

Notice to Installer: Instructions must remain with installation.

ZT0605_ECa

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0824

Supersedes

0624

60 Hz

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Product information presented here reflects conditions at time of publication. Consult factory regarding discrepancies or inconsistencies.

QWIK DRAIN 105 SYSTEM INSTALLATION INSTRUCTIONS PREINSTALLATION CHECKLIST

1. Inspect your pump. Occasionally, products are damaged during shipment. If the unit is damaged, contact your dealer before using. Do Not remove the test plug in the cover.
2. Carefully read the literature provided to familiarize yourself with specific details regarding installation and use. These materials should be retained for future reference.

 WARNING SEE BELOW FOR LIST OF WARNINGS	 CAUTION SEE BELOW FOR LIST OF CAUTIONS
<ol style="list-style-type: none">1. To reduce the risk of electrical shock, a properly grounded receptacle of grounding type must be installed and protected by a ground fault circuit interrupter (GFCI) and in accordance with local codes.2. Make certain that the receptacle is within the reach of the pump's power supply cord. DO NOT USE AN EXTENSION CORD. Extension cords that are too long or too light do not deliver sufficient voltage to the pump motor and could present a safety hazard if the insulation were to become damaged or the connection end were to fall into the sump.3. Testing for Ground. As a safety measure, each electrical outlet should be checked for ground using an Underwriters Laboratory Listed circuit analyzer which will indicate if the power, neutral and ground wires are correctly connected to your outlet. If they are not, call a qualified electrician.4. FOR YOUR PROTECTION, ALWAYS DISCONNECT THE PUMP FROM ITS POWER SOURCE BEFORE HANDLING. Single phase pumps are supplied with a 3-prong grounded plug to help protect you against the possibility of electrical shock. DO NOT UNDER ANY CIRCUMSTANCES, REMOVE THE GROUND PIN.	<ol style="list-style-type: none">1. Check to be sure your power source is adequate for handling the voltage requirements of the motor, as indicated on the pump or basin plate.2. Make sure the pump electrical supply circuit is equipped with fuses or circuit breakers of proper capacity. A separate branch circuit is recommended, sized according to the current shown on the pump nameplate.3. All plumbing (discharge and vent lines) must be installed to meet local codes. Unit must be vented. Some codes may require this unit to be installed by a qualified licensed plumber. DO NOT USE AN AUTOMATIC PLUMBING VENT DEVICE.4. CHECK VALVE MUST BE USED TO REDUCE UNNECESSARY CYCLING OF PUMP.5. Dewatering pumps are not designed or intended for handling raw sewage.6. Maximum operating temperature must not exceed 82°C.7. For health reasons, do not unplug, turn off, or disable pump and use pump tank system as a way to fill up a sink or laundry tray, etc.
	<p>REFER TO WARRANTY ON PAGE 2.</p>

DO NOT USE FOR PUMPING OILS, GASOLINE OR ANY PETROLEUM BY-PRODUCTS.

Limited Warranty

Manufacturer warrants, to the purchaser and subsequent owner during the warranty period, every new product to be free from defects in material and workmanship under normal use and service, when properly used and maintained, for a period of three years from date of purchase by the end user, that inspections determine to be defective. Proof of purchase is required. Inspections determine to be defective in material or workmanship, will be repaired, replaced or remanufactured at Manufacturer's option, provided however, that by so doing we will not be obligated to replace an entire assembly, the entire mechanism or the complete unit. Fill and flush mechanism are guaranteed as per OEM warranty only and vitreous china are guaranteed only for a factory defect. No allowance will be made for shipping charges, damages, labor or other charges that may occur due to product failure, repair or replacement. This warranty does not apply to and there shall be no warranty for any material or product that has been disassembled without prior approval of Manufacturer, subjected to misuse, misapplication, neglect, alteration, accident or uncontrolled weather event; that has not been installed, operated or maintained in accordance with Manufacturer's installation instructions; that has been exposed to outside substances including but not limited to the following: sand, gravel, cement, mud tar, hydrocarbons, hydrocarbon derivatives (oil, gasoline, solvents, etc.), or other

abrasive or corrosive substances, wash towels or any other abusive entity, etc. in all pumping applications. The warranty set out in the paragraph above is in lieu of all other warranties expressed or implied; and we do not authorize any representative or other person to assume for us any other liability in connection with our products.

Contact authorized distributors to obtain any needed repair or replacement of part(s) or additional information pertaining to our warranty.

MANUFACTURER EXPRESSLY DISCLAIMS LIABILITY FOR SPECIAL, CONSEQUENTIAL OR INCIDENTAL DAMAGES OR BREACH OF EXPRESSED OR IMPLIED WARRANTY; AND ANY IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE AND OF MERCHANTABILITY SHALL BE LIMITED TO THE DURATION OF THE EXPRESSED WARRANTY.

Some jurisdictions do not allow limitations on the duration of an implied warranty, so the above limitation may not apply to you. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from jurisdiction to jurisdiction.

In instances where property damages are incurred as a result of an alleged product failure, the property owner must retain possession of the product for investigation purpose.

Service Checklist



WARNING

ELECTRICAL PRECAUTIONS - Before servicing a pump, always shut off the main power breaker and then unplug the pump - making sure you are not standing in water and wearing insulated protective sole shoes. Under flooded conditions, contact your local electric company or a qualified licensed electrician for disconnecting electrical service prior to pump removal.

Submersible pumps can become pressurized under normal operating conditions - allow 2.5 hours after disconnecting before attempting service.

CONDITION	COMMON CAUSES	REMEDY
A. Pump will not start or run.	Low voltage, blown fuse, open circuit	Have a electrician check house wiring.
	Impeller bound	Contact a Zoeller Distributor.
	Motor or wiring shorted	
	Debris on float switch	Remove debris.
B. Motor overheats and trips overload or blows fuse.	Incorrect voltage, negative head (discharge open lower than normal) impeller or seal bound mechanically, defective capacitor or relay, motor shorted.	Contact a Zoeller Distributor.
C. Pump starts and stops too often.	Float too tight on rod, check valve stuck, or none installed in long distance line, overload open, switch defective.	Contact a Zoeller Distributor.
D. Pump will not shut off.	Debris under float	Remove debris from around float.
	Faulty float switch	Contact a Zoeller Distributor.
E. Pump operates but delivers little or no water.	Debris around intake	Clean area around intake.
	Blockage in discharge pipe	Remove pipe and flush out debris.
	Low or incorrect voltage	Have a electrician check house wiring.
	Damaged Impeller	Contact a Zoeller Distributor.
	Incorrect motor rotation. Capacitor defective. Incoming water containing air or causing air to enter pumping chamber.	Contact a Zoeller Distributor.
	Pump is air locked	Make sure vent hole in discharge pipe is clear.
F. Drop in head and/or capacity after a period of use.	Vertical lift too high	Change discharge piping or Contact a Zoeller Distributor.
	Increased pipe friction, clogged line or check valve. Abrasive material and adverse chemicals could possibly deteriorate impeller and pump housing.	Check line. Remove base and inspect.
G. tank or fittings leak.	The water is leaking from the hose clamps of the soft connector fitting.	Please make sure that the soft connector attach to pipe is deep enough to be more than one hose clamps width, and lock it properly. DO NOT OVER TIGHTEN FITTINGS OR SCREWS.
	Water leaks from the threads of the tank discharge.	Try to tighten a loop again with the appropriate amount of force, if leakage persists, please rewrap the PTFE tape.

If the above checklist does not uncover the problem, consult the factory - Do not attempt to service or otherwise disassemble pump. Service must be by Zoeller Authorized Service Stations.

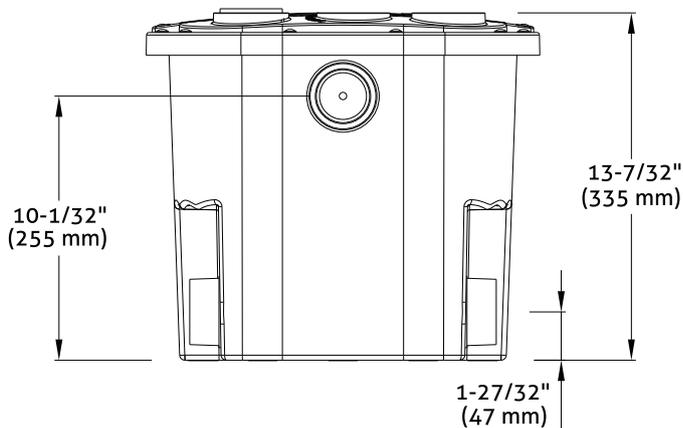
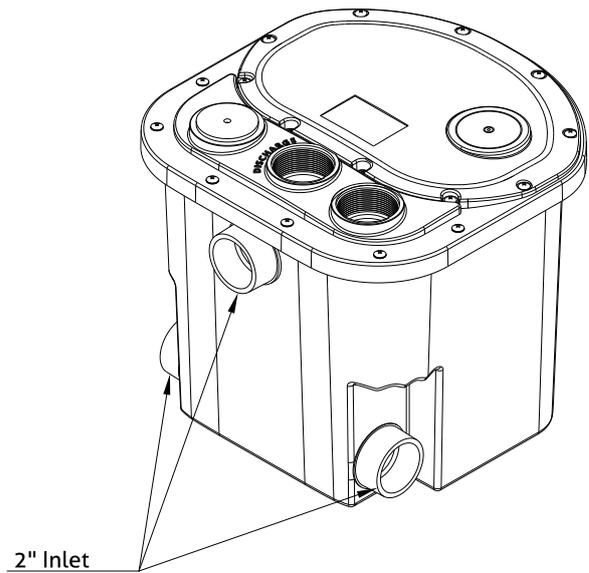
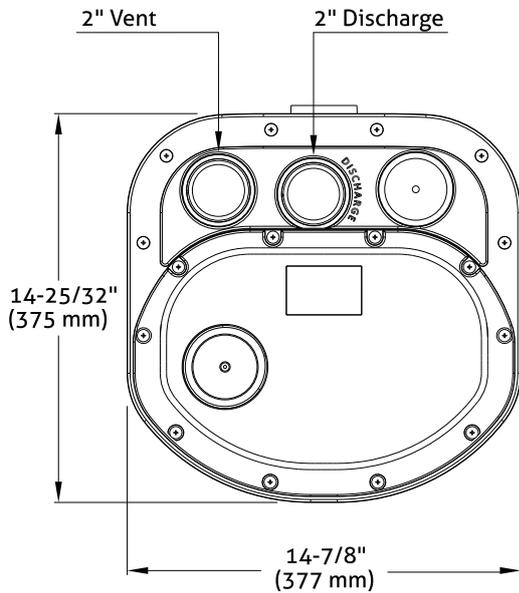
Helpful Hints For Easy Installation

- | | |
|--|---|
| <ol style="list-style-type: none"> 1. Read all instructions before beginning installation. 2. Be certain that basin is on a firm level surface. 3. Do not use an automatic plumbing vent device. 4. Always use a check valve on the discharge line. 5. Test operation of pump per STEP 3. | <ol style="list-style-type: none"> 6. Always provide some means to disconnect basin from plumbing for maintenance purposes. 7. Run unit at least once a month to verify proper operation. 8. The model number and date code can be found on the lid warning label. 9. Plug pump into a properly grounded GFCI receptacle. |
|--|---|

Do's And Don't's For Installing A Unit

- | | |
|---|---|
| <ol style="list-style-type: none"> 1. DO read all installation material included with the pump. 2. DO inspect unit for any visible damage caused by shipping. Contact dealer if unit appears to be damaged. 3. DO always disconnect pump from power source before handling. DO always connect to a separately protected and properly grounded ground fault protected circuit. DO NOT ever cut, splice or damage power cord. DO NOT carry or lift pump by its power cord. DO NOT use an extension cord. | <ol style="list-style-type: none"> 4. DO NOT use a discharge pipe smaller than the pump discharge size. 5. DO test pump immediately after installation to be sure that the system is working properly. 6. DO review all applicable local and national codes and verify that the installation conforms to each of them. |
|---|---|

Dimensions



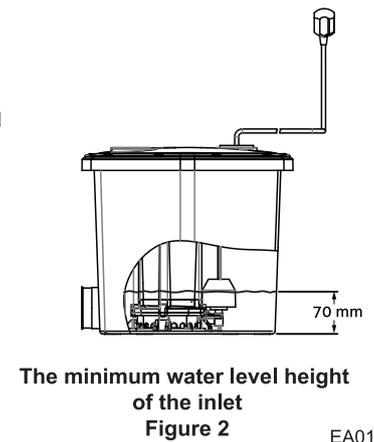
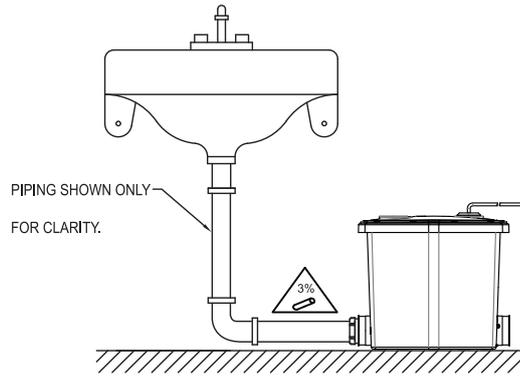
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STEP 1

Determine Installation Configuration

NOTE: This preassembled unit is designed for use with an external trap.

Figure 1 is a typical configuration for installation of the drain system. The actual configuration will vary depending on your cabinet and sink configuration.



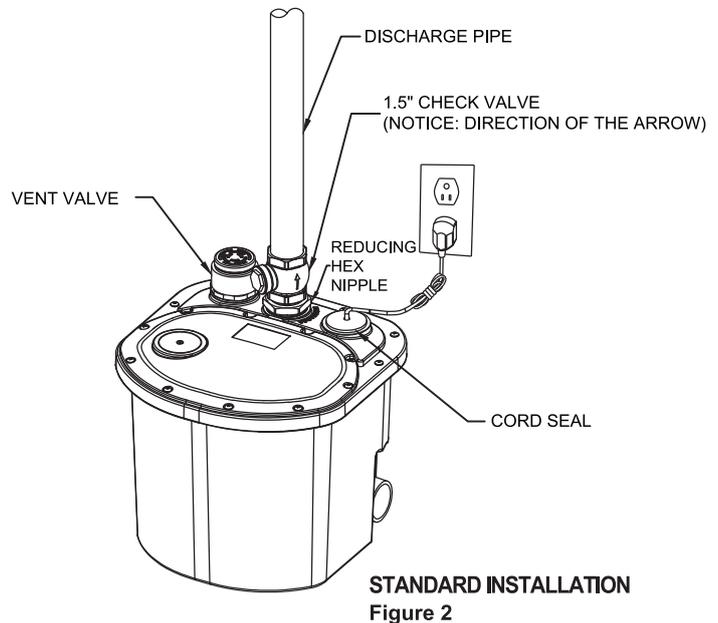
STEP 2

Final Assembly

NOTE: External plumbing configuration will vary depending on the location of basin, location of main stack and available space.

*CPVC adhesive should be used for external plumbing.

Place the basin assembly in its final position and complete plumbing. Secure all connections shown in Figure 2.



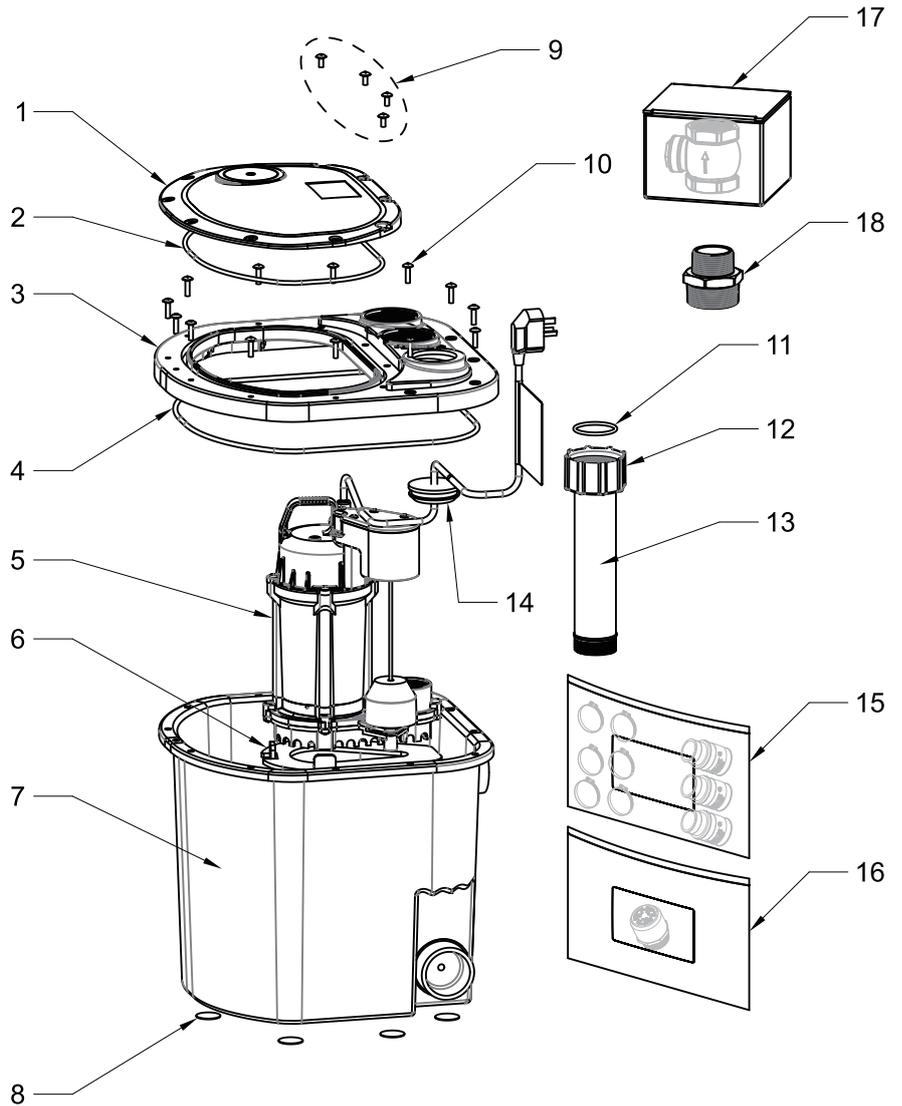
STEP 3

Initial Testing of Drain Basin System

1. Plug the cord into a properly grounded GFCI receptacle.
2. Fill the basin with 7.5 - 11 liters of water and let sit for 3 - 4 minutes to enable the environmentally safe peanuts to begin dissolving.
3. Slowly fill the basin with water.
4. Check all plumbing for leaks as the basin fills.
5. Verify that the pump starts and stops.
6. Check the discharge line for leaks as the pump empties the basin.
7. Repeat steps 2 through 6 as necessary to ensure proper operation.
8. If problems persist, refer to the troubleshooting guide located on page 2 of this manual.

Illustrated Parts Breakdown

MODEL 105		
ITEM	DESCRIPTION	QTY
1	Access-lid	1
2	Access-lid O-Ring	1
3	Basin-Lid	1
4	Basin-Lid O-Ring	1
5	Replacement Pump	1
6	Bottom Gasket	1
7	Basin	1
8	Foot Pad	7
9	Serew S.S.(black)	4
10	Serew S.S.	13
11	O-Ring	1
12	Pipe Nut	1
13	Pipe	1
14	Cord Seal	1
15	Soft Connector Kit	1
	Soft Connector	3
	Hose Clamps S.S.	6
16	Vent Valve	1
17	Check Valve	1
18	Reducing Hex Nipple	1

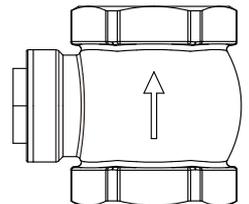
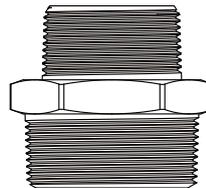
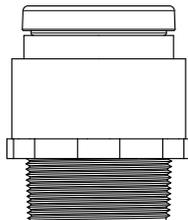
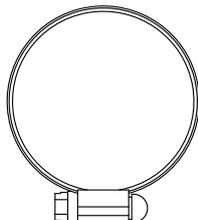
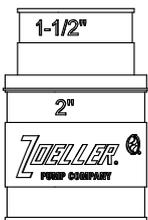


* This is a standard part of a specific model, please refer to the replacement list for details.

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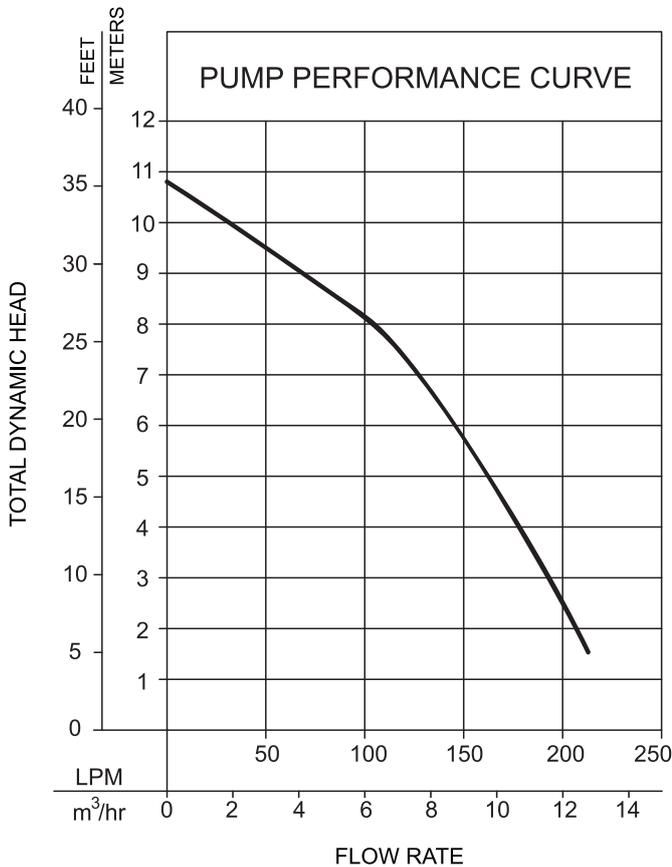
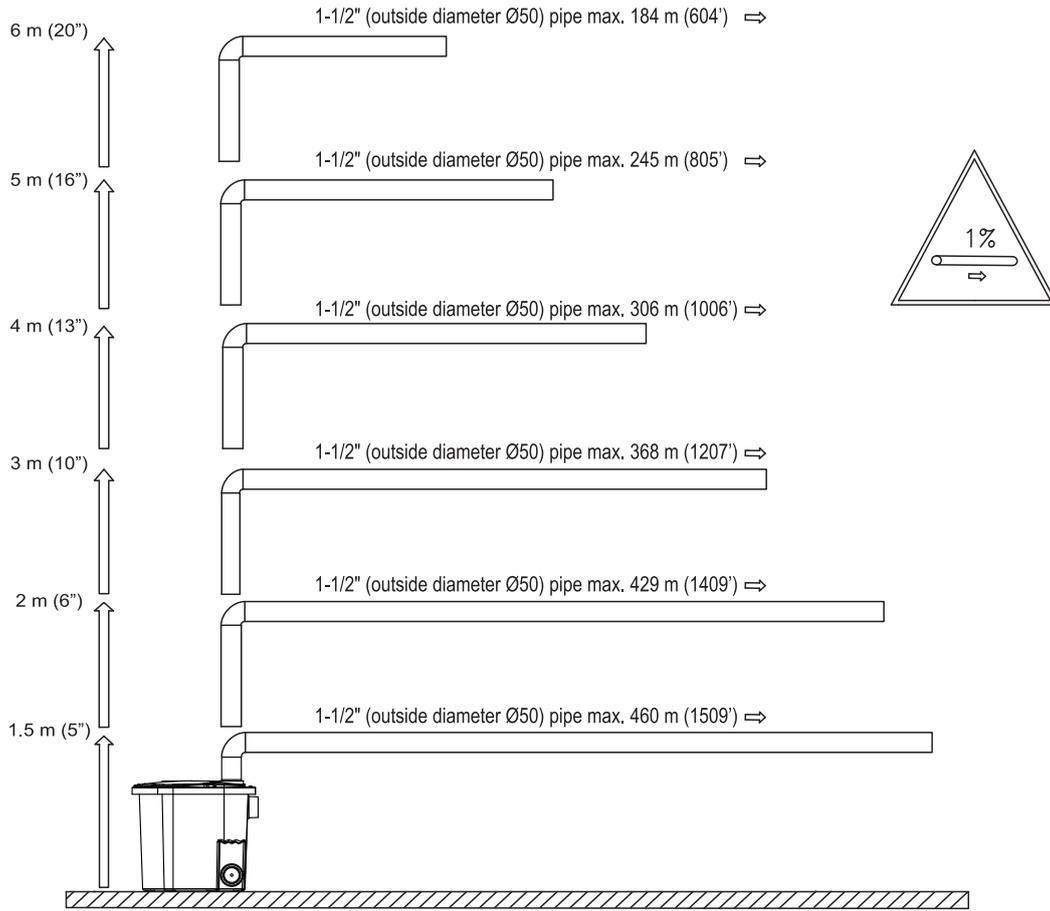
Accessories Description

Soft connector x 3 Hose Clamps S.S.x 6 Vent Valve x 1 Reducing Hex Nipple x 1 1.5" Check Valve x 1



EA0183

Pump Performance



TOTAL DYNAMIC HEAD/FLOW			
MODEL 105		115 V / 60 Hz	
Meters	Feet	m³/hr	Liters/min
1.5	5	12.8	213.2
3.0	10	11.5	192.2
4.6	15	10.1	168.4
6.1	20	8.6	143.1
7.6	25	6.8	113.5
9.1	30	3.8	63.0
Shut-off Head:		10.8 m (35.3 ft)	

085573

安裝前務必詳讀說明書

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文件僅供參考
若有任何修改
恕不另行通知

請至美國卓勒泵浦公司
官網完成您的產品註冊



60 Hz

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www.zoellerpumps.com

安裝說明書 QWIK DRAIN 105

安裝前檢查

1. 安裝前請仔細檢查所有零件。產品如果在運送中受損，請儘速聯絡經銷商。
2. 安裝前仔細閱讀所有提供的文件，熟悉安裝細節，並保存資料以供未來參考。

 警告	 注意
<ol style="list-style-type: none">1. 為防範使用者觸電，本公司所有產品皆配有包含接地功能的電線及三插插頭。為確保安全，請勿將插頭的接地插銷拔除，並確認將插頭插入符合國內電工法規的漏電保護插座。2. 為確保安全請勿使用延長線。加裝延長線容易使泵浦馬達接收不到足夠的電壓。更重要的是，若延長線的絕緣遭破壞、或插頭鬆脫掉入水中，將可能造成危險。3. 請在安裝前測試插座的接地功能。為了安全考量，請使用符合國內電工法規的電路測試儀器來檢查插座中的火線、中性線及地線是否配置正確。若發現異常，請聯絡合格的水電技師來為您解決問題。4. 為保護安裝者，處理前請切斷泵浦電源。若泵浦電線直接連結至電源線路，切斷控制盒的電路。泵浦由具有三叉的插頭接地，以防止觸電危險。 任何情況下均不得拔除接地接腳。為防止電擊危險，須安裝適當接地的接地型插座，並依國內電工法規及相關規定，以接地漏電電流斷路器保護。5. 僅得由有執照的合格電氣技師進行安裝及檢查電路和硬體。	<ol style="list-style-type: none">1. 確認電力足以供應泵浦或識別標籤上所示的所需馬達電流量。2. 請確認在供給泵浦電源的電路中加裝適當規格的保險絲或斷路器。在此建議依照泵浦銘牌上的電流值，並參照國內電工法則來選擇及安裝獨立的斷路器。3. 須依當地法令規章安裝所有的管道(排放管及通氣管)。裝置必須有通氣設備，勿使用自動管路通氣設備。4. 必須安裝止回閥，減少泵浦不必要的循環運轉。5. 本產品非設計於處理污物排除。6. 最高操作溫度不得超過攝氏82度。7. 基於衛生考量，在泵浦斷電、關閉或無法作用後，請勿持續注水灌滿水槽。此非灌滿水槽的適當方式。 <p>保固請參閱第2頁。</p>

請勿使用於油類、汽油、石油產品或含任何化學成分的液體。

保固說明

製造商在保修期內向購買者和隨後擁有者的保證，每個新產品不會有材料或工藝的瑕疵，在正常使用和維護的情況下，本產品的保固為自購買日起算的三年。需具備購買證明。在保修期內出現故障的零件，經查驗若產品的缺陷是由材料或製造過程造成，本公司將負責維修或更換。本公司保留決定是否維修或更換產品、零件或配件的權利。馬桶水箱注水、沖水機制受原廠保固，而馬桶陶瓷保固僅限於工廠瑕疵。維修或更換期間買方所產生的費用或損失不在保固範圍內。對於因產品故障、維修或更換而可能產生的運費、損壞、人工費或其他費用，我們將不予授予。

保固不適用於：

- (1) 未依照說明書安裝、操作或維護所造成的故障或損壞。
- (2) 不當操作、意外或疏忽所造成故障或損壞。
- (3) 加裝不屬於本產品的零、配件。

(4) 未依照當地法規進行安裝所造成的危害。

(5) 將產品用在非原本設計的用途上所造成的損壞。(例：抽取沙、碎石、水泥、泥巴、瀝青、碳氫化合物及其衍生物、汽油、化學溶劑或其他有腐蝕性的液體、毛巾、女性衛生用品等。)

保固零、配件的退回：在本保固下任何修理或更換需送回本公司或其他本公司所指定的維修服務點，運費需自付。在任何情況下本公司不負擔其他責任，包含資產或設備的損壞、利潤損失、等.....。

上述為本產品唯一的保固說明，任何人的修改或另做承諾皆為無效。

在因涉嫌產品故障而招致損害的情況下，財產擁有人必須保留該產品以供調查之用。

檢查清單



警告

在維修泵浦之前，須關閉總電源斷路器，拔除泵浦插頭——確保人未站在水中，且穿上絕緣保護底的鞋子。在淹水狀況下，聯絡當地的電力公司，或有執照的合格電氣技師，在移除管之前進行斷電。本泵浦含冷卻油，在運作狀態下會受壓變熱——斷電后等待2.5小時再進行維修。如果以下檢查點都無法排除問題，請與本公司連絡，不要嘗試維修或拆除泵浦及其他零件。

異常狀況	可能原因	補救措施
A. 泵浦未開始運作。	低電壓、保險絲燒斷、電路中斷。	由合格電氣技師檢查保險絲和電路。
	葉輪卡住。	聯絡經銷商。
	馬達或電線短路。	
	浮子開關上有雜物。	去除雜物
B. 馬達過熱造成跳電或保險絲燒斷。	電壓錯誤、負揚程(出水口高度低於泵浦)、葉輪或軸封卡死、電容器、繼電器或馬達短路。	聯絡經銷商。
C. 泵浦啟動停止次數太頻繁。	止回閥阻塞、無止回閥、熱過載保護器啟動或浮子有瑕疵。	聯絡經銷商。
D. 泵浦不停止。	浮子下方有雜物。	去除浮子周圍的雜物。
	浮子開關故障。	聯絡經銷商。
E. 泵浦運轉正常，但抽不到水或水流量太少。	進水口周圍有雜物。	清理進水口附近區域。
	排放管堵塞。	必要時卸除排放管，沖走雜物。
	電壓太低或不當電壓。	由合格電氣技師檢查家庭管線。
	葉輪受損。	聯絡經銷商。
	馬達運轉不當、電容器瑕疵、入水含空氣或造成空氣進入水機室。	聯絡經銷商。
	泵浦氣鎖。	確保排放管中的通氣孔暢通。
F. 揚程或流量使用一般時間後降低。	安裝揚程超過系統設計的揚程。	更換排放管或聯絡經銷商。
	管路或止回閥阻塞。磨蝕性物質及有害的化學物質造成葉輪及水機損壞。	檢查管路、打開並檢查水機。
G. 桶槽或配件漏水。	軟管配件的鐵束處漏水。	請確認軟管對接深度足夠一個鐵束寬度以上，並適當的鎖緊，切勿過度施力鎖的太緊。
	桶身出水口螺紋處漏水。	請嘗試以適當力度再鎖緊一圈，如持續滲漏，請重新纏繞鐵氟龍膠帶。

如果檢查后仍無法排除問題，請與經銷商連絡，切勿自行拆卸泵浦。

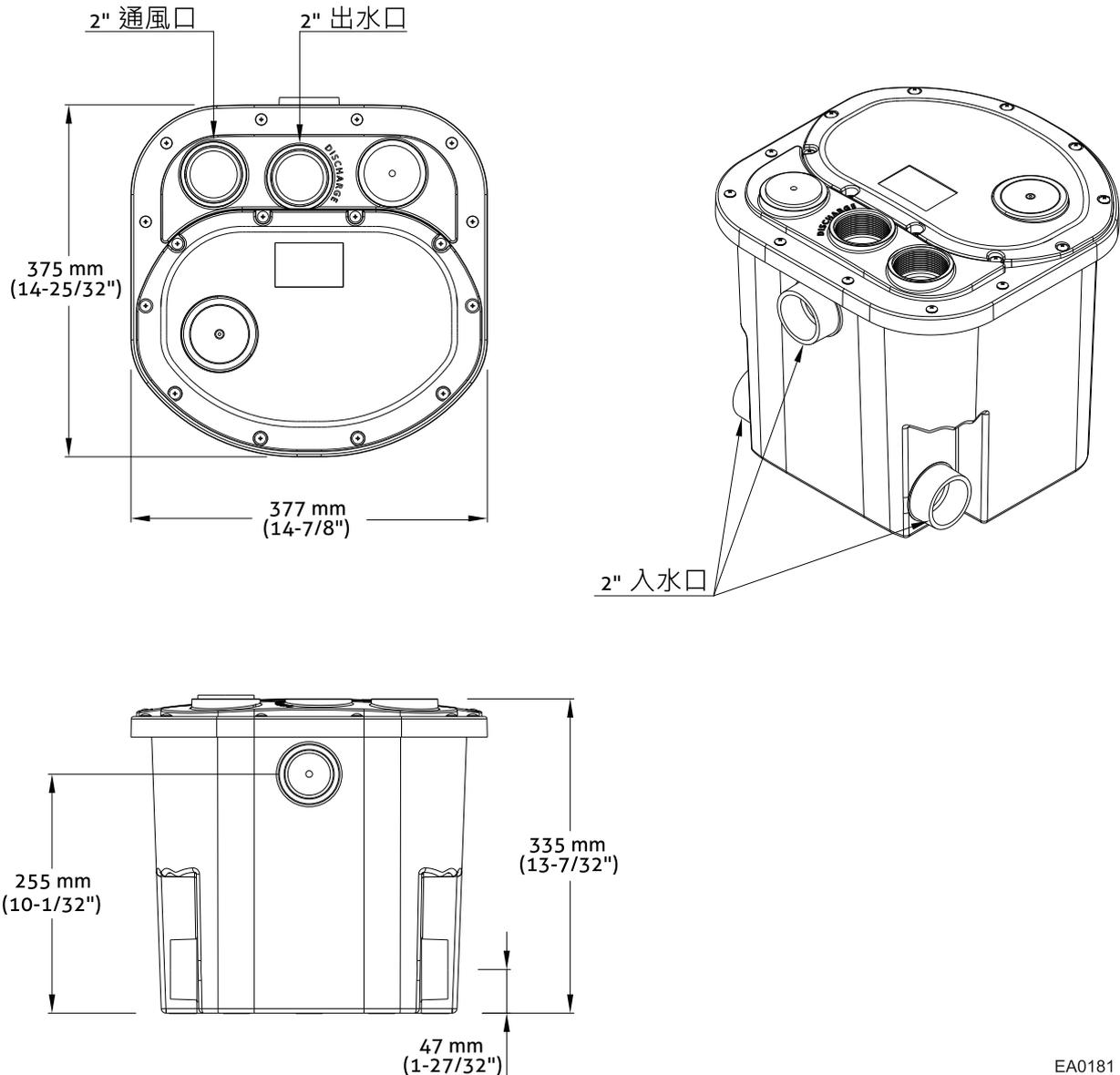
輕鬆安裝的要訣

1. 安裝前閱讀所有指示。
2. 確保安裝地面平坦。
3. 請避免使用自動管道通氣設備。
4. 出水口管路上必須安裝止回閥。
5. 依下列安裝步驟 3 完成泵浦測試。
6. 活動式配管以確保日后維修時方便拆除。
7. 務必至少一個月確認泵浦有正常運轉一次。
8. 型號及日期碼標籤貼於桶身。
9. 確保插座有電源斷路器設計。

安裝注意事項

1. 請務必閱讀本裝置之所有安裝資料。
2. 請務必檢查裝置是否在運送中產生可見的損壞。若裝置顯示受損，請洽經銷商。
3. 處理前切斷泵浦電源。連結到獨立受保護的接地漏電電流斷路器。請勿切斷、拼接或損壞電源線。請勿用電源線拉動或舉起泵浦。請勿使用延長線。
4. 切勿使用小於出水口徑尺寸的水管安裝。
5. 請務必在安裝後立即測試泵浦，以確認系統正常運作。
6. 請務必詳閱所有適用當地及國家規則，確認安裝符合各項規定。

尺寸圖



EA0181

步驟 1

安裝步驟

注意：預組式產品限用于彎管側接入水。

圖1為污水提升器標準式安裝，僅供參考，
實際安裝仍需依洗手台等現場為主調整。

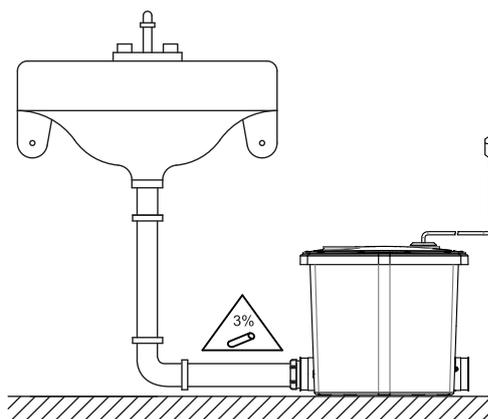


圖 1
標準安裝

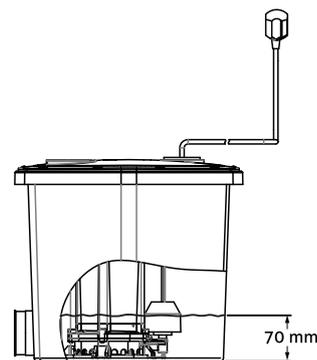


圖 2
入水口最低水位高度

EA0182

步驟 2

組裝圖示

注意：實際外部管路結構，依現
場空間大小與本產品相對位置而定。

*外部接管須使用CPVC專用膠水。

將圖2 組裝定位並完成接管，確認所有連接處鎖緊。

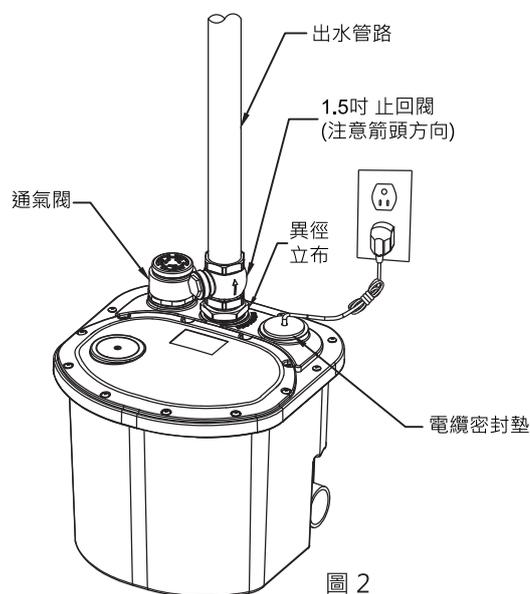


圖 2
標準安裝

EA0178

步驟 3

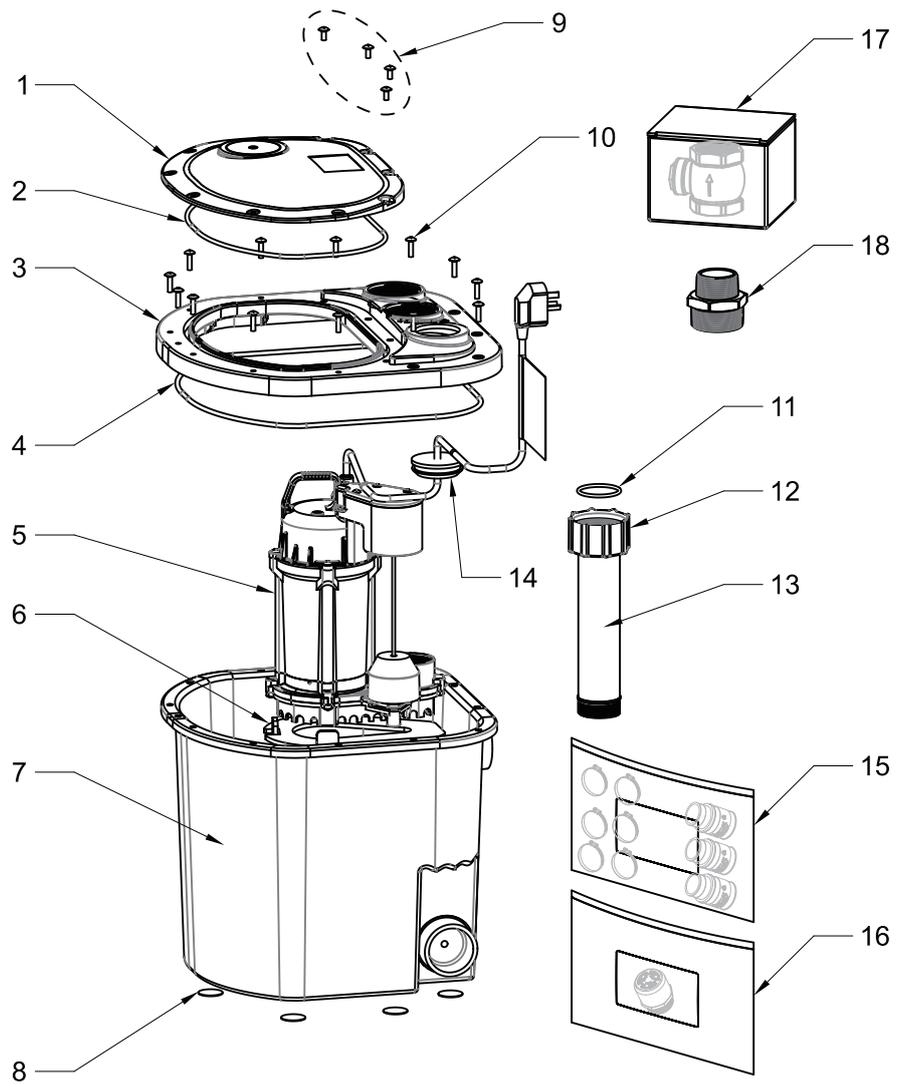
首次啟用測試步驟

1. 插頭插入電源斷路器插座。
2. 加入7.5-11公升的水后，靜置3-4分鐘。
3. 慢慢再加入水。
4. 檢查所有管路在注水時是否會漏水。
5. 確認泵浦正常啟動和停止運作。
6. 檢查泵浦運作時出水管是否漏水。
7. 視情況重覆要點2-6的步驟，以確保安裝無誤。
8. 如有發生問題，請參照第2頁異狀排除指示操作。

零件分解圖示

105 型		
項目	品名	數量
1	檢修蓋	1
2	檢修蓋密封圈	1
3	桶蓋	1
4	桶蓋密封圈	1
5	泵浦本體	1
6	泵浦固定墊	1
7	桶身	1
8	止滑墊	7
9	染黑不鏽鋼螺絲	4
10	不鏽鋼螺絲	13
11	出水管密封圈	1
12	出水管螺母	1
13	出水管	1
14	電纜線密封圈	1
15	軟管配件包	1
	軟管	3
	白鐵管束	6
16	通氣閥	1
17	止迴閥	1
18	異徑立布	1

* 此為特定型號的標準配件，詳情請參閱更換清單。



EA0180

配件說明

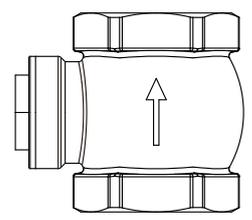
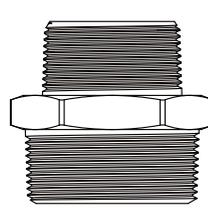
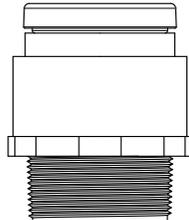
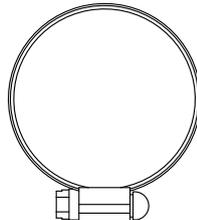
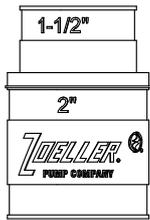
軟管 x 3

白鐵管束 x 6

通氣閥 x 1

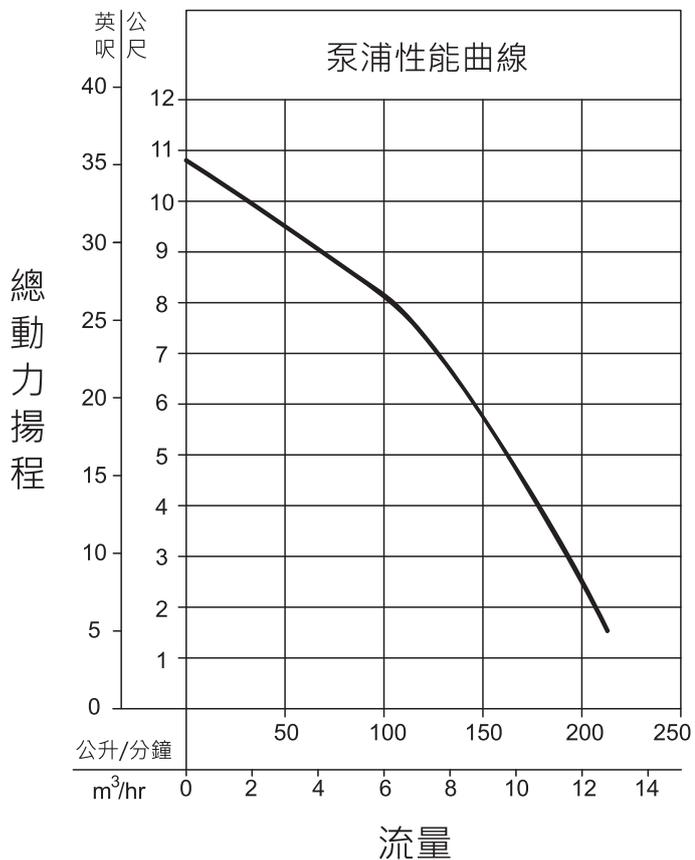
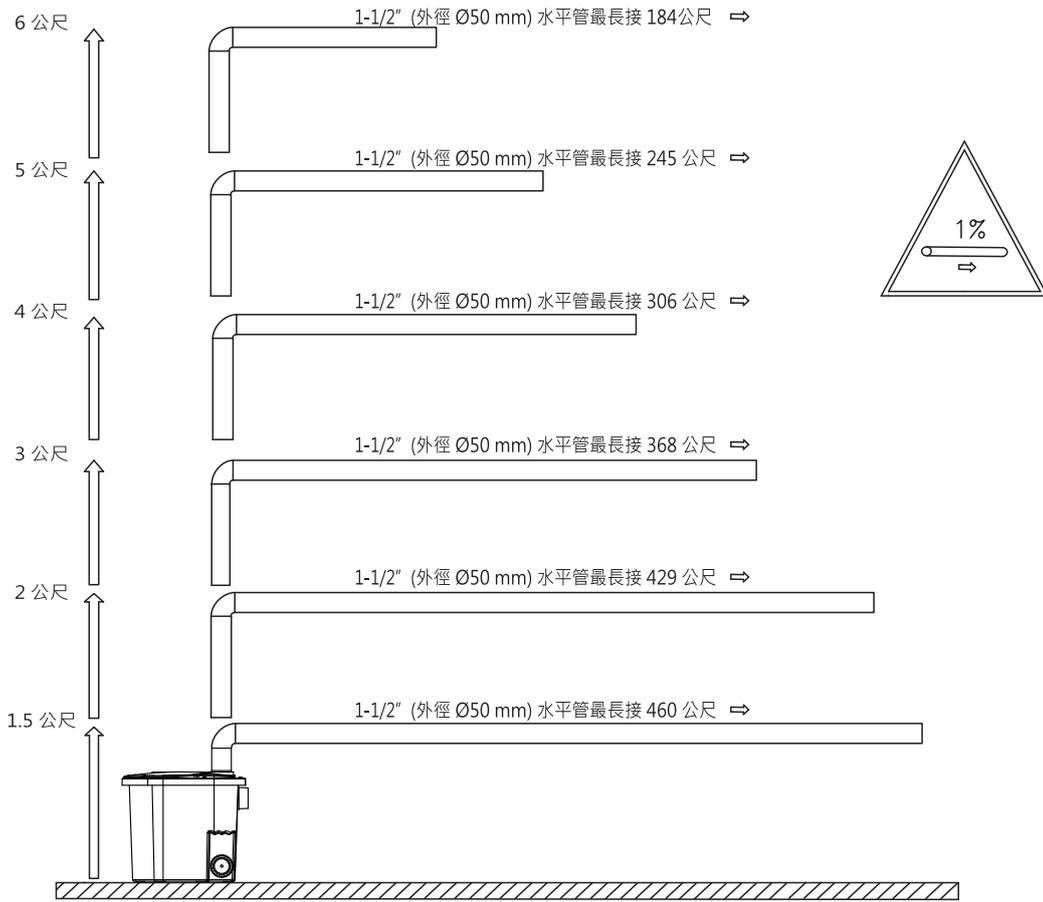
異徑立布 x 1

1.5" 止回閥 x 1



EA0183

泵浦性能



總動力揚程/流量			
105 型		115 V / 60 Hz	
公尺	英尺	m³/hr	LPM
1.5	5	12.8	213.2
3.0	10	11.5	192.2
4.6	15	10.1	168.4
6.1	20	8.6	143.1
7.6	25	6.8	113.5
9.1	30	3.8	63.0
全閉揚程:		10.8 m (35.3 ft)	

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