convert various tube diameters.

RESERVOIR OPTION



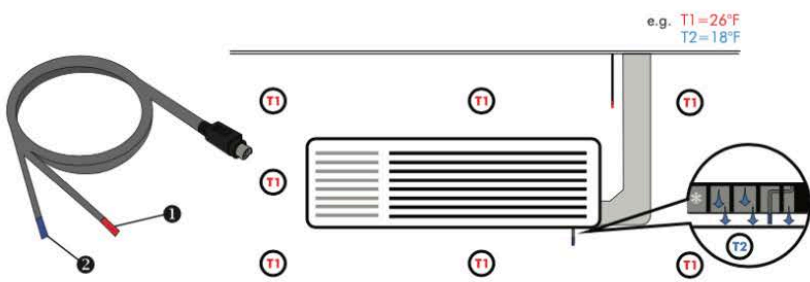
Choose to use either the top IN ❶ and OUT ❷ or side IN ❸ and OUT ❹ connections and fit blanking plugs to the unused parts. Connect the reservoir outlet (❷ or ❹) to the inlet of the pump & the flexible condensate inlet to the condensate tray hose. The reservoir is fitted with a vent tube ❸, which must remain unblocked with the free end secured above the full level of the condensate drip tray. Ensure the reservoir assembly is secured in a HORIZONTAL position using the screws supplied.




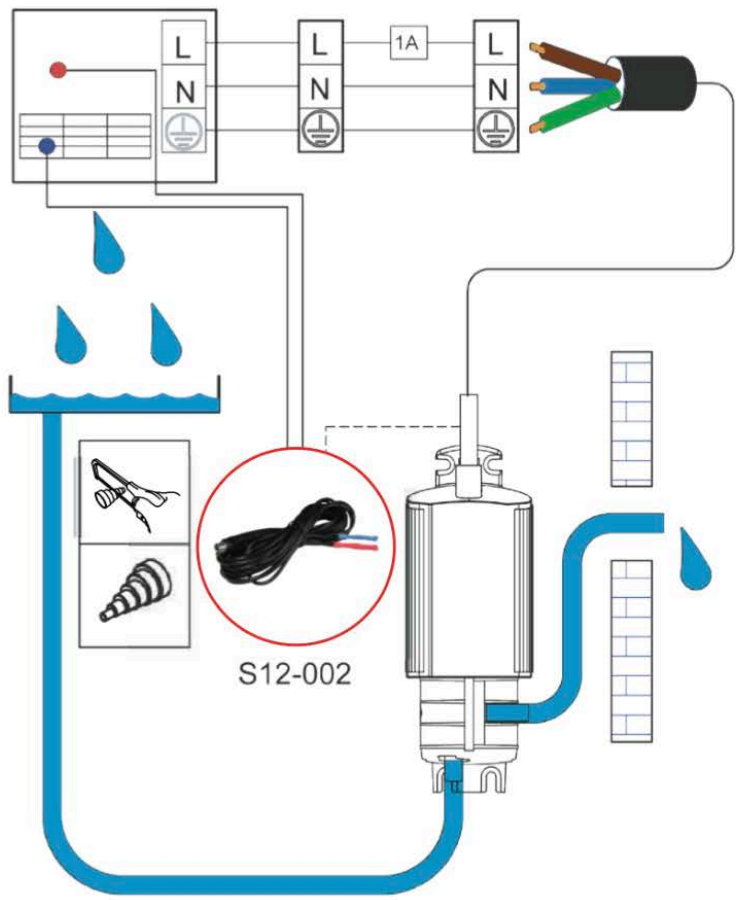
TEMPERATURE SENSOR OPTION

Hot and col

ferenzsteuerung /




 Position the hot thermistor sensor (red) u in a suitable location at ambient air temperature. It is recommended that ceiling voids are avoided as these are usually at much higher temperatures. Place the cold thermistor sensor (blue) v in the path of the air flow from the air conditioning unit.

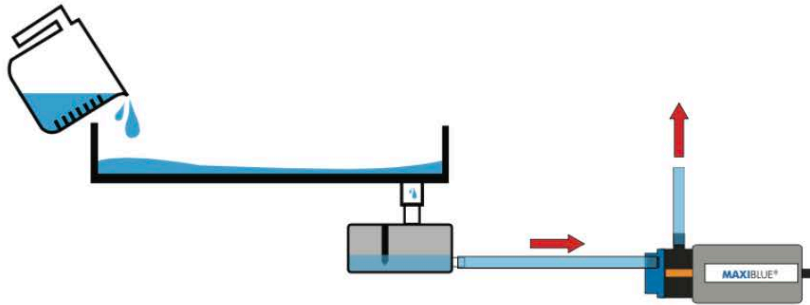



CR PLUG OPTION



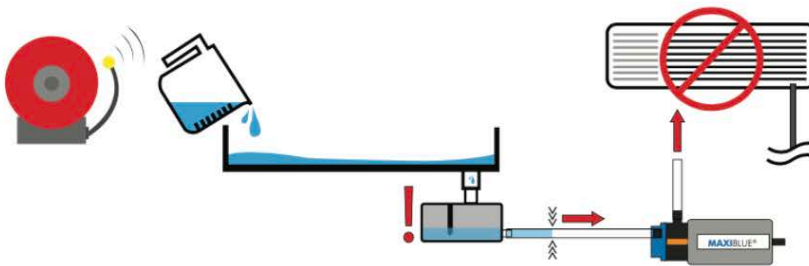
 The continuous running (cooling signal) option allows the pump to run continuously. If powered from the same source as the A/C Unit, it will switch on / off with the A/C Unit. Connect the plug into the Sensor Input Socket before installation.


WATER TEST



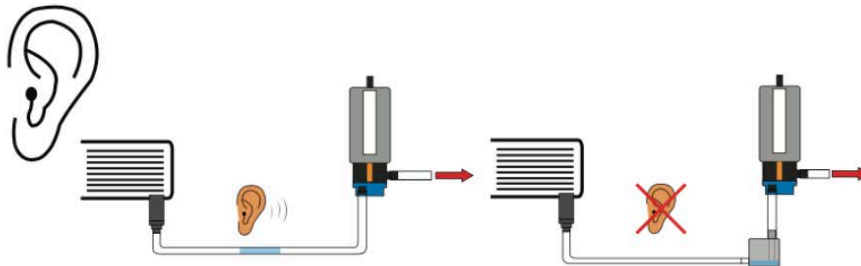
 The water test ensures that the pump responds to the water level & that the pump switches off when dry. To test, slowly pour cold water into the tray until the pump switches on. Allow the pump to run and switch off. The pump should run for approximately 7 seconds after emptying the reservoir/condensate tray pipe.


ALARM TEST



 To ensure that the alarm connection is working, restrict the outlet of the reservoir hose and fill with water up to the high level sensor. The pump will turn on initially, then after a short delay the alarm relay will switch, detected using a multimeter or observing the shut down of the AC unit. Allow the water to exit the reservoir; the water should then be pumped away, and AC operation will restart.

ALARM TEST



 If the pump is installed remotely, occasionally water can become trapped in the u-bend at the lowest point of the system. Due to the pump's high flow rate, this can create a gurgling noise. It is recommended to fit the silencer supplied with the hot & cold sensor option. This must be fitted at the lowest point in the system, to reduce this noise.

Silencer supplied with MegaBlue Temperature sensor model only

MEGA BLUE - MAXI BLUE - MINI BLUE HIGH LEVEL ALARM WIRING

FIRSTLY ... THIS WIRING IS DIFFERENT TO OTHER 'HIGH-LEVEL' WIRING.

The High-Level Alarm is a 230V 5A VOLT FREE relay... Set to turn the A.C. unit off and leave the pump 'continuously running when in 'high level alarm' mode. High level alarm mode occurs only when the reservoir overly fills with condensate and the highest sensor becomes wet.

BLACK: is common and can take up to 230V 5A.
NOTE: A permanent feed is required

RED: is normally open (NO) the NO function is to switch the relay. The switching should result in the A/C unit turning off and the pump 'continuously running'. The switching action occurs only when the high-level alarm sensor is wet and therefore high level alarm mode is triggered.

YELLOW: is normally closed (NC) the NC function is to send a signal to an optional audible alarm or light or BMS system. NOTE: in most installations the 'yellow' is left disconnected.

Approximately 45 seconds after the reservoir has emptied the high-level alarm mode will clear.

Once cleared the relay will switch back...the pump will turn off and the A/C unit back on. Normal operating conditions will resume...

Distributed by:-

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Pumpmates
australasia

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ROTARY
DIAPHRAGM

3
YEAR
WARRANTY