



# **HSA Sphere Assemblies**



The HELIOS® Sphere Assembly (HSA) is an innovative robust chassis to carry the integrating sphere and provide a home and hub for our optical and electrical components. The HSA features the Cage, a unique channeled aluminum structure designed for mounting and protection of our systems during bench top laboratory use or field use. There are (5) sphere models available to suit different sizes of apertures, spectral ranges and environmental testing needs.

#### Features

- Rugged cage design provides protection and support for HELIOS components and systems
- Spectraflect<sup>®</sup> and Spectralon<sup>®</sup> sphere material options
- Many additional ports for current and future requirements
- Modular baffles
- Plugs and covers for more ports (see specifications to ensure needed items are sourced)
- Powered universal plugs
- (7) port, powered USB hub and cable routing
- Memory capability in the sphere chassis to store configurations and settings
- Spectraflect touch-up paint and tool kit
- Optional travel cases for spheres may be added
- Optional Dark-Kit for enclosing HELIOS Sphere
  Cages to minimize stray light

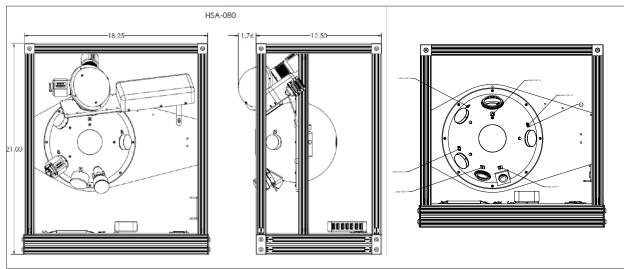


# **Specifications**

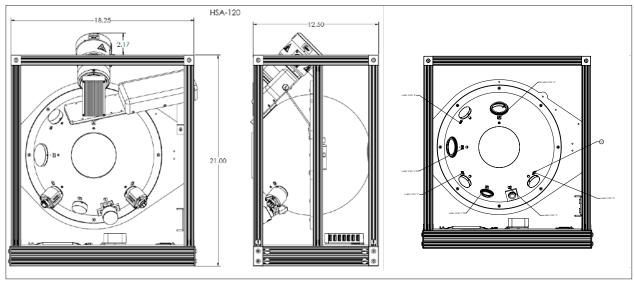
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Model Number	HSA-20F	HSA-12F	HSA-08F	HSA-12L	HSA-08L
Coating/Material:	Spectraflect	Spectraflect	Spectraflect	Spectralon	Spectralon
Sphere Internal Diameter: Inches (Meters)	20 (0.5)	12 (0.3)	8 (0.2)	11.5 (0.29)	7.5 (0.19)
Frame Type:	20" Cage	12" Cage	12" Cage	12" Cage	12" Cage
Output Port Size: Inches (Meters)	8" (0.2)	4" (O.1)	2" (0.05)	4" (O.1)	2" (0.05)
Port Cover (black) For Output:	(1) 8"	(1) 4"	(1) 2"	(1) 4"	(1) 2"
Number of Input Ports - (#) Size:	(1)-1.75", (1)-1.5", (4)-1"	(1)-1.75", (1)-1.5", (3)-1"	(1) 1.5", (3) 1"	(1)-1.75", (1)-1.5", (3)-1"	(1) 1.5", (3) 1"
Number of Detector Ports - (#) Size:	(1) 1", (1) 0.5" w/wedge	(1) 1", (1) 0.5" w/wedge	(1) 1", (1) 0.5" w/wedge	(1) 1", (1) 0.5" w/wedge	(1) 1", (1) 0.5" w/wedge
Reducers for Input Ports - (#) Size:	None	None	None	None	None
Port Plugs (white) for Input Ports - Sizes:	(3) 1"	(3) 1"	(3) 1"	(3) 1"	(3) 1"
Baffle Configuration:	Diff/Flag/Flag/Flag/Flag	Diff/Flag/Flag/Flag	Diff/Flag/Flag/Flag	Diff/Flag/Flag/Flag	Diff/Flag/Flag/Flag
Baffle Locations: (O'Clock)	12/1/4/8/10	12/4/8/10	12/3/8/10	12/4/8/10	12/3/8/10
Baffle Plugs:	N/A	N/A	N/A	(3) SL Baffle Plugs	(3) SL Baffle Plugs
Labsphere Tool Kit:	Yes	Yes	Yes	Yes	Yes
Spectraflect Touch Up Kit:	Yes	Yes	Yes	Yes	Yes
Powered Universal Plug:	(2)	(2)	(2)	(2)	(2)
7 Port Powered USB Hub:	Yes	Yes	Yes	Yes	Yes



### HSA-080 Dimensional Drawing



HSA-120 Dimensional Drawing



## HSA-200 Dimensional Drawing

