

Technical Brief

Job Name _____

Contractor _____

Job Location _____

Approval _____

Consulting Engineer _____

Contractor's P.O. No. _____

Approval _____

Representative _____

RainCycle® 7000-INDG2

Integrated **INDIRECT** Rainwater Harvesting Solution

Overview

The 7000-INDG2 solution provides a sustainable and resilient water management system that reduces dependency on municipal water supplies, mitigates stormwater runoff, and supports environmental stewardship. This solution is engineered for seamless integration across a wide range of properties such as Commercial, Industrial, Pharmaceutical and Biotechnological. Its adaptable engineered design ensures compatibility with diverse infrastructure and operational requirements, making it suitable for both new construction and capital improvement initiatives.

Engineered around three highly configurable system modules, delivering unmatched design flexibility for seamless building integration into plumbing, mechanical, and electrical infrastructure.

Collection & Pre-Filtration

- Rainwater from clean roof surfaces is conveyed via gravity to an Inlet Pre-filter to prevent the intrusion of coarse debris from entering the primary storage tank.
- Pre-filtered water flows to the primary storage tank (cistern) for bulk storage.

Treatment & Transfer

- Water is pumped from the primary storage tank through a treatment skid, incorporating sediment filtration, and disinfection.
- Treated water is then directed to a buffer tank ensuring constant supply for distribution.

NOTICE

The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

Distribution & Control

- Configurable skid-mounted booster pump package downstream of the buffer tank delivers treated non-potable water to end use applications.
- When water levels are low in the cistern, or when system fault conditions occur, the system will automatically provide a secondary makeup water source, when available.

Configurable Specifications:

RainCycle solutions are built for integration across diverse building infrastructure configurations. Its modular architecture delivers exceptional flexibility and scalability, ensuring smooth coordination throughout every phase of the construction lifecycle. From Action Submittals to Informational Reviews and Closeout Documentation, by combining precision engineering with streamlined workflows, RainCycle provides design professionals with confidence, compliance, and control.

Collection Points & Pre-Filtration

- Pipe size compatibility: Typically, 4" to 16"
- Compatible Materials: PVC, Cast Iron, SDR, Stainless Steel, and other standard drainpipe types
- Installation options: Direct bury, In-vault, and Free-standing

Primary Storage Tanks

- Capacities: 5,000 gallons and up
- Integrated level sensors
- Construction Options:
 - Fiberglass (FRP)
 - Corrugated metal with flexible or sprayed-in liners
 - Glass-lined or epoxy coated steel
 - Modular solutions for above and below grade
 - Polypropylene and polyethylene
- Transfer Options:
 - Submersible pumps
 - Above grade remote pumps
 - Suction-lift pumps

Filtration & Treatment

- Flow capacity engineered to meet daily consumption demands
- Multi-stage process & components:
 - Sediment removal
 - Watts UV-COM Commercial Ultraviolet Light Water Disinfection System
- Integrated features:
 - Solid-state control panel
 - Flow monitoring
 - Tank aeration
 - Differential pressure monitoring

Buffer (Day) Tanks

- Capacity: 500 gallons and up
- Integrated field-mounted level sensors
- Construction: Polyethylene (Typical)
- Secondary water source capable

Booster Pump System

- Flow Range: Typically 10 to 16,000 GPM
- Multi-pump configurations
- Variable frequency drives (VFDs)
- Dry-run protection
- Compact, energy-efficient design
- Noise and vibration dampening
- Redundancy and duty cycling

Additional Solution Features

- Custom integration configuration for site-specific requirements
- UL 508a control panels
- Multiple electrical options available
- Tank monitoring with automated diversion capabilities
- Factory-fabricated skids
- BMS-ready with RS485, Ethernet/BACnet connectivity

Unlock the flexibility to optimize performance, streamline integration, and achieve your sustainability goals with RainCycle®.



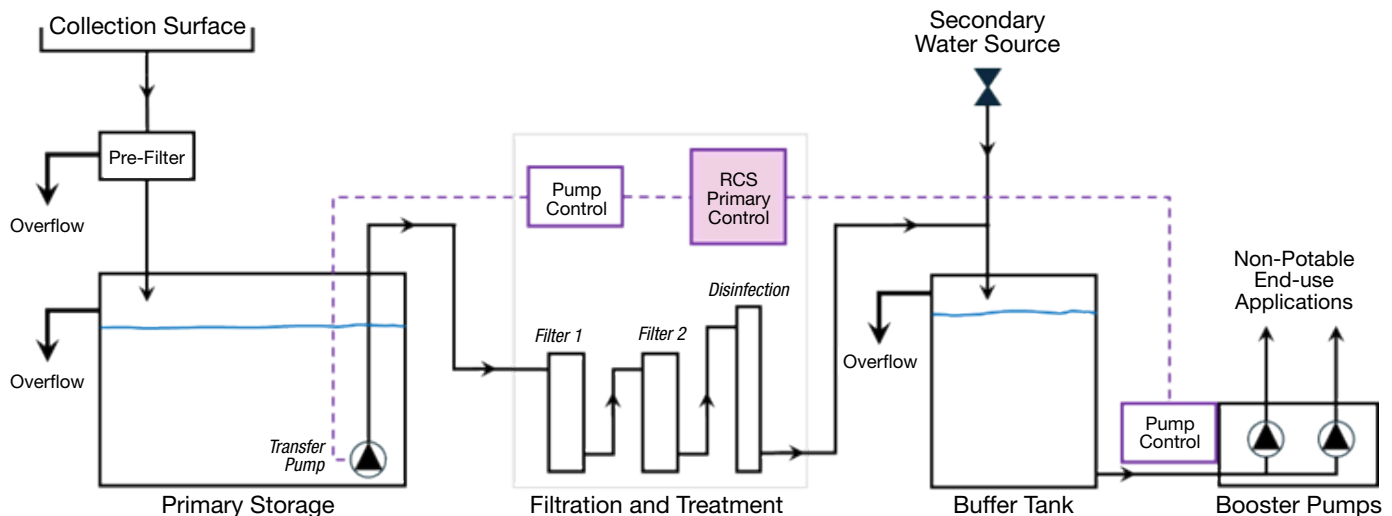
Scan to contact your local factory rep to explore additional configurations and premium options and let us build a customized quotation tailored to your project's unique design requirements.

INDIRECT Solution

Ideal for:

Dynamic Usage

Boosted flows > 30gpm or Pressures > 100psi



Above graphic illustrates various sections of the solution.



Scan for more information on Rainwater Harvesting

