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</tbody>
</table>
AC Catalog

**Downblast**

**ACE**
Static Pressure: 0 - 1.5"

Direct Drive (ACED)
- Wheel Sizes: 7 - 18"
- Capacity: 80 - 4,200 CFM

Direct Drive EC (ACED-EC)
- Wheel Sizes: 7 - 15"
- Capacity: 70 - 2,600 CFM

Belt Drive (ACEB)
- Wheel Sizes: 10 - 54"
- Capacity: 50 - 32,000 CFM

**ACW**

Standard Wheel:
Static Pressure: 0 - 1.5"

Direct Drive (ACWD)
- Wheel Sizes: 7 - 18"
- Capacity: 60 - 4,300 CFM

Direct Drive EC (ACWD-EC)
- Wheel Sizes: 7 - 15"
- Capacity: 80 - 2,500 CFM

Belt Drive (ACWB)
- Wheel Sizes: 10 - 24.5"
- Capacity: 280 - 8,200 CFM

**ACRU**

Standard Wheel:
Static Pressure: 0 - 1.5"

Direct Drive (ACRUD)
- Wheel Sizes: 7 - 18"
- Capacity: 60 - 4,300 CFM

Direct Drive EC (ACRUD-EC)
- Wheel Sizes: 7 - 15"
- Capacity: 80 - 2,500 CFM

Belt Drive (ACRU)
- Wheel Sizes: 10 - 49"
- Capacity: 280 - 28,000 CFM

**ACSC (ACSC, ACSC-HP & ACSC-XP)**

These have the same availability & performance as the ACRU, ACRU-HP & ACRU-XP.

**Upblast**

**VCR**

Standard Wheel:
Static Pressure: 0 - 1.5"

Direct Drive (VCRD)
- Wheel Sizes: 10.1 - 18"
- Capacity: 400 - 4,300 CFM

Direct Drive EC (VCRD-EC)
- Wheel Sizes: 10.1 - 15"
- Capacity: 260 - 2,500 CFM

Belt Drive (VCR)
- Wheel Sizes: 10 - 49"
- Capacity: 280 - 28,000 CFM

High Pressure Wheel:
Direct Drive (VCRD-HP)
- Wheel Sizes: 15 - 19.5"
- Capacity: 350 - 1,900 CFM
- Static Pressure: 0.25 - 2.5"

Extended Pressure Wheel:
Direct Drive (VCRD-XP)
- Wheel Sizes: 16.5 - 19.5"
- Capacity: 520 - 2,200 CFM
- Static Pressure: 0.125 - 1.75"

High Pressure Wheel:
Direct Drive (VCRDEC-HP)
- Wheel Sizes: 15"
- Capacity: 350 - 1,900 CFM
- Static Pressure: 0 - 1.5"

Extended Pressure Wheel:
Direct Drive (VCRDEC-XP)
- Wheel Sizes: 16.5 - 18"
- Capacity: 350 - 1,900 CFM
- Static Pressure: 0 - 1.5"

Smoke Control Upblast

**VCR Catalog**

**Restaurant Upblast**

**High Pressure Wheel:**
Direct Drive (VCRD-HP)
- Wheel Sizes: 15 - 19.5"
- Capacity: 350 - 1,900 CFM
- Static Pressure: 0.25 - 2.5"

Extended Pressure Wheel:
Direct Drive (VCRD-XP)
- Wheel Sizes: 16.5 - 19.5"
- Capacity: 520 - 2,200 CFM
- Static Pressure: 0.125 - 1.75"

High Pressure Wheel:
Direct Drive (VCRDEC-HP)
- Wheel Sizes: 15"
- Capacity: 350 - 1,900 CFM
- Static Pressure: 0 - 1.5"

Extended Pressure Wheel:
Direct Drive (VCRDEC-XP)
- Wheel Sizes: 16.5 - 18"
- Capacity: 350 - 1,900 CFM
- Static Pressure: 0 - 1.5"
Centrifugal Roof Exhausters

**SRSH Catalog**
**Tamper Resistant Downblast**
**SRSH**
Static Pressure: 0 - 1.5”

**Direct Drive (SRSH-D)**
- Wheel Sizes: 7 - 18”
- Capacity: 30 - 7,000 CFM

**Belt Drive (SRSH-B)**
- Wheel Size: 10 - 27”
- Capacity: 30 - 10,000 CFM

**Fiberglass Catalog**
**Fiberglass**
**FCE (Downblast)**
Static Pressure: 0 - 3”

**Direct Drive (FCE-D)**
- Wheel Sizes: 12 - 18”
- Capacity: 350 - 3,400 CFM

**Belt Drive (FCE-B)**
- Wheel Sizes: 12 - 40”
- Capacity: 150 - 21,000 CFM

**Lo-Pro Catalog**
**Low Profile**
**LP**

**Direct Drive (LPD)**
- Wheel Sizes: 10 - 16.5”
- Capacity: 200 - 2,800 CFM
- Static Pressure: 0 - 1”

**Belt Drive (LPB)**
- Wheel Sizes: 10 - 54”
- Capacity: 315 - 53,000 CFM
- Static Pressure: 0 - 2.5”

**LC Catalog**
**Low Contour Hooded or Tiered**
**HLC (Hooded)**

**Direct Drive (HLC-D)**
- Wheel Sizes: 7 - 18”
- Capacity: 30 - 3,800 CFM
- Static Pressure: 0 - 1.5”

**Belt Drive (HLC-B)**
- Wheel Sizes: 10 - 54”
- Capacity: 230 - 42,000 CFM
- Static Pressure: 0 - 2”

**TLC (Tiered)**

**Direct Drive (TLC-D)**
- Wheel Sizes: 7 - 18”
- Capacity: 40 - 3,600 CFM
- Static Pressure: 0 - 1.25”

**Belt Drive (TLC-B)**
- Wheel Sizes: 10 - 54”
- Capacity: 280 - 43,000 CFM
- Static Pressure: 0 - 2”

**TLCH (Hurricane Resistant Tiered)**

**Direct Drive (TLCH-D)**
- Wheel Sizes: 7 - 18”
- Capacity: 40 - 3,600 CFM
- Static Pressure: 0 - 1.25”

**Belt Drive (TLCH-B)**
- Wheel Sizes: 10 - 36.5”
- Capacity: 280 - 22,000 CFM
- Static Pressure: 0 - 2”

---

**Special features for products on this page**

<table>
<thead>
<tr>
<th>High Wind (Miami-Dade) Tested</th>
<th>UL 762 Grease Laden Air Restaurant Exhaust</th>
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<td>UL “Power Ventilator for Smoke Control Systems” *</td>
<td>LPB</td>
</tr>
<tr>
<td>* See page 17 for details</td>
<td></td>
</tr>
</tbody>
</table>
**Gemini Catalog**

“Gemini” Room Exhausts

**GC & GN Size: 126 - 188**
- Static Pressure: 0 - 1”
- **Ceiling (GC)**
  - Capacity: 30 - 260 CFM
- **Inline (GN)**
  - Capacity: 40 - 260 CFM

**GC & GN Size: 222 - 740**
- Static Pressure: 0 - 1”
- **Ceiling or Wall (GC)**
  - Capacity: 80 - 830 CFM
- **Inline (GN)**
  - Capacity: 80 - 870 CFM

**GC & GN Size: 822 - 960**
- Static Pressure: 0 - 1”
- **Ceiling or Wall (GC)**
  - Capacity: 640 - 1,800 CFM
- **Inline (GN)**
  - Capacity: 760 - 1,800 CFM

**GC & GN Size: 1000 - 2000**
- **Ceiling or Wall (GC)**
- **Inline (GN)**
  - Static Pressure: 0.1 - 1”
  - Capacity: 1,100 - 3,400 CFM

---

**DB Catalog**

**Duct Blowers**

**DB & DBX**
- Belt Drive (DB)
- External Belt Drive (DBX)
  - Wheel Sizes: 8 - 18”
  - Capacity: 300 - 9,400 CFM
  - Static Pressure: 0.125 - 2”

**SDB**
- Wheel Sizes: 10 - 24.5”
- Capacity: 300 - 14,400 CFM
- Static Pressure: 0.250 - 3”

**TDB (Double Wide)**
- Wheel Sizes: 8 - 18”
- Capacity: 800 - 15,500 CFM
- Static Pressure: 0.125 - 2”

---

**Special features for products on this page**

All GC, GN, DB & DBX sizes are available on Express, Cook’s 24-hour shipping program.

**EnergyStar:** GC 126 - 242

---

**CBF Catalog**

**Cinder Block Sized Fan**

**CBF**
- Capacity: 70 - 530 CFM
- Static Pressure: 0 - 0.4”

---

**Air Curtain Catalog**

**Air Curtain**
- Max. Capacity: 3,200 CFM
Packaged fans include a standard wall fan in a galvanized steel enclosure, integral mounting flange & weather-resistant shutter.

All X-stream Series sizes are available on Express, Cook's 24-hour shipping program.

Propeller Wall catalog

X Series
Aluminum Prop

XWD
Direct Drive

Standard (XWD)
- Prop Sizes: 8 - 24"
- Capacity: 80 - 6,600 CFM
- Static Pressure: 0 - 0.5"

Heavy Duty (XWHD)
- Prop Sizes: 12 - 24"
- Capacity: 290 - 8,000 CFM
- Static Pressure: 0 - 0.75"

XLD
Direct Drive

Standard (XLD)
- Prop Sizes: 8 - 24"
- Capacity: 80 - 6,600 CFM
- Static Pressure: 0 - 0.5"

Heavy Duty (XLHD)
- Prop Sizes: 12 - 24"
- Capacity: 290 - 8,000 CFM
- Static Pressure: 0 - 0.75"

XLW & XMW (Standard Duty)
Belt Drive

Low Pressure Prop (XLW)
- Prop Sizes: 20 - 60"
- Capacity: 1,100 - 33,000 CFM
- Static Pressure: 0 - 0.5"

Medium Pressure Prop (XMW)
- Prop Sizes: 20 - 60"
- Capacity: 1,400 - 33,000 CFM
- Static Pressure: 0 - 1"

XLWH & XMWH (Heavy Duty)
Belt Drive

Low Pressure Prop (XLWH)
- Prop Sizes: 20 - 60"
- Capacity: 1,400 - 59,000 CFM
- Static Pressure: 0 - 0.5"

Medium Pressure Prop (XMWH)
- Prop Sizes: 20 - 60"
- Capacity: 1,800 - 57,000 CFM
- Static Pressure: 0 - 1"

A Series
Cast Aluminum Prop

AWD & AWB
Direct Drive (AWD)
- Prop Sizes: 12 - 48"
- Capacity: 360 - 33,000 CFM
- Static Pressure: 0 - 0.75"

Belt Drive (AWB)
- Prop Sizes: 24 - 48"
- Capacity: 2,100 - 42,000 CFM
- Static Pressure: 0 - 0.5"

E Series
Extruded Aluminum Prop

EWDM & EWDB
Direct Drive (EWDM)
- Prop Sizes: 20 - 54"
- Capacity: 680 - 59,000 CFM
- Static Pressure: 0 - 1"

Belt Drive (EWDB)
- Prop Sizes: 24 - 72"
- Capacity: 1,200 - 95,000 CFM
- Static Pressure: 0 - 1.5"

EWD & EWB
Direct Drive (EWD)
- Prop Sizes: 20 - 54"
- Capacity: 680 - 59,000 CFM
- Static Pressure: 0 - 1"

Belt Drive (EWB)
- Prop Sizes: 24 - 72"
- Capacity: 1,200 - 95,000 CFM
- Static Pressure: 0 - 1.5"

Special features for products on this page

All X.Stream Series sizes are available on Express, Cook’s 24-hour shipping program.

Propeller Wall fans are available in exhaust (standard) and supply. Be advised: propeller wall fans may bring rain into the building when used for supply. See ASP Series, KSP Series, CFS Series, HMD, QMXS, CVR-S, SEP, ETS, REBS, HES-D, HES, HXS or Economizer for other supply options.
## SQI Catalog
### Square Centrifugal

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<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td>SQI-D</td>
<td>(Direct Drive)</td>
<td>Standard Wheel</td>
</tr>
<tr>
<td></td>
<td>• Wheel Sizes: 7 - 16.5”</td>
<td>• Capacity: 50 - 4,900 CFM</td>
</tr>
<tr>
<td></td>
<td>• Static Pressure: 0 - 2”</td>
<td></td>
</tr>
<tr>
<td>SQI-B</td>
<td>(Belt Drive)</td>
<td>Standard Wheel (SQI-B)</td>
</tr>
<tr>
<td></td>
<td>• Wheel Sizes: 9 - 40.2”</td>
<td>• Capacity: 400 - 33,000 CFM</td>
</tr>
<tr>
<td></td>
<td>• Static Pressure: 0.125 - 3”</td>
<td></td>
</tr>
<tr>
<td></td>
<td>High Pressure Wheel (SQI-HP)</td>
<td>• Wheel Sizes: 13.5 - 36.5”</td>
</tr>
<tr>
<td></td>
<td>• Capacity: 220 - 31,000 CFM</td>
<td>• Static Pressure: 0.25 - 5”</td>
</tr>
</tbody>
</table>

## SQN Catalog
### Multi-Directional Square Centrifugal

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td>SQN-D</td>
<td>(Direct Drive)</td>
<td>Standard Wheel (SQN-D)</td>
</tr>
<tr>
<td></td>
<td>• Wheel Sizes: 7 - 16.5”</td>
<td>• Capacity: 30 - 4,300 CFM</td>
</tr>
<tr>
<td></td>
<td>• Static Pressure: 0 - 2”</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Standard Wheel with EC motor (SQND-EC)</td>
<td>• Wheel Sizes: 7 - 15”</td>
</tr>
<tr>
<td></td>
<td>• Capacity: 70 - 2,500 CFM</td>
<td>• Static Pressure: 0 - 1.25”</td>
</tr>
<tr>
<td>SQN-B</td>
<td>(Belt Drive)</td>
<td>Standard Wheel (SQN-B)</td>
</tr>
<tr>
<td></td>
<td>• Wheel Sizes: 10 - 40.2”</td>
<td>• Capacity: 35 - 26,000 CFM</td>
</tr>
<tr>
<td></td>
<td>• Static Pressure: 0.125 - 3”</td>
<td></td>
</tr>
<tr>
<td></td>
<td>High Pressure Wheel (SQN-HP)</td>
<td>• Wheel Sizes: 13.5 - 40.2”</td>
</tr>
<tr>
<td></td>
<td>• Capacity: 1,000 - 22,000 CFM</td>
<td>• Static Pressure: 0.25 - 5”</td>
</tr>
</tbody>
</table>

## TCN Catalog
### Tubular Centrifugal Inline

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<th>Model</th>
<th>Description</th>
<th>Characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td>TCN-D</td>
<td>(Direct Drive)</td>
<td>Wheel Sizes: 6 - 16.5”</td>
</tr>
<tr>
<td></td>
<td>• Static Pressure: 0 - 3”</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Standard Wheel (TCN-D)</td>
<td>• Capacity: 90 - 5,000 CFM</td>
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<tr>
<td></td>
<td>• Static Pressure: 0.125 - 3”</td>
<td></td>
</tr>
<tr>
<td></td>
<td>High Pressure Wheel (TCNH-D)</td>
<td>• Capacity: 90 - 4,500 CFM</td>
</tr>
<tr>
<td>TCN-B</td>
<td>(Belt Drive)</td>
<td>Wheel Sizes: 6 - 49”</td>
</tr>
<tr>
<td></td>
<td>• Capacity: 50 - 41,000 CFM</td>
<td>• Static Pressure: 0.125 - 3”</td>
</tr>
<tr>
<td></td>
<td>• Static Pressure: 0.125 - 2.5”</td>
<td></td>
</tr>
<tr>
<td></td>
<td>High Pressure Wheel (TCNH-B)</td>
<td>• Capacity: 30 - 46,000 CFM</td>
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<tr>
<td></td>
<td>• Static Pressure: 1 - 4”</td>
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</tbody>
</table>

## CV Catalog
### Centri-Vane Inline

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td>CVD</td>
<td>(Direct Drive)</td>
<td>Direct Drive</td>
</tr>
<tr>
<td></td>
<td>• Wheel Sizes: 8 - 20”</td>
<td>• Capacity: 80 - 5,600 CFM</td>
</tr>
<tr>
<td></td>
<td>• Static Pressure: 0.125 - 0.875”</td>
<td></td>
</tr>
<tr>
<td>CVB &amp; CV-S</td>
<td>(Belt Drive)</td>
<td>Belt Drive</td>
</tr>
<tr>
<td></td>
<td>• Wheel Sizes: 12 - 36”</td>
<td>• Capacity: 600 - 23,000 CFM</td>
</tr>
<tr>
<td></td>
<td>• Static Pressure: 0.250 - 4”</td>
<td>• Static Pressure: 0.500 - 6”</td>
</tr>
</tbody>
</table>

## CIC Catalog
### Centrifugal Inline

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIC</td>
<td>(Belt Drive)</td>
<td>• Wheel Sizes: 12 - 73”</td>
</tr>
<tr>
<td></td>
<td>• Capacity: 900 - 192,000 CFM</td>
<td>• Static Pressure: 1 - 12”</td>
</tr>
</tbody>
</table>

### Special features for products on this page
- All SQN, SQI sizes are available on Express, Cook’s 24-hour shipping program (CV up to size 300). SQND-EC is not available on Express.

### Seismic (OSHPD) Tested Products
- Products Sizes: SQN-D series 60 - 402

### UL 762 Grease Laden Air Restaurant Exhaust

* See page 17 for details
QMX Catalog

Mixed-Flow Inline

QMXD (Direct Drive)

**Standard Wheel (QMXD)**
- Wheel Sizes: 15 - 60"
- Capacity: 1,500 - 119,000 CFM
- Static Pressure: 0.25 - 5"

**High Pressure Wheel (QMXD-HP)**
- Wheel Sizes: 15 - 60"
- Capacity: 1,500 - 81,000 CFM
- Static Pressure: 1 - 8"

**Extended Pressure Wheel (QMXD-XP)**
- Wheel Sizes: 15 - 60"
- Capacity: 2,400 - 129,000 CFM
- Static Pressure: 3 - 15"

QMX (Belt Drive)

**Standard Wheel (QMX)**
- Wheel Sizes: 9 - 60"
- Capacity: 500 - 119,000 CFM
- Static Pressure: 0.25 - 5"

**High Pressure Wheel (QMX-HP)**
- Wheel Sizes: 9 - 60"
- Capacity: 500 - 81,000 CFM
- Static Pressure: 1 - 8"

**Extended Pressure Wheel (QMX-XP)**
- Wheel Sizes: 15 - 60"
- Capacity: 2,400 - 129,000 CFM
- Static Pressure: 3 - 15"

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Special features for products on this page

<table>
<thead>
<tr>
<th>Seismic (OSHPD) Tested Products</th>
<th>Sizes</th>
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</thead>
<tbody>
<tr>
<td>QMX series</td>
<td>90-600</td>
</tr>
</tbody>
</table>

UL 762
Grease Laden Air Restaurant Exhaust *
QMX & QMX-HP
UL Power Ventilator for Smoke Control Systems *
QMX & QMX-HP
QMXD & QMXHPD
QMXD & QMXHPD bifurcated

* See page 17 for details

QMX & QMXD are available with optional bifurcated housing.
QMXU, QMXE & QMXS are available in direct drive models & with optional bifurcated housing.

**QMX Catalog**

**Mixed-FlowRoof Mounted**

**QMXU (Upblast)**
- Belt Drive
- **Standard Wheel (QMXU)**
  - Wheel Sizes: 9 - 60"
  - Capacity: 920 - 119,000 CFM
  - Static Pressure: 0.25 - 5"
- **High Pressure Wheel (QMXU-HP)**
  - Wheel Sizes: 9 - 60"
  - Capacity: 920 - 81,000 CFM
  - Static Pressure: 1 - 8"
- **Extended Pressure Wheel (QMXU-XP)**
  - Wheel Sizes: 15 - 60"
  - Capacity: 2,600 - 129,000 CFM
  - Static Pressure: 3 - 15"

**QMXE (Exhaust) & QMXS (Supply)**
- Belt Drive
- **Standard Wheel (QMXE & QMXS)**
  - Wheel Sizes: 9 - 30"
  - Capacity: 500 - 29,000 CFM
  - Static Pressure: 0.25 - 5"
- **High Pressure Wheel (QMXE-HP & QMXS-HP)**
  - Wheel Sizes: 9 - 30"
  - Capacity: 500 - 20,000 CFM
  - Static Pressure: 1 - 8"
- **Extended Pressure Wheel (QMXS-XP & QMXS-XP)**
  - Wheel Sizes: 15 - 30"
  - Capacity: 2,600 - 34,000 CFM
  - Static Pressure: 3 - 15"

**Special features for products on this page**

UL 762 Grease Laden Air Restaurant Exhaust *

QMXU & QMXU-HP

UL Power Ventilator for Smoke Control Systems *

QMXU series
QMXDU / QMXDU Bifurcated series

* See page 17 for details

**CV Catalog**

**Centrif-VaneRoof Mounted**

**UCV (Upblast)**
- Belt Drive
- Wheel Sizes: 12 - 36"
- Capacity: 770 - 24,000 CFM
- Static Pressure: 0 - 4"

**CVR (Exhaust) & CVR-S (Supply)**
- Belt Drive
- Wheel Sizes: 12 - 36"
- Capacity: 620 - 24,000 CFM
- Static Pressure: 0 - 4"

**CIC Catalog**

**CentrifugalRoof Mounted**

**UCIC (Upblast)**
- Belt Drive
- Wheel Sizes: 12 - 60"
- Capacity: 2,400 - 104,000 CFM
- Static Pressure: 1 - 8"
Propeller Upblast Fans & Curbs

X.Stream Series
Steel Prop

LXUL, LXUM (Low Silhouette)
Belt Drive
Prop Sizes: 20 - 60"
Static Pressure: 0 - 0.625"
Low Pressure Prop (LXUL)
• Capacity: 3,400 - 58,000 CFM
Medium Pressure Prop (LXUM)
• Capacity: 3,400 - 48,000 CFM

LXULMO & LXULMO (Belt Drive Motor Outside)
LXULSC & LXUMSC (Belt Drive Smoke Control)
Belt Drive
Prop Sizes: 20 - 60"
Low Pressure Prop (LXULMO & LXULMO)
• Capacity: 3,800 - 55,000 CFM
• Static Pressure: 0 - 0.875"
Medium Pressure Prop (LXUMMO & LXUMSC)
• Capacity: 3,400 - 50,000 CFM
• Static Pressure: 0 - 0.625"

Tud, TUDSC, TUB & TUBSC
Direct Drive (TUD & TUDSC)
• Prop Sizes: 20 - 60"
• Capacity: 3,400 - 60,000 CFM
• Static Pressure: 0 - 1.125"
Belt Drive (TUB & TUBSC)
• Prop Sizes: 20 - 72"
• Capacity: 3,600 - 92,000 CFM
• Static Pressure: 0 - 1.250"

LTU (Low Silhouette Belt Drive)
• Prop Sizes: 20 - 60"
• Capacity: 3,300 - 73,000 CFM
• Static Pressure: 0 - 1.125"

LTUMO (Belt Drive Motor Outside)
LTUSC (Belt Drive Smoke Control)
Prop Sizes: 20 - 60"
Capacity: 3,300 - 69,000 CFM
Static Pressure: 0 - 1.125"

E Series
Extruded Aluminum Prop

EUD & EUB
Static Pressure: 0 - 1.25"
Direct Drive (EUD)
• Prop Sizes: 24 - 48"
• Capacity: 3,900 - 50,000 CFM
Belt Drive (EUB)
• Prop Sizes: 24 - 72"
• Capacity: 4,300 - 94,000 CFM

LEU (Low Silhouette)
Belt Drive (LEU)
• Prop Sizes: 20 - 60"
• Capacity: 3,300 - 59,000 CFM
• Static Pressure: 0 - 1"

LEUMO (Belt Drive Motor Outside)
Belt Drive (LEUMO)
• Prop Sizes: 20 - 60"
• Capacity: 3,300 - 56,000 CFM
• Static Pressure: 0 - 1.125"

A Series
Cast Aluminum Prop

AUD & AUB
Prop Sizes: 24 - 48"
Static Pressure: 0 - 0.25"
Direct Drive (AUD)
• Capacity: 4,000 - 35,000 CFM
Belt Drive (AUB)
• Capacity: 4,000 - 35,000 CFM

LEU (Low Silhouette)
Belt Drive (LEU)
• Prop Sizes: 20 - 60"
• Capacity: 3,300 - 59,000 CFM
• Static Pressure: 0 - 1"

LEUMO (Belt Drive Motor Outside)
Belt Drive (LEUMO)
• Prop Sizes: 20 - 60"
• Capacity: 3,300 - 56,000 CFM
• Static Pressure: 0 - 1.125"

Curbs

Standard (RCG & RCA)
9.5" or 13.5" Standard Height
Galvanized (RCG)
• One Piece Construction
• 18 Ga. Galvanized Steel
Aluminum (RCA)
• .080 Aluminum

Attenuating (RCG-AT & RCA-AT)
16" or 24" Standard Height
Galvanized (RCG-AT)
• One Piece Construction
• 18 Ga. Galvanized Steel
Aluminum (RCA-AT)
• .080 Aluminum

The lab exhaust curb is on page 14

[Images and diagrams of fans and curbs]

All X.Stream Series & RCG sizes are available on Express, Cook's 24-hour shipping program.
UL Power Ventilator for Smoke Control Systems
TUBSC
TUDSC *
LXULSC, LXUMSC & LTUSC
* See page 17 for details

www.LorenCook.com
All Products Catalog
### Tube Axial
#### Triton® Series
**Steel Prop**

**TID & TIB**
- **Direct Drive (TID)**
  - Prop Sizes: 20 - 60"
  - Capacity: 1,700 - 64,000 CFM
  - Static Pressure: 0 - 1"
- **Belt Drive (TIB)**
  - Prop Sizes: 20 - 72"
  - Capacity: 2,300 - 98,000 CFM
  - Static Pressure: 0 - 1.25"

#### E Series
**Extruded Aluminum Prop**

**EDD & EDB**
- Extruded Aluminum Propeller
- Static Pressure: 0 - 1"
- **Direct Drive (EDD)**
  - Prop Sizes: 24 - 48"
  - Capacity: 1,600 - 47,000 CFM
- **Belt Drive (EDB)**
  - Prop Sizes: 24 - 60"
  - Capacity: 3,400 - 71,000 CFM

#### VA Catalog
**Fixed Pitch Vane Axial**
**Cast Aluminum Airfoil Prop**

**VAD & VAB**
- **Direct Drive (VAD)**
  - Prop Sizes: 18 - 60"
  - Capacity: 2,100 - 118,500 CFM
  - Static Pressure: 0 - 6"
- **Belt Drive (VAB & VAHB)**
  - Prop Sizes: 12 - 60"
  - Capacity:
    - Regular Duty: 680 - 99,000 CFM
    - Heavy Duty: 670 - 115,000 CFM
  - Static Pressure: 1 - 6.5"

#### AVA Catalog
**Adjustable Vane Axial**
**Cast Aluminum Airfoil Prop**

**AVAD & AVAB**
- Prop Sizes: 35 - 79"
- **Direct Drive (AVAD)**
  - Capacity: 310 - 206,000 CFM
  - Static Pressure: 0 - 13"
- **Belt Drive (AVAB)**
  - Capacity: 410 - 287,000 CFM
  - Static Pressure: 1 - 8"

#### AF Catalog
**Fixed Pitch Vane Axial**
**Cast Aluminum Airfoil Prop**

**AF**
- Direct Drive
  - With Cast Aluminum Airfoil Prop:
    - Prop Sizes: 12 - 60"
    - Static Pressure: 0 - 5.0"
- **Air Distribution (AFD-C)**
  - Capacity: 250 - 68,000 CFM
- **Outlet Vane Section Air Distribution (AFDV-C)**
  - Capacity: 380 - 68,000 CFM

**Belt Drive**
- With Stainless Steel Prop:
  - **Air Distribution (AFB-C)**
    - Prop Sizes: 12 - 60"
    - Capacity: 10 - 99,000 CFM
    - Static Pressure: 0 - 6.0"
  - **Outlet Vane Section Air Distribution (AFBV-C)**
    - Prop Sizes: 12 - 60"
    - Capacity: 10 - 99,000 CFM
    - Static Pressure: 0 - 6.0"

### Special features for products on this page
- UL Listing Power Ventilator for Smoke Control Systems *
- AFB-H, AFBV-H, TID & TIB
- See page 17 for details.
**A Series**

**Cast Aluminum Prop**

<table>
<thead>
<tr>
<th>Type</th>
<th>Direct Drive (AQD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prop Sizes:</td>
<td>12 - 48&quot;</td>
</tr>
<tr>
<td>Capacity:</td>
<td>150 - 19,000 CFM</td>
</tr>
<tr>
<td>Static Pressure:</td>
<td>0 - 0.75&quot;</td>
</tr>
</tbody>
</table>

**Belt Drive (AQB)**

| Prop Sizes:           | 24 - 48"                                                                          |
| Capacity:             | 1,100 - 17,000 CFM                                                                 |
| Static Pressure:      | 0 - 0.50"                                                                         |

**ETE & ETS**

<table>
<thead>
<tr>
<th>Tiered Fan</th>
<th>Belt Drive</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prop Sizes:</td>
<td>24 - 60&quot;</td>
</tr>
<tr>
<td>Static Pressure:</td>
<td>0 - 0.5&quot;</td>
</tr>
</tbody>
</table>

**Exhaust (ETE)**

| Capacity:             | 1,100 - 72,000 CFM                                                                 |

**Supply, Filtered Supply (ETS)**

| Capacity:             | 930 - 65,000 CFM                                                                  |

**SEP (Reversible)**

<table>
<thead>
<tr>
<th>Belt Drive</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Prop Sizes:</td>
<td>24 - 48&quot;</td>
</tr>
<tr>
<td>Capacity:</td>
<td>1,000 - 21,000 CFM</td>
</tr>
<tr>
<td>Static Pressure:</td>
<td>0 - 0.50&quot;</td>
</tr>
</tbody>
</table>

**REBEL Catalog**

**“REBEL”**

**Stamped Aluminum Prop**

<table>
<thead>
<tr>
<th>Reversible</th>
<th>Belt Drive</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prop Sizes:</td>
<td>12 - 24&quot;</td>
</tr>
<tr>
<td>Capacity:</td>
<td>80 - 5,800 CFM</td>
</tr>
<tr>
<td>Static Pressure:</td>
<td>0 - 1&quot;</td>
</tr>
</tbody>
</table>

**EXHAUST (REBE)**

| Capacity:             | 1,500 - 54,000 CFM                                                                 |
| Static Pressure:      | 0 - 1"                                                                            |

**Supply, Filtered Supply (REBS)**

| Capacity:             | 1,100 - 54,000 CFM                                                                 |
| Static Pressure:      | 0 - 0.625"                                                                        |

**H Series Direct Drive Catalog**

**Hooded “H Series”**

**Direct Drive**

<table>
<thead>
<tr>
<th>E Series Extruded Aluminum Prop</th>
<th>Prop Sizes: 20 - 54&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Static Pressure:</td>
<td>0 - 1&quot;</td>
</tr>
</tbody>
</table>

**Exhaust (HEE-D)**

| Capacity:             | 1,200 - 47,000 CFM                                                                 |

**Supply (HES-D)**

| Capacity:             | 890 - 48,000 CFM                                                                  |

**Filtered (HEF-D)**

| Capacity:             | 1,000 - 49,000 CFM                                                                 |

**Reversible (HER-D)**

| Capacity:             | 680 - 47,000 CFM                                                                  |

**H Series Belt Drive Catalog**

**Hooded “H Series”**

**Belt Drive**

<table>
<thead>
<tr>
<th>E Series Extruded Aluminum Prop</th>
<th>Prop Sizes: 24 - 60&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Static Pressure:</td>
<td>0 - 1&quot;</td>
</tr>
</tbody>
</table>

**Exhaust (HXE)**

| Capacity:             | 1,000 - 49,000 CFM                                                                 |
| Static Pressure:      | 0 - 0.75"                                                                        |

**Supply (HXS)**

| Capacity:             | 1,100 - 54,000 CFM                                                                 |

**Filtered (HXF)**

| Capacity:             | 980 - 53,000 CFM                                                                  |
**CP model names:**
Models with a “S” have a welded, Lorenized™, steel wheel with backward inclined flat blades.
Models with a “A” have a welded aluminum wheel with backward inclined flat blades.
Models with a “V” have an aluminum wheel with backward inclined flat blades.
Models with a “F” have a steel wheel with forward curved blades.
Models ending with a “-A” have a backward inclined airfoil wheel.

---

**CP Belt Drive:**
**CPS, CPA & CPV**
Wheel Sizes: 10 - 49"

- **Steel Wheel & Scroll (CPS)**
  - **Aluminum Wheel & Scroll (CPA)**
  - Wheel Sizes: 6 - 12"
  - Capacity: 70 - 49,000 CFM
  - Static Pressure: 1 - 8" (Class I or Class II (size 120 - 365))
  - **Aluminum Wheel & Steel Scroll (CPV)**
  - Capacity: 50 - 43,000 CFM
  - Static Pressure: 0.25 - 2.5"

---

**CP Direct Drive:**
**CPF-D**
Aluminum Wheel & Steel Scroll
- Wheel Sizes: 6 - 12"
- Capacity: 200 - 2,600 CFM
- Static Pressure: 0.125 - 2"

---

**CPS-A & CPA-A**
Wheel Sizes: 12 - 49"

- **Steel Wheel & Scroll (CPS-A)**
  - Capacity: 660 - 78,000 CFM
- **Aluminum Wheel & Scroll (CPA-A)**
  - Capacity: 700 - 53,000 CFM

---

**CPFB**
Steel Wheel & Scroll
- Wheel Sizes: 10 - 30"
- Capacity: 500 - 25,000 CFM
- Static Pressure: 0.125 - 2"

---

**Fiberglass Catalog**
**FCP**

**Utility Vent Set**
Wheel Sizes: 12 - 36"
Capacity: 800 - 32,000 CFM
Static Pressure: 1 - 10"
Arrangement 10, Class II Construction

---

**Special features for products on this page**

- **All CPS & CPV up to size 300 are available on Express.**
- **High Wind (Miami-Dade) Tested** *
  - Products:
    - CPS
    - CPS-A
    - CPV
  - Sizes: 60-245

- **Seismic (OSHPD) Tested** *
  - Products:
    - CPS
    - CPA
    - CPA-A
  - CPS
  - Sizes: 60-490

- **UL 762 Grease Laden Air Restaurant Exhaust** *
  - Products:
    - CPV
    - CPA
    - CPA-A

- **UL Power Ventilator for Smoke Control Systems** *
  - Products:
    - CPS
    - CPA-A

* See page 17 for details.
**CF** blowers have a steel, centrifugal, backward inclined, flat blade wheel. They are available in single wide configurations.

**CA** blowers have a steel, centrifugal, backward inclined, airfoil wheel. They are available in single and double wide configurations.

**CAF-DW** blowers have a steel, centrifugal, backward inclined, airfoil wheel. They are available in double wide configurations.

---

### CA / CF Catalog

**Single Width**

**Single Inlet**

**With 7 Discharge Positions**

**CA SWSI & CF SWSI**

- Belt Drive
- Wheel Sizes: 12 - 73"
- Static Pressure: 1 - 12"
- Arrangements: 1, 3, 7, 8, 9 & 10
- Class I, Class II or Class III

**Airfoil Wheel (CA SWSI)**

- Capacity: 700 - 209,000 CFM

**Flat Blade Wheel (CF SWSI)**

- Capacity: 950 - 198,000 CFM

**Double Width**

**Double Inlet**

**With 7 Discharge Positions**

**CA DWDI & CAF-DW**

- Belt Drive
- Wheel Sizes: 12 - 73"
- Static Pressure: 1 - 12"
- Arrangement 3 & 7
- Class I, Class II or Class III

**Industrial (CA DWDI)**

- Capacity: 900 - 375,000 CFM

**Commercial (CAF-DW)**

- Capacity: 900 - 375,000 CFM

**With 4 Discharge Positions**

**CA-4 SWSI & CF-4 SWSI**

- Belt Drive
- Wheel Sizes: 12 - 60"
- Static Pressure: 1 - 12"
- Arrangements: 1, 2, 3, 4 & 7
- Class I, Class II or Class III

**Airfoil Wheel (CA-4 SWSI)**

- Capacity: 490 - 141,000 CFM

**Flat Blade Wheel (CF-4 SWSI)**

- Capacity: 510 - 127,000 CFM

### IMH Catalog

**Material-Laden Air Handlers**

**MH**

- Wheel Sizes: 7 - 29"
- Static Pressure: 1 - 27"
- Arrangements: 1, 4, 8, 9 & 10

**Open Type Impeller (MH)**

- Belt Drive Capacity: 300 - 60,000 CFM

**Backplated Type Impeller (MHB)**

- Belt Drive Capacity: 250 - 65,000 CFM

**Backward Inclined, Flatblade Impeller (MHA)**

- Belt Drive Capacity: 250 - 56,000 CFM
- Direct Drive Capacity: 350 - 145,000 CFM

**Reinforced Open Type Impeller (MHR)**

- Belt Drive Capacity: 300 - 60,000 CFM

### CCP Catalog

**Plug Fans**

**CCP**

- Wheel Sizes: 12 - 44.5"
- Static Pressure: 1 - 6"
- Class I & II

**True Airfoil Wheel (CCP-A)**

- Capacity: 800 - 59,000 CFM

**Backward Inclined Wheel (CCP-F)**

- Capacity: 1,000 - 59,000 CFM

### PLC Catalog

**Plenum Fans**

**PLC**

- Capacity: 900 - 192,000 CFM
- Wheel Sizes: 12 - 73"
- Static Pressure: 1 - 12"
- Aluminum & Steel Construction
- Arrangements: 1, 3, & 4
- Class I, II, & III

**Belt Drive (PLC)**

**Direct Drive (PLC-D)**

---

**Special features for products on this page**

**Seismic (OSHPD) Tested**

<table>
<thead>
<tr>
<th>Product</th>
<th>Sizes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA – Arr. 9 and 10</td>
<td>thru size 540</td>
</tr>
<tr>
<td>CF – Arr. 9 and 10</td>
<td>thru size 540</td>
</tr>
</tbody>
</table>
Lab Exhaust Systems

LE Series
TCNH8-LE
Belt Drive
Wheel Sizes: 10 - 49"
Capacity: 350 - 49,000 CFM
Static Pressure: 0.5 - 4"

CPS-LE
Belt Drive
Wheel Sizes: 6 - 24.5"
Capacity: 70 - 12,000 CFM
Static Pressure: 1 - 5"

QMXD-LE
Direct Drive
Regular (QMXLE)
• Wheel Sizes: 15 - 49"
• Capacity: 1,500 - 79,000 CFM
• Static Pressure: 0.25 - 5"
High Pressure Wheel (QMXLE-HP)
• Wheel Sizes: 15 - 49"
• Capacity: 1,500 - 54,000 CFM
• Static Pressure: 1 - 8"

Belt Drive
Regular (QMXLE)
• Wheel Sizes: 9 - 49"
• Capacity: 500 - 79,000 CFM
• Static Pressure: 0.25 - 5"
High Pressure (QMXLE-HP)
• Wheel Sizes: 9 - 49"
• Capacity: 500 - 54,000 CFM
• Static Pressure: 1 - 8"

Vari-Plume®
Patent #7,484,929
CA-VP
Belt Drive
Wheel Sizes: 12 - 73"
Capacity: 1,500 - 147,000 CFM
Static Pressure: 1 - 12"

QMX-VP
Direct Drive
Regular (QMXDVP)
• Wheel Sizes: 15 - 60"
• Capacity: 2,500 - 120,000 CFM
• Static Pressure: 1 - 4"
High Pressure (QMXHPDVP)
• Wheel Sizes: 16.5 - 60"
• Capacity: 2,500 - 110,000 CFM
• Static Pressure: 1 - 4"

Belt Drive
Regular (QMXVP)
• Wheel Sizes: 9 - 60"
• Capacity: 2,500 - 108,000 CFM
• Static Pressure: 1 - 6"
High Pressure (QMXVP)
• Wheel Sizes: 9 - 60"
• Capacity: 2,500 - 108,000 CFM
• Static Pressure: 1 - 6"

Power-Plume Catalog

Power-Plume®
Patent Pending
Powered Induction Device Lab Exhaust System
Fan Mounted, Stack Mounted or Curb Mounted

LEC
Minimum 12 Ga. Phenolic Epoxy Powder Coated Steel Continuously Welded Corner 12” or 18” Standard Height
**Gravity Ventilation**

**PR & TR (Spun Aluminum)**
Sizes: 8 - 48”

- **Regular (PR)**
  - Intake Capacity: 260 - 22,000 CFM
  - Relief Capacity: 220 - 22,000 CFM
- **Tiered (TR)**
  - Intake Capacity: 260 - 22,000 CFM
  - Relief Capacity: 220 - 22,000 CFM

**TRE & TREH (Extruded Tiered)**

- **Regular (TRE)**
- **High Wind Rated (TREH)**
  - Throat Sizes: 12 x 12 - 120 x 120”
  - Intake Capacity: 330 - 63,000 CFM
  - Relief Capacity: 310 - 56,000 CFM

**GI & GR**
Throat Sizes: 12 x 12 - 72 x 144”

- **Intake (GI)**
  - Intake Capacity: 600 - 93,000 CFM
- **Relief (GR)**
  - Relief Capacity: 900 - 86,000 CFM

**LSUG (Low Silhouette)**
Sizes: 24 - 60”
Air Circulator Fans

CAC Catalog

**Air Circulator Fan Heads**

**CAC-ACH & CAC-ACHO (Oscillating)**
- Direct Drive
- Wheel Size: 24 & 30”
- Capacity: 5,000 - 7,900 CFM
- Velocity: 120 - 720 feet per minute, at 40 - 10 feet

**CAC-IHPWD (Wash down)**
- Direct Drive
- Wheel Size: 20 - 30”
- Capacity: 7,100 - 9,300 CFM
- Velocity: 420 - 1,700 feet per minute, at 40 - 10 feet

**Mountable Mini-Blower Fan Heads**

**CAC-MBDY**
- Direct Drive
- Wheel Size: 24 & 30”
- Capacity: 5,000 - 7,800 CFM
- Velocity: 120 - 710 feet per minute, at 10 - 40 feet

**Mounted Blower Fan Heads**

**CAC-UTE**
- Direct Drive
- Wheel Size: 18”
- Capacity: 3,200 - 4,600 CFM
- Velocity: 100 - 500 feet per minute, at 10 - 40 feet

**Suspendable Blower Fan Heads**

**CAC-SBD**
- Direct Drive
- Wheel Size: 36 & 42”
- Capacity: 9,000 - 16,800 CFM
- Velocity: 130 - 820 feet per minute, at 10 - 50 feet

**Portable Blowers**

**CAC-PBD (Direct drive, three blade prop)**
- Wheel size: 36 & 42”
- Capacity: 9,000 - 15,000 CFM
- Velocity: 130 - 820 feet per minute, at 50 - 10 feet

**CAC-PBB (Belt drive, four blade prop)**
- Wheel size: 36 - 48”
- Capacity: 14,000 - 22,000 CFM
- Velocity: 130 - 820 feet per minute, at 70 - 10 feet

2 Mounting Choices:
- Pedestal Mount
- Wall Mount

3 Mounting Choices:
- Blower Wall Mount
- I-Beam Mount
- Ceiling Mount

Mounting Accessories Sold Separate
UL 762

COOK products with a UL 762 listing are designed to eject contaminated or grease-laden air. These products are UL listed to operate continuously at elevated temperatures and continue operation during grease flare-up. All of these units are intended for installation in accordance with the National Fire Protection Association (NFPA) Standard 96: Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations.

UL Listed to Operate Continuously to 300°F
• VCR / VCR-HP / VCR-XP / VCRD / VCRD-HP / VCRD-XP
• Lo-Pro (requires additional accessories)
• CPV / CPA / CPA-A
• QMX / QMX-HP / QMXU / QMXU-HP / QMXLE / QMXLE-HP
• CIC

UL Listed to Operate Continuously to 500°F
• CPS / CPS-A
• CA / CA-SWSI Arrangement 1, 9 and 10
• CA-4 / CA-4 SWSI Arrangement 1 and 2
• CF / CF Arrangement 1, 9 and 10
• CF-4 / CF-4 Arrangement 1 and 2
• QMX / QMX-HP Arrangement 9
• CIC

CPV, CPA, CPA-A, QMX, QMX-HP and CIC must be ordered with drain and access door to comply with UL requirements. Weather covers are required for outdoor applications. When airstream temperatures are expected to exceed 180°F, high temperature accessories may be required.

Two Grease Collection Options

The Grease Terminator 2 is a grease-capture and containment system. It uses the same material that oil companies use to clean catastrophic oil spills on the ocean. It lasts about 30 to 45 days and is then replaced.

The grease trough is constructed of continuously welded 0.064 aluminum and includes a pan, lid and mounting hardware. Both the curb and non-curb mounted versions feature a baffled design for extended capacity. The lid and pan are removable for easy cleaning.

UL listing “Power Ventilator for Smoke Control Systems”

The UL listing “Power Ventilator for Smoke Control Systems” is a test procedure and category which was initiated by Loren Cook Company and developed in a joint effort with UL in 1990. Several different sources were used in the definition of this test procedure. These sources include UL Standards 705, 762, 793, Southern Building Code Congress International (SBCCI) Standard Fire Prevention Code/1988, and Industrial Risk Insurers (IRI) Document E2. The requirements for the UL listing “Power Ventilator for Smoke Control Systems” are summarized as follows.

Roof Mounted Products
• The unit must withstand a specified elevated airstream temperature for a specified duration.
• The unit must be listed under UL 705.
• Fans with integral butterfly dampers shall meet the following requirements:
  • Fans shall be fitted with spring loaded damper actuator arms which will open the dampers automatically when the airstream temperature reaches 165°F.
  • The dampers must activate with or without electrical power connected to the fan.
  • The damper actuators must meet the requirements in UL 793 for Snow and Dust Load Testing of Butterfly Dampers (10 pounds per square foot).

Inline Products
• The unit must withstand a specified elevated airstream temperature for a specified duration.
• The unit must be listed under UL 705.

<table>
<thead>
<tr>
<th>Model</th>
<th>Sizes</th>
<th>Maximum Pressure</th>
<th>Duration at Specified Airstream Temp.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>302°F</td>
</tr>
<tr>
<td>ACSC</td>
<td>100 thru 490</td>
<td>5.0&quot;</td>
<td>4 HOURS</td>
</tr>
<tr>
<td>ACSC-HP</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACSC-XP</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TUBSC</td>
<td>20 thru 72</td>
<td>1.0&quot;</td>
<td>4 HOURS</td>
</tr>
<tr>
<td>LXULSC</td>
<td>20 thru 60</td>
<td>1.0&quot;</td>
<td>4 HOURS</td>
</tr>
<tr>
<td>LXUMSC</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LTUSC</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TUDSC ++</td>
<td>20 thru 72</td>
<td>1.0&quot;</td>
<td>8 HOURS</td>
</tr>
<tr>
<td>CPS *</td>
<td>60 thru 490</td>
<td>5.0&quot;</td>
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<td>CPS-A *</td>
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<tr>
<td>QMXU **</td>
<td>90 thru 600</td>
<td>8.0&quot;</td>
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<tr>
<td>QMXU-HP **</td>
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<td>QMXDU +</td>
<td>150 thru 600</td>
<td>8.0&quot;</td>
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<tr>
<td>QMXDU +</td>
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<tr>
<td>QMXHPDU +</td>
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<tr>
<td>QMXDU +</td>
<td>150 thru 600</td>
<td>8.0&quot;</td>
<td>10 HOURS</td>
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<tr>
<td>QMXDU +</td>
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<tr>
<td>QMXHPDU +</td>
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<tr>
<td>CA / CF ***</td>
<td>120 thru 730</td>
<td>12&quot;</td>
<td>4 HOURS</td>
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<tr>
<td>QMX-HP **</td>
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<tr>
<td>QMXD +</td>
<td>150 thru 600</td>
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<td>6 HOURS</td>
</tr>
<tr>
<td>QMXD +</td>
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</tr>
<tr>
<td>QMXHPD +</td>
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<tr>
<td>QMXD +</td>
<td>150 thru 600</td>
<td>8.0&quot;</td>
<td>10 HOURS</td>
</tr>
<tr>
<td>QMXD +</td>
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<tr>
<td>QMXHPD +</td>
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<tr>
<td>AFB-H</td>
<td>12 thru 36</td>
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<tr>
<td>AFBV-H</td>
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<td>5.5&quot;</td>
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<tr>
<td>TIB *</td>
<td>20 thru 72</td>
<td>1.25&quot;</td>
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</tr>
<tr>
<td>TID ++</td>
<td>20 thru 72</td>
<td>1.0&quot;</td>
<td>8 HOURS</td>
</tr>
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</table>

* Requires additional accessories. Consult factory for details. ** Arrangement 9 only. Requires additional accessories. See catalog for details. *** SWSI Arrangements: 1, 8, 9 & 10 only. Requires additional accessories. See catalog for details. + Requires motor with Class F insulation. ++ Requires TEFC motor with Class F insulation.
Design

Loren COOK Company’s hurricane rated construction option was developed for the demands of high wind and coastal areas. Through rigorous research and testing, this construction option was developed to meet the demands of Miami-Dade County’s Testing Application Standards (TAS) 201, 202 and 203. Each of these fans has passed all three of the TAS testing protocols.

In addition, all of these products have received approval from the Florida Building Commission.

The hurricane rated construction option was engineered so that the fans have the same physical size as the standard construction units. In addition, the fan’s air and sound performance, as shown in the product catalogs and Compute A Fan® selection software, remains identical to the standard construction products. Approved attachment details are included in the Notice of Acceptance documents on the Miami-Dade County Florida website (miamidade.gov) and the Florida Building Commission website (floridabuilding.org). These details are also available in Loren COOK Company’s Installation, Operation and Maintenance manual “Hurricane Rated Construction” Supplement. The approved attachment details do not require the use of external tie downs to the roof. Installation of the fans to an approved roof curb must be in accordance with these details to meet the Miami-Dade County and Florida Building Commission approvals.

In the early stages of development, products were modeled with Computational Fluid Dynamics (CFD) to determine the stress points as air flowed around the fans at speeds of 150 MPH. Next, Finite Element Analysis (FEA) was utilized to model and evaluate stress plots. Finally, the proper material gauges and hardware were determined so the fans would survive these high wind loads.

In the next step of testing, products were placed in an aerodynamic wind tunnel. They were tested to a 150 MPH sustained wind to determine the product’s resistance to wind load. Continued on next page.
Testing

Finally, the fans passed not one, not two, but all three approval tests:

TAS-201: Large Missile Impact Test - determines sufficient resistance to windborne debris as determined by the Florida Building Code, Section 1626 for maintaining the envelope of the building. Test employs an 8’ foot Southern Pine 2” x 4” beam, weighing 9” pounds; shot from an air cannon at (50 ft/ sec) with resulting damage not to exceed specified tolerances allowed by Section 1626.2.8.

TAS-202: Uniform Static Air Pressure Test - determines sufficient resistance to wind forces as determined by Florida Building Code, Section 1620 and Section 1625 for maintaining the overall envelope of the building. Test employs a sealed pressure envelope both inside and outside of the test product (allowing for both positive and negative static pressure tests) to determine if the product provides sufficient resistance to wind forces as required by Section 1620.

TAS-203: Cyclic Wind Pressure Test - determines sufficient resistance to fatigue failure due to repeated exposure to wind pressure as required by Florida Building Code Section 1620 0. Test employs a sealed pressure envelope to repeatedly apply (671 cycles) positive and negative static pressure forces, lasting 1 to 3 seconds each, on the product surface following completion of the missile impact test.

* Indicates an approximate value based on a range allowed by specified test standards.

All tests were performed in the progressive manner of TAS-202, TAS-201, then TAS-203 on the same piece of equipment in an accredited independent laboratory.

### Miami-Dade County Product Control And Florida Building Commission Approved Products

<table>
<thead>
<tr>
<th>Style</th>
<th>Products</th>
<th>Approved Sizes</th>
<th>TAS-201</th>
<th>TAS-202</th>
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<tbody>
<tr>
<td>EXHAUST</td>
<td>ACEB</td>
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<td>ACED</td>
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<td>ACRUB, ACRUB-HP, ACRUB-XP</td>
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<td>CPS**, CPS-A**, CPV**</td>
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</tbody>
</table>

**Tested with Inlet Box and Curb Cap
Texas Department of Insurance Product Evaluation Pending
Several popular Cook models have been shake table tested to a spectral response acceleration ranging to 2.5G’s (SDS = 2.50). These tests were conducted in accordance with the criteria specified in ICC-ES AC156.

The tests were accepted by the California Office of Statewide Health Planning and Development (OSHPD) as part of the pre-approval of these products. OSHPD is the only state or federal organization that pre-approves mechanical equipment as seismically sound.

All inline fans were tested horizontally, in both ceiling hung and base mounted configurations. All roof mounted products were tested with the unit and roof curb as a complete assembly.

All Cook fans listed have been tested to exceed spectral response accelerations covering the most severe seismic conditions anywhere in the United States.

### OSHPD Pre-Approval Number

<table>
<thead>
<tr>
<th>Exhaust Fans:</th>
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<td>ACRUD, ACRUB, ACSC, VCR &amp; VCRD</td>
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<tr>
<td>CA – Arr. 9 and 10 thru size 540</td>
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<td>CF – Arr. 9 and 10 thru size 540</td>
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<th>Inline Fans:</th>
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<td>QMX, QMX-HP, QMX-XP, SQN-D, SQN-B &amp; SQN-HP</td>
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Seismic Simulation

Multi-Axis Shake Table Testing