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Find the *Newport / Oriel 60000* at our website: *Click HERE*

Oriel Series Q Housings



60000 Series Q Housing with various optical accessories.

- Hinged cover design simplifies lamp interchange
- Versatile; holds low wattage arc, QTH and deuterium lamps, and IR elements
- Multiple output ports for simultaneous illumination of various samples
- Uses natural convection cooling, which is acoustically quiet and vibration free for more stable light output
- Precision X-Y-Z adjustment for accurate lamp positioning

The Series Q Housing, named for its *quiet convection cooling*, is one of our most popular housings for low wattage lamps. It's price, size, and versatility make it attractive to researchers. Now, we have a new model that allows quick access to the lamp, simplifying lamp interchange. With the hinged cover model 60030, you don't have to lift the entire cover off the lamp housing. The 60030 has three output ports, compared to four for the 60000.

In order to make the Series Q so versatile (it holds 22 different lamps or elements, and has multiple output ports), we made it a modular enclosure. The heart of the enclosure is the model 60000 or 60030 Series Q, which is a shell with an X-Y-Z adjustable lamp base. Z travel is ±0.075 inch (±2.0 mm). To turn it into a functional lamp housing, you simply add the necessary lamp mounting hardware and condensing optics.

To Build a Complete Series Q System

We offer complete arc (see page 87) and quartz tungsten halogen (see page 126) based Series Q Systems. These systems feature the 60000 Series Q Housing. You can easily build your own systems using the 60030 Hinged Series Q Housing, or a different configuration with the 60000. You will need the following components:

- Series Q Housing
- Condensing Lens Assembly
- Rear Reflector (optional)
- Interface Kit
- Lamp Socket Adapter
- Power Supply and appropriate cables
- Lamp

Which Condenser Do I Choose?

The Series Q Housings do not include a condenser or a rear reflector; you must order them separately. We offer various condensers; they differ in the lens material, F/# and collection efficiency. We compare them in Table 3. All condensers are the 1.5-Inch Series size. Most of the condensers produce a 1.3-inch (33 mm) diameter collimated beam. We also offer imaging condensers which produce a focused spot. Typical spot sizes are listed in Table 2. The asphere condensers are "corrected optics." Their design ensures that they are corrected for spherical aberration and minimize lateral chromatic aberration.

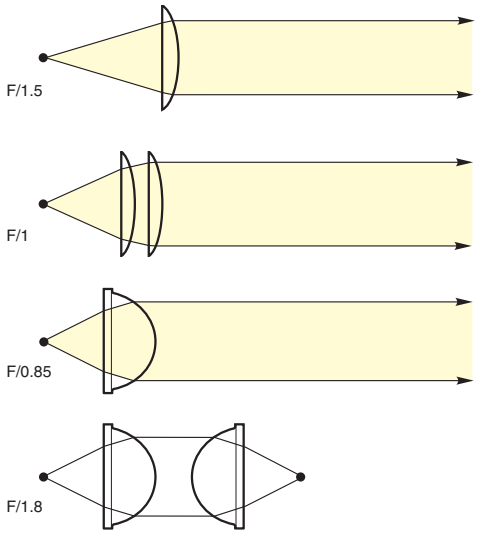


Fig. 1 Condensers for Series Q Housing.

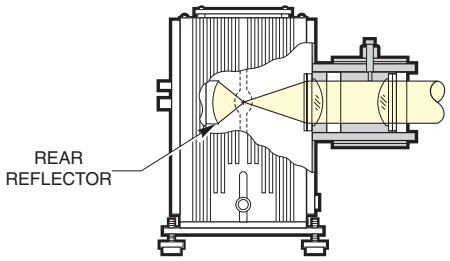


Fig. 2 Use a rear reflector to collect the lamp's back radiation.

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Holds 22 Different Lamps and IR Elements

The Series Q holds 5 families of lamps; a different interface kit is needed for each family. Within the same family, you can interchange lamps by changing socket adapters. We list all the lamps, with necessary mounting hardware, below.

Table 1 Lamps and Lamp Mounting Hardware

Lamp Family	Lamp Type	Lamp Model No.	Interface Kit Model No.	Socket Adapter Model No.
DC Arc	50 W Mercury	6282	60025	60013
	100 W Mercury	6281	60025	60012
	75 W Xe, High Stability	6247	60025	60021
	75 W Xenon	6251NS	60025	60014
	75 W Xenon, OF	6263	60025	60014
	100 W Xenon, OF	6257	60025	60014
Pulsed Arc	0.32 J Guided Arc	6426	66016	60018
	0.5 J Large Bulb	6427	66017	60019
QTH*	10 W QTH (H)	6318	60090	60042
	10 W QTH (V)	6318	60090	60045
	20 W QTH (H)	6319	60090	60042
	20 W QTH (V)	6319	60090	60045
	50 W, Short Filament (H)	6332	60090	60043
	50 W, Short Filament (V)	6332	60090	60046
	50 W Long Filament QTH (H)	6337	60090	60043
	50 W Long Filament QTH (V)	6337	60090	60046
	100 W QTH (H)	6333	60090	60043
	100 W QTH (V)	6333	60090	60046
DC Deuterium	30 W, High Uniformity, OF	63161	60093**	Not Required
	30 W High Uniformity (Full Spectrum)	63162	60093**	Not Required
	30 W High Irradiance (Ozone Free)	63164	60093**	Not Required
	30 W High Irradiance (Full Spectrum)	63163	60093**	Not Required
	30 W High Irradiance/Stability (Ozone Free)	63165	60093**	Not Required
IR Elements	140 W IR Emitter	6363	60090	60041
	22 W Ceramic	6575	60090	60048
	9 W Low Cost	6580	60090	60048
	0.8 W Miniature IR element	6581	60090	60048

* (H) = Lamp mounted horizontally (V) = Lamp mounted vertically.
** Choose this interface kit if you are using the 68942 OEM Deuterium Power Supply. If you are using the Fully Featured 68840 Power Supply, you'll need the 60023 Interface Kit.

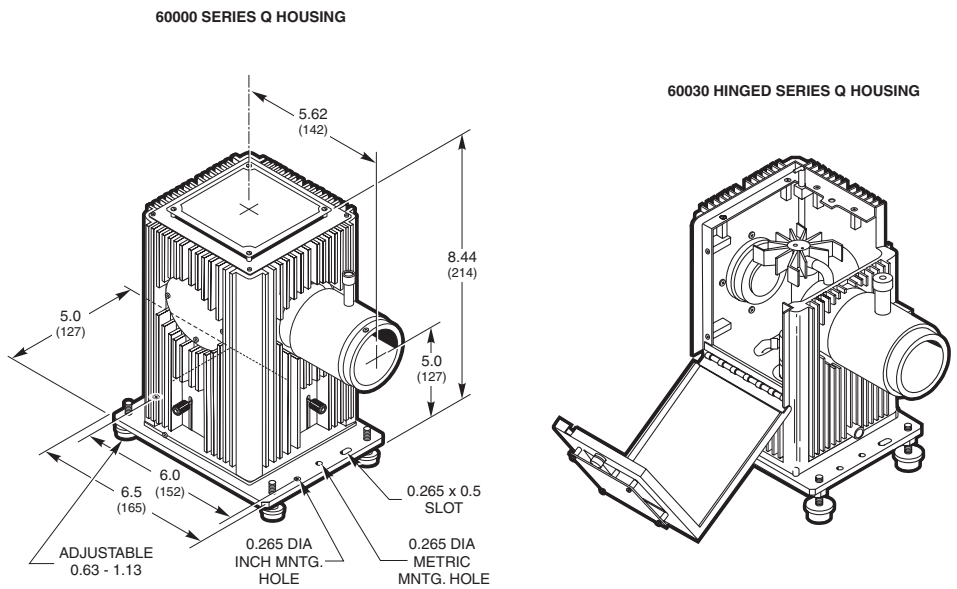


Fig. 3 Dimensional diagram of Series Q Housings.

Table 2 Typical Beam Size with 60007 Imaging Condenser

Lamp Type	Effective Arc Size	Typical Focused Spot Size with Focusing Condensers
50 W Mercury	0.2 x 0.35 mm	0.5 mm
100 W Mercury	0.25 x 0.25 mm	0.6 mm
75 W Xenon	0.25 x 0.5 mm	0.75 mm
100 W Xenon, OF	0.4 x 0.8 mm	1 mm

Table 3 Comparison of Condensers for Series Q Housing

Condenser Model No.	Condenser Type	Output Beam	Lens Multiplication Factor	Transmittance Range of Lens Material	Size Series
60006	F/1.5, single element fused silica	Colllimated	0.06	200 - 2500	1.5 Inch
67008	F/2.2, fused silica asphere	Colllimated	0.05	200 - 2500	1.5 inch
60007	F/2.2, fused silica asphere	Focused	0.05	200 - 2500	1.5 Inch
67017	F/1, fused silica asphere	Colllimated	0.11	200 - 2500	1.5 inch
67018	F/1, fused silica asphere	Focused	0.11	200 - 2500	1.5 inch
60077	F/1, zine selenide asphere	Colllimated	*	0.65 - 12 μm	1.5 inch
60009	F/1, germanium plano convex	Colllimated	*	1.9 - 15 μm	1.5 Inch
60008	F/0.85, Prex asphere	Colllimated	0.13	350 - 2500	1.5 Inch

* We do not list IR lens multiplication factors since with the larger size of IR elements the definition is somewhat ambiguous. However, an approximate value can be obtained by taking the corresponding F/# silica lens value and correcting for higher fresnel reflection losses of higher index IR materials.

Ordering Information

Lamp Housing and Components

Model	Description
60000	Series Q Housing Order up to 4 condenser(s) and rear reflector(s) combination, separately
60030	Hinged Series Q Housing Order up to 3 condenser(s) and rear reflector combination, separately
60005	Rear Reflector Assembly
60015	Replacement Reflector

Condensing Lens Assemblies

F/#	Lens Material	Output Beam	Model
F/1.5	UV grade fused silica	Colllimated	60006
F/2.2	UV grade fused silica	Colllimated	67008
F/2.2	UV grade fused silica	Focused	60007
F/1	UV grade fused silica	Colllimated	67017
F/1	UV grade fused silica	Focused	67018
F/1	Zinc selenide	Colllimated	60077
F/1.1	Germanium	Colllimated	60009
F/0.85	Pyrex®	Colllimated	60008

* Choose the 60093 Interface Kit if you are using the 68942 OEM Deuterium Power Supply. If you are using the Fully Featured 68840 Power Supply, you'll need the 60023 Interface Kit.

See our website for more info

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Lamp Mounting Accessories

		Required Components					
						Power Supply	
Source Model	Source Type	Series Q Housing	Interface Kit Model	Socket Adapter Model	Cable Model	Basic Model	Full Featured Model
DC Arc Lamps							
6251NS	75 W Xe	Series Q Housing with 1, 2, 3, or 4 condensers, and 1 or 2 rear reflector assemblies	60025	60014	70051		69907
6263	75 W Xe (Ozone Free)		60025	60014	70051		69907
6247	75 W Xe (High Stability)		60025	60014	70051		69907
6257	100 W Xe (Ozone Free)		60025	60014	70051		69907
6282	50 W Hg		60025	60013	70050		69907
6281	100 W Hg		60025	60012	70050		69907
Pulsed Arc Lamps							
6426	0.32 J Guided Arc	Series Q Housing with 1, 2, 3, or 4 condensers, and 1 or 2 rear reflector assemblies	66016	60018	Included		68825
6427	0.5 J Large Bulb		66017	60019	Included		68826
Quartz Tungsten Halogen Lamps							
6318	10 W	Series Q Housing with 1 or 2 condensers, and 1 rear reflector assembly (with 1 condenser)	60090	60042 H	Included	68938	69931
				60045 V	Included		
6319	20 W		60090	60042 H	Included	68938	69931
				60045 V	Included		
6332	50 W, Short Filament		60090	60043 H	Included	68938	69931
				60046 V	Included		
6337	50 W, Long Filament		60090	60043 H	Included	68938	69931
				60046 V	Included		
6333	100 W		60090	60043 H	Included	68938	69931
				60046 V	Included		
DC Deuterium Lamps							
63161	30 W High Uniformity (Ozone Free)	Series Q Housing with 1 condenser	60093 or 60023*		Included	68942	68840
63162	30 W High Uniformity (Full Spectrum)		60093 or 60023*		Included	68942	68840
63164	30 W High Irradiance (Ozone Free)		60093 or 60023*		Included	68942	68840
63163	30 W High Irradiance (Full Spectrum)		60093 or 60023*		Included	68942	68840
63165	30 W High Irradiance/Stability (Ozone Free)		60093 or 60023*		Included	68942	68840
IR Sources							
6363	140 W IR Element	Series Q Housing with 1, 2, 3, or 4 condensers	60090	60041	Included	68938	
6575	22 W Ceramic		60090	60048	Included	68938	
6580	9 W Low Cost		60090	60048	Included	68938	
6581	0.8 W Miniature IR Element		60090	60048	Included	68938	

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