

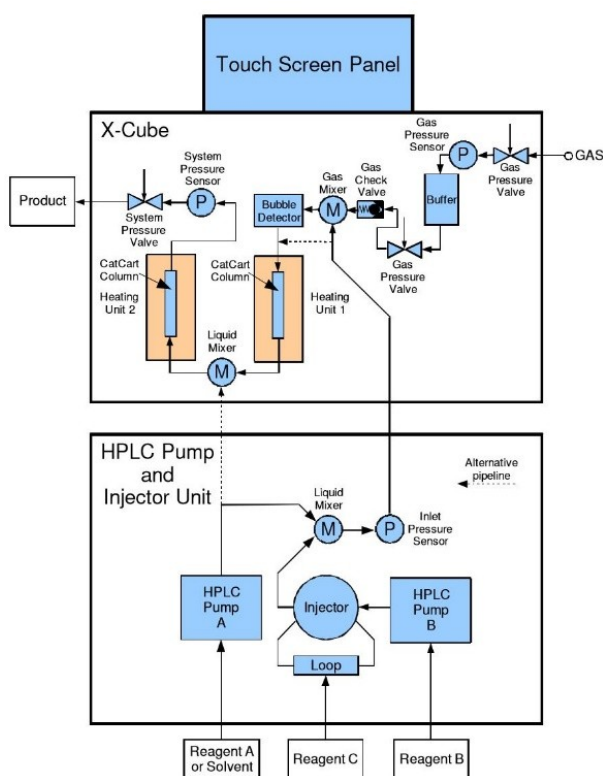
# Supplementary Materials: Improving Productivity of Multiphase Flow Aerobic Oxidation using a Tube-in-Tube Membrane Contactor

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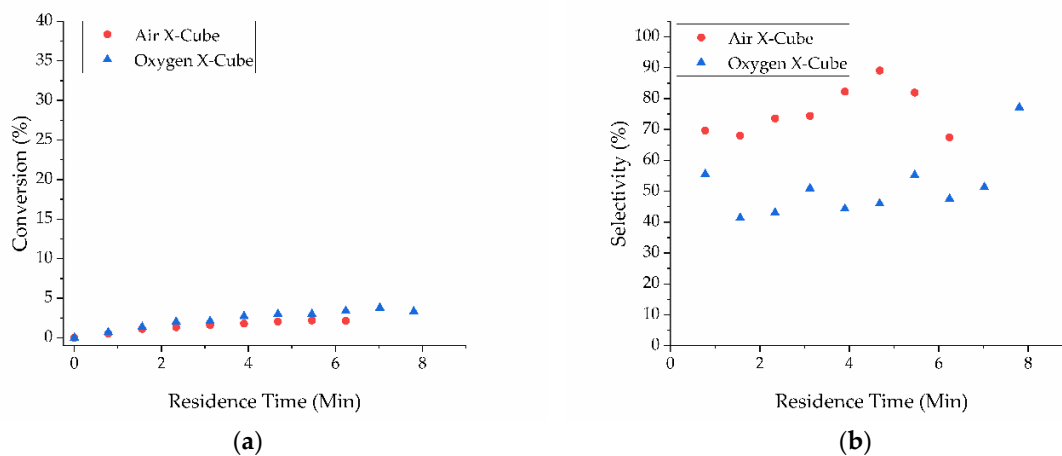
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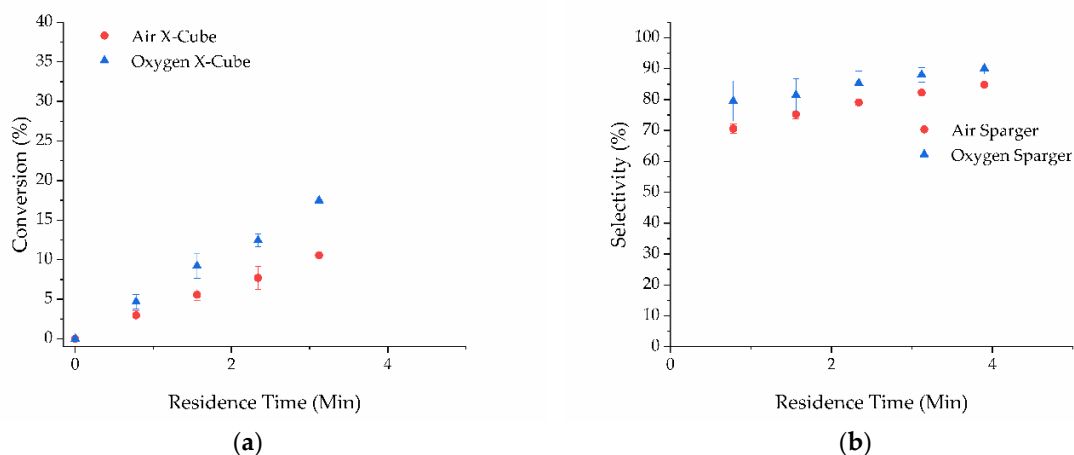
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**Figure S1.** The schematic diagram of the X-Cube™ reactor's components (provided by ThalesNano).



**Figure S2.** (a) Conversion of benzyl alcohol; (b) selectivity to benzaldehyde for the X-Cube™ and external pump system for both air (red circles) and pure oxygen (blue triangles) at 2.8 bar.



**Figure S3.** (a) Conversion of benzyl alcohol; (b) selectivity to benzaldehyde for the X-Cube™ and external pump system for both air (red circles) and pure oxygen (blue triangles) at 9.7 bar.

