

Which Photoreactor is Right for You?





HCK1006-01-016

Screen easily with standardized format

Our original photoreactor's patented design is compatible with most vial formats (0.3 ml, 2 ml, 4 ml, 8 ml and 20 ml vials) and its compact design allows for use with any stirring plate.

A built-in fan keeps the reaction conditions at room temperature

The choice for...

the chemist who seeks
to standardize laboratory
photochemical setups
economically. A
flexible design allows
interchangable LED from
365 to 740 nm and a wide
variety of vials



Compare Models

EvoluChem™ PhotoRedOx Duo

HCK1006-01-023

Screen with double the workflow

The PhotoRedOx Duo uses the same patented concept as our original photoreactor but doubles the capacity and includes an additional reaction chamber. The Duo can hold double the capacity as the single box

The choice for...

the chemist who seeks higher reaction capacity and increased light intensity than found in the PhotoRedOx box

Screen with Temperature Control

EvoluChem™

PhotoRedOx TC

HCK1006-01-025

Based on the same design as the PhotoRedOx Box, the TC version with a standard chiller/heater unit (not included) makes it possible to perform photocatalytic reactions at controlled temperatures at 0 °C to 80 °C

The choice for...

the chemist who
wants control over the
temperature of their
reaction while keeping the
flexibility and control of the
PhotoRedOx Box



OHepatoChem

HCK1021-01-001

Screen, batch, and flow

The next generation in photoreactors. The first reactor to allow screen to scale, batch and flow in one device with unparrallel control over wavelength, light intensity and temperature control

The choice for...

the chemist serious about understanding all the factors necessary to take reaction from screen to scale in batch and flow. The most advanced photoreactor available anywhere





















© Copyright 2008-2022 HepatoChem Inc. All Rights Reserved



Compare the Details:

				OHepatoChem
	PhotoRedOx Box HCK1006-01-016	PhotoRedOx Duo HCK1006-01-023	PhotoRedOx TC HCK1006-01-025	Lucent360[™] HCK1021-01-001
Vial size	0.3 ml to 20 ml	0.3 ml to 20 ml	0.3 ml to 20 ml	0.3 ml to 700 ml
Samples/reaction	32 max	64 max	32 max	48 max
Flow	2 ml Flow cell available	2 ml Flow cell available	2 ml Flow cell available	20 ml Flow cell available
Suggested light source	1x - EvoluChem™ LEDs SX or DX Format	2x - EvoluChem™ LEDs SX or DX Format	1x - EvoluChem™ LEDs SX or DX FormaC	4 Lucent360™ side light, 1 Lucent bottom module
Compatible LEDs	Compatible w most PAR20 (2.5 in diameter style LED) sources	Compatible w most PAR20 (2.5 in diameter style LED) sources	Compatible w most PAR20 (2.5 in diameter style LED) sources	Lucent360™ side and bottom LED modules
Wavelengths available	multiple options from 365 to 740 nm	multiple options from 365 to 740 nm	multiple options from 365 to 740 nm	365 nm, 380 nm, 425 nm, 405 nm, 450 nm, 530 nm
Light intensity	based on the attached LED source	based on the attached LED source	based on the attached LED source	controlled by instrument
Dimmable	based on the attached LED source	based on the attached LED source	based on the attached LED source	Yes
Temperature Control	Built in fans hold internal reactor temperature ~30°C depending on light source	Built in fans hold internal reactor temperature ~30°C depending on light source	External heater/chiller allows operature being 0 °C to 80 °C	External heater/chiller allows operature being 0 °C to 80 °C
Chiller fittings	N.A.	N.A.	3/8 inch ID tubing	3/8 inch OD tubing
Suggested chiller	N.A.	N.A.	Julabo Corio 200F	Julabo Corio 200F
Stirring	external stir plate required	external stir plate required	external stir plate required	built-in stir plate
Dimemsions L x H x D	6.5" X 4.875" X 4.875"	10.75" X 4.875" X 7"	6.875" X 4.75" X 7.75"	21.7" X 15.5" X 20.5"
Power requirements	110V AC/ 12V DC (US/UK) or 220V AC/ 12V DC (EU)	110V AC/ 12V DC (US/UK) or 220V AC/ 12V DC (EU)	N.A.	120 V or 240 V
Relative Price	\$	\$\$	\$\$\$	\$\$\$\$
Operating requirements	external stir plate, light source, chemical fume hood (if applicable), protective eyewear, safety shield	external stir plate, light source, chemical fume hood (if applicable), protective eyewear, safety shield	chiller/heater unit, external stir plate, light source, chemical fume hood (if applicable), protective eyewear, safety shield	chiller/heater unit, chemical fume hood (if applicable)
Related accessories	Lights Holders Flow Cell Light proofing Upgrade EvoluChem™ kits Safety Accessories	Lights Holders Flow Cell Light proofing Upgrade EvoluChem™ kits Safety Accessories	Lights Holders Flow Cell EvoluChem™ kits Safety Accessories	Multi-light screener 700 ml Reactor 20 ml Flow cell
Notes	US Patent #10,906,022	US Patent #10,906,022	US Patent #10,906,022	Patent pending

