S&P

ADVANCING VENTILATION®

PREMIUM CHOICE SERIES

Advancing Ventilation®

Soler&Palau
Ventilation Group
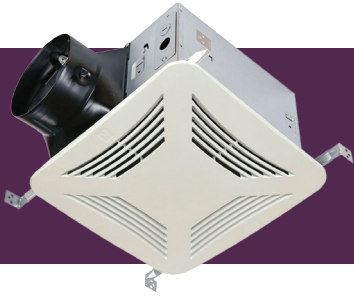
PCXP
AC Motor Models

PCD
DC Motor Models

PCV
Value Series Models

PCLP /PCLPXP
Low Profile Models

BATHROOM FAN SIZING

Based on the Home Ventilating Institute (HVI) guidelines

FAN SIZING FOR BATHROOMS UNDER 100 SQUARE FEET

The standard rule for bathrooms 100 square feet or smaller is one CFM per square foot of the bathroom. To find the square footage, multiply the length of the bathroom by the width.

9'

5'

45 sq.ft.
The minimum recommendation is a fan rated at least 45 CFM.
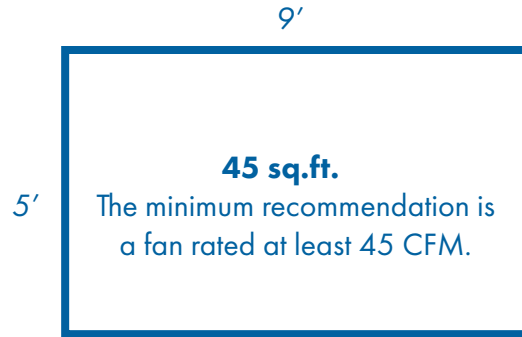
Ventilation for baths over 100 square feet is calculated based on the fixtures in the bathroom (see table below). Add the CFM of all fixtures within the bathroom for the required fan CFM. Enclosed toilet rooms must have an operable window or a fan for ventilation.

CFM REQUIRED PER FIXTURE

Toilet	50 CFM
Shower	50 CFM
Bath Tub	50 CFM
Jetted Tub	100 CFM

EXAMPLE

1 Toilet	50 CFM
1 Jetted Tub	100 CFM
Required CFM	150 CFM

SOLUTION

1. Install a 100 CFM fan over the tub, 50 CFM fan in the shower and above the toilet. This method will provide ventilation where and when it's needed.
2. Install one 150 CFM fan. The air will be pulled through the entire room and exhausted at a central location.

For more information on bath fan sizing and ventilation, visit www.hvi.org.

IMPROVE IAQ WITH THE PREMIUM CHOICE SERIES

Americans spend **90%** of their time **INDOORS.**

Indoor Air can be **2-5 TIMES** MORE POLLUTED THAN OUTSIDE AIR

The EPA ranks **INDOOR AIR POLLUTANTS** as a **TOP FIVE** HEALTH RISK.

As buildings are being built with higher quality construction methods, balanced ventilation methods are more important than ever. An unbalanced home results in poor Indoor Air Quality (IAQ), causing inadequate conditions for your home and the inhabitants. As codes change, it is important for you to understand why Indoor Air Quality is so important and the options available to you from S&P USA.

Locate the best fan for your project to the right.

SERIES	MODEL	CFM	SONES +	PAGE
PCXP AC Motor Models	PC50XP	50	0.4	8
	PC80XP	80	0.4	8
	PC110XP	110	0.3	8
	PC150XP	150	0.5	8
PCD DC Motor Models	PCD80XH	80	1.5	10
	PCD110XP	80/110/140	0.3/0.3/0.3	10
	PCLPD100XHP	100/80/50	1.2/1.0/0.6	12
PCV Value Series Models	PCV50	50	2.5	14
	PCV80	80	1.5	14
PCLP Low Profile Models	PCLP80	80	1.2	15
	PCLP100	100	2	15
	PCLP80XP	80	0.7	16
	PCLP100XP	100	1.5	16
	PCLPD100XHP	100/80/50	1.2/1.0/0.6	12

PREMIUM CHOICE DIFFERENCE

LONG LIFE

BEST IN CLASS WARRANTY

STRESS-FREE INSTALLATION

**PLUG-&-PLAY DESIGN**

ENERGY EFFICIENT

+ Sones represented at .1" of Static Pressure

PLUG-&-PLAY
MODULES + GRILLES

S&P's unique Plug-&-Play options make your CHOICE easy. Whether you're looking for a Speed Control, Humidity Sensor, Motion/Humidity Sensor or VOC Sensor, there is a control that connects to the receptacle and easily mounts into the pre-drilled holes inside the fan housing.

There is a receptacle for your grille CHOICE. Need a lighted fan? Choose the fluorescent or LED Lighted Grille Kits. Need a motion sensing fan? Choose the Motion Sensing Grille Kit. Either grille easily plugs into the grille receptacle to give you the fan of your CHOICE!

PC Fan models include receptacles based on compatibility. Learn more in our Accessories section.

Motor Receptacle

Grille Receptacle

Humidity Sensor or Speed Control Receptacle

PCIAQS (VOC/Humidity Sensor) Module Receptacle*
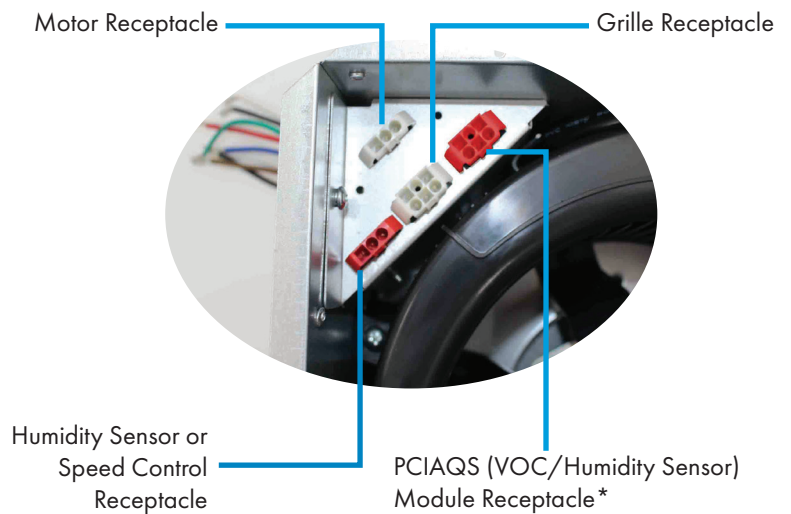
MODULES + GRILLES

- Humidity Sensor
- Volatile Organic Compound + Humidity Sensor
- Speed Control
- Motion + Humidity Sensor
- Grille Kit
- CFL Lighted Motion Grille
- LED Lighted Grille
- Lighted Motion Grille

*The receptacle for the PCIAQS is field installed.

UNDERSTANDING PLUG-&-PLAY

PICK YOUR
FAN

Pick a base fan from one of our Premium CHOICE Series models.

EXAMPLE: PC110XP AC Model

PICK YOUR
MODULE OR GRILLE

Choose a compatible Module or Grille Kit for your custom need

EXAMPLE: PCLMHKP Lighted Motion and
--Humidity Sensor Kit for PCXP Series

ORDER YOUR
CUSTOM FAN

Order your Base Fan + Module/Grille to receive your full custom fan.

EXAMPLE: PC110XP + PCLMHKP

PCXP - AC MOTOR MODELS

5 YEARS WARRANTY

FEATURES

- Extremely quiet operation 0.3 to 0.5 sones
- Redesigned blower for increased efficiency and lower sound
- Seamless Plug-&-Play integration
- Select models available as Contractor Packs (packs of 4)

HVI 2100 CERTIFIED · ETL Intertek · ENERGY STAR · cULus LISTED · AMCA SOUND AND AIR PERFORMANCE (excludes PC50XP) · TITLE 24 2019 PART 6

MODEL	CFM	SONES [+]
PC50XP	50	0.4
PC80XP	90	0.4
PC110XP	120	0.3
PC150XP	150	0.5

MODULES + GRILLES

HUMIDITY SENSOR
PCHSP

SPEED CONTROL
PCSCP

VOLATILE ORGANIC COMPOUND AND HUMIDITY SENSOR
PCIAQSP

METAL GRILLE
PCMGP

CFL LIGHTED GRILLE
PCLKP

LIGHTED MOTION AND HUMIDITY GRILLE KIT
PCLMHKP

RADIATION DAMPER
PCRD

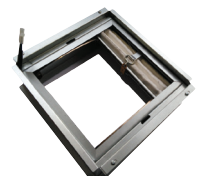### MOTION AND HUMIDITY GRILLE KIT
PCMHKP

LED LIGHTED GRILLE
PCLEDKP

LED LIGHTED GRILLE
PCVLEDKP
for PC50XP

RADIATION DAMPER
PCVRD

* UL certified includes 230V ONLY
+ Sones shown are at .1″ of Static Pressure

PCXP - AC MOTOR MODELS

Fan Model	Accessory	Compatible with:
PC50XP	PCSCP	PCVRD, PCVLEDKP, PCVLEDKRDP
	PCHSP	
	PCVRD	PCSCP, PCHSP
	PCVLEDKP	
	PCVLEDKRDP	
PC80XP, PC110XP, PC150XP, PCHP, PC80XFP, PC110XFP	PCSCP	PCLKP, PCLEDKP, PCMGP, PCRD, PCLKRDP, PCLEDKRDP, PCMGKRDP
	PCHSP	
	PCIAQSP	
	PCLKP	PCSCP, PCHSP, PCIAQSP
	PCLEDKP	
	PCMGP	
	PCMHKP	NA
	PCLMHKP	
	PCLKRDP	
	PCLEDKRDP	
	PCMGKRDP	
	PCMHKRDP	NA
	PCLMHKRDP	

WHAT IS A CONTRACTOR PACK?

Contractor Packs are broken into two packages: Housing (set of 4) and Motors + Grilles (set of 4). This allows installation flexibility for large scale projects that need to be completed in phases.

AVAILABLE ON SELECT MODELS

PCD - DC MOTOR MODELS

6 YEARS WARRANTY

FEATURES

- Extremely quiet operation 0.3 to 1.5 sones
- Brushless DC motor for long life
- High/Low speed delay timer
- Built in control module with motion, humidity, speed control, and delay timer (options vary per model)
- Motion grille(purchased separately) is required for motion sensing capability
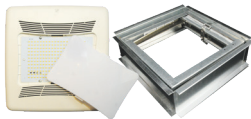
MODEL	CFM	SONES [+]
PCD80XHP	80	0.5
PCD110XP	110	0.3
PCLPD100XHP	80	1.0

MODULES + GRILLES

FOR PCD80XHP

LED LIGHTED RADIATION GRILLE
PCVLEDKDP

LED LIGHTED GRILLE
PCVLEDKP

RADIATION DAMPER
PCVRD

FOR PCD110XP

CFL LIGHTED GRILLE
PCLKP

LED LIGHTED GRILLE
PCLEDKP

METAL GRILLE
PCMGP

MOTION GRILLE
PCMRGP

LIGHTED MOTION AND HUMIDITY GRILLE KIT
PCDLMGP

+ Sones shown are at .1" of Static Pressure

FOR PCLPD100XHP

LED LIGHTED GRILLE	LED LIGHTED GRILLE & RADIATION DAMPER KIT	4" OVAL TO 3" ROUND REDUCER
PCLPLEDK	**PCLPLEDKRD**	**PCLPR4-3**

Model	Accessory	Compatible with:
PCD80XHP	PCVLEDKP	NA
	PCVLEDKRDP	
	PCVRD	
PCD110XP	PCLEDKP	NA
	PCLKP	
	PCMGP	
	PCDLMGP	
	PCMRGP	
	PCMRGRDP	
	PCLKRDP	
	PCLEDKRDP	
	PCMGKRDP	
	PCDLMGRDP	
PCLPD100XHP	PCLPLEDK	PCLPR4-3
	PCLPLEDKRD	
	PCLPR4-3	

AUTOFLO™ FROM S&P USA

Autoflo™ is an innovative technology that automatically adjusts the fan speed based on the actual Static Pressure in the duct system ensuring a specified amount of airflow. **Available on PCD 80XHP and PCD110XP.**

NEW

Premium *Choice* Series
Ventilation Fans

PCLPD100XHP

PCLPD100XHP LOW PROFILE CEILING OR WALL MOUNTED EXHAUST FAN WITH DC MOTOR

S&P's Premium Choice Series Bathroom/Exhaust Fan model PCLPD100XHP is built for today's demanding requirements featuring seamless Plug-&-Play integration and a redesigned blower for a quiet, energy efficient performance. The PCLPD100XHP also features an ultra-low profile that allows easy installation into a wall, eliminating the need for a radiation damper to meet fire-resistance requirements in building code.

KEY FEATURES

- Ultra-Low Profile Design to fit in the smallest wall cavities
- Ultra-Quiet Operation of 1.2 sones
- DC Motor for high efficiency with auto-flow technology
- Built-in Humidity Sensing and Continuous low speed capability

ENERGY STAR · HVI 2100 CERTIFIED · ETL LISTED Intertek · TITLE 24 PART 6

PCLPR4-3
Round Recucer

MODEL	CFM*	SONES*
PCLPD100XHP	100/80/50	1.2/1.0/0.6

*Values shown are at .1" of static pressure

Model	Accessory	Compatible With
PCLPD100XHP Low Profile Ceiling or Wall Mounted Exhaust fan with DC Motor	PCLPLEDK LED Lighted Grille Kit	PCLPR4-3 Round Recucer
	PCLPLEDKRD LED Lighted Grille Kit & Radiation Damper	

PCLPLEDK
LED Lighted Grille Kit

PCRD
Radiation Damper

AUTOFLO FROM S&P USA

Autoflo is an innovative technology that automatically adjusts the fan speed based on the actual Static Pressure in the duct system ensuring a specified amount of airflow.

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S&P ADVANCING VENTILATION®

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PCV - VALUE MODELS

5 YEARS WARRANTY

FEATURES

- Quiet operation 1.5 to 2.5 sones
- 4" duct connector with built-in backdraft damper
- Available as Contractor Packs (packs of 4)

MODEL	CFM	SONES [+]
PCV50	50	2.5
PCV80	80	1.5

HVI 2100 CERTIFIED · ETL Intertek · ENERGY STAR (PCV80 only) · TITLE 24

MODULES + GRILLES

HUMIDITY SENSOR PCHS

SPEED CONTROL PCSC PCV80 only

LIGHTED GRILLE PCVLK

LED LIGHTED GRILLE PCVLEDK

RADIATION DAMPER PCVRD

Model	Accessory	Compatible with:
PCV50, PCV50H, PCV50F	PCHS	PCVRD, PCVLEDK
	PCVRD	PCHS
	PCVLK	N/A
	PCVLEDK	PCHS
	PCVLEDKRD	PCHS
PCV80, PCV80H, PCV80F	PCSC	PCVRD, PCVLEDK, PCVLEDKRD
	PCHS	
	PCVRD	PCSC, PCHS
	PCVLK	N/A
	PCVLEDK	PCSC, PCHS
	PCVLEDKRD	PCSC, PCHS

PCLP - LOW PROFILE MODELS

5 YEARS WARRANTY

FEATURES

- Low profile housing design
- Suitable for sidewall mounting
- Quiet operation 1.2 to 2.0 sones
- Available as Contractor Packs (Pack of 4)
- No ceiling radiation damper is required when wall mounted, saving time and money

MODEL	CFM	SONES +
PCLP80	80	1.2
PCLP100	100	2

HVI 2100 CERTIFIED   ETL Intertek   ENERGY STAR   TITLE 24 PART 6

OPTIONAL ACCESSORY

MODULES + GRILLES

PCLP 4" OVAL TO 3" ROUND REDUCER
PCLPR4-3

HUMIDITY SENSOR
PCLPHS

SPEED CONTROL
PCLPSC

LED LIGHTED GRILLE
PCLPLEDK

RADIATION DAMPER
PCLPRD

Model	Accessory	Compatible with:
PCLP80, PCLP100, PCLPH, PCLP100F	PCLPLEDK	PCLPSC, PCLPHS
	PCLPRD/PCRD	
	PCLPLEDKRD	
	PCLPSC	PCLPLEDKRD, PCLPLEDK
	PCLPHS	
	PCLPR4-3	Everything above

PCLPXP- LOW PROFILE MODELS

FEATURES

- Ultra-Low Profile Design to fit in the smallest wall cavities
- Ultra-Quiet operation of .7 to 1.5 sones
- Available as Contractor Packs (Pack of 4)
- No ceiling radiation damper is required when wall mounted, saving time and money
- One SKU can be kept on hand for both wall and ceiling mounted applications to consolidate warehouse space.

MODEL	CFM	SONES +
PCLP80XP	80	0.7
PCLP100XP	100	1.5

OPTIONAL ACCESSORY

PCLP 4" OVAL TO 3" ROUND REDUCER

PCLPR4-3

MODULES + GRILLES

HUMIDITY SENSOR **PCLPHSP**

SPEED CONTROL **PCLPSCP**

LED LIGHTED GRILLE **PCLPLEDK**

RADIATION DAMPER **PCLPRD/PCRD**
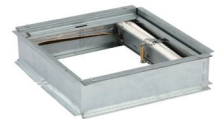
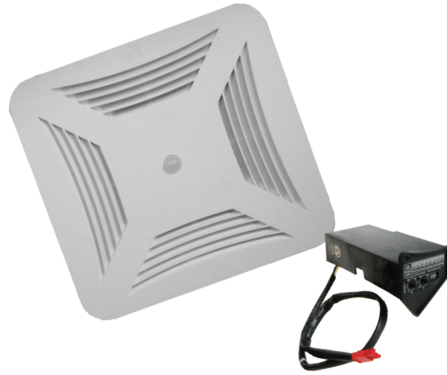| Model	Accessory	Compatible with:
PCLP80XP, PCLP100XP, PCLPHXP, PCLP80XPF, PCLP100XPF	PCLPSCP	PCLPLEDK, PCLPRD/PCRD, PCLPLEDKRD
	PCLPHSP	
	PCLPLEDK	PCLPSCP, PCLPHSP
	PCLPRD/PCRD	
	PCLPLEDKRD	
	PCLPR4-3	Everything above

*Values shown are at .1" of static pressure

GRILLES

METAL GRILLE -
PCMG/PCMGP
- Ideal for commercial applications

Motion and Humidity Sensing Grille Kit -
PCMHKP
- Automatically turns on fan when motion or humidity is sensed
- Adjustable time delay shut-off from 5 to 60 minutes
- Speed Controllable low speed if enabled

Lighted Motion and Humidity Sensing Grille Kit -
PCLMHKP
- 13 watt GU24 bulb and 4 watt night light bulb
- Automatically turns on fan when motion and/or humidity is sensed
- Adjustable time delay shut-off from 5 to 60 minutes
- Speed Controllable low speed if enabled

CFL Lighted Grille Kit -
PCLK/PCLKP
- 13 watt GU24 bulb and 4 watt light bulb

LED Lighted Grille Kit-
PCLEDKP/PCLPLEDK
- 11 watt LED light
- 4100K/1100 lumens
- 2 watt LED night light setting 200 lumens

CFL Lighted Grille Kit for PC Value-
PCVLK
- 13 watt GU24 bulb
- 2700K/900 lumens
- Simple plug-in receptacle in fan housing

LED Lighted Grille Kit for PC Value -
PCVLEDK/ PCVLEDKP
- 13 watt LED light
- 4100K/1100 lumens
- 2 watt LED night light setting 200 lumens
- Can be installed with new or pre-installed fan

LED Lighted Grille Kit-
PCLPLEDK
- 13 watt LED light
- 4100K/1100 lumens
- Simple plug-in receptacle in fan housing
- Can be installed with new or pre-installed fan

PLUG-&-PLAY MODULES

PCHS   **PCHSP**

PCSC   **PCSCP**

PCIAQSP
VOLATILE ORGANIC COMPOUND (VOC) AND HUMIDITY SENSOR

- Detects VOCs and/or rapid rise in humidity at the ceiling
- Speed control to run fan continuously
- Meets Calirfonia Title 24 bathroom fan requirement (CALGreen)

PCLPHS
HUMIDITY SENSOR

- Detects rapid rise in humidity
- Auto-shut off timer
- Accessible sensitivity adjustment
- Meets Title 24 bathroom fan requirement

PCLPSC
SPEED CONTROL

- Provides seamless two speed operation without additional wiring at the wall switch
- Accessible speed adjustment
- High speed override
- Allows for adjustable continuous speed to meet ASHRAE 62.2

WALL CONTROLS OPTIONS

3-SWITCH CONTROL
PC3S

- Three Rocker Combination Switch with ground screw terminals and push-in wiring

FAN/LIGHT DELAY TIMER SWITCH
FLTD-60

- Saves energy by automatically turning exhaust fan off
- One Switch controls fan and light
- Digital Timing circuit
- Fits single switch outlet box

ROTARY SPRING WOUND TIMER
SRT-30

- Hold feature enables user to override the automatic shut-off function
- Press-on knob design ensures quick and easy installation
- CFL Compatible

ELECTRONIC PUSH BUTTON TIMER
EPBT-60

- 10-20-30-60 minute timer
- Activate by pushing the button

ASHRAE 62.2 BATH FAN VENTILATION CONTROL
FT-622

- Programmable DELAY and VENTI-LATION settings
- Works with ALL incandescent, CFL, fluorescent and LED lights up to 450 watts
- Earn LEED and ENERGY STAR points for enhanced exhaust ventilation

PROGRAMMABLE FAN TIMER 24 HOURS/ 7 DAYS
FT247

- Hold feature enables user to override the automatic shut-off function
- Press-on knob design ensures quick and easy installation
- CFL Compatible

RADIATION DAMPER KITS

GENERAL FEATURES

- 3-hour rating ceiling radiation dampers
- Ceramic fiber with fiberglass cover fire blanket
- Roll-formed frame 22 g. galvanized steel

CFL LIGHTED GRILLE AND
RADIATION DAMPER KIT
PCLKRDP
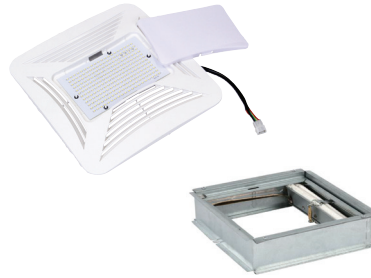
LED LIGHTED GRILLE AND RADIATION
DAMPER KIT
PCLEDKRD/PCLEDKRDP

MOTION AND HUMIDITY SENSING
GRILLE AND RADIATION DAMPER KIT
PCMHKRDP

LIGHTED MOTION AND HUMIDITY
SENSING GRILLE AND RADIATION
DAMPER KIT
PCLMHKRDP

METAL GRILLE AND RADIATION
DAMPER KIT
PCMGKRD/PCMGKRDP

LED LIGHT KIT FOR PREMIUM CHOICE
VALUE SERIES AND RADIATION DAMPER
KIT
PCVLEDKRD/PCVLEDKRDP

LED LIGHT KIT FOR PREMIUM CHOICE
LOW PROFILE SERIES AND
RADIATION DAMPER KIT
PCLPLEDKRD

MOTION GRILLE AND
RADIATION DAMPER KIT
PCMRGRDP

LIGHTED MOTION AND HUMIDITY
SENSING GRILLE AND RADIATION
DAMPER KIT
PCDLMGRDP

Premium *Choice* Series
Ventilation Fans

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ADVANCING VENTILATION®

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