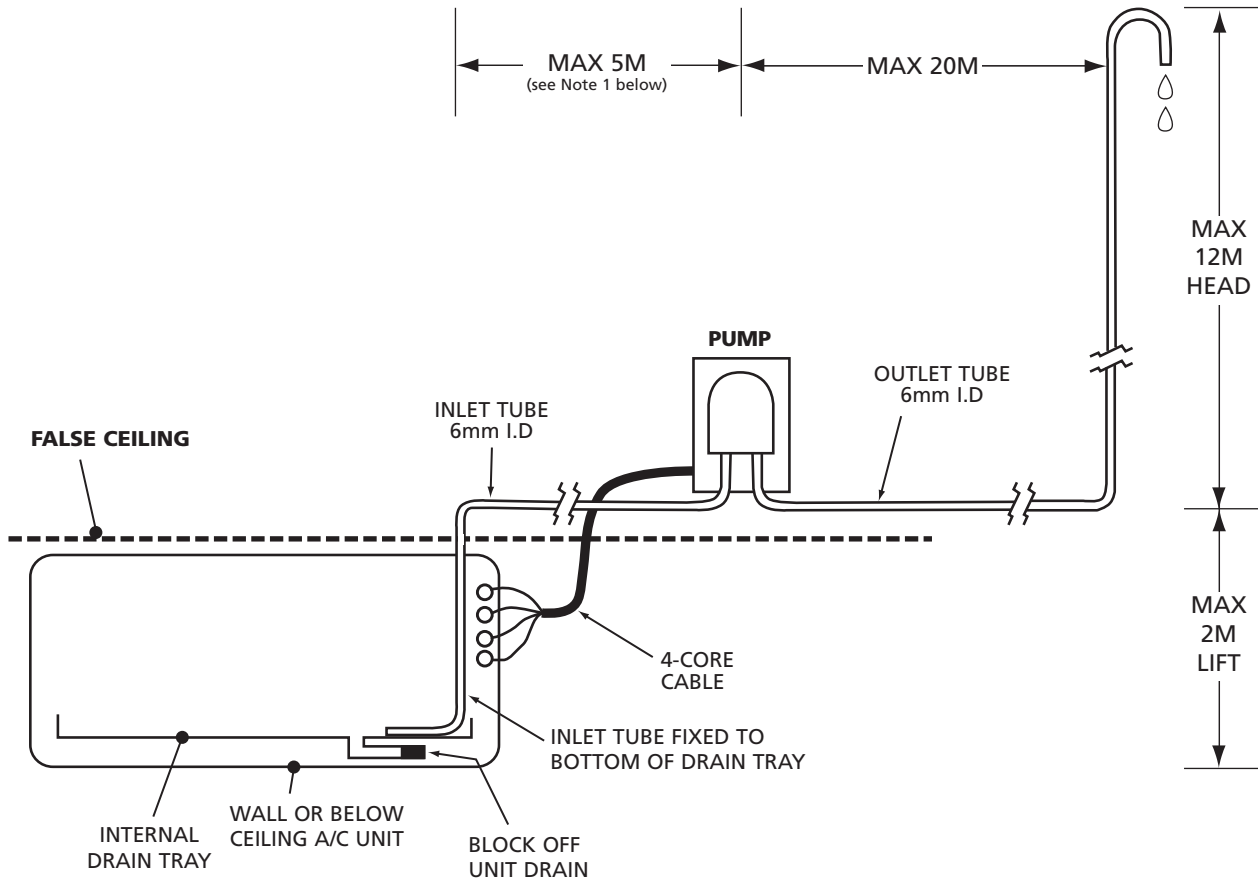
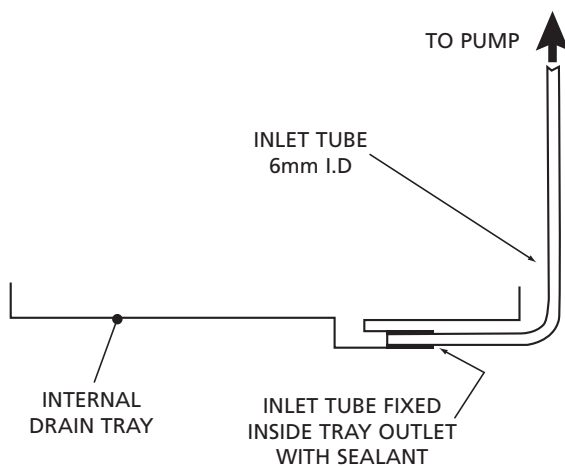


Aspen Standard Pump

Installation example



Alternative Position for inlet tube



Electrical Connections

(to aircon unit power supply)

Brown	Live
Blue	Neutral
Green/yellow	Earth (Ground)
Black	150-230V Cooling signal

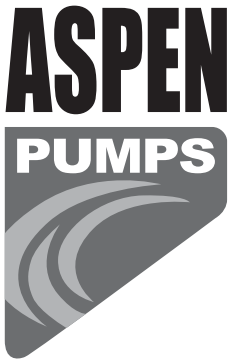
Control Method

220-240V cooling signal required to make the pump run.

Note 1

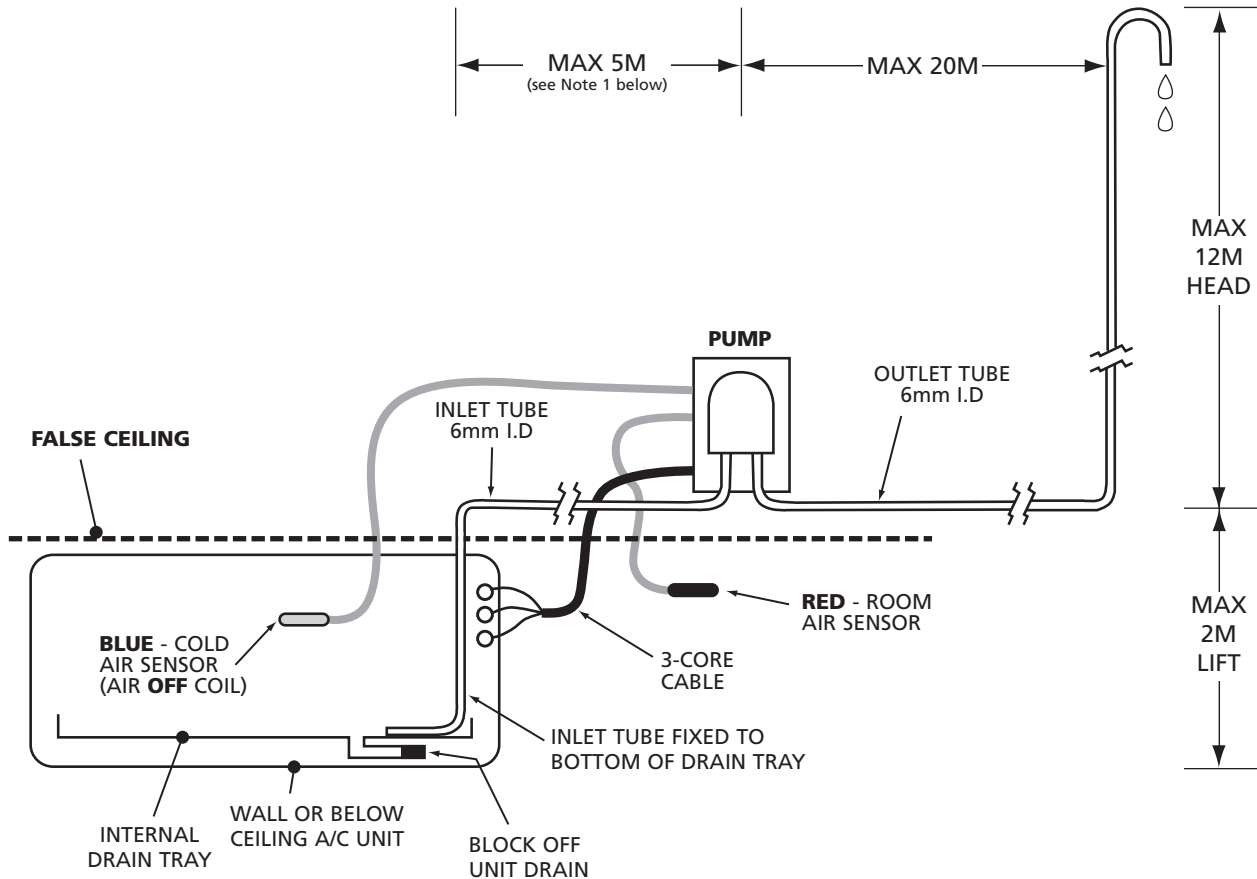
A non-return valve may be required for units with low capacity drain trays.

NOTE: DIAGRAMS ARE NOT TO SCALE

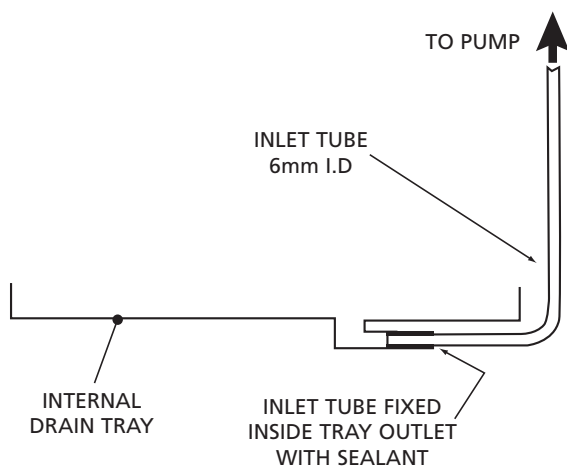


Aspen Universal Pump

Installation example



Alternative Position for inlet tube



Electrical Connections

(to aircon unit power supply)

Brown	Live
Blue	Neutral
Green/yellow	Earth (Ground)

Control Method

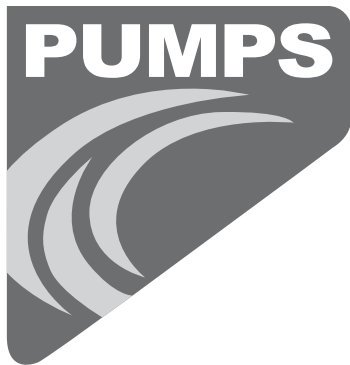
Cold air stream over the blue sensor will make the pump run automatically.

Note 1

A non-return valve may be required for units with low capacity drain trays.

NOTE: DIAGRAMS ARE NOT TO SCALE

ASPEN



Data Sheet

Technical Specification

- 3 metre connecting cable
- Self-priming
- 2 metre water head sensor
- 2 metre suction lift
- 12 metre discharge head
- Pumps water/fibrously contaminated water and air
- Water pumping capacity 6.25 litres per hour at 12m discharge, 2m lift
- Pump has a selector switch for manual flushing
- Temperature limits on pump head tube: -30 to +100°C
- Pump rating 0.2A, 240V AC
- Export rating 0.2A, 220V AC

Electrical Connections

Brown	Live
Blue	Neutral
Green/yellow	Earth

Important

This pump is protected by an internal 1A Anti-Surge Fuse.

The Aspen Mk 4 Water Sensor Pump

Particularly suitable in refrigeration cabinets.

Description

The Mk 4 pump has a sensor for level detection, which gives off heat in normal operating conditions and will feel warm to the touch. It is for this reason that when the unit is first switched on to allow five minutes for the electronics to stabilise.

To ensure that the detector will operate satisfactorily please abide by the following:

Position of Water Sensor: Free from direct draft and the tip should be a minimum of 5mm from the base of the tray or water container. Ensure that the tip is in free air and unable to touch the sides. There is also an ambient sensor which is within the cable 50mm from the gland of the level sensor. This can be seen as a disc beneath the sleeve and should be in free air to avoid heat conduction.

Water Level: The detector will trigger when the water level has reached the first 2 or 3mm of the sensor, this should be taken into account when positioning the height of the sensor. Note that as the device works on heat conductivity it can take up to 30 seconds for the pump to switch on.

Pumping: Once the level of the water has dropped below the tip of the sensor the pump will continue for some 5 to 6 minutes until the heat of the sensor has completely dried all the water, this allows time for the pump to drain the remaining water.

NOTE: It is important that the level sensor is never in a situation where it will be completely submerged up to the ambient sensor above the gland. In such an event the device will cease to operate.

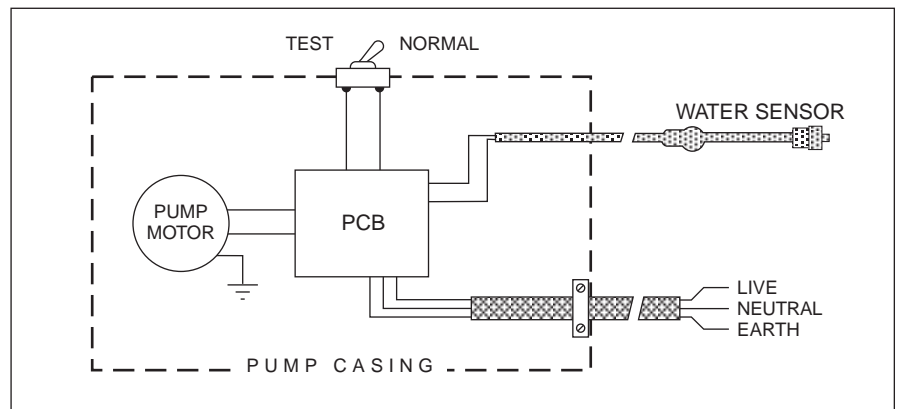
Dimensions

Height: 142mm. Width: 160mm. Depth: 83mm. Weight: 1.4kg

Installation Notes

This pump is designed to sit level on its base and must at all times have adequate space around it for good ventilation.

Ensure that there are no kinks or trapped parts in the piping, which must have an inside diameter of 6mm and an outside diameter of 9mm. Fix the pipe with cable ties to the pump inlet and outlet.

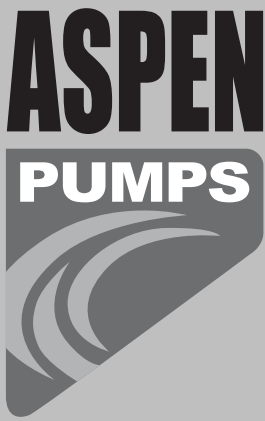


Service Guide

- 1 Inspect the pump head regularly and change pump head tube every 12 months or more often if required.
- 2 To remove pump head, make sure roller assembly is vertical. Remove screws and fit replacement pipe. The addition of a smear of silicon grease will ease the refitting of the lid and reduce potential friction noise.
- 3 The test switch should always be returned to the NORMAL position after use.
- 4 Replacement pump head tubes and other accessories can be obtained from the manufacturers. Please quote the serial number (to be found on the pump) when ordering spare parts.

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The Aspen Mechanical Pump

Suitable for applications where condensate tray allows for easy positioning of float mechanism.

DATA SHEET



Technical Specification:

- 2 metre connecting cable
- 3 metre float switch cable
- Self-priming
- 3 metre suction lift
- 12 metre discharge head
- Pumps water/fibrously contaminated water and air
- Water pumping capacity 6.25 litres per hour @ 12m discharge
- Pump has a selector switch for manual flushing
- Temperature limits on pump head tube: 0°C to +100°C
- Pump rating 0.2A, 230V AC

Dimensions:

Height: 142mm **Width:** 160mm
Depth: 83mm **Weight:** 1.4kg

Electrical Connections:

Brown: Live
Blue: Neutral
Green/yellow: Earth

Description:

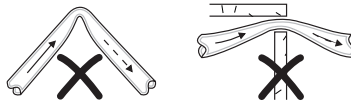
The pump is designed to be fitted in the ceiling void and to lift condensated water where a gravity drain is too obtrusive. It can be used on cassettes fitted with an internal lift pump.

Installation Notes:

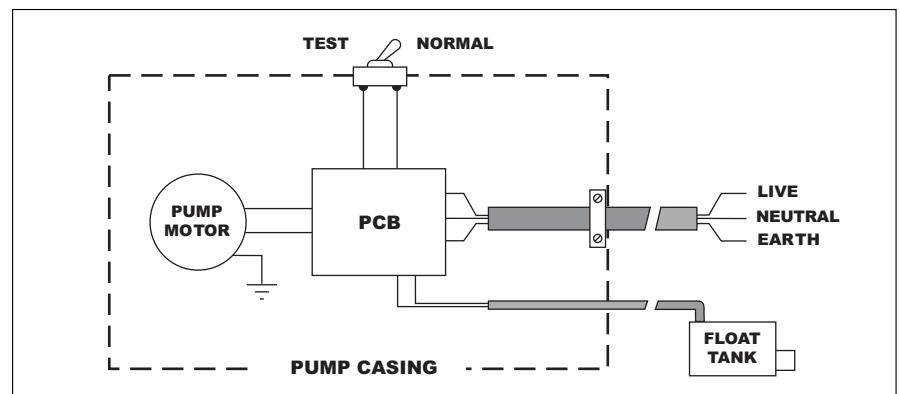
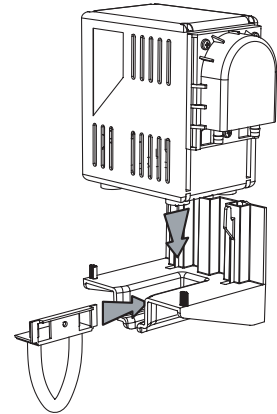
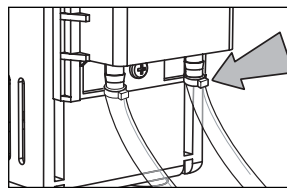
This pump is designed to sit level on its base and must at all times have adequate space around it for good ventilation.

Ensure that there are no kinks or trapped parts in the piping, which must have an inside diameter of 6mm and an outside diameter of 9mm.

Decide which reservoir is correct for your installation. Ensure you have placed float magnet facing upwards. Connect the water reservoir to the water drain of evaporator or if using other reservoir place and fix into condensate tray. Ensure reservoir is mounted horizontally.



Fix the pipes with cable ties to the pump inlet and outlet.



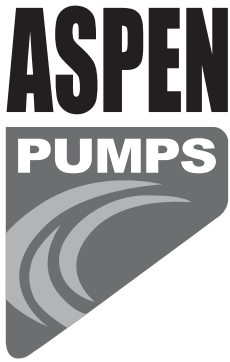
Service Guide:

- 1 Inspect the pump head regularly and change the pump head tube every 12 months or more often if required. If any problems with the pump occur **check the tube first!**
- 2 To remove the pump head, make sure the roller assembly is vertical. Remove screws and fit the replacement pipe. The addition of a smear of silicon grease will ease refitting the lid and reduce potential friction noise.
- 3 The test switch should always be returned to the "RUN" position after testing.
- 4 Replacement pump head tubes and other accessories can be obtained from the manufacturers. Please quote the serial number (to be found on the pump) when ordering spare parts.
- 5 The float chamber should be cleaned annually.

For further help contact Aspen Pumps:

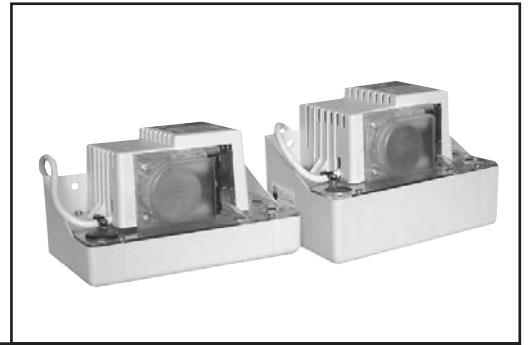
Aspen Pumps Apex Way Hailsham East Sussex BN27 3WA www.aspenpumps.com
Tel: +44 (0)1323 848842 Fax: +44 (0)1323 848846 sales@aspenpumps.com

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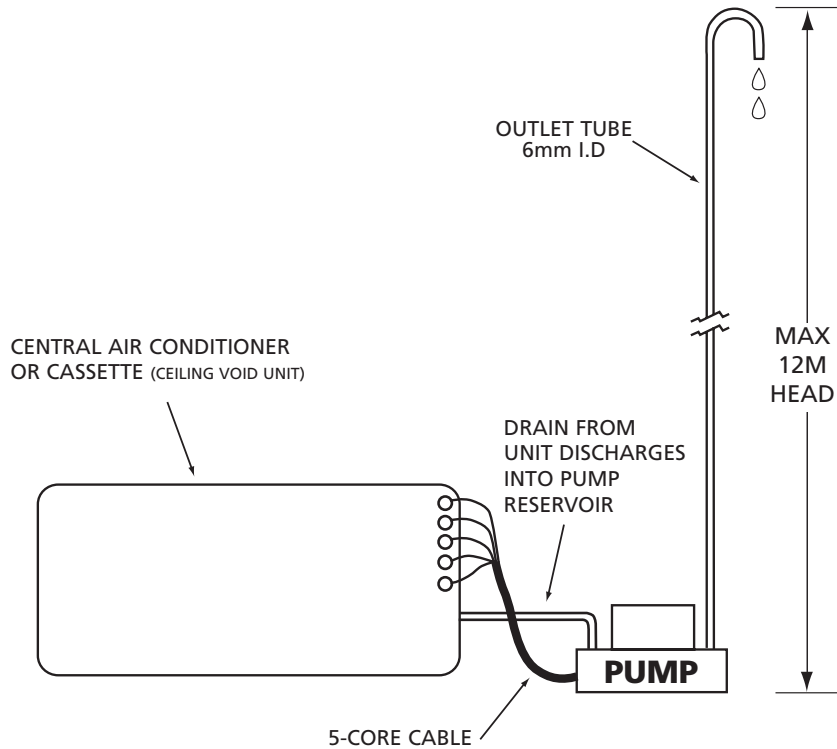
Hi-Lift tank Pump

Installation examples



Example 1:

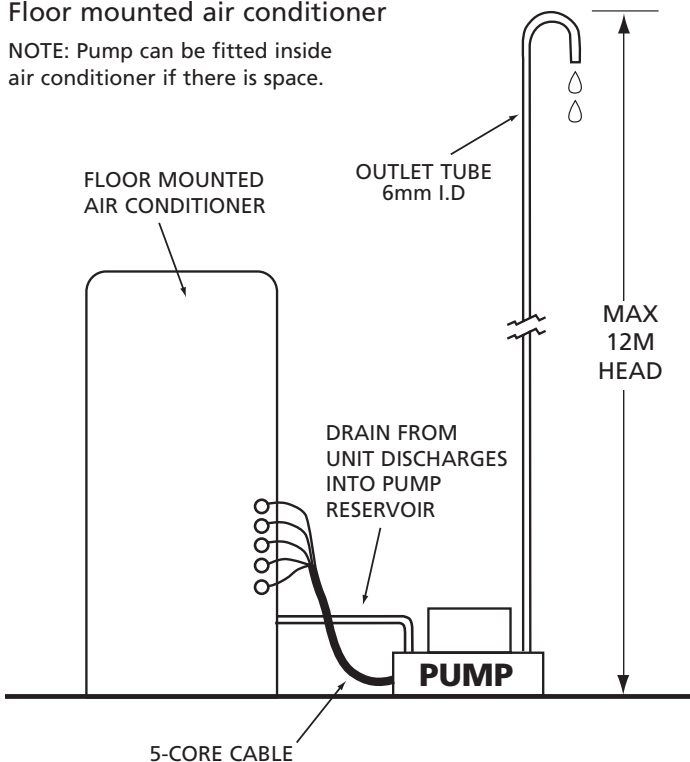
Central air conditioner or cassette (Ceiling void unit)



Example 2:

Floor mounted air conditioner

NOTE: Pump can be fitted inside air conditioner if there is space.



Electrical Connections

to aircon unit power supply:

- Brown**.....Live
- Blue**.....Neutral
- Green/yellow**..... Earth (Ground)

to control circuit:

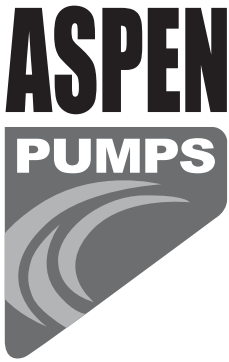
- Black (2)**.....High Level switch*

*High level float inside pump will open a normally closed switch across the two black wires (max 4 amps). This can be used to switch the air conditioner off or to bring up an alarm to indicate that the pump has failed.

Control Method

Float level inside the pump reservoir will make the pump operate.

NOTE: DIAGRAMS ARE NOT TO SCALE



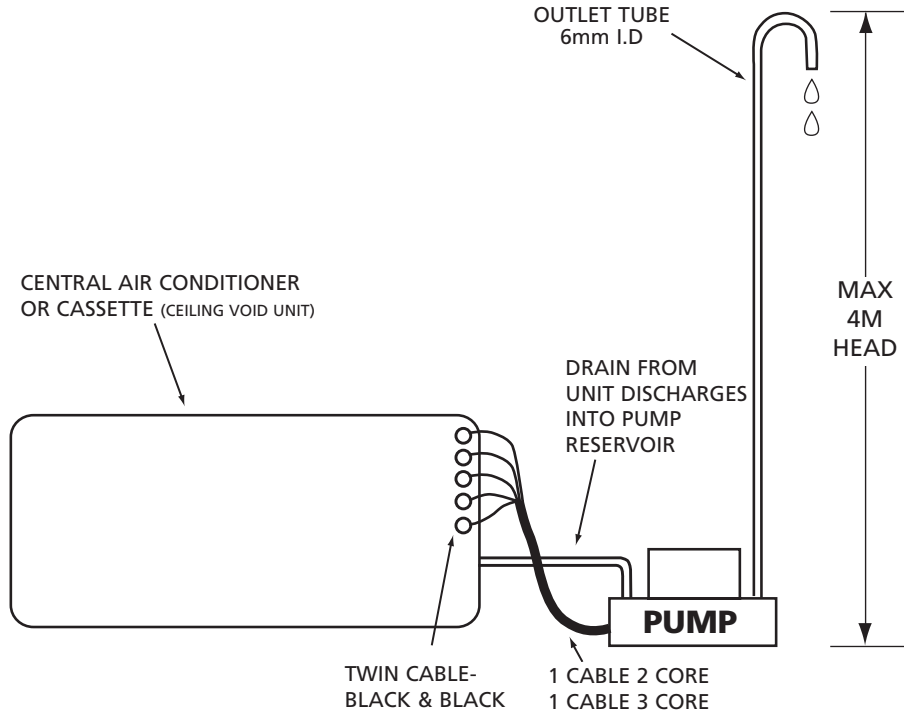
Hi-Flow tank Pump

Installation examples



Example 1:

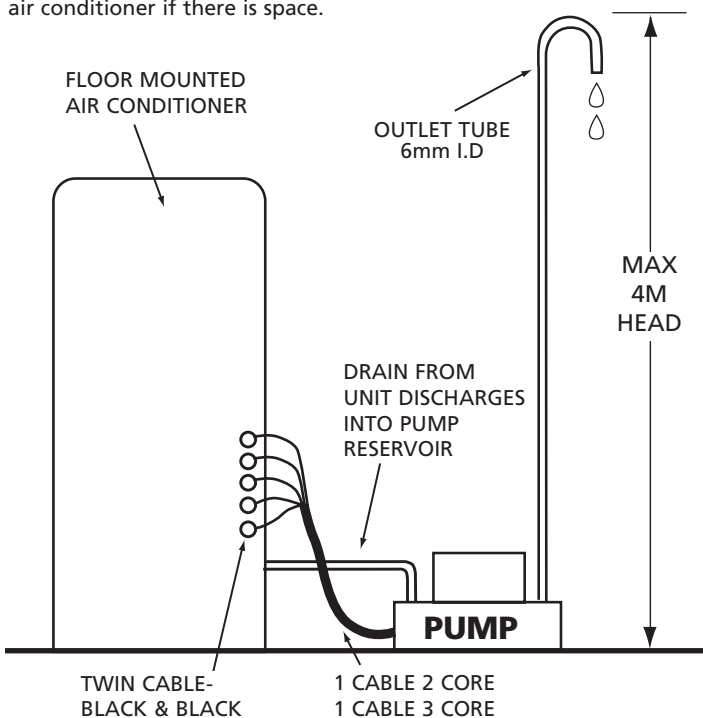
Central air conditioner or cassette (Ceiling void unit)



Example 2:

Floor mounted air conditioner

NOTE: Pump can be fitted inside air conditioner if there is space.



Electrical Connections

to aircon unit power supply:

- Brown**.....Live
- Blue**.....Neutral
- Green/yellow**..... Earth (Ground)

to control circuit:

Black/black twin cable.....High Level switch*

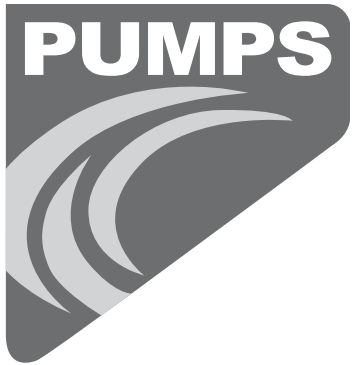
*High level float inside pump will open a normally closed switch across the blue & brown wires (max 4 amps). This can be used to switch the air conditioner off or to bring up an alarm to indicate that the pump has failed.

Control Method

Float level inside the pump reservoir will make the pump operate.

NOTE: DIAGRAMS ARE NOT TO SCALE

ASPEN



Data Sheet

Technical Specification

- 2 metre connecting cable
- Self-priming
- Tank holds 4 litres
- Maximum 6 metres discharge head
- Maximum water pumping capacity 930 litres per hour discharge
- Pump has a pre-wired safety switch. 4.0A max
- Pump rating 0.4A, 100W, 220/240V AC

Electrical Connections

- | | |
|--------------|---------------------|
| Brown | Live |
| Blue | Neutral |
| Green/yellow | Earth |
| 2 x Black | Safety Float Switch |

The Aspen 6 Metre H.D. Tank Pump

Particularly suitable for any condition requiring the rapid removal of condensate or defrost water.

Description

The pump is designed to collect condensated water from Air Conditioning and Refrigeration Plant. The pump is triggered by an internal float switch at a factory set level, and discharge the condensate to a recommended maximum head of 6 meters. The internal low current safety float switch is pre-wired to give a normally closed set of volt free contacts to enable the plant to be switched off or an alarm to be triggered in the event of pump failure.

Dimensions

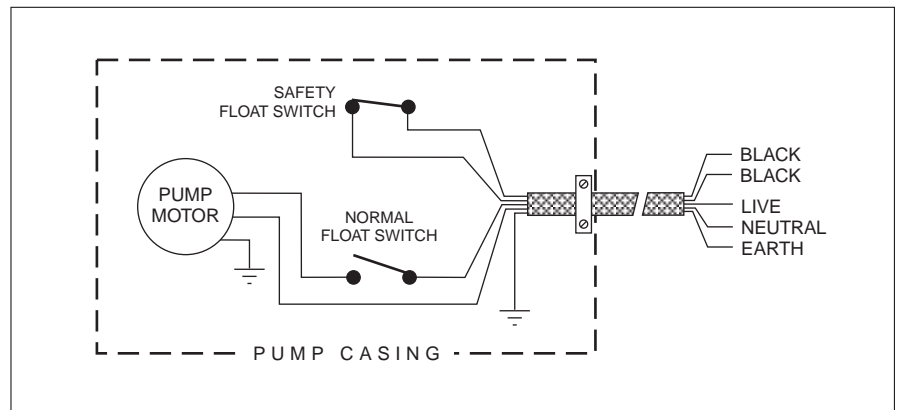
Height: 210mm. Width: 300mm. Depth: 150mm. Weight: 3.5kg

Installation Notes

This pump is designed to sit level on its base.

Ensure that there are no kinks or trapped parts in the discharge piping, which must have an internal diameter of 9mm and be secured to the pump outlet with a pipe clamp.

IMPORTANT: The pre-wired safety switch **MUST ALWAYS** be utilised.



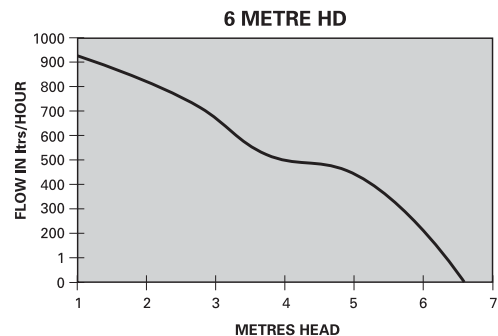
Service Guide

Flush the pump through with an anti-bacterial wash every 6 months to avoid sludge build-up in the pump housing.

NB: The contractors should satisfy themselves that any chemicals used are compatible with the working of the pump.

For further help contact Aspen Pumps.

IMPORTANT: Pump should be filled with water until motor runs, check for leaks and proper discharge of water.

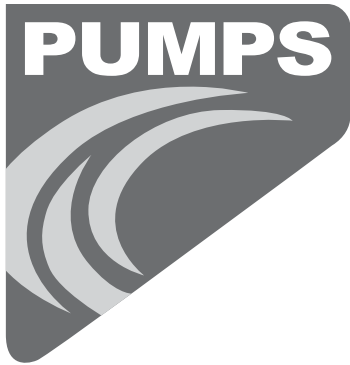


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ASPEN



Data Sheet

Technical Specification

- 2 metre connecting cable
- Self-priming
- Tank holds 4 litres
- Maximum 10 metres discharge head
- Maximum water pumping capacity 1250 litres per hour discharge
- Pump has a pre-wired safety switch. 4.0A max
- Pump rating 0.7A, 175W, 220/240V AC

Electrical Connections

Brown	Live
Blue	Neutral
Green/yellow	Earth
2 x Black	Safety Float Switch

Designed by Engineers
for Engineers

The Aspen 10 Meter H.D. Tank Pump

Particularly suitable for any condition requiring the rapid removal of condensate or defrost water.

Description

The pump is designed to collect condensated water from Air Conditioning and Refrigeration Plant. The pump is triggered by an internal float switch at a factory set level, and discharge the condensate to a recommended maximum head of 10 meters. The internal low current safety float switch is pre-wired to give a normally closed set of volt free contacts to enable the plant to be switched off or an alarm to be triggered in the event of pump failure.

Dimensions

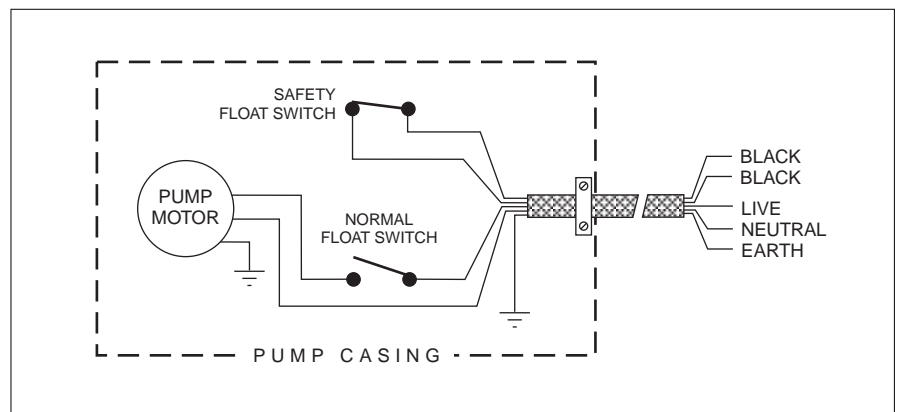
Height: 265mm. Width: 300mm. Depth: 150mm. Weight: 4.3kg.

Installation Notes

This pump is designed to sit level on its base.

Ensure that there are no kinks or trapped parts in the discharge piping, which must have an internal diameter of 9mm and be secured to the pump outlet with a pipe clamp.

IMPORTANT: The pre-wired safety switch **MUST ALWAYS** be utilised.



Service Guide

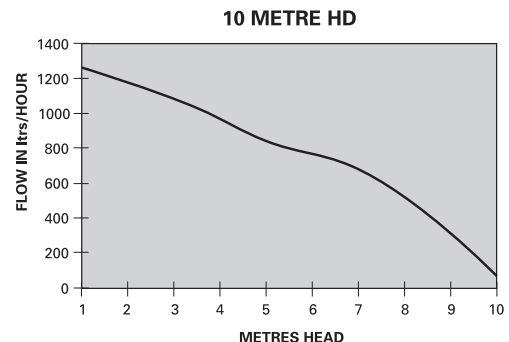
Flush the pump through with an anti-bacterial wash every 6 months to avoid sludge build-up in the pump housing.

NB: The contractors should satisfy themselves that any chemicals used are compatible with the working of the pump.

For further help contact Aspen Pumps.

IMPORTANT:

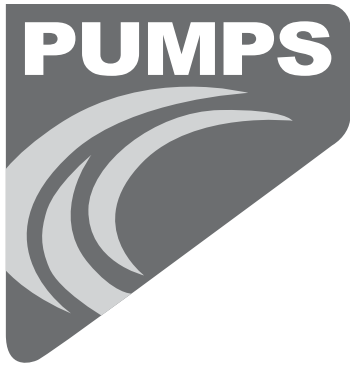
Pump should be filled with water until motor runs, check for leaks and proper discharge of water.



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Data Sheet

Technical Specification

- 2 metre connecting cable
- Self-priming
- Tank holds 4 litre
- Maximum 6 metres discharge head
- Maximum water pumping capacity 900 litres per hour discharge
- Pump has a pre-wired safety switch. 4.0A max
- Pump rating 0.7A, 175W, 220/240V AC

Electrical Connections

Brown	Live
Blue	Neutral
Green/yellow	Earth
2 x Black	Safety Float Switch

Designed by Engineers
for Engineers

The Aspen Economy Hot Water Tank Pump

Suitable for any dehumidifier drain-down applications.

Description

The pump is designed to collect hot water from dehumidifier drain down cycles and the normal condensate from any associated air conditioning or boiler systems and discharge it to a maximum head of 6 metres.

The internal prewired safety float is a low current switch to stop the drain down cycle in the event of pump failure. The pump is operated via two internal float switches.

Dimensions

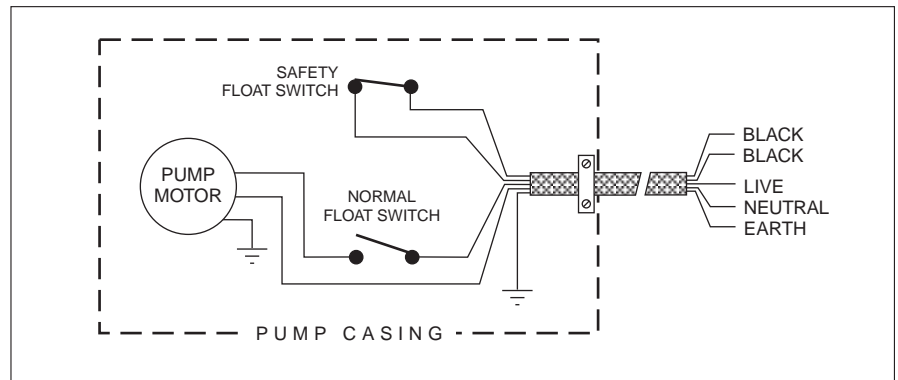
Height: 205mm. Width: 300mm. Depth: 150mm. Weight: 3.6kg.

Installation Notes

This pump is designed to sit level on its base.

Ensure that there are no kinks or trapped parts in the discharge piping, which must have an internal diameter of 9mm and be secured to the pump outlet with a pipe clamp.

IMPORTANT: The pre-wired safety switch **SHOULD ALWAYS** be utilised.

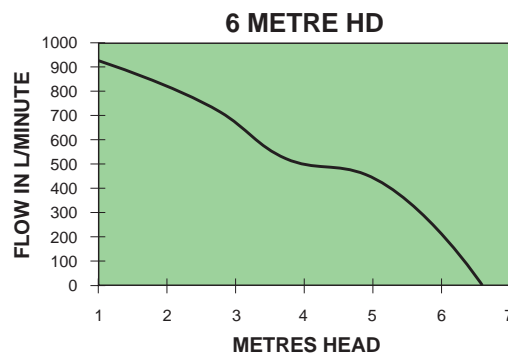


Service Guide

Flush the pump through with an anti-bacterial wash every 6 months to avoid sludge build-up in the pump housing.

NB: The contractors should satisfy themselves that any chemicals used are compatible with the working of the pump.

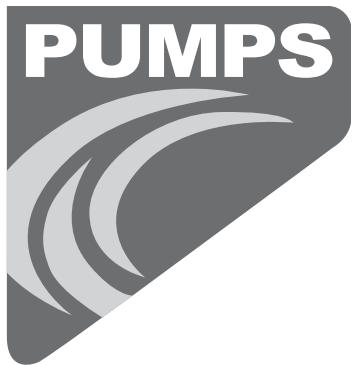
For further help contact Aspen Pumps.



Aspen Pumps

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ASPEN



Data Sheet

Technical Specification

- 2 metre connecting cable
- Pre-wired safety switch
240V, 4A max
- Maximum water pumping capacity 30 litres/minute
- Non-return valve
- Tank holds 5 litres
- Max. discharge head 15 metres

metres

- Pump rating 240V AC, 1.1A full load

Electrical Connections

Brown	Live	
Blue		Neutral
Green/yellow		Earth
2 x Black		Safety Float Switch

Designed by Engineers
for Engineers

The Aspen Stainless Steel Hot Water Tank Pump

Suitable for any dehumidifier drain-down applications

Description

The pump is designed to collect hot water from dehumidifier drain down cycles and the normal condensate from any associated air conditioning or boiler systems and discharges it to a maximum head of 15 metres.

The internal prewired safety float is a low current switch to stop the drain down cycle in the event of pump failure. The pump is operated via an internal float switch.

Dimensions

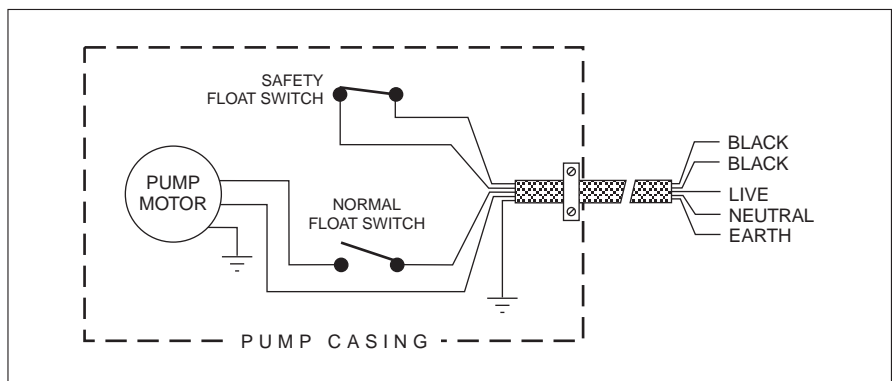
Height: 160mm. Width: 360mm. Depth: 325mm.

Installation Notes

This pump is designed to sit on a level surface.

15mm copper is recommended for the discharge, keeping the number of elbows to a minimum and should be lagged to prevent freezing.

Additional check valves may be required to prevent siphoning if pipework falls away to a lower level.



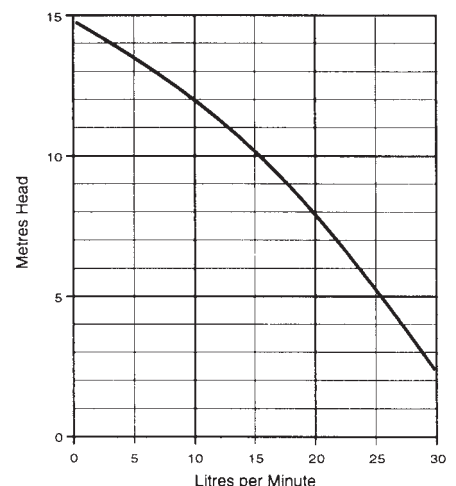
Commissioning the Pump

- 1 Fill the tank with cold water.
- 2 Disconnect the external non-return valve.
- 3 Depress internal non-return to prime pump.
- 4 Reconnect the external non-return valve.
- 5 Connect power supply – pump should run.
- 6 Check the pump switches are OFF when empty.

Service Guide

The pump should be cleaned on a regular basis to remove all scale deposits and ensure free operation of all float switches.

The pump should then be recommissioned with clean cold water.



Aspen Pumps

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