ORTEC

Dewars and Cryostats

HPGe detector cooling

Liquid-nitrogen cooling for HPGe detectors, with cryostats and dewars in a range of configurations and sizes.



Cooling technology
Liquid nitrogen (LN_2) [1]

Cryostat configurations
Vertical and horizontal dipstick, portable (all-position or multi-orientation Gamma Gage), down-looking, side-looking and J-type, depending on detector configuration [2]

Dewar capacity
Gamma Gage: 1.2/3/5 L ; MOD multi-orientation: 3/7 L; side-looking and down-looking: 7.5/13/30 L; dipstick cryostats: 30 L (DWR-30); shallow-hole probe: 0.7 L [2]

Specifications

Cooling technology	Liquid nitrogen (LN_2)	[1]
Cryostat configurations	Vertical and horizontal dipstick, portable (all-position or multi-orientation Gamma Gage), down-looking, side-looking and J-type, depending on detector configuration	[2]
Dewar capacity	Gamma Gage: 1.2/3/5 L; MOD multi-orientation: 3/7 L; side-looking and down-looking: 7.5/13/30 L; dipstick cryostats: 30 L (DWR-30); shallow-hole probe: 0.7 L	[2]
PopTop	Removable capsule with separate vacuum; compatible cryostat required	[2]
Streamline	Capsule and cryostat share vacuum and are ordered together	[2]
Dimensioning	Cryostat diameter matched to detector endcap	[2]
Low background	LB/XLB options for compatible cryostat models	[2]

Models

Model	Cryostat type	Vacuum arrangement	Ordering	Endcap configurations in GEM table
CFG-GG	Gamma Gage [3]	Detector capsule and cryostat share a vacuum [2]	May only be purchased together with a detector [3]	70, 76, 83, 95 or 108 mm; matching suffix required [3]
CFG-HJ	J-type with remote preamplifier [3]	Detector capsule and cryostat share a vacuum [2]	May only be purchased together with a detector [3]	70, 76, 83, 95 or 108 mm; matching suffix required [3]
CFG-LP-GG-70	Gamma Gage [3]	Detector capsule and cryostat share a vacuum [4]	May only be purchased together with a detector [3]	–

CFG-LP-SD-70	Down-looking [3]	Detector capsule and cryostat share a vacuum [4]	May only be purchased together with a detector [3]	–
CFG-LP-SH-70	Horizontal dipstick cryostat [3]	Detector capsule and cryostat share a vacuum [4]	May only be purchased together with a detector [3]	–
CFG-LP-SJ-70	J-type [3]	Detector capsule and cryostat share a vacuum [4]	May only be purchased together with a detector [3]	–
CFG-LP-SL-70	Side-looking [3]	Detector capsule and cryostat share a vacuum [4]	May only be purchased together with a detector [3]	–
CFG-LP-SV-70	Vertical dipstick cryostat [3]	Detector capsule and cryostat share a vacuum [4]	May only be purchased together with a detector [3]	–
CFG-MG4-1.2G	Gamma Gage cryostat with pistol grip [3]	–	–	–
CFG-PD4-7.5	Downlooking cryostat [3]	–	–	–
CFG-PD4-13	Downlooking cryostat [3]	–	–	–
CFG-PD4-30	Downlooking cryostat [3]	–	–	–
CFG-PG4-1.2	Gamma Gage cryostat [3]	–	–	–
CFG-PG4-3	Gamma Gage cryostat [3]	–	–	–
CFG-PG4-5	Gamma Gage cryostat [3]	–	–	–
CFG-PH4	Horizontal dipstick cryostat [3]	–	–	–
CFG-PMOD4-3	Gamma Gage cryostat with OD dewar [3]	–	–	–
CFG-PMOD4-7	Gamma Gage cryostat with OD dewar [3]	–	–	–
CFG-PS4-7.5	Sidelooking cryostat [3]	–	–	–
CFG-PS4-13	Sidelooking cryostat [3]	–	–	–
CFG-PS4-30	Sidelooking cryostat [3]	–	–	–
CFG-PV4	Vertical dipstick cryostat [3]	–	–	–
CFG-SD	Down-looking [3]	Detector capsule and cryostat share a vacuum [2]	May only be purchased together with a detector [3]	70, 76, 83, 95 or 108 mm; matching suffix required [3]
CFG-SH	Horizontal dipstick cryostat [3]	Detector capsule and cryostat share a vacuum [2]	May only be purchased together with a detector [3]	70, 76, 83, 95 or 108 mm; matching suffix required [3]
CFG-SJ	J-type [3]	Detector capsule and cryostat share a vacuum [2]	May only be purchased together with a detector [3]	70, 76, 83, 95 or 108 mm; matching suffix required [3]
CFG-SL	Side-looking [3]	Detector capsule and cryostat share a vacuum [2]	May only be purchased together with a detector [3]	70, 76, 83, 95 or 108 mm; matching suffix required [3]
CFG-SV	Vertical dipstick cryostat [3]	Detector capsule and cryostat share a vacuum [2]	May only be purchased together with a detector [3]	70, 76, 83, 95 or 108 mm; matching suffix required [3]

DWR-0.7-SHP-G	–	–	Order code D WR-0.7-SHP-G; selected a s the dewar for a CFG-GG or C FG-LP-GG-70 Streamline G amma Gage cryostat [3]	–
DWR-1.2G	–	–	–	–
DWR-3.0G	–	–	–	–
DWR-5.0G	–	–	–	–
DWR-7.5B	–	–	–	–
DWR-7.5D	–	–	–	–
DWR-13B	–	–	–	–
DWR-13D	–	–	–	–
DWR-30	–	–	–	–
DWR-30-OP	–	–	–	–
DWR-30B	–	–	–	–
DWR-30D	–	–	–	–
DWR-MOD-3L	–	–	–	–
DWR-MOD-7L	–	–	–	–
DWR-S/F	–	–	–	–
Gamma Gage II	–	–	–	–

Model	Dewar choices in configuration guide	Dewar	Background configurations	Detector option
CFG-GG	DWR-1.2G / DWR-3.0G / DWR-5.0G / DWR-MOD-3L / D WR-MOD-7L / DW R-0.7-SHP-G [3]	Required and selected separately; not included with cryostat model [3]	LB [3]	–
CFG-HJ	DWR-7.5B / DWR-13B / DWR-30B / MOBIUS-B [3]	Required and selected separately; not included with cryostat model [3]	LB [3]	nly for detectors with the -HJ option [3]
CFG-LP-GG-70	DWR-1.2G / DWR-3.0G / DWR-5.0G / DWR-MOD-3L / D WR-MOD-7L / DW R-0.7-SHP-G [3]	Required and selected separately; not included with cryostat model [3]	–	–
CFG-LP-SD-70	DWR-7.5D / DWR-13D / DWR-30D [3]	Required and selected separately; not included with cryostat model [3]	–	–
CFG-LP-SH-70	DWR-30 / DWR-30-OP / MO BIUS-ST [3]	Required and selected separately; not included with cryostat model [3]	–	–
CFG-LP-SJ-70	DWR-7.5B / DWR-13B / DWR-30B / MOBIUS-B [3]	Required and selected separately; not included with cryostat model [3]	–	–
CFG-LP-SL-70	DWR-7.5B / DWR-13B / DWR-30B / MOBIUS-B [3]	Required and selected separately; not included with cryostat model [3]	–	–

CFG-LP-SV-70	DWR-30/DWR-30-OP/MOBIUS-ST [3]	Required and selected separately; not included with cryostat model [3]	–	–
CFG-MG4-1.2G	–	–	–	–
CFG-PD4-7.5	–	–	–	–
CFG-PD4-13	–	–	–	–
CFG-PD4-30	–	–	–	–
CFG-PG4-1.2	–	–	–	–
CFG-PG4-3	–	–	–	–
CFG-PG4-5	–	–	–	–
CFG-PH4	–	Not included; selected separately [3]	–	–
CFG-PMOD4-3	–	–	–	–
CFG-PMOD4-7	–	–	–	–
CFG-PS4-7.5	–	–	–	–
CFG-PS4-13	–	–	–	–
CFG-PS4-30	–	–	–	–
CFG-PV4	–	Not included; selected separately [3]	–	–
CFG-SD	DWR-7.5D / DWR-13D / DWR-30D [3]	Required and selected separately; not included with cryostat model [3]	LB; XLB for SD/SH/SJ/SL/SV [3]	–
CFG-SH	DWR-30/DWR-30-OP/MOBIUS-ST [3]	Required and selected separately; not included with cryostat model [3]	LB; XLB for SD/SH/SJ/SL/SV [3]	–
CFG-SJ	DWR-7.5B / DWR-13B / DWR-30B / MOBIUS-B [3]	Required and selected separately; not included with cryostat model [3]	LB; XLB for SD/SH/SJ/SL/SV [3]	–
CFG-SL	DWR-7.5B / DWR-13B / DWR-30B / MOBIUS-B [3]	Required and selected separately; not included with cryostat model [3]	LB; XLB for SD/SH/SJ/SL/SV [3]	–
CFG-SV	DWR-30/DWR-30-OP/MOBIUS-ST [3]	Required and selected separately; not included with cryostat model [3]	LB; XLB for SD/SH/SJ/SL/SV [3]	–
DWR-0.7-SHP-G	–	–	–	–
DWR-1.2G	–	–	–	–
DWR-3.0G	–	–	–	–
DWR-5.0G	–	–	–	–
DWR-7.5B	–	–	–	–
DWR-7.5D	–	–	–	–
DWR-13B	–	–	–	–
DWR-13D	–	–	–	–
DWR-30	–	–	–	–
DWR-30-OP	–	–	–	–

DWR-30B	–	–	–	–
DWR-30D	–	–	–	–
DWR-MOD-3L	–	–	–	–
DWR-MOD-7L	–	–	–	–
DWR-S/F	–	–	–	–
Gamma Gage II	–	–	–	–

Model	Matching endcap	Adapter for DWR-30 / DWR-30-OP	Detector configuration	Measurement geometry
CFG-GG	–	–	–	–
CFG-HJ	–	–	–	–
CFG-LP-GG-70	70 mm; the cryostat diameter must match the -70 detector endcap [4]	–	–	–
CFG-LP-SD-70	70 mm; the cryostat diameter must match the -70 detector endcap [4]	–	–	–
CFG-LP-SH-70	70 mm; the cryostat diameter must match the -70 detector endcap [4]	CFG-ADAPTOR included: 1 .25 to 1.5 inches [3]	–	–
CFG-LP-SJ-70	70 mm; the cryostat diameter must match the -70 detector endcap [4]	–	–	–
CFG-LP-SL-70	70 mm; the cryostat diameter must match the -70 detector endcap [4]	–	–	–
CFG-LP-SV-70	70 mm; the cryostat diameter must match the -70 detector endcap [4]	CFG-ADAPTOR included: 1 .25 to 1.5 inches [3]	–	–
CFG-MG4-1.2G	–	–	PopTop; detector capsule has its own vacuum [2]	Portable Gamma Gage [2]
CFG-PD4-7.5	–	–	PopTop; detector capsule has its own vacuum [2]	Downlooking [3]
CFG-PD4-13	–	–	PopTop; detector capsule has its own vacuum [2]	Downlooking [3]
CFG-PD4-30	–	–	PopTop; detector capsule has its own vacuum [2]	Downlooking [3]
CFG-PG4-1.2	–	–	PopTop; detector capsule has its own vacuum [2]	Gamma Gage with all-attitude (all-orientation) dewar; can be used in any orientation [5]
CFG-PG4-3	–	–	PopTop; detector capsule has its own vacuum [2]	Gamma Gage with all-attitude (all-orientation) dewar; can be used in any orientation [5]

CFG-PG4-5	–	–	PopTop; detector capsule has its own vacuum [2]	Gamma Gage with all-attitude (all-orientation) dewar; can be used in any orientation [5]
CFG-PH4	–	–	PopTop; detector capsule has its own vacuum [2]	Horizontal [3]
CFG-PMOD4-3	–	–	PopTop; detector capsule has its own vacuum [2]	Multi-orientation (MOD) d ewar: vertically up, down o r horizontal [5]
CFG-PMOD4-7	–	–	PopTop; detector capsule has its own vacuum [2]	Multi-orientation (MOD) d ewar: vertically up, down o r horizontal [5]
CFG-PS4-7.5	–	–	PopTop; detector capsule has its own vacuum [2]	Sidelooking [3]
CFG-PS4-13	–	–	PopTop; detector capsule has its own vacuum [2]	Sidelooking [3]
CFG-PS4-30	–	–	PopTop; detector capsule has its own vacuum [2]	Sidelooking [3]
CFG-PV4	–	–	PopTop; detector capsule has its own vacuum [2]	Vertical [3]
CFG-SD	–	–	–	–
CFG-SH	–	CFG-ADAPTOR included: 1 .25 to 1.5 inches [3]	–	–
CFG-SJ	–	–	–	–
CFG-SL	–	–	–	–
CFG-SV	–	CFG-ADAPTOR included: 1 .25 to 1.5 inches [3]	–	–
DWR-0.7-SHP-G	–	–	–	–
DWR-1.2G	–	–	–	–
DWR-3.0G	–	–	–	–
DWR-5.0G	–	–	–	–
DWR-7.5B	–	–	–	–
DWR-7.5D	–	–	–	–
DWR-13B	–	–	–	–
DWR-13D	–	–	–	–
DWR-30	–	–	–	–
DWR-30-OP	–	–	–	–
DWR-30B	–	–	–	–
DWR-30D	–	–	–	–
DWR-MOD-3L	–	–	–	–
DWR-MOD-7L	–	–	–	–
DWR-S/F	–	–	–	–
Gamma Gage II	–	–	–	–

Model	Dewar capacity	Endcap	Handle	Tripod mounting
CFG-GG	–	–	–	–
CFG-HJ	–	–	–	–
CFG-LP-GG-70	–	–	–	–
CFG-LP-SD-70	–	–	–	–
CFG-LP-SH-70	–	–	–	–
CFG-LP-SJ-70	–	–	–	–
CFG-LP-SL-70	–	–	–	–
CFG-LP-SV-70	–	–	–	–
CFG-MG4-1.2G	1.2 L; dewar included [3]	For endcaps of 83 mm diameter or smaller [3]	Pistol grip [3]	Mounting holes to fit the M-1-T1 tripod; the tripod is a separate accessory (M-1-T1 Variable Length Tripod) [3]
CFG-PD4-7.5	7.5 L; dewar included [3]	–	–	–
CFG-PD4-13	13 L; dewar included [3]	–	–	–
CFG-PD4-30	30 L; dewar included [3]	–	–	–
CFG-PG4-1.2	1.2 L; dewar included [3]	For endcaps of 83 mm diameter or smaller [3]	–	–
CFG-PG4-3	3 L; dewar included [3]	–	–	–
CFG-PG4-5	5 L; dewar included [3]	–	–	–
CFG-PH4	–	–	–	–
CFG-PMOD4-3	3 L; dewar included [3]	–	–	–
CFG-PMOD4-7	7 L; dewar included [3]	–	–	–
CFG-PS4-7.5	7.5 L; dewar included [3]	–	–	–
CFG-PS4-13	13 L; dewar included [3]	–	–	–
CFG-PS4-30	30 L; dewar included [3]	–	–	–
CFG-PV4	–	–	–	–
CFG-SD	–	–	–	–
CFG-SH	–	–	–	–
CFG-SJ	–	–	–	–
CFG-SL	–	–	–	–
CFG-SV	–	–	–	–
DWR-0.7-SHP-G	–	–	–	–
DWR-1.2G	–	–	–	–
DWR-3.0G	–	–	–	–
DWR-5.0G	–	–	–	–
DWR-7.5B	–	–	–	–
DWR-7.5D	–	–	–	–
DWR-13B	–	–	–	–
DWR-13D	–	–	–	–

DWR-30	–	–	–	–
DWR-30-OP	–	–	–	–
DWR-30B	–	–	–	–
DWR-30D	–	–	–	–
DWR-MOD-3L	–	–	–	–
DWR-MOD-7L	–	–	–	–
DWR-S/F	–	–	–	–
Gamma Gage II	–	–	–	–

Model	Detector families	Dewar dimension Y (reference)	Dewar dimension Z (reference)	Dewar dimension Q (reference)
CFG-GG	–	–	–	–
CFG-HJ	–	–	–	–
CFG-LP-GG-70	–	–	–	–
CFG-LP-SD-70	–	–	–	–
CFG-LP-SH-70	–	–	–	–
CFG-LP-SJ-70	–	–	–	–
CFG-LP-SL-70	–	–	–	–
CFG-LP-SV-70	–	–	–	–
CFG-MG4-1.2G	GEM, GMX in compatible PopTop configuration [3]	–	–	–
CFG-PD4-7.5	GEM, PROFILE, GMX, GLP, SGD planar, SGD GEM in compatible PopTop configuration [3]	224 ± 13 mm; see drawing [2]	452 ± 5 mm; see drawing [2]	–
CFG-PD4-13	GEM, PROFILE, GMX, GLP, SGD planar, SGD GEM in compatible PopTop configuration [3]	307 ± 13 mm; see drawing [2]	429 ± 5 mm; see drawing [2]	–
CFG-PD4-30	GEM, PROFILE, GMX, GLP, SGD planar, SGD GEM in compatible PopTop configuration [3]	442 ± 13 mm; see drawing [2]	610 ± 5 mm; see drawing [2]	–
CFG-PG4-1.2	GEM, PROFILE, GMX, GLP, SGD planar, SGD GEM in compatible PopTop configuration [3]	157 ± 13 mm; see drawing [2]	229 ± 5 mm; see drawing [2]	229 ± 13 mm; see drawing [2]
CFG-PG4-3	GEM, PROFILE, GMX, GLP, SGD planar, SGD GEM in compatible PopTop configuration [3]	229 ± 13 mm; see drawing [2]	267 ± 5 mm; see drawing [2]	302 ± 13 mm; see drawing [2]
CFG-PG4-5	GEM, PROFILE, GMX, GLP, SGD planar, SGD GEM in compatible PopTop configuration [3]	229 ± 13 mm; see drawing [2]	419 ± 5 mm; see drawing [2]	302 ± 13 mm; see drawing [2]
CFG-PH4	GEM, PROFILE, GMX, GLP, SGD planar, SGD GEM in compatible PopTop configuration [3]	–	–	–

CFG-PMOD4-3	GEM, PROFILE, GMX, GLP, SGD planar, SGD GEM in compatible PopTop configuration [3]	157 ± 13 mm; see drawing [2]	292 ± 5 mm; see drawing [2]	229 ± 13 mm; see drawing [2]
CFG-PMOD4-7	GEM, PROFILE, GMX, GLP, SGD planar, SGD GEM in compatible PopTop configuration [3]	229 ± 13 mm; see drawing [2]	320 ± 5 mm; see drawing [2]	302 ± 13 mm; see drawing [2]
CFG-PS4-7.5	GEM, PROFILE, GMX, GLP, SGD planar, SGD GEM in compatible PopTop configuration [3]	224 ± 13 mm; see drawing [2]	452 ± 5 mm; see drawing [2]	–
CFG-PS4-13	GEM, PROFILE, GMX, GLP, SGD planar, SGD GEM in compatible PopTop configuration [3]	307 ± 13 mm; see drawing [2]	429 ± 5 mm; see drawing [2]	–
CFG-PS4-30	GEM, PROFILE, GMX, GLP, SGD planar, SGD GEM in compatible PopTop configuration [3]	442 ± 13 mm; see drawing [2]	610 ± 5 mm; see drawing [2]	–
CFG-PV4	GEM, PROFILE, GMX, GLP, SGD planar, SGD GEM in compatible PopTop configuration [3]	–	–	–
CFG-SD	–	–	–	–
CFG-SH	–	–	–	–
CFG-SJ	–	–	–	–
CFG-SL	–	–	–	–
CFG-SV	–	–	–	–
DWR-0.7-SHP-G	–	–	–	–
DWR-1.2G	–	–	–	–
DWR-3.0G	–	–	–	–
DWR-5.0G	–	–	–	–
DWR-7.5B	–	–	–	–
DWR-7.5D	–	–	–	–
DWR-13B	–	–	–	–
DWR-13D	–	–	–	–
DWR-30	–	–	–	–
DWR-30-OP	–	–	–	–
DWR-30B	–	–	–	–
DWR-30D	–	–	–	–
DWR-MOD-3L	–	–	–	–
DWR-MOD-7L	–	–	–	–
DWR-S/F	–	–	–	–
Gamma Gage II	GEM, GMX, GLP, PROFILE and Safeguards [6]	–	–	–

Model	Compatible dewars	Dipstick diameter	Dewar type	Dewar capacity in ordering table
CFG-GG	–	–	–	–
CFG-HJ	–	–	–	–
CFG-LP-GG-70	–	–	–	–
CFG-LP-SD-70	–	–	–	–
CFG-LP-SH-70	–	–	–	–
CFG-LP-SJ-70	–	–	–	–
CFG-LP-SL-70	–	–	–	–
CFG-LP-SV-70	–	–	–	–
CFG-MG4-1.2G	–	–	–	–
CFG-PD4-7.5	–	–	–	–
CFG-PD4-13	–	–	–	–
CFG-PD4-30	–	–	–	–
CFG-PG4-1.2	–	–	–	–
CFG-PG4-3	–	–	–	–
CFG-PG4-5	–	–	–	–
CFG-PH4	DWR-30, DWR-30-OP or MOBIUS-PT [3]	38 mm (1.5 in), drawing dimension [2]	–	–
CFG-PMOD4-3	–	–	–	–
CFG-PMOD4-7	–	–	–	–
CFG-PS4-7.5	–	–	–	–
CFG-PS4-13	–	–	–	–
CFG-PS4-30	–	–	–	–
CFG-PV4	DWR-30, DWR-30-OP or MOBIUS-PT [3]	38 mm (1.5 in), drawing dimension [2]	–	–
CFG-SD	–	–	–	–
CFG-SH	–	–	–	–
CFG-SJ	–	–	–	–
CFG-SL	–	–	–	–
CFG-SV	–	–	–	–
DWR-0.7-SHP-G	–	–	Shallow Hole Probe dewar [3]	0.7 L [3]
DWR-1.2G	–	–	All-orientation dewar [3]	1.2 L [3]
DWR-3.0G	–	–	All-orientation dewar [3]	3.0 L [3]
DWR-5.0G	–	–	All-orientation dewar [3]	5.0 L [3]
DWR-7.5B	–	–	Side-looking dewar [3]	7.5 L [3]
DWR-7.5D	–	–	Down-looking dewar [3]	7.5 L [3]
DWR-13B	–	–	Side-looking dewar [3]	13 L [3]
DWR-13D	–	–	Down-looking dewar [3]	13 L [3]

DWR-30	–	–	Top-port dewar [2]	30 L [3]
DWR-30-OP	–	–	ffset-port dewar [3]	30 L [3]
DWR-30B	–	–	Side-looking dewar [3]	30 L [3]
DWR-30D	–	–	Down-looking dewar [3]	30 L [3]
DWR-MOD-3L	–	–	Multi-orientation dewar (MOD) [3]	3 L [3]
DWR-MOD-7L	–	–	Multi-orientation dewar (MOD) [3]	7 L [3]
DWR-S/F	–	–	Storage/fill dewar [3]	–
Gamma Gage II	–	–	–	–

Model	Manufacturer cryostat/dewar selection	Detector connector	Intended configuration	Operating orientation
CFG-GG	–	–	–	–
CFG-HJ	–	–	–	–
CFG-LP-GG-70	–	–	–	–
CFG-LP-SD-70	–	–	–	–
CFG-LP-SH-70	–	–	–	–
CFG-LP-SJ-70	–	–	–	–
CFG-LP-SL-70	–	–	–	–
CFG-LP-SV-70	–	–	–	–
CFG-MG4-1.2G	–	–	–	–
CFG-PD4-7.5	–	–	–	–
CFG-PD4-13	–	–	–	–
CFG-PD4-30	–	–	–	–
CFG-PG4-1.2	–	–	–	–
CFG-PG4-3	–	–	–	–
CFG-PG4-5	–	–	–	–
CFG-PH4	–	–	–	–
CFG-PMOD4-3	–	–	–	–
CFG-PMOD4-7	–	–	–	–
CFG-PS4-7.5	–	–	–	–
CFG-PS4-13	–	–	–	–
CFG-PS4-30	–	–	–	–
CFG-PV4	–	–	–	–
CFG-SD	–	–	–	–
CFG-SH	–	–	–	–
CFG-SJ	–	–	–	–
CFG-SL	–	–	–	–
CFG-SV	–	–	–	–

DWR-0.7-SHP-G	CFG-GG / CFG-LP-GG-70 [3]	Requires a separate compatible cryostat; detector does not mount directly in the dewar [2]	Shallow Hole Probe, Streamline [2]	–
DWR-1.2G	CFG-GG / CFG-LP-GG-70 [3]	Requires a separate compatible cryostat; detector does not mount directly in the dewar [2]	–	All attitudes [5]
DWR-3.0G	CFG-GG / CFG-LP-GG-70 [3]	Requires a separate compatible cryostat; detector does not mount directly in the dewar [2]	–	All attitudes [5]
DWR-5.0G	CFG-GG / CFG-LP-GG-70 [3]	Requires a separate compatible cryostat; detector does not mount directly in the dewar [2]	–	All attitudes [5]
DWR-7.5B	CFG-HJ / CFG-SJ / CFG-SL; CFG-LP-SJ-70 / CFG-LP-SL-70 [3]	Requires a separate compatible cryostat; detector does not mount directly in the dewar [2]	–	–
DWR-7.5D	CFG-SD / CFG-LP-SD-70 [3]	Requires a separate compatible cryostat; detector does not mount directly in the dewar [2]	–	–
DWR-13B	CFG-HJ / CFG-SJ / CFG-SL; CFG-LP-SJ-70 / CFG-LP-SL-70 [3]	Requires a separate compatible cryostat; detector does not mount directly in the dewar [2]	–	–
DWR-13D	CFG-SD / CFG-LP-SD-70 [3]	Requires a separate compatible cryostat; detector does not mount directly in the dewar [2]	–	–
DWR-30	CFG-SV / CFG-SH / CFG-PV4 / CFG-PH4; CFG-LP-SV-70 / CFG-LP-SH-70 [3]	Requires a separate compatible cryostat; detector does not mount directly in the dewar [2]	–	–
DWR-30-OP	CFG-SV / CFG-SH / CFG-PV4 / CFG-PH4; CFG-LP-SV-70 / CFG-LP-SH-70 [3]	Requires a separate compatible cryostat; detector does not mount directly in the dewar [2]	–	–
DWR-30B	CFG-HJ / CFG-SJ / CFG-SL; CFG-LP-SJ-70 / CFG-LP-SL-70 [3]	Requires a separate compatible cryostat; detector does not mount directly in the dewar [2]	–	–
DWR-30D	CFG-SD / CFG-LP-SD-70 [3]	Requires a separate compatible cryostat; detector does not mount directly in the dewar [2]	–	–
DWR-MOD-3L	CFG-GG / CFG-LP-GG-70 [3]	Requires a separate compatible cryostat; detector does not mount directly in the dewar [2]	–	Vertically up, down or horizontal; not unrestricted rotation [5]
DWR-MOD-7L	CFG-GG / CFG-LP-GG-70 [3]	Requires a separate compatible cryostat; detector does not mount directly in the dewar [2]	–	Vertically up, down or horizontal; not unrestricted rotation [5]

DWR-S/F	DWR-xG / CFG-PG4-x [3]	–	–	–
Gamma Gage II	–	–	–	–

Model	Approximate hold time, s tated reference c onfiguration	DWR-S/F compatibility	Reference dimension Y in drawing	Reference dimension Z in drawing
CFG-GG	–	–	–	–
CFG-HJ	–	–	–	–
CFG-LP-GG-70	–	–	–	–
CFG-LP-SD-70	–	–	–	–
CFG-LP-SH-70	–	–	–	–
CFG-LP-SJ-70	–	–	–	–
CFG-LP-SL-70	–	–	–	–
CFG-LP-SV-70	–	–	–	–
CFG-MG4-1.2G	–	–	–	–
CFG-PD4-7.5	–	–	–	–
CFG-PD4-13	–	–	–	–
CFG-PD4-30	–	–	–	–
CFG-PG4-1.2	–	–	–	–
CFG-PG4-3	–	–	–	–
CFG-PG4-5	–	–	–	–
CFG-PH4	–	–	–	–
CFG-PMOD4-3	–	–	–	–
CFG-PMOD4-7	–	–	–	–
CFG-PS4-7.5	–	–	–	–
CFG-PS4-13	–	–	–	–
CFG-PS4-30	–	–	–	–
CFG-PV4	–	–	–	–
CFG-SD	–	–	–	–
CFG-SH	–	–	–	–
CFG-SJ	–	–	–	–
CFG-SL	–	–	–	–
CFG-SV	–	–	–	–
DWR-0.7-SHP-G	–	–	–	–
DWR-1.2G	Approx. 1 day; standard non-PopTop cryostat with 2.75-inch endcap. PopTop/special configurations may differ. [5]	Yes [5]	–	–

DWR-3.0G	2 days; standard non-PopTop cryostat with 2.75-inch endcap. PopTop/special configurations may differ. [5]	Yes [5]	–	–
DWR-5.0G	4 days; standard non-PopTop cryostat with 2.75-inch endcap. PopTop/special configurations may differ. [5]	Yes [5]	–	–
DWR-7.5B	–	–	224 ± 13 mm; see drawing [2]	452 ± 5 mm; see drawing [2]
DWR-7.5D	–	–	224 ± 13 mm; see drawing [2]	452 ± 5 mm; see drawing [2]
DWR-13B	–	–	307 ± 13 mm; see drawing [2]	429 ± 5 mm; see drawing [2]
DWR-13D	–	–	307 ± 13 mm; see drawing [2]	429 ± 5 mm; see drawing [2]
DWR-30	–	–	–	–
DWR-30-OP	–	–	–	–
DWR-30B	–	–	442 ± 13 mm; see drawing [2]	610 ± 5 mm; see drawing [2]
DWR-30D	–	–	442 ± 13 mm; see drawing [2]	610 ± 5 mm; see drawing [2]
DWR-MOD-3L	2 days; standard non-PopTop cryostat with 2.75-inch endcap. PopTop/special configurations may differ. [5]	No [5]	–	–
DWR-MOD-7L	5 days; standard non-PopTop cryostat with 2.75-inch endcap. PopTop/special configurations may differ. [5]	No [5]	–	–
DWR-S/F	–	–	–	–
Gamma Gage II	–	–	–	–

Model	Dimensional status	Included collar	Port	Function
CFG-GG	–	–	–	–
CFG-HJ	–	–	–	–
CFG-LP-GG-70	–	–	–	–
CFG-LP-SD-70	–	–	–	–
CFG-LP-SH-70	–	–	–	–
CFG-LP-SJ-70	–	–	–	–
CFG-LP-SL-70	–	–	–	–
CFG-LP-SV-70	–	–	–	–

CFG-MG4-1.2G	–	–	–	–
CFG-PD4-7.5	–	–	–	–
CFG-PD4-13	–	–	–	–
CFG-PD4-30	–	–	–	–
CFG-PG4-1.2	–	–	–	–
CFG-PG4-3	–	–	–	–
CFG-PG4-5	–	–	–	–
CFG-PH4	–	–	–	–
CFG-PMOD4-3	–	–	–	–
CFG-PMOD4-7	–	–	–	–
CFG-PS4-7.5	–	–	–	–
CFG-PS4-13	–	–	–	–
CFG-PS4-30	–	–	–	–
CFG-PV4	–	–	–	–
CFG-SD	–	–	–	–
CFG-SH	–	–	–	–
CFG-SJ	–	–	–	–
CFG-SL	–	–	–	–
CFG-SV	–	–	–	–
DWR-0.7-SHP-G	–	–	–	–
DWR-1.2G	–	–	–	–
DWR-3.0G	–	–	–	–
DWR-5.0G	–	–	–	–
DWR-7.5B	Reference dimensions subject to change; confirm critical installation dimensions with manufacturer [2]	–	–	–
DWR-7.5D	Reference dimensions subject to change; confirm critical installation dimensions with manufacturer [2]	–	–	–
DWR-13B	Reference dimensions subject to change; confirm critical installation dimensions with manufacturer [2]	–	–	–
DWR-13D	Reference dimensions subject to change; confirm critical installation dimensions with manufacturer [2]	–	–	–
DWR-30	–	For 1.5-inch cryostat diameter [3]	Top port [2]	–

DWR-30-OP	–	For 1.5-inch cryostat diameter [3]	ffset top port [2]	–
DWR-30B	Reference dimensions subject to change; confirm critical installation dimensions with manufacturer [2]	–	–	–
DWR-30D	Reference dimensions subject to change; confirm critical installation dimensions with manufacturer [2]	–	–	–
DWR-MOD-3L	–	–	–	–
DWR-MOD-7L	–	–	–	–
DWR-S/F	–	–	–	Storage and filling of a compatible Gamma Gage dewar [5]
Gamma Gage II	–	–	–	–

Model	MOD compatibility	Detector configurations	Dewar types	Dewar selections
CFG-GG	–	–	–	–
CFG-HJ	–	–	–	–
CFG-LP-GG-70	–	–	–	–
CFG-LP-SD-70	–	–	–	–
CFG-LP-SH-70	–	–	–	–
CFG-LP-SJ-70	–	–	–	–
CFG-LP-SL-70	–	–	–	–
CFG-LP-SV-70	–	–	–	–
CFG-MG4-1.2G	–	–	–	–
CFG-PD4-7.5	–	–	–	–
CFG-PD4-13	–	–	–	–
CFG-PD4-30	–	–	–	–
CFG-PG4-1.2	–	–	–	–
CFG-PG4-3	–	–	–	–
CFG-PG4-5	–	–	–	–
CFG-PH4	–	–	–	–
CFG-PMOD4-3	–	–	–	–
CFG-PMOD4-7	–	–	–	–
CFG-PS4-7.5	–	–	–	–
CFG-PS4-13	–	–	–	–
CFG-PS4-30	–	–	–	–
CFG-PV4	–	–	–	–
CFG-SD	–	–	–	–
CFG-SH	–	–	–	–

CFG-SJ	–	–	–	–
CFG-SL	–	–	–	–
CFG-SV	–	–	–	–
DWR-0.7-SHP-G	–	–	–	–
DWR-1.2G	–	–	–	–
DWR-3.0G	–	–	–	–
DWR-5.0G	–	–	–	–
DWR-7.5B	–	–	–	–
DWR-7.5D	–	–	–	–
DWR-13B	–	–	–	–
DWR-13D	–	–	–	–
DWR-30	–	–	–	–
DWR-30-OP	–	–	–	–
DWR-30B	–	–	–	–
DWR-30D	–	–	–	–
DWR-MOD-3L	–	–	–	–
DWR-MOD-7L	–	–	–	–
DWR-S/F	Not compatible with MOD dewars [5]	–	–	–
Gamma Gage II	–	PopTop or Streamline [5]	All-attitude or OD (multi-orientation); different orientation limits [5]	All-attitude: 1.2 / 3 / 5 L; OD: 3 / 7 L [5]

Model	Hold times, reference configuration	Storage/filling with DWR-S/F	Manual filling	Weight
CFG-GG	–	–	–	–
CFG-HJ	–	–	–	–
CFG-LP-GG-70	–	–	–	–
CFG-LP-SD-70	–	–	–	–
CFG-LP-SH-70	–	–	–	–
CFG-LP-SJ-70	–	–	–	–
CFG-LP-SL-70	–	–	–	–
CFG-LP-SV-70	–	–	–	–
CFG-MG4-1.2G	–	–	–	–
CFG-PD4-7.5	–	–	–	–
CFG-PD4-13	–	–	–	–
CFG-PD4-30	–	–	–	–
CFG-PG4-1.2	–	–	–	–
CFG-PG4-3	–	–	–	–
CFG-PG4-5	–	–	–	–

CFG-PH4	–	–	–	–
CFG-PMOD4-3	–	–	–	–
CFG-PMOD4-7	–	–	–	–
CFG-PS4-7.5	–	–	–	–
CFG-PS4-13	–	–	–	–
CFG-PS4-30	–	–	–	–
CFG-PV4	–	–	–	–
CFG-SD	–	–	–	–
CFG-SH	–	–	–	–
CFG-SJ	–	–	–	–
CFG-SL	–	–	–	–
CFG-SV	–	–	–	–
DWR-0.7-SHP-G	–	–	–	–
DWR-1.2G	–	–	–	–
DWR-3.0G	–	–	–	–
DWR-5.0G	–	–	–	–
DWR-7.5B	–	–	–	–
DWR-7.5D	–	–	–	–
DWR-13B	–	–	–	–
DWR-13D	–	–	–	–
DWR-30	–	–	–	–
DWR-30-OP	–	–	–	–
DWR-30B	–	–	–	–
DWR-30D	–	–	–	–
DWR-MOD-3L	–	–	–	–
DWR-MOD-7L	–	–	–	–
DWR-S/F	–	–	–	–
Gamma Gage II	Approx. 1/2/4 days (all-attitude, 1.2/3/5 L) and 2/5 days (MOD, 3/7 L); standard non-PopTop c ryostat with 2.75-inch e ndcap; actual times vary. [5]	All-attitude: yes; MOD: no [5]	Both types can be filled horizontally; MOD cannot b e filled vertically [5]	<11 lb (≈ 5 kg) for the 24-hour hold-time version [5]

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Every value is taken from the manufacturer’s own document; the number after the value refers to the source list. Always check against the latest datasheet before ordering.

The data comes from the manufacturer’s published documents. Manufacturers may change specifications; the current configuration and performance are confirmed in the quotation.