

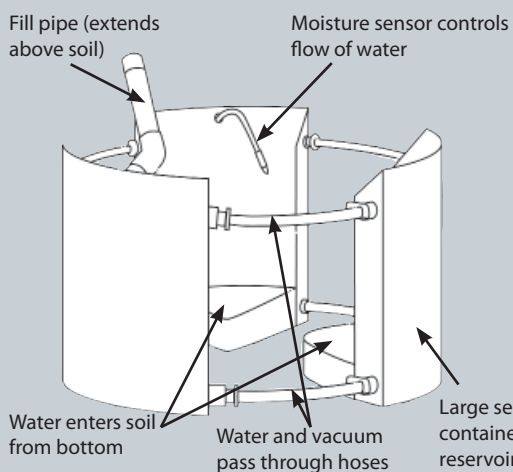
# CWM Modular Container Irrigation

*The most flexibility for planters, large and small*

CWM Modular is a versatile self-watering system designed for use in any large planter, free-standing or otherwise. Reservoir modules are linked together and buried within the pot. The hand-filled reservoir utilizes Tournesol Sitework's vacuum-sensor system to precisely monitor the soil moisture in the container, giving plants exactly the amount of water they need. The CWM Modular provides optimal flexibility for use in virtually any shape planter, will not interfere with lighting or other electrical connections, and requires no plumbing.



- Both round-back and square-back modules for cylindrical, square and rectangular pots
- Keeps plants healthy, strong and stress free by balancing moisture and oxygen in the soil
- Largest reservoir and longest maintenance interval of any self-watering system
- Virtually invisible, disappears under the soil when installed



## *How Tournesol's Container Irrigation Works:*

The self-contained reservoir modules are filled by hand through the pipe, and closed with a stopper. Water passes between modules through the tubing, then flows through holes in the bottom into the soil. It wicks up to level of moisture sensor, typically planted 6-8" below the surface of the soil. The sensor absorbs moisture and closes, blocking the flow of air through the tubes. A vacuum is created, preventing more water from flowing into soil. When the plant has used the water in the soil, the sensor dries, opens, and the process starts anew.

For more information about **CWM Modular Container Irrigation**, visit [www.tournesolsiteworks.com/products/cis\\_cwm.asp](http://www.tournesolsiteworks.com/products/cis_cwm.asp)



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### Parts of the CWM Modular Irrigation System

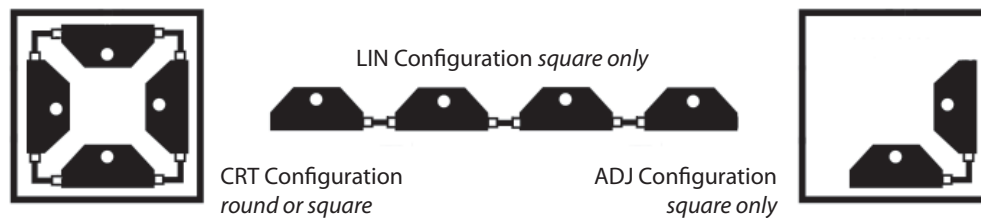
Fill Module  
*fill pipe not shown*

Sensor Module  
*the brains of the system*

Secondary Module  
*water storage only*

CWM Modular irrigation consists of multiple rigid modules linked together, buried under the soil of the planter. Each system will have one fill module, and be linked to one sensor module. Up to three secondary modules may be added, depending upon the size of the pot. Modules are available in multiple size and height combinations to fit nearly any pot or planter.

### Typical CWM Modular Irrigation Configurations



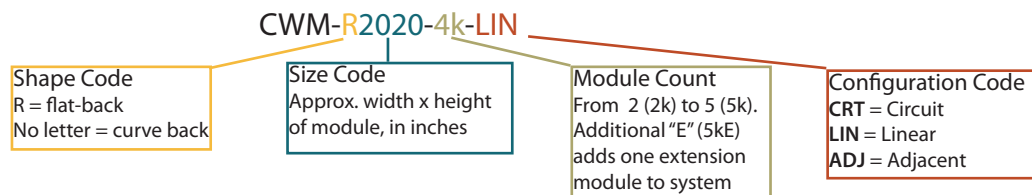
Depending upon the shape and size of the container, the CWM Modular system may be used in any number of configurations. The CRT configuration connects all modules together. The LIN and ADJ configurations are typically used with rectangles and squares. The fill and sensor modules can be used anywhere, but we typically recommend that they be toward the middle for even filling.

### Drainage in CWM Systems

typical overflow adapter

To raise the drain level, trapping irrigation water but allowing overflow, the CWM system relies on an overflow adapter cemented over the drain hole(s) of the pot. The overflow drain works best when located several inches above the level of the water source. We recommend a staging material that wicks water from the bottom of the container. The Overflow Drainage Adapter is delivered at a length that assumes the system is planted directly on the bottom of the pot. If it isn't, a 3/4" PVC union and additional pipe can be glued onto the adapter to raise it to the correct height. Multiple drain holes each need an adapter.

### CWM Nomenclature



For more information about CWM Modular Container Irrigation, visit [www.tournesolsiteworks.com/products/cis\\_cwm.asp](http://www.tournesolsiteworks.com/products/cis_cwm.asp)

## Curve-Back Systems

Part No.	Description	Height	Depth	Water Capacity	Container Size Range
CWM-1109-2k	2-module small 11" curve-back	9"	7.5"	1.6 gal	16" – 22"
CWM-1109-3k	3-module small 11" curve-back	9"	7.5"	2.4 gal	22" – 26"
CWM-1109-4k	4-module small 11" curve-back	9"	7.5"	3.2 gal	26" – 30"
CWM-1114-2k	2-module small 11" curve-back	14"	7.5"	2.4 gal	16" – 22"
CWM-1114-3k	3-module small 11" curve-back	14"	7.5"	3.6 gal	22" – 26"
CWM-1114-4k	4-module small 11" curve-back	14"	7.5"	4.8 gal	26" – 30"
CWM-1120-2k	2-module small 11" curve-back	20"	7.5"	3.6 gal	16" – 22"
CWM-1120-3k	3-module small 11" curve-back	20"	7.5"	5.4 gal	22" – 26"
CWM-1120-4k	4-module small 11" curve-back	20"	7.5"	7.2 gal	26" – 30"
CWM-1714-2k	2-module medium 17" curve-back	14"	10.9"	6 gal	26" – 32"
CWM-1714-3k	3-module medium 17" curve-back	14"	10.9"	9 gal	32" – 36"
CWM-1714-4k	4-module medium 17" curve-back	14"	10.9"	12 gal	36" – 42"
CWM-1714-5k	5-module medium 17" curve-back	14"	10.9"	18 gal	42" – 48"
CWM-1720-2k	2-module medium 17" curve-back	20"	11.6"	8.5 gal	26" – 32"
CWM-1720-3k	3-module medium 17" curve-back	20"	11.6"	12.7 gal	32" – 36"
CWM-1720-4k	4-module medium 17" curve-back	20"	11.6"	17 gal	36" – 42"
CWM-1720-5k	5-module medium 17" curve-back	20"	11.6"	21.2 gal	42" – 48"
CWM-2914-2k	2-module large 29" curve-back	14"	18.5"	15 gal	42" – 48"
CWM-2914-3k	3-module large 29" curve-back	14"	18.5"	22.5 gal	48" – 54"
CWM-2914-4k	4-module large 29" curve-back	14"	18.5"	30 gal	54" – 64"
CWM-2914-5k	5-module large 29" curve-back	14"	18.5"	37.5 gal	64" – 76"
CWM-2914-5kE	5-module large 29" curve-back & extension	14"	18.5"	38.5 gal	76" +
CWM-2920-2k	2-module large 29" curve-back	20"	18.5"	19.5 gal	42" – 48"
CWM-2920-3k	3-module large 29" curve-back	20"	18.5"	29.25 gal	48" – 54"
CWM-2920-4k	4-module large 29" curve-back	20"	18.5"	39 gal	54" – 64"
CWM-2920-5k	5-module large 29" curve-back	20"	18.5"	48.75 gal	64" – 76"
CWM-2920-5kE	5-module large 29" curve-back & extension	20"	18.5"	50.75 gal	76" +

## Flat-Back Systems

Part No.	Description	Height	Depth	Water Capacity	Container Size Range
CWM-R1109-2k	2-module small 11" flat-back	9"	8.75"	2.6 gal	20" – 24"
CWM-R1109-3k	3-module small 11" flat-back	9"	8.75"	3.9 gal	24" – 28"
CWM-R1109-4k	4-module small 11" flat-back	9"	8.75"	5.2 gal	28" – 32"
CWM-R1114-2k	2-module small 11" flat-back	14"	8.75"	3.6 gal	20" – 24"
CWM-R1114-3k	3-module small 11" flat-back	14"	8.75"	5.4 gal	24" – 28"
CWM-R1114-4k	4-module small 11" flat-back	14"	8.75"	7.2 gal	28" – 32"
CWM-R1120-2k	2-module small 11" flat-back	20"	8.75"	5.0 gal	20" – 24"
CWM-R1120-3k	3-module small 11" flat-back	20"	8.75"	7.5 gal	24" – 28"
CWM-R1120-4k	4-module small 11" flat-back	20"	8.75"	10 gal	28" – 32"

Flat-Back Systems (continued)

Part No.	Description	Height	Depth	Water Capacity	Container Size Range
CWM-R1614-2k	2 medium 16" flat-back	14"	12.8"	6.5 gal	30" – 36"
CWM-R1614-3k	3 medium 16" flat-back	14"	12.8"	9.75 gal	36" – 40"
CWM-R1614-4k	4 medium 16" flat-back	14"	12.8"	13 gal	40" – 48"
CWM-R1614-5k	5 medium 16" flat-back	14"	12.8"	16.25 gal	48" – 54"
CWM-R1620-2k	2 medium 16" flat-back	20"	12.8"	9 gal	30" – 36"
CWM-R1620-3k	3 medium 16" flat-back	20"	12.8"	13.5 gal	36" – 40"
CWM-R1620-4k	4 medium 16" flat-back	20"	12.8"	18 gal	40" – 48"
CWM-R1620-5k	5 medium 16" flat-back	20"	12.8"	22.25 gal	48" – 54"
CWM-R2014-2k	2 medium 20" flat-back	14"	12.9"	9 gal	32" – 38"
CWM-R2014-3k	3 medium 20" flat-back	14"	12.9"	13.5 gal	38" – 46"
CWM-R2014-4k	4 medium 20" flat-back	14"	12.9"	18 gal	44" – 52"
CWM-R2014-5k	5 medium 20" flat-back	14"	12.9"	22.5 gal	52" – 58"
CWM-R2020-2k	2 medium 20" flat-back	20"	12.9"	11.5 gal	32" – 38"
CWM-R2020-3k	3 medium 20" flat-back	20"	12.9"	17.25 gal	38" – 46"
CWM-R2020-4k	4 medium 20" flat-back	20"	12.9"	23 gal	44" – 52"
CWM-R2020-5k	5 medium 20" flat-back	20"	12.9"	28.75 gal	52" – 58"
CWM-R2914-2k	2 large 29" flat-back	14"	18.5"	17 gal	42" – 48"
CWM-R2914-3k	3 large 29" flat-back	14"	18.5"	25.5 gal	48" – 56"
CWM-R2914-4k	4 large 29" flat-back	14"	18.5"	34 gal	56" – 66"
CWM-R2914-5k	5 large 29" flat-back	14"	18.5"	42.5 gal	66" – 74"
CWM-R2914-5kE	5 large 29" flat-back & extension module	14"	18.5"	44.5 gal	74" +
CWM-R2920-2k	2 large 29" flat-back	20"	18.5"	20.8 gal	42" – 48"
CWM-R2920-3k	3 large 29" flat-back	20"	18.5"	31.2 gal	48" – 56"
CWM-R2920-4k	4 large 29" flat-back	20"	18.5"	41.6 gal	56" – 66"
CWM-R2920-5k	5 large 29" flat-back	20"	18.5"	52 gal	66" – 74"
CWM-R2920-5kE	5 large 29" flat-back & extension module	20"	18.5"	54 gal	74" +



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