THE FUTURE IS WHAT WE MAKE IT

INTRODUCING HONEYWELL CFX™

Honeywell
UOP

WHAT IS HONEYWELL CFX™ ?

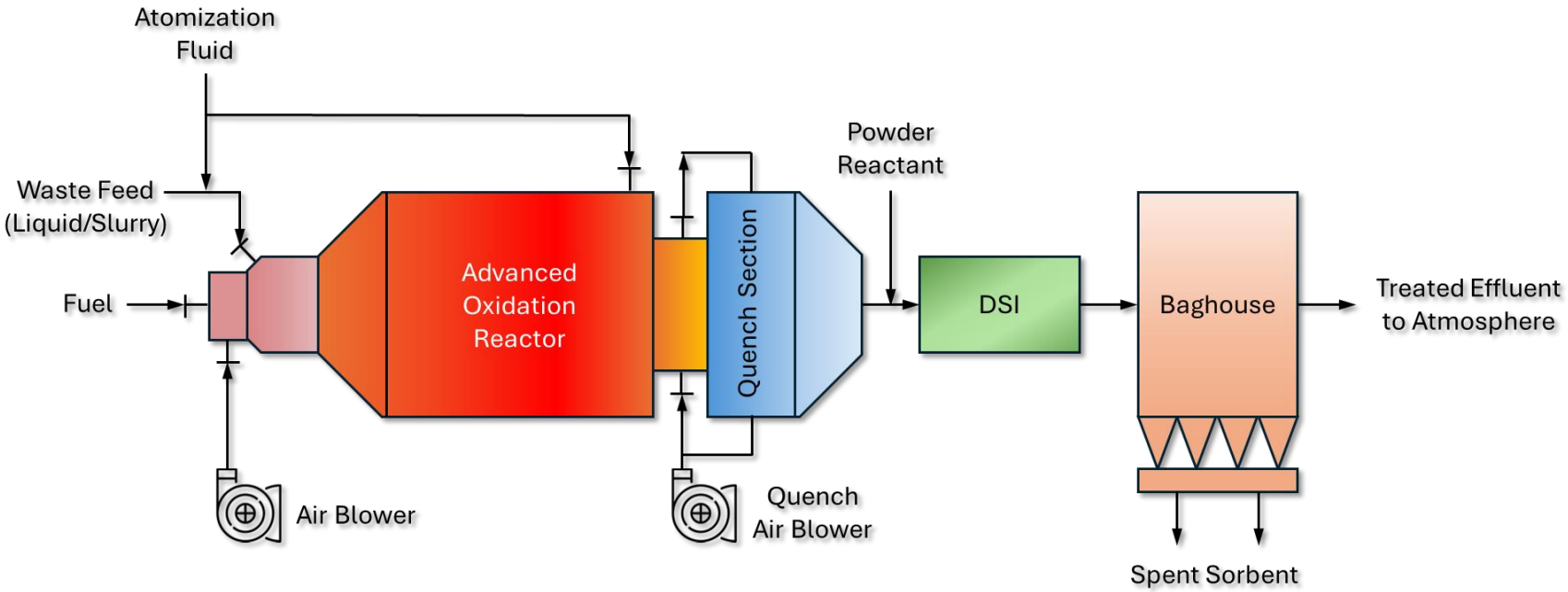
Up to **1400 °C** stable operation

10-1000 GPH capacity

Designed for **CF_4 conversion**

Zero liquid waste discharge

Automated with minimal maintenance



HONEYWELL CFX™ DIFFERENTIATORS

	HONEYWELL CFX™	GENERIC INCINERATION	GENERIC SCWO	GENERIC HALT	GENERIC ECO
WASTE AGNOSTIC	🟢	🟢	🟡	🟡	🟡
PICs	🟢	🟡	🟡	🟢	🟡
LOW-PRESSURE OPS	🟢	🟢	🔴	🟡	🟢
RESIDENCE TIME	< 10 secs	< 10 secs	10 – 30 secs	600–1,800 secs	> 1,800 secs
ASSET'S LIFE	🟢	🟢	🟡	🟡	🟡
THROUGHPUT	Up to 1000 GPH	Up to1000 GPH	Up to 800GPH	NA	NA

🟢 : BEST
🟡 : AVERAGE
🔴 : POOR

References:

- Evaluation of Current Alternatives and Estimated Cost Curves for PFAS Removal and Destruction from Municipal Wastewater, Biosolids, Landfill Leachate, and Compost Contact Water, Barr Engineering Co., Hazen and Sawyer Report for Minnesota Pollution Control Agency, May 2023
- Drinking Water Treatment Regulations, Technologies, and Remediation Forecasts 2022–2030, Insight Report, Bluefield Research, May 2022
- 12 Treatment Technologies, Interstate Technology and Regulatory Council, https://itrcweb.org/home, July 2023

HONEYWELL CFX™ THE ENCOMPASSING SOLUTION

Destruction Methods for Solid Wastes	Solid Media			Liquid Media		
	Soil	Spent GAC	Spent IX	Still Bottom	Foamate	RO Reject
CFX	🟢	🟢	🟢	🟢	🟢	🟢
SCWO	🔴	🟡	🟡	🟢	🟢	🟢
HALT	🟢	🟡	🟡	🟢	🟢	🟢
Incineration	🟢	🟢	🟢	🟢	🟢	🟢
Ball Milling	🟢	🟡	🟡	🔴	🔴	🔴
Electron Beam	🟢	🟡	🟡	🟡	🟡	🟡

🟢 Applicable 🟡 Maybe applicable (engineering issues) 🔴 Not applicable (engineering issues)

Developing Technologies

Limited applicability as well as **expensive**

Technically **challenging** & **time-consuming**

Shortcomings of Conventionalism

Landfilling is future **liability**

→ **Incineration** creates potential **incomplete destruction** that release to the atmosphere

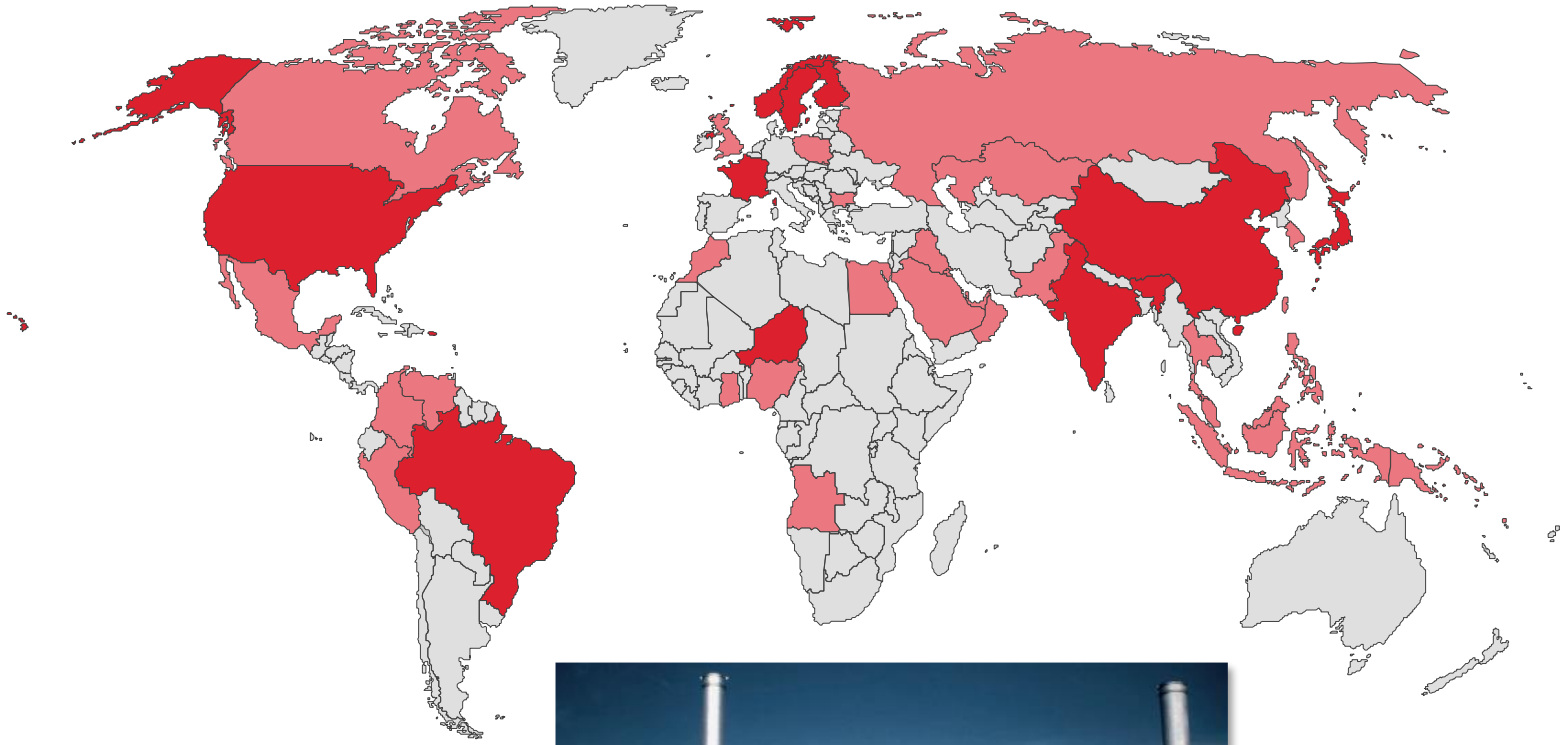
Carbon reactivation has **limited applicability**

HONEYWELL CFX™ DIFFERENTIATORS

350+
deployments globally

30+
year experience

12 C-F bond-specific
destruction systems



Example of Full Scale CFX™ (~100-500 GPH)