

# The IrrigRAY system has 4 components

## Collect

IrrigRAY uses an 18" x 30" collection and pumping basin and does NOT store water. As soon as there are 5 gallons of graywater available it starts pumping to one of 16 available controlled irrigation zones.

The pumping basin can be installed up to 4' below ground level, with 12" extenders available to achieve the correct surface/ground level.

The 3" plumbing configuration is supplied pre-assembled.

## Filter

Employing a patented mechanical interface and bracket to join the renowned "Twist II Clean" filter with an electric motor/actuator, we have created the simplest and most cost effective automated self cleaning filter available.

When the filter mesh has collected debris, the IrrigRAY controller senses the pressure change and turns off the pump, rotates the filter handle into cleaning position, and activates the clean water backwash flush.



## Manage

The issue with graywater has always been management. How do you know if you have too much? What happens if there isn't enough during the day? What can I do when the family is on vacation? IrrigRAY changes all of this. We design and manufacture our own water management controller specifically for graywater optimization.

The brain of the IrrigRAY system is a 7" tablet, with simple to use setup screens. The system constantly monitors re-use of graywater, throughout the day. With wifi connection, the IrrigRAY controller sends performance information to our server every minute.

Analyzing minute by minute data, our server detects abnormalities and sends warning messages to the Homeowner and/or Landscape Contractor. Irrigation settings can be modified remotely via computer by authorized individuals.



## Distribute

IrrigRAY uses a collection and pumping basin to distribute graywater across up to 16 zones. For residential purposes, each zone equates to 1,000 square feet, and will irrigate between 5 and 10 gallons per minute, the same rate that graywater is produced in most residential circumstances.

For larger properties (such as hotels multi-family and retail) zone size can be increased using a combination of larger collection basins and higher flow rate pumps.



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844-GRAYH<sub>2</sub>O  
844-472-9426  
waterrenu.com



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## The Breakthrough Graywater Irrigation System



Minimize **Water** Restrictions

Keep Your Landscape **Green** All Summer

Save **Water** and Money

Protect your **Landscape** Investment

Re-use **Water** you've already paid for

**Effective. Efficient. Economical**

### Did you know....

- Graywater (also spelled Greywater) is a fantastic resource, because we produce it EVERY day. One person produces enough Graywater from showers, tubs and laundry every day to irrigate up to 1,000 square feet of landscape and turf.
- The average person generates 40+ gallons of Graywater per day in the summer and often much more in drier, hot climates like California, Arizona and Texas; with an average household of 3 people, that adds up to 3,600 gallons per month.
- The IrriGRAY system uses 95% of this water effectively, compared to less than 50% efficiency with clean water spray irrigation, providing as much irrigation water as a 20,000 gallon rainwater tank, at a fraction of the cost.

### Did you know....

- Graywater is household waste water from these sources: Shower & Bath, Laundry, and AC Condensate.
- Blackwater is household waste water from these sources: Kitchen, Dishwasher, and Toilets.

### Did you know....

- There is a cost effective solution to water restrictions that ensures a beautiful landscape and the successful establishment of new landscape.
- Graywater is irrigated with dripperlines placed between the soil and mulch in landscape beds and 1-3" under the turf for the lawn.
- In the past the issue with using Graywater has been unpredictable water volumes and filtering the water to ensure lines do not become clogged. IrriGRAY manages this for you automatically.
- 80% of components are purchased in the U.S. and 100% of the design, manufacturing and assembly are performed in the U.S.



### Did you know IrriGRAY....

- Has the most sophisticated irrigation controller in the market.
- Is compact, efficient, and virtually maintenance free.
- Is a standard design so that builders can easily include the IrriGRAY system as an option in new home offerings.
- Can incorporate rainwater as well as all sources of graywater.

### Not Enough Graywater?... On Vacation?

IrriGRAY supplements with potable water to keep your landscape looking great in all conditions.

### Too Much Graywater?

IrriGRAY disposes of extra graywater to your choice of extra zones, alternate septic drain fields, or to sewer.

### Filters to Clean or Replace?

IrriGRAY includes an automatic self cleaning filter, and does not need replacement filters. We do recommend an annual DIY inspection of the pumping basin.

### Freezing Conditions?

IrriGRAY measures your on-site temperature and automatically places the filter into freeze mode, sending all graywater to the sewer or alternate sub surface drain field.

### Blocking Dripperlines?

Without regular flushing, all dripperlines can clog over time with soap deposits. IrriGRAY automatically flushes the dripperlines on a regular basis, preventing buildup.

### New Sod?...Large Sod Area?

New sod needs intensive watering every day for the first few weeks - more water than your showers and washing machine will normally provide. IrriGRAY includes a sod irrigation calendar to address this issue. For large sod areas the irrigray controller can use potable water with spray heads to separately comply with any water restrictions in place.

### Complicated?

IrriGRAY is incredibly easy to set up with intuitive control screens and delivers water based on highly efficient capillary irrigation principles throughout the day in accordance with climate and zone planting needs.

### Easy to Install?

Your plumber simply installs 2 separate drain lines: Gray for tubs, showers, laundry and condensate; Black for hand basins, kitchen and toilet. Next, simply drop in the 18" diameter basin, and have the self cleaning filter and controller installed nearby.

### The Bottom Line: How Much?

Less than most people think. \$4,150 for the entire system, plus the cost of installation, and required dripperline. IrriGRAY pays for itself quickly through water utility savings and avoiding the high cost of replacing trees, shrubs and lawns as a result of drought.

### Should I do anything *RIGHT NOW*?

**Yes, talk to your builder and install separate waste lines for Black and Graywater. If you have an existing pier and beam home, IrriGRAY can be installed now with minor plumbing modifications.**



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