

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

Patent Pending



PUMP COMPANY

Zoeller Family of Water Solutions™

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50/60Hz

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**QWIK JON® ULTIMA 204 SYSTEMS
 INSTALLATION INSTRUCTIONS
 PREINSTALLATION CHECKLIST**

MODEL NO. _____
 DATE CODE: _____
 DATE INSTALLED: _____



PREINSTALLATION CHECKLIST - ALL INSTALLATIONS

1. Inspect all materials. Occasionally, products are damaged during shipment. If the unit is damaged, contact your dealer before using. **DO NOT** remove the test/oil fill plugs from the pump.
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

1. **Make sure there is a properly grounded receptacle available.** All pumps are furnished with provisions for proper grounding to protect you against the possibility of electrical shock. **(SEE WARNING BELOW)**
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. But, more important, they could present a safety hazard if the insulation were to become damaged or the connection end were to fall into the sump.
3. 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 governing electrical code for the current shown on the pump nameplate.
4. **Testing for ground.** As a safety measure, each electrical outlet should be checked for ground using a 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 licensed electrician.
5. **For Added Safety.** Use of a residual current device with an operating current not higher than 30 mA is recommended.
6. **FOR YOUR PROTECTION, ALWAYS DISCONNECT THE PUMP FROM ITS POWER SOURCE BEFORE HANDLING. DO NOT UNDER ANY CIRCUMSTANCES REMOVE THE GROUND PIN.** The 3-prong plug must be inserted into a mating 3-prong grounded receptacle. If the installation does not have such a receptacle, it must be changed to the proper type, wired and grounded in accordance with the governing electrical code and all applicable local codes and ordinances.
7. **Risk of electrical shock.** Do not remove power supply cord and strain relief or connect conduit directly to the pump.
8. Installation and servicing of electrical circuits and hardware should be performed by a qualified licensed electrician.
9. Pump installation and servicing should be performed by a qualified person.
10. **Risk of electrical shock.** These pumps have not been investigated for use in swimming pools and marine areas.
11. If the supply cable is damaged, it must be replaced by the manufacturer or its technical service or similarly qualified persons in order to avoid a hazard.

SAFETY INSTRUCTIONS

TO AVOID SERIOUS OR FATAL PERSONAL INJURY OR MAJOR PROPERTY DAMAGE, READ AND FOLLOW ALL SAFETY INSTRUCTIONS IN THIS MANUAL AND ON THE PUMP.

THIS MANUAL IS INTENDED TO ASSIST IN THE INSTALLATION AND OPERATION OF THIS UNIT AND MUST BE KEPT WITH THE PUMP.



This is a **SAFETY ALERT SYMBOL**. When you see this symbol on the pump or in the manual, look for one of the following signal words and be alert to the potential for personal injury or property damage.



WARNING Warns of hazards that **CAN** cause serious personal injury, death or major property damage.



CAUTION Warns of hazards that **CAN** cause personal injury or property damage.



Warns of electrical shock hazards that can cause serious personal injury, death or major property damage.



Identifies any terminal with is intended for connection to and external conductor for protection against electrical shock in case of a fault, or the terminal of a protective earth (ground) electrode.



Read operator's manual.

THOROUGHLY REVIEW ALL INSTRUCTIONS AND WARNINGS PRIOR TO PERFORMING ANY WORK ON THIS PUMP. MAINTAIN ALL SAFETY DECALS.

REFER TO CAUTIONS AND WARRANTY ON PAGE 2.

CAUTION

SEE BELOW FOR LIST OF CAUTIONS

1. The Qwik Jon® Ultima is fitted with a specially-designed grinder pump and is capable of pumping fecal matter, toilet paper and sanitary articles which may be accidentally dropped into the toilet. It is not recommended to flush such foreign objects as they might clog the sanitary sewer.
2. **Risk of injury.** Cutter system located on intake of the pump is sharp. Keep hands and fingers clear.
3. Check to be sure your power source is adequate to handle the amperage requirements of the motor as indicated on the pump or unit I.D. tag.
4. All plumbing (discharge and vent lines) must be installed to meet governing codes. **Unit must be vented. Do not use an automatic plumbing vent device.**
5. Maximum operating liquid temperature must not exceed 54°C (130°F).
6. Do not use cleaning products containing bleach in the toilet tank, toilet or attached fixtures as they will degrade the pump seals.
7. **Risk of explosion.** Do not use the pump for flammable liquids, such as diesel oil, petrol or similar liquids.
8. The appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

CAUTIONS, *continued*

9. **Risk of burn.** Pump contains oil which becomes pressurized and hot when operating. Allow 2½ hours after disconnecting before attempting service.
10. Pump is not intended for potable water due to possible contamination by oil contained in the pump.

NOTES

SEE BELOW FOR LIST OF NOTES

1. Repair and service should be performed by an Authorized Service Station only (consult factory).
2. Recommended for installations up to 6.1 m (20') total dynamic head. Consult factory if installation is above 4.6 m (15') vertical height in DN25 (1") pipe. Mini-Grinder Pump is designed for use in Qwik Jon® Ultima units only. It is not designed for use in any other application.
3. Pumps with the "UL" mark and/or the "US" mark are tested to UL Standard UL778. CSA Certified pumps are certified to CSA Standard C22.2 No. 108. Qwik Jon® Ultima units only. It is not designed for use in any other application.
4. All fixtures connecting to the system must be on the same floor level.

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 one year from date of purchase by the end user, or 18 months from date of original manufacture of the product, whichever comes first. Parts that fail within the warranty period, one year from date of purchase by the end user, or 18 months from the date of original manufacture of the product, whichever comes first, that 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. 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 uncontrollable act of nature; 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 feminine sanitary products, 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 Manufacturer at, 3649 Cane Run Road, Louisville, Kentucky USA 40211, Attention: Product Support Department 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 jurisdictions to jurisdictions.

HELPFUL HINTS FOR EASY INSTALLATION

1. Read all instructions before beginning installation.
2. Be sure the floor is level within 3 mm (1/8").
3. Install vent pipe seals with flange side of seal on outside of lid.
4. Use soapy water to lubricate all seals to aid installation.
5. Install rubber coupling/union in vent line to aid disassembly.
6. Do not over-torque toilet mounting screws.
7. Do not use an automatic plumbing vent device.
8. Obtain model number and date code, and record information in the space provided on the front of this manual. Refer to this information when calling the factory.

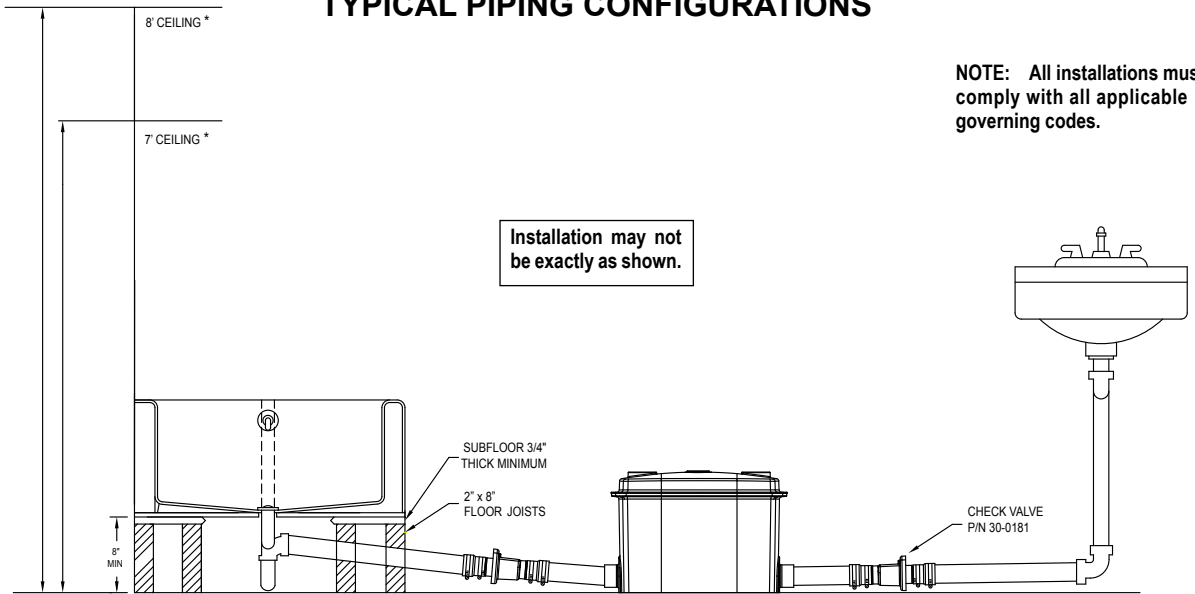
DO'S AND DON'T'S FOR INSTALLING UNIT

1. DO read all installation material with the unit.
2. DO inspect unit for any visible damage caused by shipping. Contact dealer if unit appears to be damaged.

DO'S AND DON'T'S, *continued*

3. DO clean all visible debris from the unit.
4. 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.
5. DO install a ball or gate valve and a union in the discharge line downstream of the check valve.
6. DO test pump immediately after installation to be sure that the system is working properly.
7. DO review all applicable governing codes and verify that the installation conforms to each of them.
8. We DO NOT recommend this product be connected to utilities other than those found in a normal bathroom application. Washing machines and dishwashers are examples of equipment that we DO NOT recommend.
9. DO inspect and test system for proper operations at least every 3 months.

TYPICAL PIPING CONFIGURATIONS



NOTE: All installations must comply with all applicable governing codes.

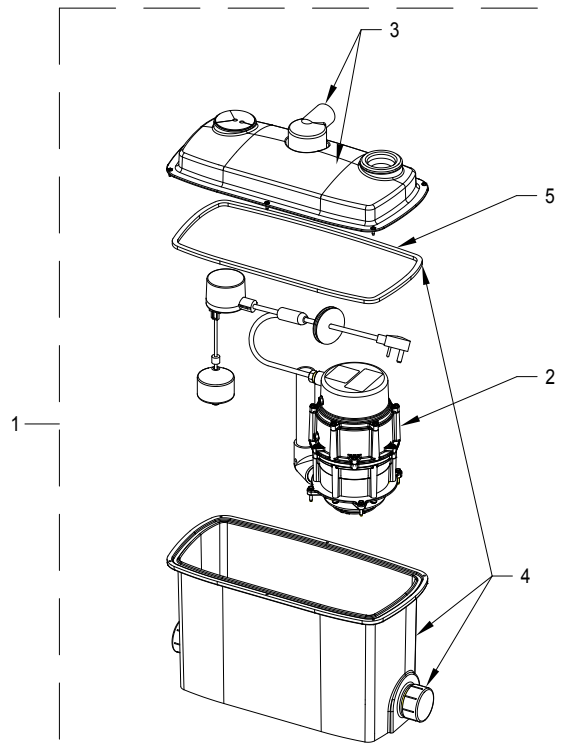
Installation may not be exactly as shown.

* Ceiling heights shown for reference only.

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SERVICE PARTS

QWIK JON® ULTIMA 204		204-A (NO PLUG)	204-A (G PLUG)	204-A (E/F PLUG)	204-A (E/F PLUG)
		50 Hz	50 Hz	60 Hz	50 Hz
		2/12 thru Current	3/12 thru Current	10/11 thru Current	3/12 thru Current
Item	Description	Part Numbers			
1	Qwik Jon® Ultima Model 204 System	204-1001	204-1002	204-1005	204-1003
2	204 replacement pump w/ discharge pipe	150872	151965	151895	151966
3	Tank cover with discharge fitting	017373	017373	017373	017373
4	Tank	018534	018534	018534	018534
5	Seal	017350	017350	017350	017350



SK2907

TROUBLE SHOOTING

CONDITION	POSSIBLE CAUSE	REMEDY
A. PUMP WILL NOT START OR RUN.	Low voltage, blown fuse, open circuit.	Have a qualified electrician check fuse and circuit.
	Impeller bound.	Contact a Zoeller Service Station.
	Motor or wiring shorted.	
	Debris on float switch.	Remove debris.
B. PUMP STARTS TOO SOON.	Float "ON" point is adjusted too low.	Raise the float stops, make sure the float is between the two stops.
C. WATER LEVEL EXCESSIVE BEFORE PUMP TURNS ON.	Float "ON" point adjusted too high.	Lower the upper float stop.
D. PUMP WILL NOT SHUT OFF OR RUNS TOO LONG BEFORE WATER IS PUMPED.	Pump not plugged into piggyback float switch receptacle.	Ensure pump is not plugged directly into the outlet. Plug pump into piggyback float switch receptacle.
	Debris under float.	Remove debris from around float.
	Faulty float switch.	Contact a Zoeller Service Station.
	Float "Off" point adjusted too low.	Raise the lower float stop.
	Pump is air locked.	Make sure vent hole in discharge pipe is clear.
	Water level too low.	Raise the lower float stop.
	Waste material has accumulated, blocking flow of material.	Hold flush handle down on the toilet for 15 seconds. If unit will not clear, unplug and wait 30 minutes. Plug unit back in and repeat. If unit still will not turn off, it will need to be opened and the debris relocated.
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 qualified electrician check house wiring.
	Damaged Impeller.	Contact a Zoeller Service Station.
	Incorrect float adjustment.	Contact Product Support Dept.
	Pump is air locked.	Make sure vent hole in discharge pipe is clear.
	Vertical lift too high.	Change discharge piping or contact Product Support Dept.

If the above checklist does not solve the problem, consult the Zoeller Product Support Department +1 (502) 778-2731. **Do not** attempt to service or otherwise disassemble pump. Care of finish: Soap and water is all that is recommended for cleaning the outside of the tank. Other cleaning products may cause discoloration and scratching.

QWIK JON® ULTIMA QWIK REFERENCE GUIDE

STEP 1

LOCATION SELECTION

Plan your new installation carefully.

Floor: The floor should be structurally sound and level within 3 mm (1/8"). If the floor is not level, use hydraulic cement or similar material to level the floor.

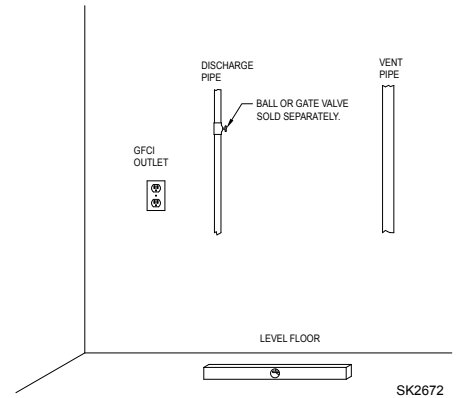
Water: A water supply will be needed to operate the shower and lav.

Electrical: A GFCI (RCD) protected receptacle of the appropriate voltage will be needed to supply electrical power to the pump.

Sewage: Access to a sewage line is required. The Qwik Jon® Ultima requires a 1" (or 3/4" if codes permit) sewage discharge line to connect to an existing sewage line. A ball or gate valve should be installed in the discharge line.

Vent: Access to a vent pipe is required. The use of a mechanical vent system is NOT recommended, as the toilet will not flush.

NOTE: If a built-in installation is to be used, locate the pump unit in an area that will allow access to the pump and switch.



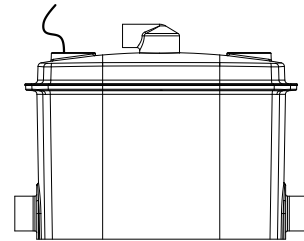
STEP 2

LEVELING OF PUMP UNIT

CAUTION Do not use wooden shims to level the pump unit!

CAUTION Ensure that nails, screws or other sharp objects do not puncture the pump unit!

Level the pump unit within 3 mm (1/8") using hydraulic cement or similar material.



STEP 3

PIPING

1) Adding bathroom fixtures - The Qwik Jon® Ultima is designed to accept bathroom fixtures utilizing the two side inlets. These inlets can be attached via the 2" MPT (outside diameter) or the 1 1/2" slip (inside diameter). These inlets must have the inner portion drilled out using a 44 mm (1 3/4") hole saw (see Figure 3.2). This is to ensure there are no leakage problems from inlets not in use. When utilizing side inlets, install a check valve on the incoming line.

2) Cut and dry-fit the pipe and fittings as required for 1" diameter discharge pipe (may be reduced to 3/4" diameter if codes permit).

3) While dry-fitting the discharge pipe, position and mark the location of the pump unit discharge fitting.

4) Cut and dry-fit 1 1/2" vent pipe as required to ensure that the vent pipe does not interfere with other components. Make the connection to the pump unit with the provided street elbow. A 2" x 1" 90° discharge fitting has been provided, however, it may be easier to pipe straight up depending on the installation. **CAUTION** Proper venting is required. Do not use a mechanical type vent.

5) Clean, prime and solvent weld the inlet and discharge piping and pump unit discharge fitting. **CAUTION** When applying solvent weld to discharge fitting, ensure that none gets into the check valve assembly (see Figure 3.3). Pay close attention to the proper alignment of the discharge fitting previously marked above.

6) Clean and solvent weld vent piping as required for proper venting.

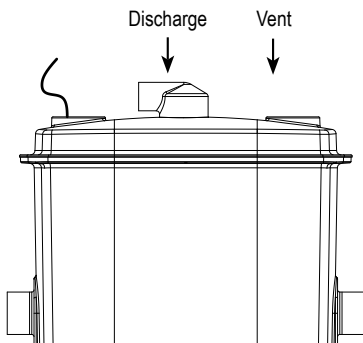


Figure 3.1

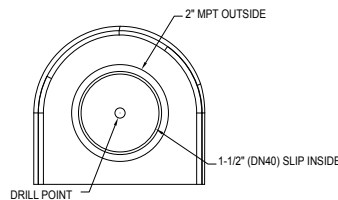


Figure 3.2

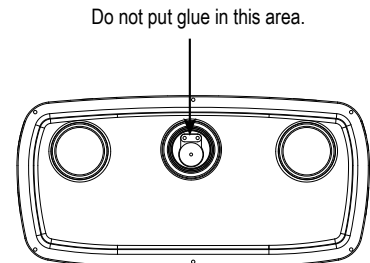
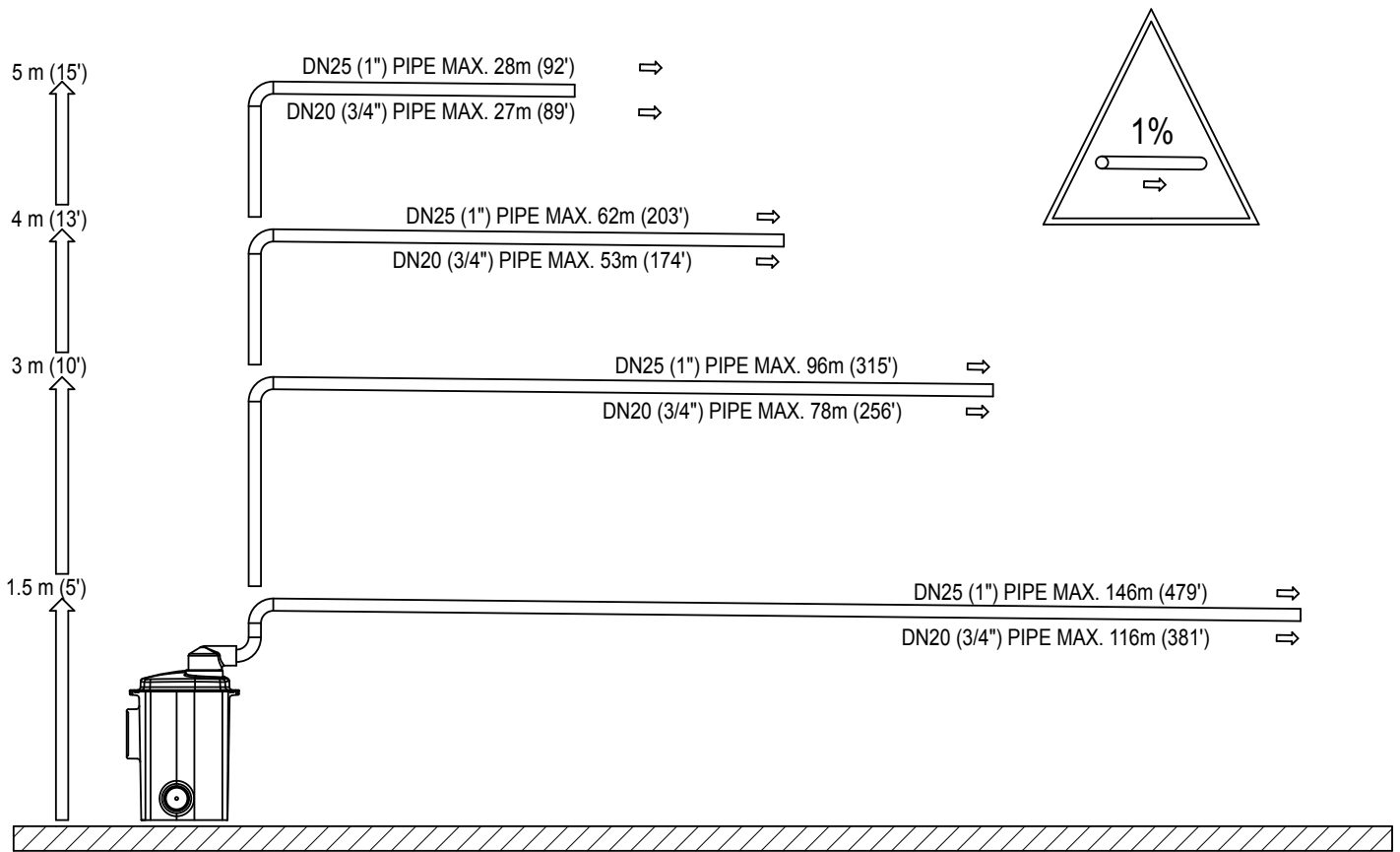
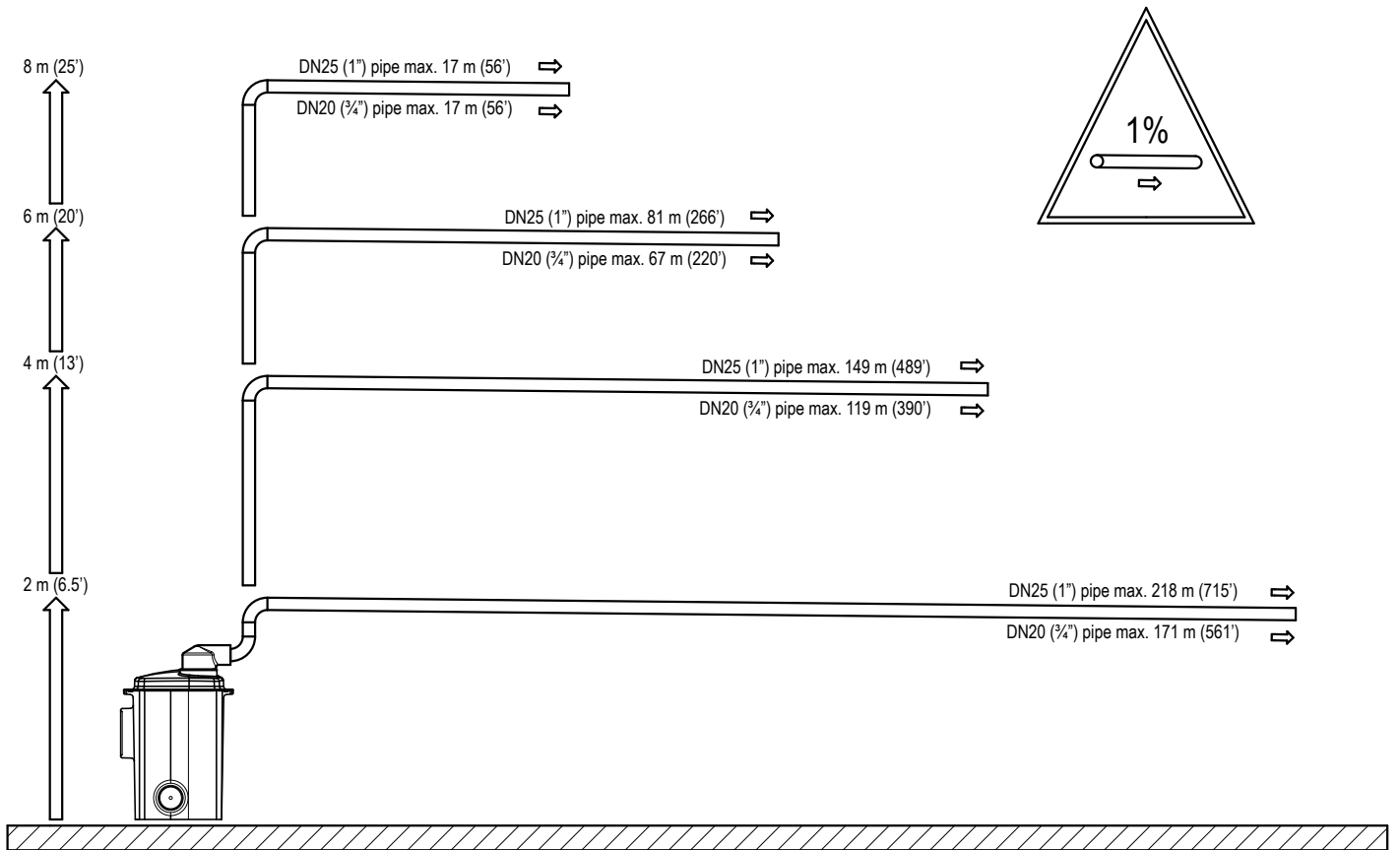


Figure 3.3

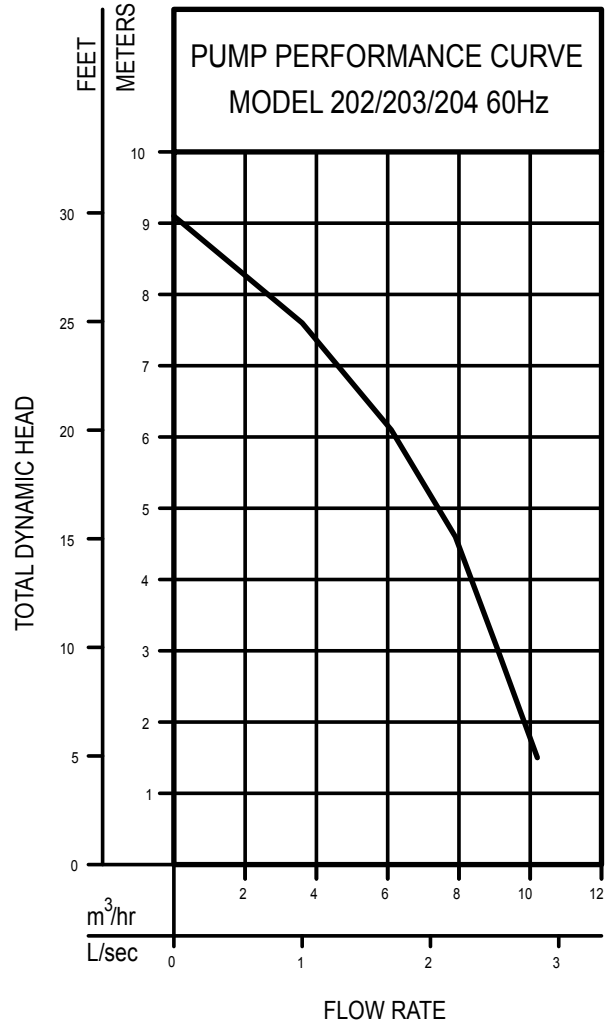
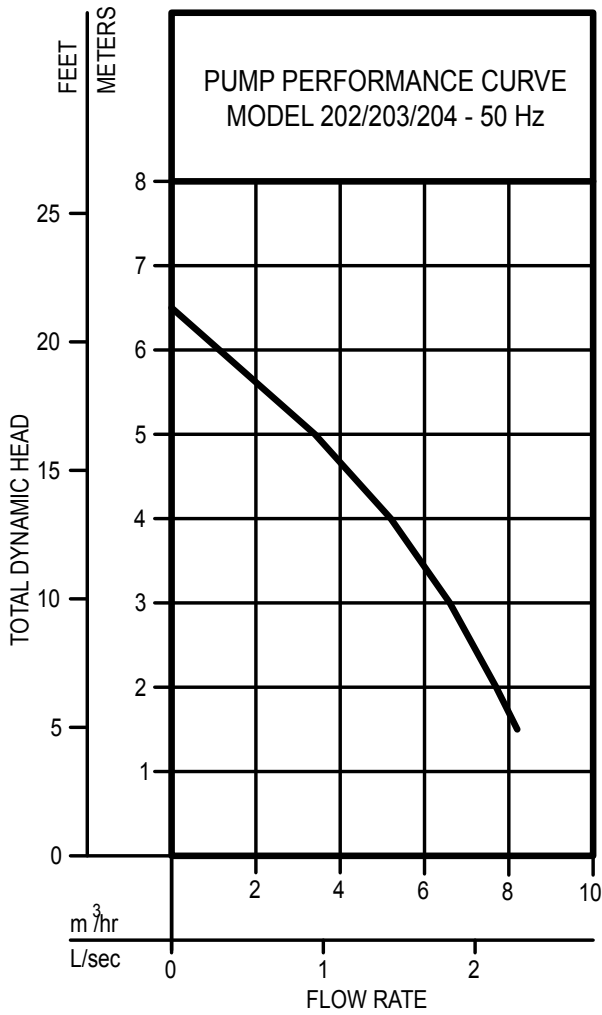


SK2845



SK2909

PUMP PERFORMANCE



**TOTAL DYNAMIC HEAD/FLOW
SEWAGE**

MODEL		202/203/204	
Meters	Feet	m³/hr	L/sec
1.5	5.0	8.2	2.3
2.0	6.6	7.7	2.1
3.0	9.8	6.6	1.8
4.0	13.1	5.2	1.4
5.0	16.4	3.4	1.0
Shut-off Head:		6.5m (21.3ft)	

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**TOTAL DYNAMIC HEAD
FLOW PER MINUTE**

MODEL		202/203/204	
Meters	Feet	m³/hr	L/sec
1.5	5.0	10.2	2.8
2.0	6.6	9.8	2.7
3.0	9.8	9.1	2.5
4.0	13.1	8.4	2.3
5.0	16.4	7.4	2.1
6.0	19.7	6.2	1.7
7.0	23.0	4.6	1.3
8.0	26.2	2.6	0.7
Shut-off Head:		9.1 m (30')	

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DECLARATION OF CONFORMITY

We Zoeller declare under our sole responsibility that the Qwik Jon® Ultima 204 System to which this declaration relates, are in conformity with the Council Directives on the approximation of the laws of the EC Member States relating to:

- Machinery Directive (2006/42/EC)
Standards used: EN 809: 1998
- Electromagnetic Compatibility (2004/108/EC)
Standards used: EN 61000-3-2, EN 61000-3-3 and EN 55014-1
- Electrical equipment designed for use within certain voltage limits (2006/95/EC)
Standards used: EN60335-1:2002 and EN60335-2-41:2003

These are the original installation instructions.



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