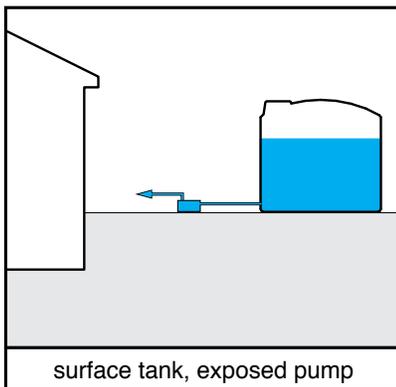


Selecting a Rainwater Pump

To select the best pump for a rainwater harvesting project, the first step is to identify which pumps are compatible with the site conditions. Some pumps can be submerged in water while others must always be dry; some pumps can lift water from below, while others require gravity flow from above; some pumps are water cooled and can be used in confined spaces, while others are air cooled and need ventilation; and some pumps have internal electronics, while others require external pump controllers. The next step is to choose between “standard-duty” or “heavy-duty” construction: standard duty pumps are economical choices for small residential projects, while heavy-duty pumps offer more durable materials, oversize bearings and capacitors, higher-quality seals, larger flow channels, and other features that can provide a longer service life for sophisticated residential and commercial projects.

To simplify the selection process, use the configurations that follow to quickly identify potential pumps. Then review the specifications for each to find a size with the appropriate hydraulic and physical characteristics.

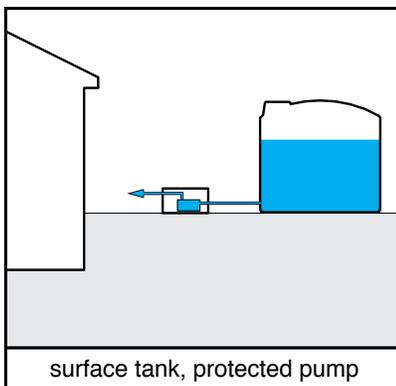


Description: A pump exposed to the weather draws water from a surface tank and pressurizes it for exterior use.

Requirements: Both the pump and controls for automatic start/stop and dry-run protection must be fully weatherproof. Gravity-fed pumps must be installed at or below the tank bottom; suction pumps can be higher than the tank bottom.

Standard Duty Pumps: none

Heavy-Duty Pumps: Amphibian

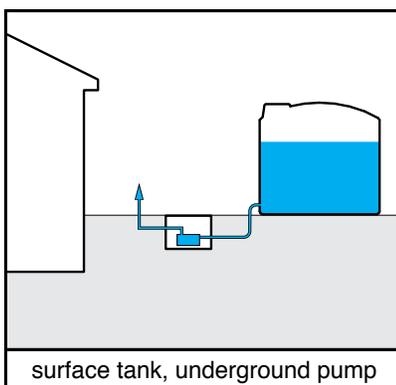


Description: A pump installed in a weatherproof enclosure draws water from a surface tank and pressurizes it for exterior use.

Requirements: Both the pump and controls for automatic start/stop and dry-run protection must be moisture-resistant. Air-cooled pumps require ventilated enclosures. Gravity-fed pumps must be installed at or below the tank bottom; suction pumps can be higher than the tank bottom.

Standard Duty Pumps: AquaPress, MQ

Heavy-Duty Pumps: Amphibian, AquaSpring

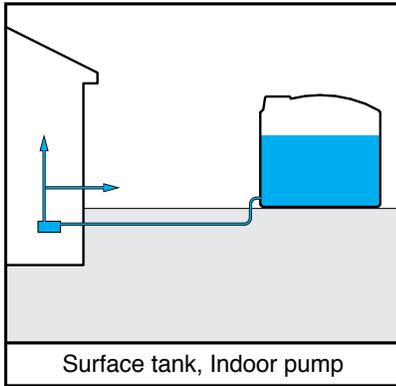


Description: A pump installed in an underground enclosure draws water from a surface tank and pressurizes it for exterior use.

Requirements: The pump must be fully waterproof and have waterproof controls for automatic start/stop and dry-run protection. Effective venting is not possible, so the pump must be water cooled.

Standard Duty Pumps: none

Heavy-Duty Pumps: Amphibian, AquaDiver-T

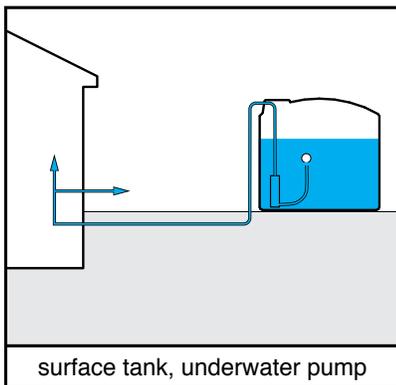


Description: A pump installed within a building draws from a surface tank to supply pressurized water for interior or exterior use.

Requirements: The pump can have either internal or external controls for automatic start/stop and dry-run protection. Gravity-fed pumps must be installed at or below the tank bottom; suction pumps can be higher than the tank bottom.

Standard-Duty Pumps: AquaPress, MQ

Heavy-Duty Pumps: Amphibian, AquaSpring, AquaTower

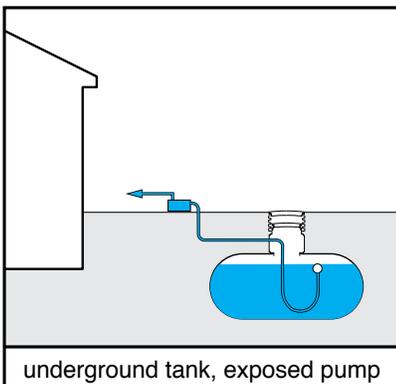


Description: A pump submerged in a surface tank pressurizes water for interior or exterior use.

Requirements: The pump must be fully waterproof. Pumps with internal controls for automatic start/stop and dry-run protection can directly supply exterior water use; pumps requiring external controls must first pump to a controller inside a protective exterior enclosure, or inside a building. Pumps with floating intakes should rest on the tank bottom; pumps with screened or slotted bottom intakes should be suspended 6" off of the bottom.

Standard Duty Pumps: AquaTron

Heavy-Duty Pumps: Amphibian, AquaDiver

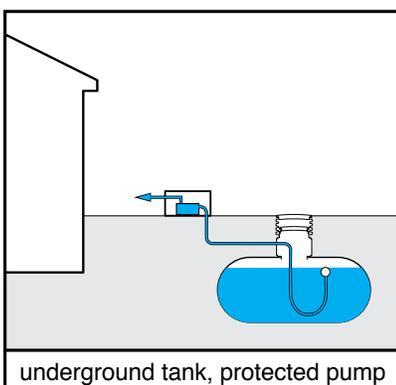


Description: An exposed pump draws water from an underground tank and pressurizes it for exterior use.

Requirements: The pump must be fully weather proof and waterproof and must have waterproof controls for automatic start/stop and dry-run protection. Suction pumps are essential.

Standard Duty Pumps: none

Heavy-Duty Pumps: Amphibian-J

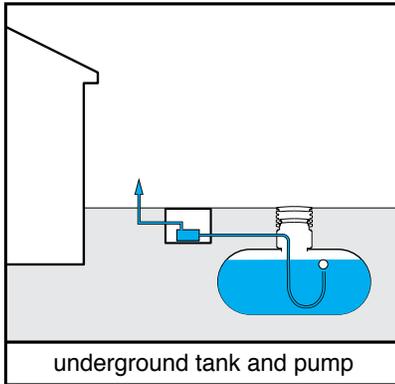


Description: A pump installed in a weatherproof enclosure draws water from an underground tank and pressurizes it for exterior use.

Requirements: The pump must be moisture resistant and must have moisture-resistant controls for automatic start/stop and dry-run protection. Venting is required for air-cooled pumps. Suction pumps are essential.

Standard Duty Pumps: AquaPress, MQ

Heavy-Duty Pumps: Amphibian-J, AquaSpring

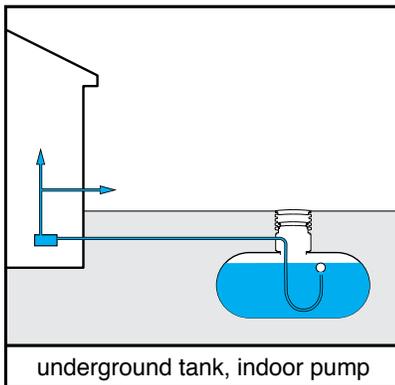


Description: A pump installed in an underground enclosure draws water from an underground tank and pressurizes it for exterior use.

Requirements: The pump must be fully waterproof and have waterproof controls for automatic start/stop and dry-run protection. Effective venting is not possible, so the pump must be water cooled. Suction pumps are essential.

Standard Duty Pumps: None

Heavy-Duty Pumps: Amphibian-J

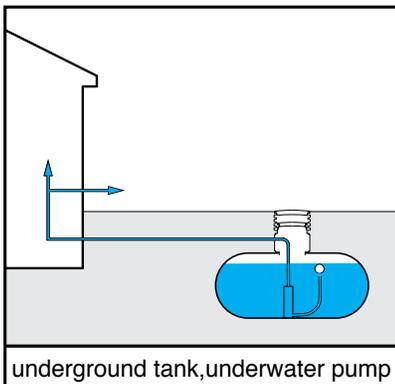


Description: A pump installed within a building draws from an underground tank to supply pressurized water for interior or exterior use.

Requirements: The pump can have either internal or external controls for automatic start/stop and dry-run protection. Suction pumps are essential.

Standard Duty Pumps: AquaPress, MQ

Heavy-Duty Pumps: Amphibian-J, AquaSpring



Description: A pump submerged in an un tank pressurizes water for interior or exterior use.

Requirements: The pump must be fully waterproof. Pumps with internal controls for automatic start/stop and dry-run protection can directly supply exterior water use; pumps requiring external controls must first pump to a controller inside a protective exterior enclosure, or inside a building. Pumps with floating intakes should rest on the tank bottom; pumps with screened or slotted bottom intakes should be suspended 6" off of the bottom.

Standard Duty Pumps: AquaTron

Heavy-Duty Pumps: Amphibian, AquaDiver