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The reaction scheme shows the photocatalytic cross-coupling of cyclic siloxanes (1 and 2) with aldehydes (R-CHO) in a flow-reactor. The products are cyclic siloxanes with an R group attached to the nitrogen atom.

Reactants:

- 1 (n=1): A cyclic siloxane with a trimethylsilyl group and a primary amine group.
- 2 (n=2): A cyclic siloxane with a trimethylsilyl group and a primary amine group.
- Aldehyde: R-CHO.

Reaction Conditions:

- Photocatalytic cross-coupling
- flow-reactor

Product:

- A cyclic siloxane with an R group attached to the nitrogen atom.