

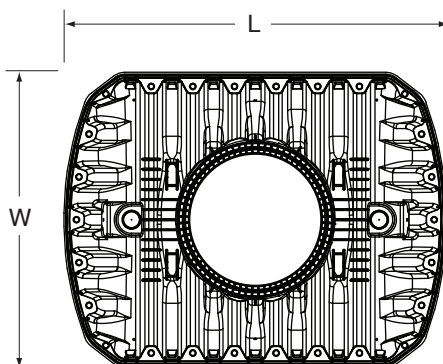
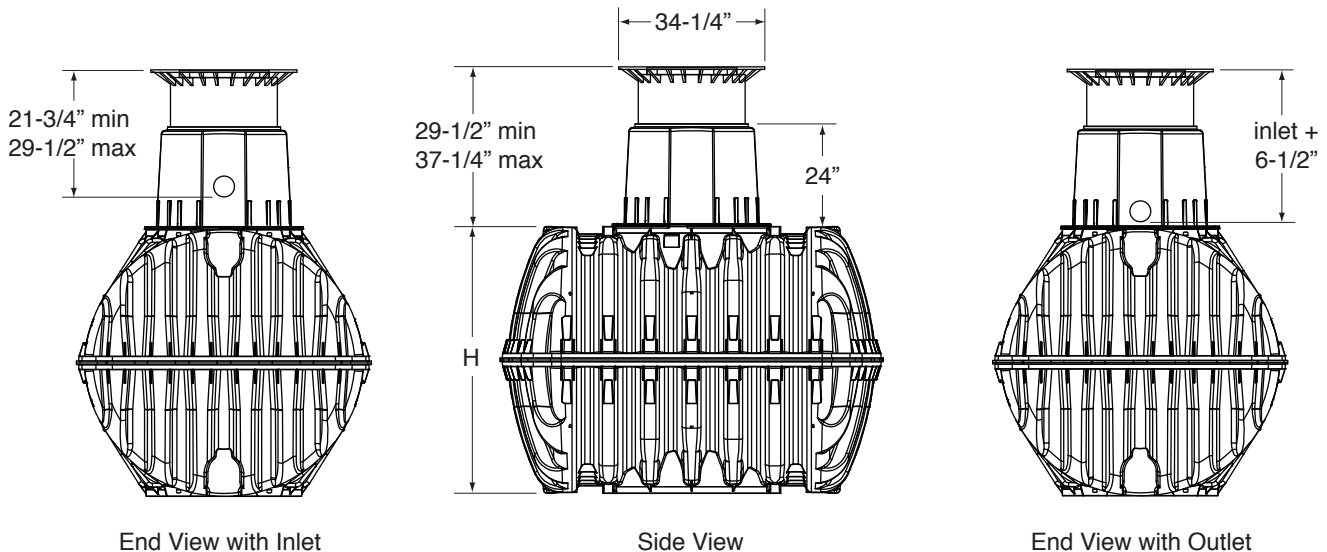
Carat

The *Carat* is a high-strength underground tank built from two half-sections that are joined in the field with a reliable gasket and clamping system. This design makes it possible to transport a tank to the job site in a small truck, and then hand-carry the components to the excavation. A swiveling top compartment called a *dome* provides ample space for inlet, outlet, and filtration components. A telescopic riser slides into the dome and provides height adjustment so that the access lid can be positioned flush with the ground surface.

Carat tanks can be fully emptied for long periods without danger of collapse. With an extension and a heavy-duty riser, they can be buried up to 48" below grade; with a heavy-duty riser and a cast-iron lid they can be used under residential driveways and parking areas. Standard sizes are Carat-1000 (1000 gallons = 3750 liters) and Carat-1700 (1700 gallons = 6500 liters).



DIMENSIONS WITH STANDARD RISER

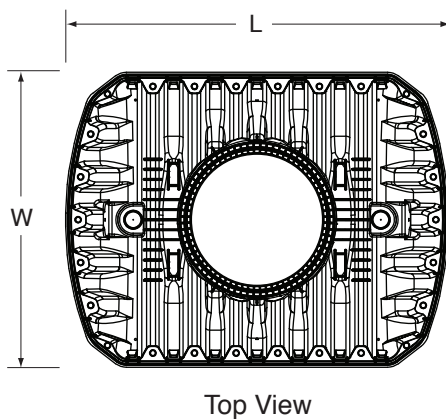
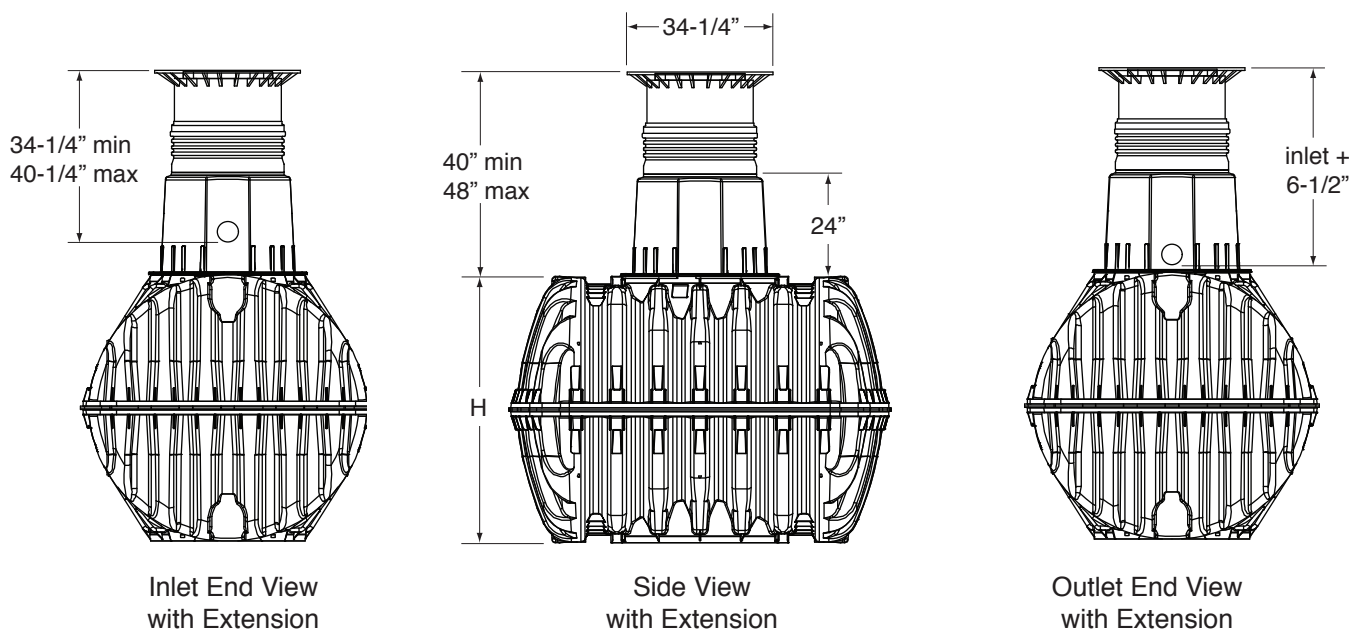
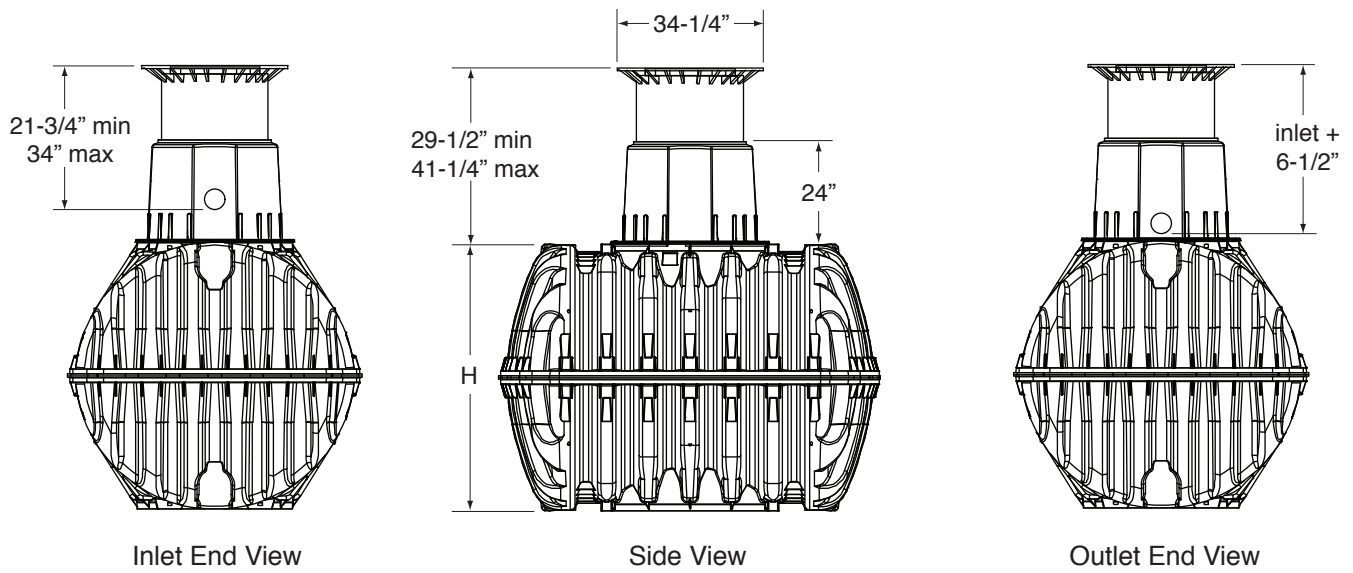


Top View

	Carat-1000	Carat-1700
L	89-3/4"	94"
W	69"	86-1/4"
H	62-1/2"	82-1/2"

- excavate at least 6" below tank bottom
- excavate at least 18" beyond all sides

DIMENSIONS WITH HEAVY-DUTY RISER

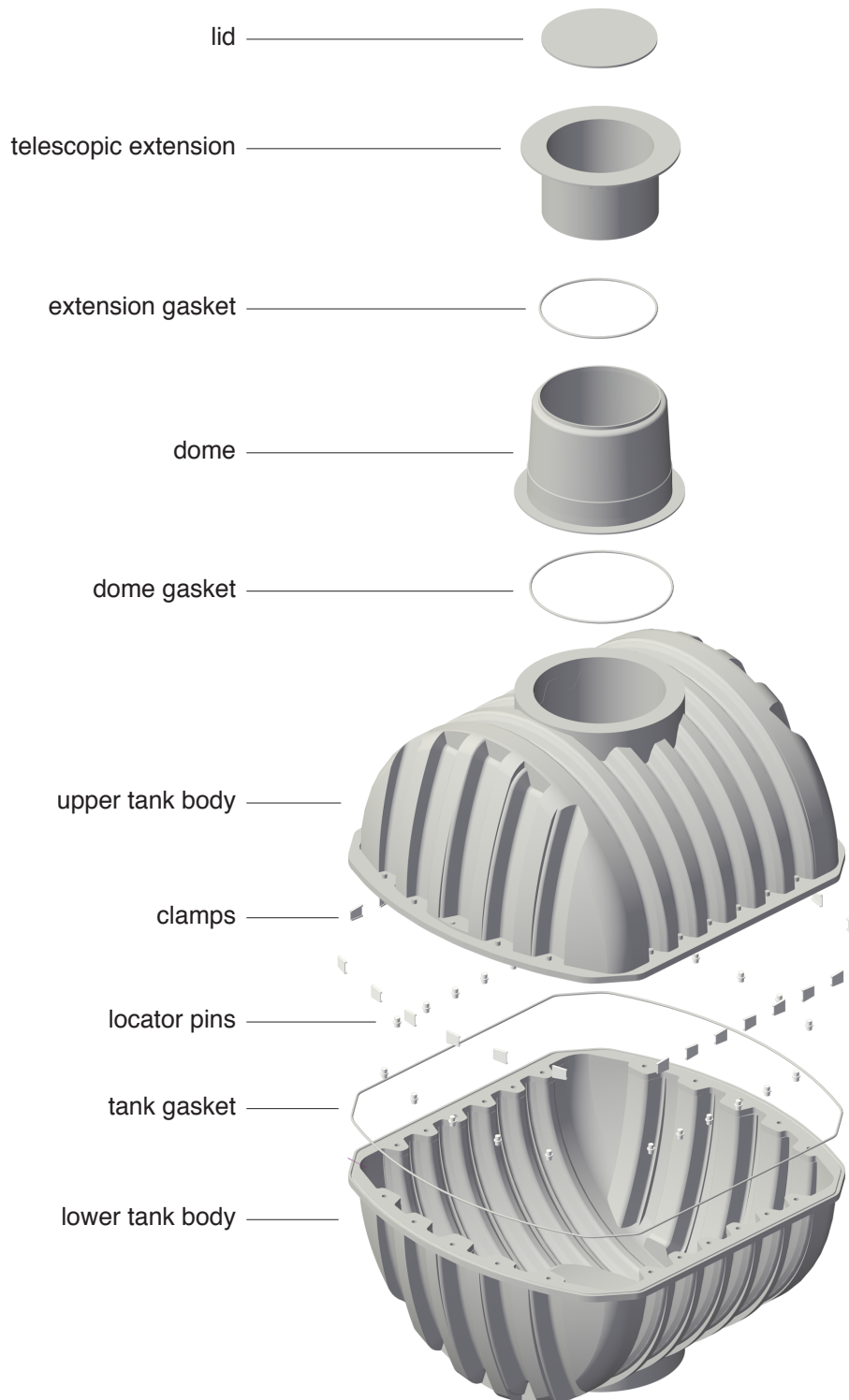


	Carat-1000	Carat-1700
L	89-3/4"	94"
W	69"	86-1/4"
H	62-1/2"	82-1/2"

- excavate at least 6" below tank bottom
- excavate at least 18" beyond all sides

TANK ASSEMBLY

Carat tanks are assembled from lightweight, accurately-molded plastic parts joined with durable EPDM rubber gaskets. The only tool required is a rubber mallet to drive in the clamps that join the upper and lower body sections. A water base gasket lubricant (provided) makes it easy to insert the gaskets.

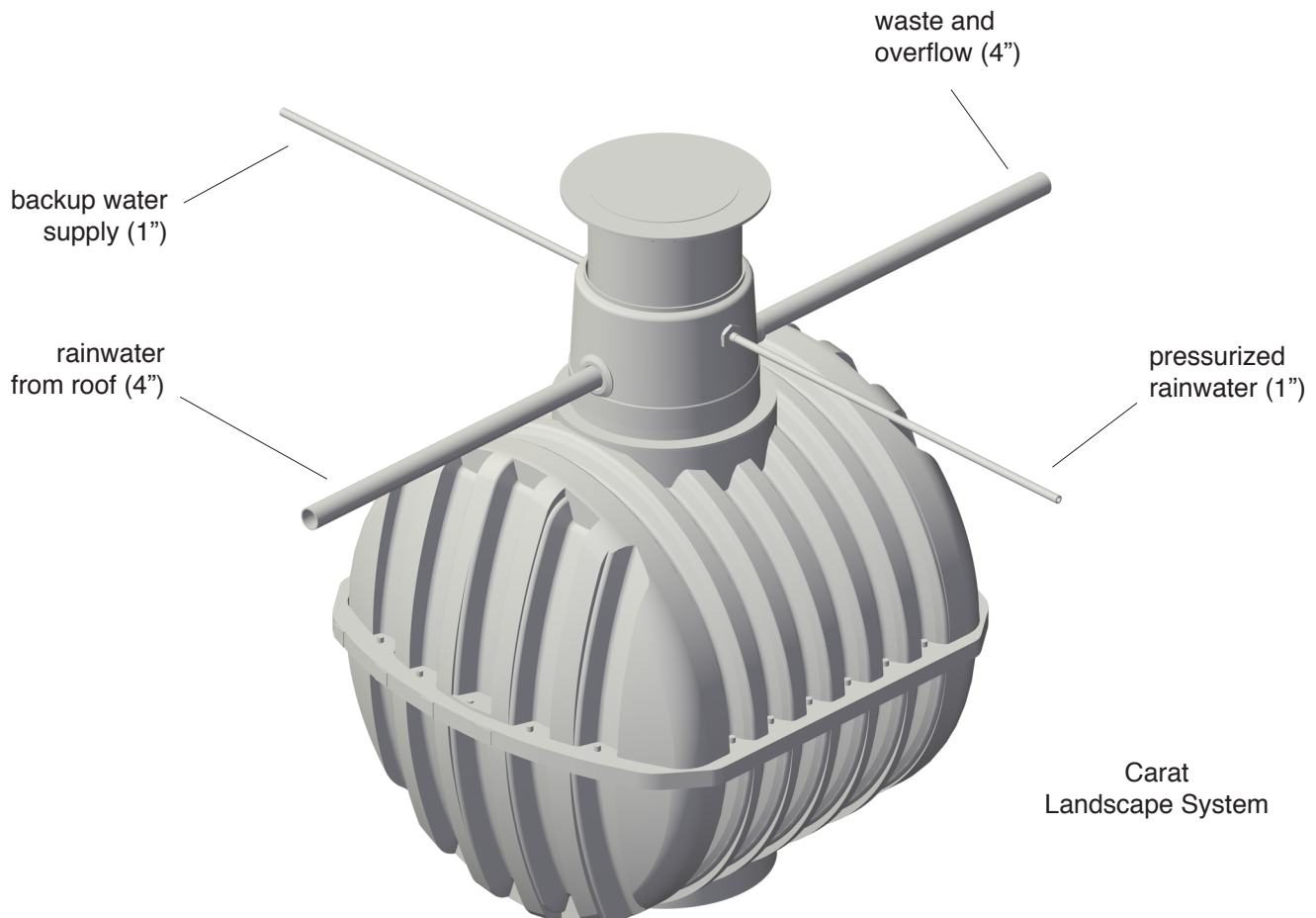


LANDSCAPE SYSTEMS

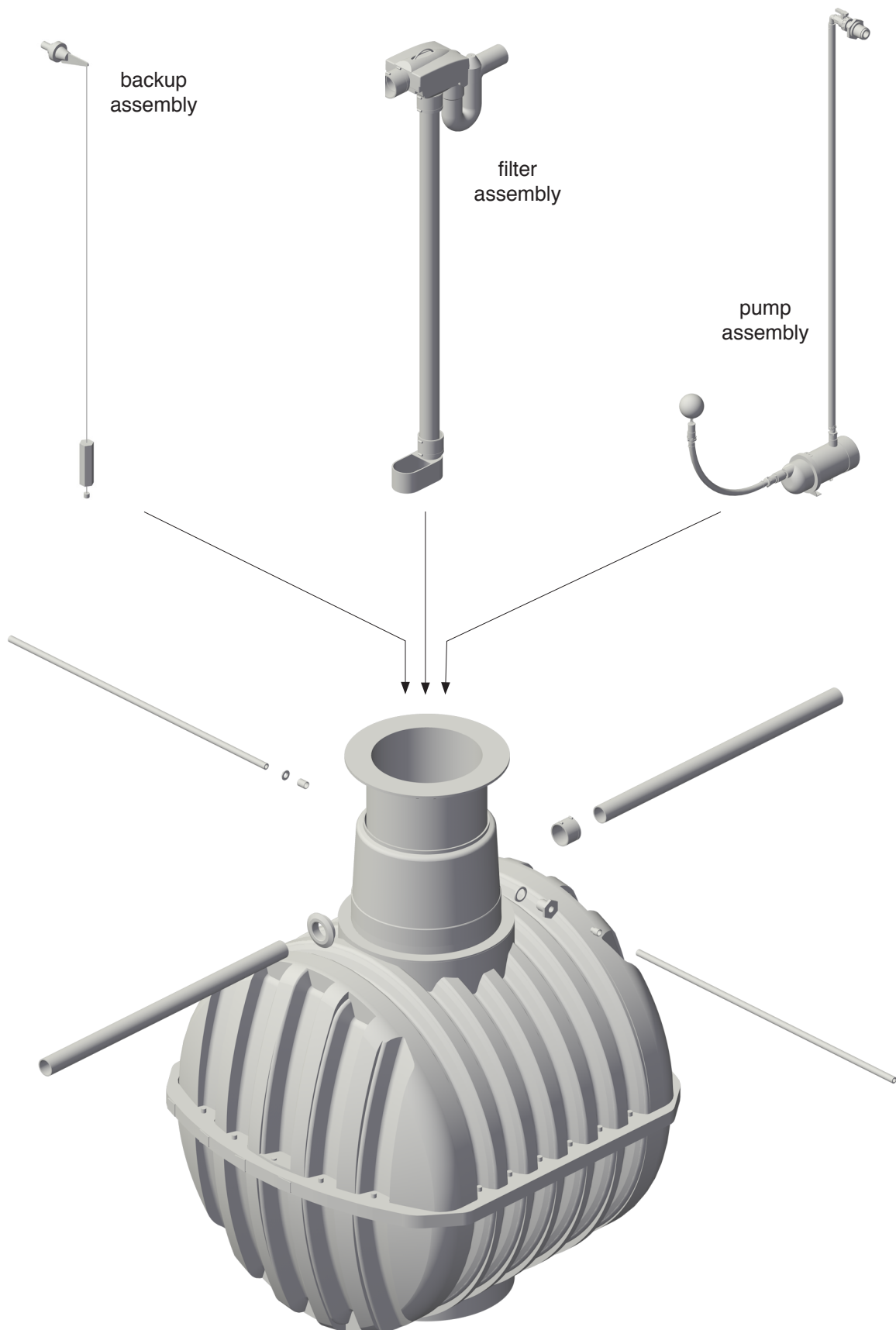
Carat Landscape Systems include all components required for landscape irrigation:

- Carat-1000 or Carat-1700 tank
- Standard Riser assembly for pedestrian traffic
- MiniCascade high-efficiency self-cleaning filter
- inlet gasket and pipe coupling
- diffuser assembly with pre-cut drop-pipe and couplings
- trap assembly with outlet gasket and pipe coupling
- Amphibian-J125 fully-automatic industrial-quality submersible pump
- floating intake assembly with precision check valve and quick-release couplings
- discharge assembly with high-pressure hose, control valve, and bulkhead
- High-flow Mechanical Backup Valve assembly with bulkhead

All of the filter, pump, and backup components are installed within the tank and are accessible through the tank lid: there are no external pump controls, junction boxes, solenoid valves, switches, or filters. The pump cord is simply plugged into an exterior receptacle, the backup valve is connected to the building water supply, and the pressurized water outlet is connected to a faucet or irrigation system. Rainwater enters through the inlet pipe; waste and overflow exits through the outlet pipe. When water is needed, the pump automatically responds to the pressure drop resulting from an open faucet or irrigation valve and supplies rainwater. If no rainwater is available, the mechanical backup valve maintains a few inches of water at the bottom of the tank.



LANDSCAPE SYSTEM COMPONENTS

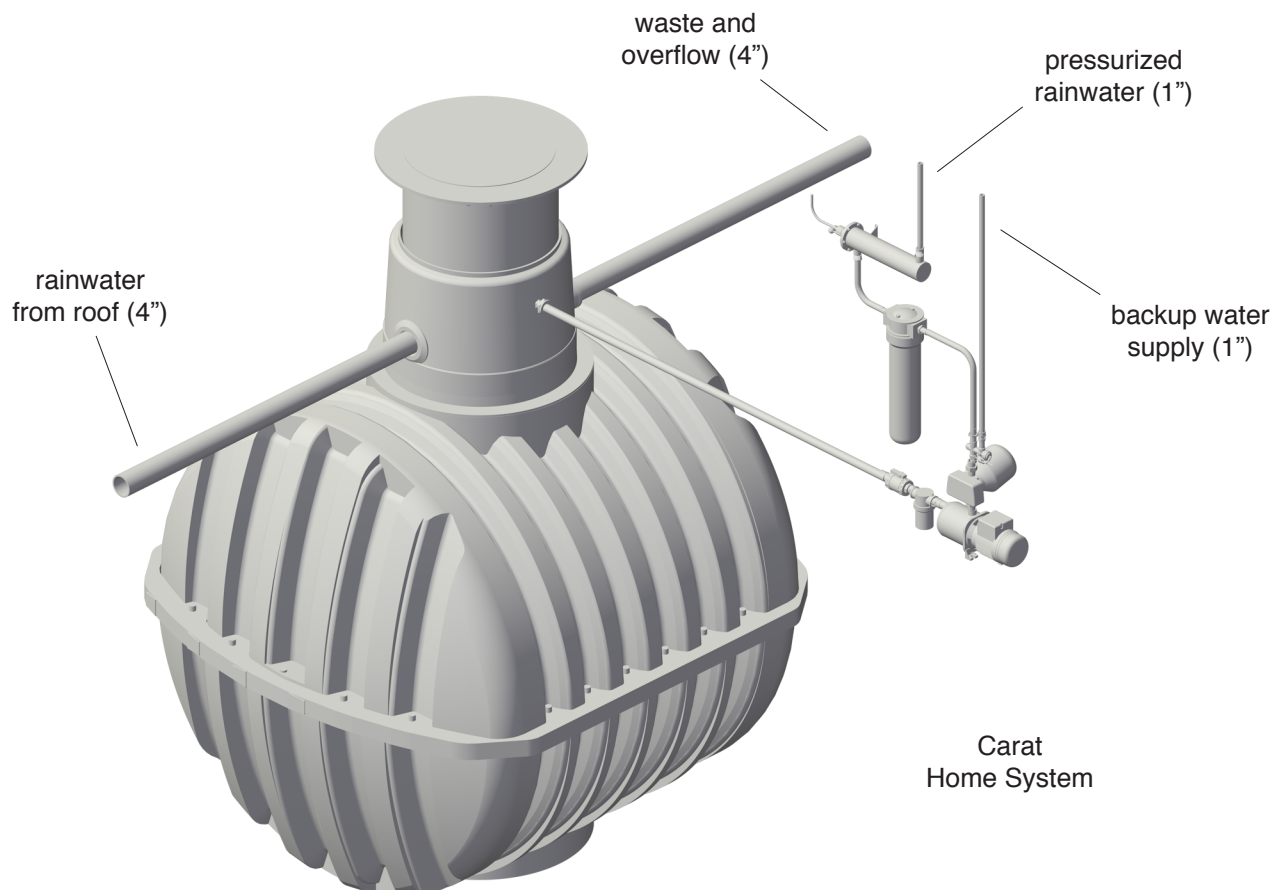


HOME SYSTEMS

Carat Home Systems include all components required for non-potable interior and exterior water use:

- Carat-1000 or Carat-1700 tank
- Standard Riser assembly for pedestrian traffic
- MiniCascade high-efficiency self-cleaning filter
- inlet gasket and pipe coupling
- diffuser assembly with pre-cut drop-pipe and couplings
- trap assembly with outlet gasket and pipe coupling
- floating intake assembly with quick-release couplings and bulkhead
- AquaSpring-75 self-priming pump with pre-filter
- PumpControl-PF150 electronic pump controller with pressure tank
- Hydraulic Backup Valve with integral double-check valve
- High-rate particulate filter with stainless-steel connectors
- Stainless-steel ultraviolet sterilizer with integral sleeve wiper

The filter assembly is installed within the tank and is accessible through the tank lid. The pump and post-treatment assembly is installed in a sheltered interior space such as a mechanical room. The pump controller is plugged into a receptacle, the backup valve is connected to the building water supply, and the pressurized water outlet is connected to fixtures, faucets or an irrigation system. Rainwater enters through the inlet pipe; waste and overflow exits through the outlet pipe. When water is needed, the pump automatically responds to the pressure drop resulting from an open valve or faucet and supplies rainwater. When no rainwater is available, the hydraulic backup valve automatically connects the backup supply. A post-treatment package consisting of a high-rate particulate filter followed by an ultraviolet sterilizer assures safe water quality.



HOME SYSTEM COMPONENTS

