

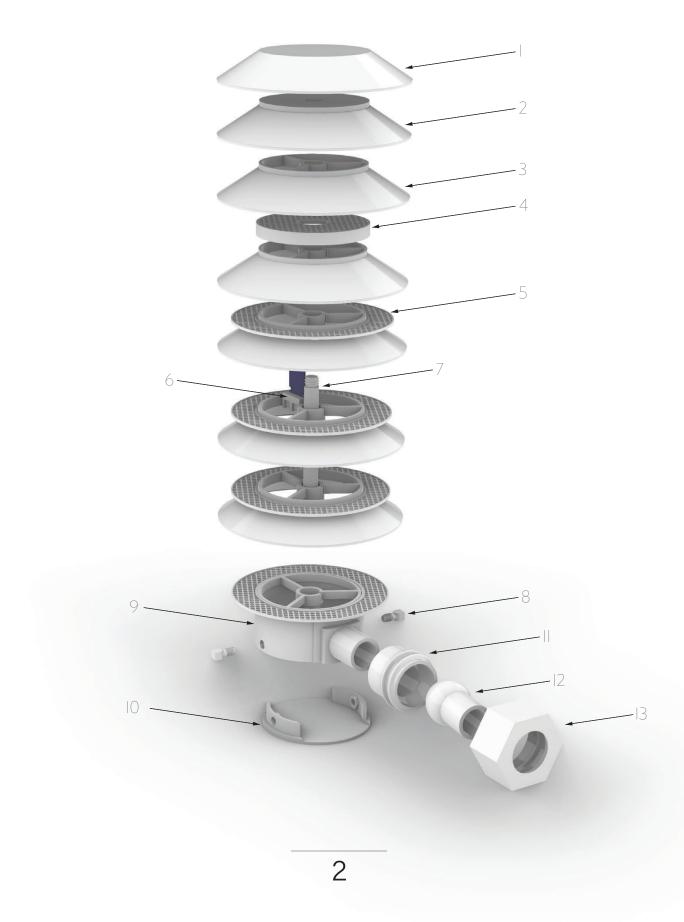
CLIMATE CHANGE XPLORERS ECC XATMOS NODE ASSEMBLY





EXPLODED COMPONENTS

The ATMOS Node allows multiple atmospheric conditions to be sampled and measured while protecting the grove sensors from direct sunlight.

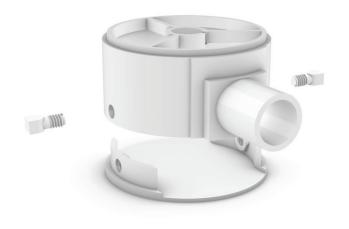


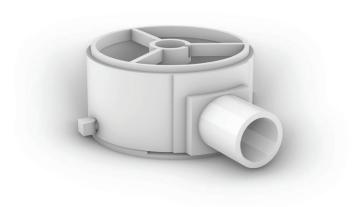
COMPONENTS LIST

#	DESCRITION	QUANTITY
	Top Leaf	I
2	Single Leaf	
3	Mid Leaf	5
4	Center Screen	
5	Screen Ring	4
6	Sensor Clip	
7	Shaft	
8	Fastener	2
9	Base	
10	Base Plate	
	Swivel Innerlock	
12	Swivel Ball Joint Bar	
13	Swivel Outerlock	

ASSEMBLY STEP 1

Attach Base Plate to Base with 2 Fasteners. Make sure Base Plate threads are lined up with Base holes.





Place one Screen Ring on the top end of the Base.

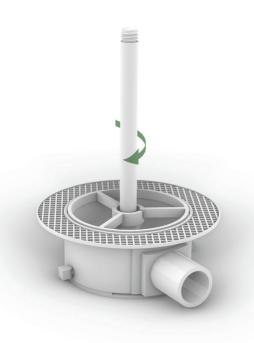




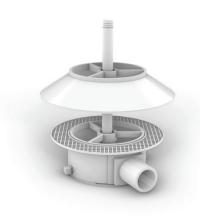
ASSEMBLY STEP 3

Thread the short end of the Shaft (2 threads) into the center of the Base.





Position the first Mid Leaf down the Shaft making sure to line up the tongue in the center of the leaf with the grove in the center of thee base.

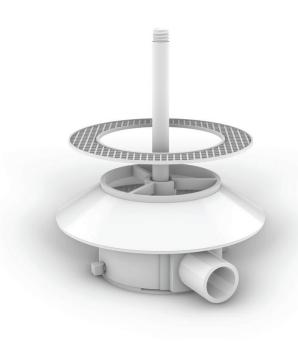






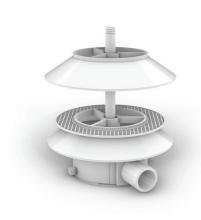
ASSEMBLY STEP 5

Place the second screen Ring on top of the first mid Leaf.





Position the second Mid Leaf down the Shaft making sure to line up the tongue in the center of the leaf with the grove in the center of the first leaf.

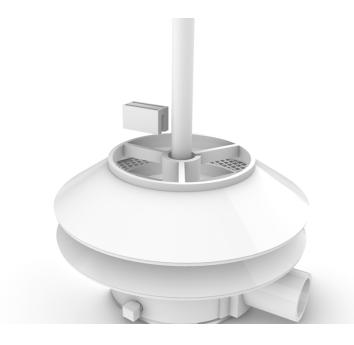






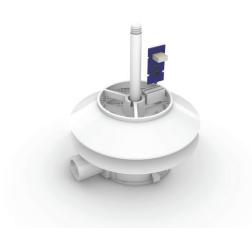
ASSEMBLY STEP 7

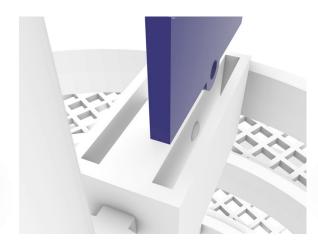
Connect the Grover Sensor Clip holder to the inner arms of the second Mid Leaf.





Slot the grove Temperature Sensor into the Clip being sure to snap the sensor in place over the bump within the slot of the clip.







ASSEMBLY STEP 9

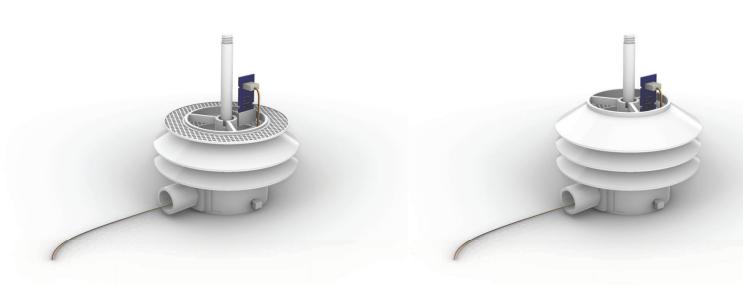
Connect the 20 cm or 50 cm grove cable to the sensor and run the wires down through the ATMOS node out of the cylinder at the base.







Position the Third Screen Ring and Mid Leaf down the Shaft repeating steps 5 and 6.



ASSEMBLY STEP 11

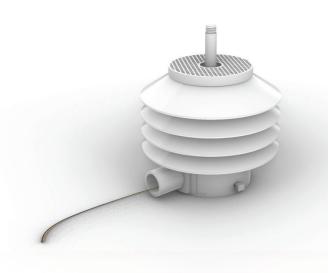
Position the Fourth Screen Ring and Mid Leaf down the Shaft repeating step 10.





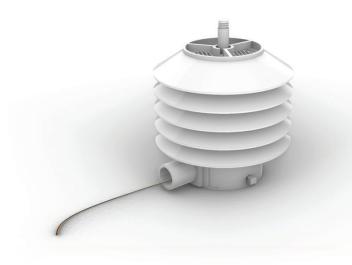
Fit the Center Screen around the rim of the fourth Mid Leaf. This screen is a tight fit it may be easier to fit the screen onto the leaf before placing the leaf on the stack.





ASSEMBLY STEP 13

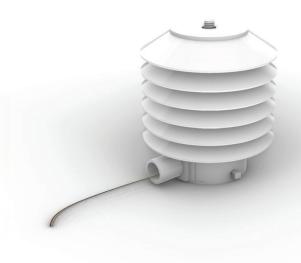
Fit the Fifth Mid Leaf into the center screen ensuring a tight fit slotting the tongue of the leaf into the grove of the underlying leaf.





Place the Single Leaf onto the shaft positioning the center ring into the center of the underlying leaf.





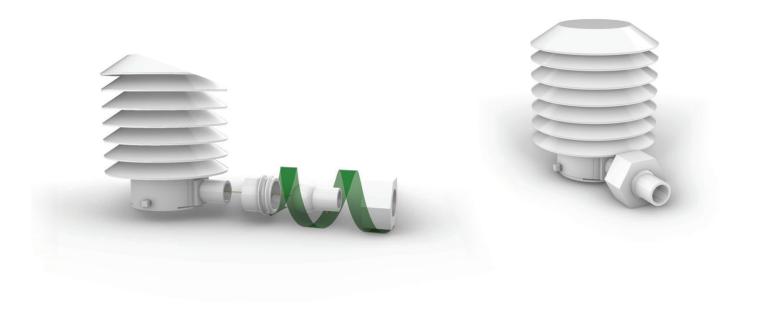
ASSEMBLY STEP 15

Thread the top leaf onto the shaft until snug.



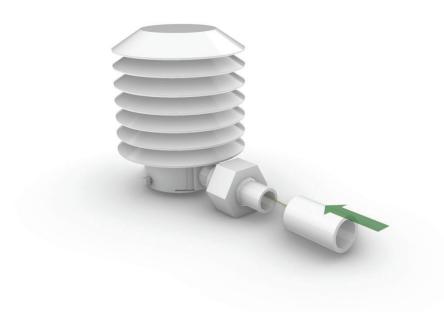


Thread the swivel outerlock onto the swivel innerlock placing the ball joint bar in the center. Then slot the swivel assembly onto the cylinder at the base.



ASSEMBLY STEP 17

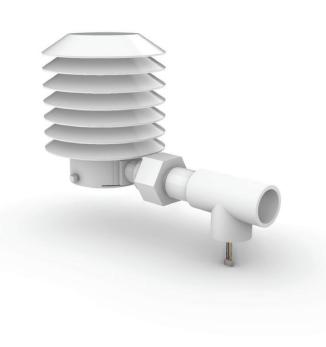
Cut a section of 1" PVC pipe 55 mm or 2 1/4" long and slot it onto the end of the ball joint bar.v





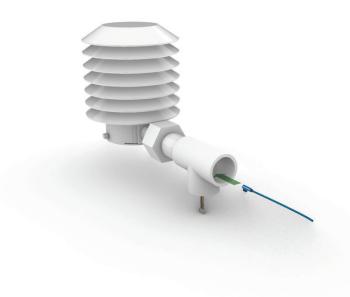
Place the PVC T-joint in the smaller PVC short Arm. Be sure that the grove cable end is sticking out of the bottom of the T-Joint.

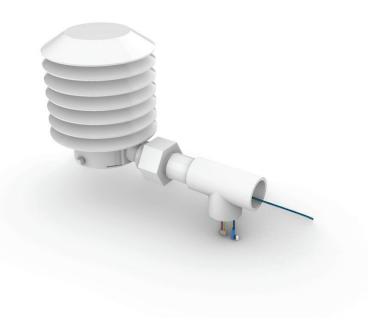




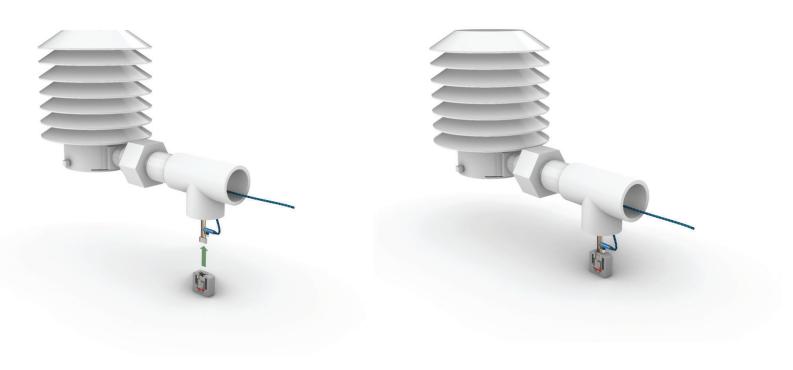
ASSEMBLY STEP 19

Insert the USB-C Power cord into the T-Joint.



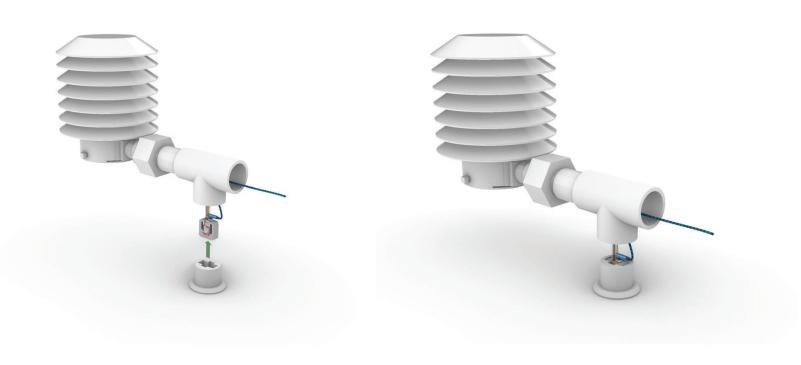


Connect the grove and power cords to the microprocessor.

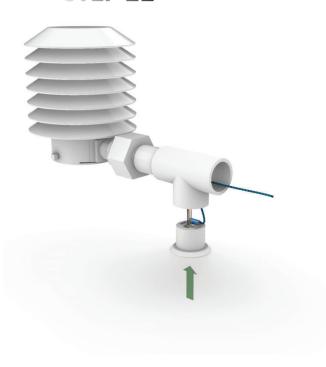


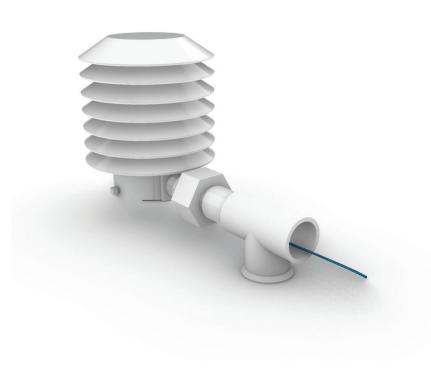
ASSEMBLY STEP 21

Insert the connected microprocessor into the micro holder.



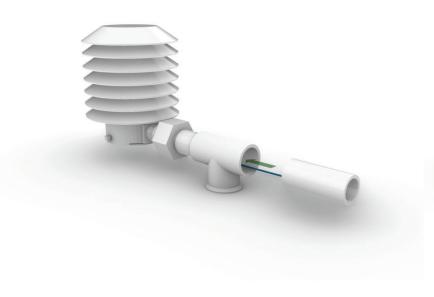
Push the Micro holder up into the T-joint.

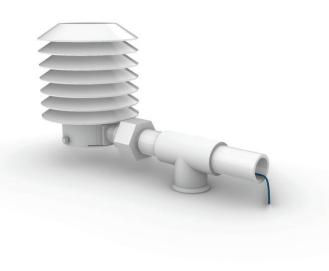




ASSEMBLY STEP 23

Cut another 3" piece of 1" PVC and insert it into the T-joint ensuring that the power cord is flowing through.





The wires and assembly should be assembled as such.

ASSEMBLY COMPLETE

