

QMX+PP

Exhaust your Lab Air, not your Budget!



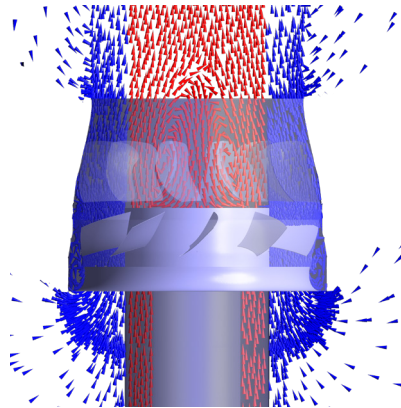
Cook has developed the **most innovative energy saving** exhaust solution on the market

The combo decouples lab exhaust from dilution and plume air optimizing system performance as lab demand and ambient wind conditions vary.

QMX + Power-Plume provides **unparalleled energy efficiency** in a **space-efficient** package.

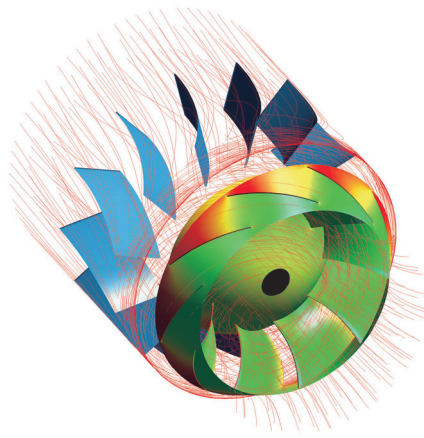


QMX + PP



Power-Plume®

- ▶ Powered Induction
- ▶ Powerful Plume
- ▶ Dilution from 200-1000%
- ▶ Independent of Lab Exhaust
- ▶ No Bypass Air Needed
- ▶ Wind-Dependent Control Option



QMX

- ▶ Most Efficient Mixed Flow Fan
- ▶ Demand-Based Modulation to 35%
- ▶ Direct or Belt Drive
- ▶ EZ-Out Option



Contact your **Cook** representative or visit lorencook.com for more information!

ADAPTIVE TECHNOLOGY

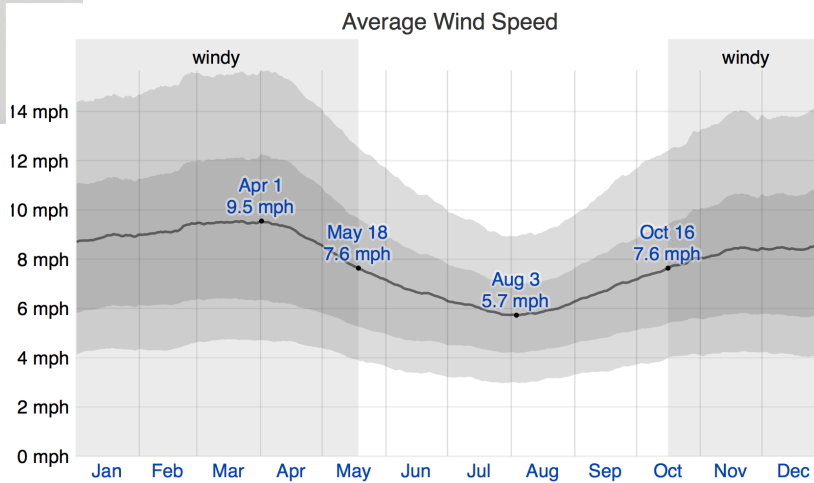


Lab exhaust demands and ambient wind conditions vary. Your lab exhaust system should adapt.

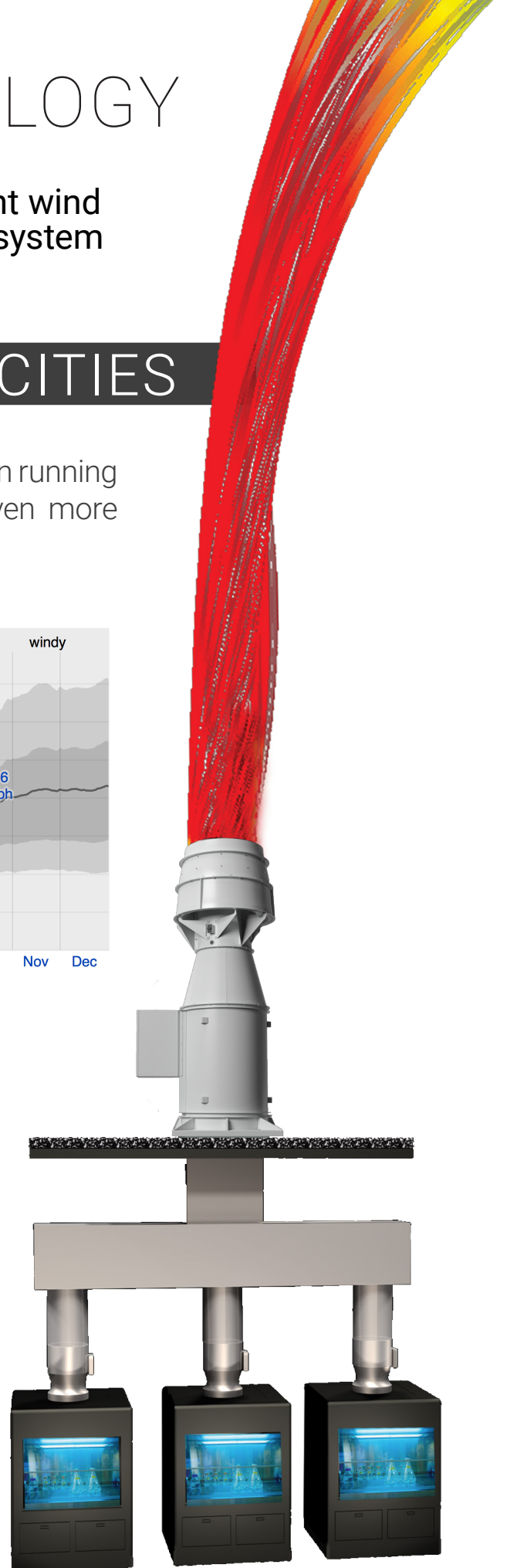
SEASONAL WIND VELOCITIES



Power-Plume® saves energy when running at constant speed and saves even more with wind responsive control.



Lab demand varies as lab hood sashes are opened and closed. Decoupling the lab exhaust from plume and dilution air allows **QMX** to modulate to meet demand.



SAVINGS



Savings based on \$0.10 per Kwh, 24 hour year-round operation. Comparison fan is typical induced flow fan.

POWER PLUME ENERGY CONSUMPTION

Wind Speed	Occurrence %	Required Plume Flow	Lab Flow	Power-Plume Flow	Power-Plume Kw	Hours	Kwh
10	1.0%	31257	15000	16257	5.21	88	457
9	2.0%	28500	15000	13500	2.98	175	523
8	2.0%	25500	15000	10500	1.40	175	246
7	10.0%	22250	15000	7250	0.46	876	405
6	12.0%	19000	15000	4000	0.08	1051	82
5	25.0%	15500	15000	500	0.00	2190	0
4	20.0%	12500	15000	0	0.00	1752	0
3	15.0%	9250	15000	0	0.00	1341	0
2	10.0%	6200	15000	0	0.00	876	0
1	3.0%	3100	15000	0	0.00	263	0
	100.0%					8760	1713

QMX ENERGY CONSUMPTION

Lab Demand	Lab Demand %	Demand CFM	Demand Kw	Hours	Kwh
100	25	15000	13.4	2190	29395
50	40	7500	1.7	3504	5879
30	35	5000	0.4	3066	1111
	100.0%			8760	36386

INDUCED FLOW FAN ENERGY CONSUMPTION

Demand %	Demand CFM	Demand Kw	Hours	Kwh
100	15000	12.9	8760	113009

SAVINGS

Kwh				Kwh Savings	Savings
QMX	Power-Plume	QMX + Power-Plume	Induced Flow Fan		
36386	1713	38098	113009	74911.1	\$7,491.11
					\$22,473.32
					Per Year
					3 Fan System

QMX+PP Provides Impressive Savings!

*Power-Plume[®] is available in 8 Sizes
and High or Low Dilution to
meet installation
demands.*



COOK

Power-Plume[®] can be coupled with other fans and systems to provide similar savings.



CA + PP



Curb Mounted



Stack Mounted



Contact your **Cook** representative or visit lorencook.com for more information!
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