

KRUGER

KCE-Premium Series

Advancing Ventilation

Premium **CHOICE**

Bathroom
Extract Fans



Why KRUGER?

KRUGER has been a leading innovator and manufacturer of residential, commercial and industrial fan application solutions across Asia since 1985. Today with a direct presence in over 18 regions throughout Asia; world class R&D and manufacturing facilities; KRUGER are able to offer their customers unparalleled service and support at a local level. Our customers place their trust in KRUGER.



Why Improve IAQ with the KCE-Premium Choice?



Most people **spend 70%** time indoors.

Indoor Air can be **2-5 times more polluted** than outside air.



Indoor Air Pollutions is one of top five **Health Risk**.

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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 Kruger.

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Why Choose KRUGER's KCE-Premium Choice Bathroom Extract Fans?

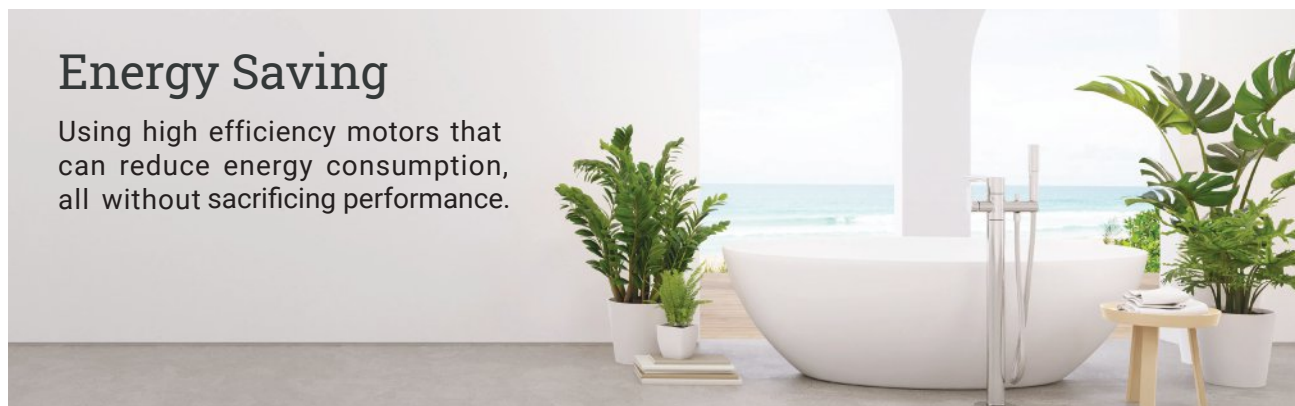
The KRUGER KCE-Premium Choice range provides a high quality, reliable and flexible ventilation system to suit any premium bathroom application. The simplicity of Kruger's KCE-P Premium Choice fans is in the options. While other premium fans come as humidity sensing fans; with a speed control or humidity sensor built-in, our KCE-P Premium Choice fans give you the flexibility to choose your grille and control separately. Our fans even allow you to change your mind after you install them! Our KCE-P Premium Choice fans come with standard grilles and you have the option of a motion sensing grille. You pick the fan model, the grille and the controls you need. The CHOICE is yours!



KRUGER KCE-Premium Choice Bathroom Extract Fan Features

Energy Saving

Using high efficiency motors that can reduce energy consumption, all without sacrificing performance.



Powerful yet Ultra-Low Noise Extract Performance



Optimized centrifugal fan blowers combined with either AC or EC motor options deliver a powerful yet ultra-low noise extract performance. An integrated low noise damper also prevents backdrafts and loss of heat energy.

Long Life



Permanently lubricated motors are engineered for trouble-free continuous operations for **30,000 hours on AC motors and 60,000 hours on EC motors**. KCE-P fans feature robust steel housings and attractive, sturdy grilles making the KCE-P Series a fan you can fit and forget.

Safety



All fans are equipped with a certified safety thermal overload cut-off fuse.

Easy Installation



Kruger KCE-P fans are designed for easy installation for both new construction and retrofit installation. All models come with adjustable hanger bars, unique wiring design allowing for in-room or outside wiring.

Warranty

Kruger KCE-P fans come standard with the industry's longest warranty. AC motor include a 4-year warranty, while EC motor models have a 6-year warranty.



* Warranty terms and conditions, please consult nearest Kruger office.

Certification

Kruger KCE-PA series air and sound performance are certified by AMCA.



Kruger Ventilation Industries Asia Co., Ltd Certifies that the KCE-PA Series shown herein is licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program. Model KCE-PD are not licensed by AMCA International.

How to Select a KRUGER KCE-Premium Bathroom Extract Fan

Step 1

Calculate the required extract airflow rate for the bathroom volume. This can be accomplished using the following simple formula:

$$\text{Bathroom Width (m)} \times \text{Length (m)} \times \text{Height (m)} \times [* \text{Recommended Air-Changes-per Hour (ACH)}]$$

* Recommended Air-Changes-Per-Hour = the Local or National Building Regulation Code requirements. Please check with your local authorities.

Example:

A bathroom with a floor space of Width 4m x Length 4m x Height 2.5m = floor volume 40 m³. A local Building Regulation Code (for bathroom extract) requires 6 ACH. Total calculated extract airflow requirement = 40 m³ x 6 ACH = 240 m³/hr Extract rate.

Using this calculated extract rate (240 m³/hr) we can then select the KCE-P by always selecting a marginally higher airflow rate then calculated.

In this example the calculated airflow rate = 240 m³/hr, therefore KCE-P model selected = KCE 280PA which delivers 286 m³/hr.

Step 2

Select operating features. This is determined by deciding on how either the application or user requires the fan to be controlled.

Please see below the following control option accessories for the KCE-P Series.

Control Function / Fan-Accessory Part ID# Reference	KCE-P	KCE-P-S	KCE-P-H	KCE-P-M
Simple ON/OFF via switch (Not supplied)	X			
Continuous set low speed. Adjustable continuous set low speed then activated to operate at high/full speed via switch (Not supplied)		X		
Humidity activated control. Detects rapid rise in humidity (bath/shower) and switches the fan ON at high/full speed. Adjustable humidity sensitivity. Fan continues to operate for pre-selected time (mins) after humidity detection.			X	
Motion Sensing Grille. Automatically turns on fan when motion is sensed. Adjustable time delay shut-off from 3 to 30 minutes and speed reduced up to 50%.				X

* All accessories are available for AC Motor Models only.

IMPORTANT: All KCE-Premium fan control options are supplied as simple "plug-&-play" accessories which are easily integrated inside the standard KCE-P fan unit.



PSC - Speed Control



PHS - Humidity Sensor



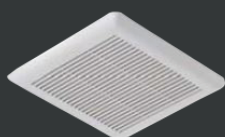
PMS - Motion Sensing Grille

Step 3

Select grille type to suit preferred bathroom environment. Please see below table for grille options by KCE-P model references.

Module / Grille	Standard			Optional		
	PA1	PB1	PC1	PA2	PC2	PC3
KCE 100PA	✓			✓		
KCE 140PA		✓				
KCE 200PA			✓		✓	✓
KCE 280PA			✓		✓	✓
KCE 355PA			✓		✓	✓
KCE 71PD	✓			✓		
KCE 140PD	✓			✓		
KCE 180PD		✓				
KCE 400PD			✓		✓	✓
KCE 560PD			✓		✓	✓

Standard Grille



PA1



PB1

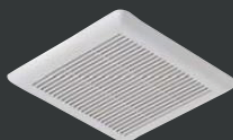


PC1

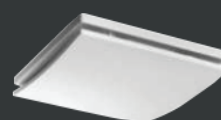
Optional Grille



PA2



PC2



PC3

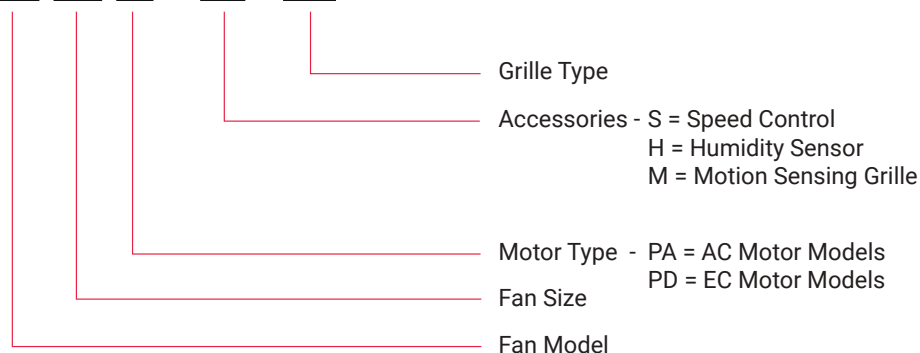
* Pure white plastic grille (RAL 9016) is standard. Other grille specifications are available upon request.

Step 4

Please contact your local KRUGER company office for any questions or support.

Model Number Nomenclature

KCE 200 PA - MH - PC1



AC Motor Models

The Kruger KCE-Premium CHOICE KCE-PA series (AC motor models) is built for today's demanding IAQ requirements featuring seamless Plug-&-Play integration and a redesigned blower for a quiet, energy efficient performance.

KCE-Premium Bathroom Extract Fans – AC Motor Technical Data												
Model	Watts*	Volt	Hz	RPM	Ps (Pa)	0	10	20	30	40	50	55
KCE 100PA	12	220	50	960	Q (CMH)	105	95	80	61	37	14	0
					Lwi(A) (dB(A))	40	41	43	44	45	47	48
					Lp(A) (dB(A))**	29	30	31	33	34	36	37
Model	Watts*	Volt	Hz	RPM	Ps (Pa)	0	15	30	45	60	75	85
KCE 140PA	15	220	50	980	Q (CMH)	132	119	102	80	53	23	0
					Lwi(A) (dB(A))	40	41	43	46	50	54	58
					Lp(A) (dB(A))**	29	30	32	34	39	43	47
Model	Watts*	Volt	Hz	RPM	Ps (Pa)	0	20	40	60	80	100	112
KCE 200PA	30	220	50	800	Q (CMH)	188	161	131	100	69	30	0
					Lwi(A) (dB(A))	38	40	44	48	53	57	59
					Lp(A) (dB(A))**	27	29	31	36	42	48	51
Model	Watts*	Volt	Hz	RPM	Ps (Pa)	0	20	40	60	80	100	120
KCE 280PA	33	220	50	810	Q (CMH)	286	249	208	169	128	81	30
					Lwi(A) (dB(A))	44	44	46	48	51	54	57
					Lp(A) (dB(A))**	33	33	35	38	40	42	44
Model	Watts*	Volt	Hz	RPM	Ps (Pa)	0	25	50	75	100	125	150
KCE 355PA	47	220	50	910	Q (CMH)	325	288	245	197	144	87	10
					Lwi(A) (dB(A))	47	47	49	51	53	56	58
					Lp(A) (dB(A))**	36	35	38	40	42	44	46



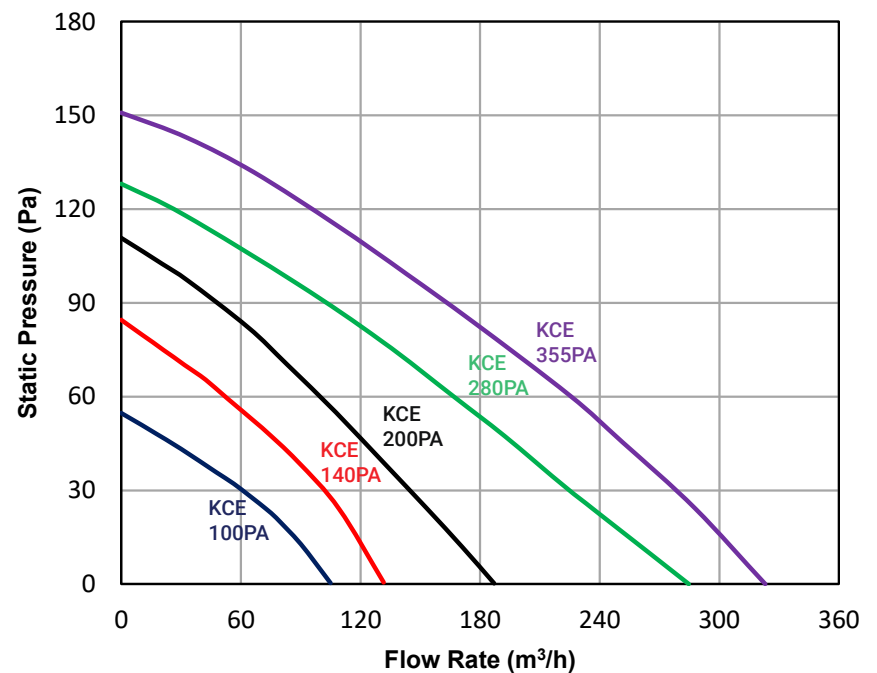
KCE 100PA



KCE 140PA



KCE 200PA
KCE 280PA
KCE 355PA



* Watts rating is maximum motor input power.

** Inlet Lp(A) sound pressure levels at 1m are measured at free discharge in spherical free field condition, inlet Lp(A) (dB(A)) levels are not licensed by AMCA International.

- Values shown are for inlet Lwi(A) sound power levels for installation type B – Free inlet, Ducted outlet. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.

- Performance certified is for installation type B – Free inlet, Ducted outlet. Performance ratings include the effects of inlet grille and backdraft damper.

- Speed (RPM) shown is nominal. Performance is based on actual speed of test.

EC Motor Models

The Kruger KCE-Premium CHOICE KCE-PD series (EC motor models) features the most efficient EC motor with built-in control boards, having higher efficiency and longer life than AC motors.

KCE-Premium Bathroom Extract Fans – EC Motor Technical Data													
Model	Watts*	Volt	Hz	RPM	Ps (Pa)	0	15	30	45	60	75	90	96
KCE 71PD	8	240/220	50/60	940	Q (CMH)	73	68	60	52	43	30	11	0
					Lwi(A) (dB(A))	52	47	44	47	48	49	50	51
					Lp(A) (dB(A))**	41	36	33	36	37	38	39	40
Model	Watts*	Volt	Hz	RPM	Ps (Pa)	0	15	30	45	60	75	90	105
KCE 140PD	11	240/220	50/60	1090	Q (CMH)	150	135	121	105	89	68	42	10
					Lwi(A) (dB(A))	47	47	47	49	51	52	54	56
					Lp(A) (dB(A))**	36	36	36	38	40	41	43	45
Model	Watts*	Volt	Hz	RPM	Ps (Pa)	0	20	40	60	80	100	120	125
KCE 180PD	11	240/220	50/60	1130	Q (CMH)	180	163	144	122	97	66	31	22
					Lwi(A) (dB(A))	47	47	48	50	53	56	59	60
					Lp(A) (dB(A))**	36	36	37	39	42	45	48	49
Model	Watts*	Volt	Hz	RPM	Ps (Pa)	0	25	50	75	100	125	150	175
KCE 400PD	37	240/220	50/60	1020	Q (CMH)	402	366	331	293	252	208	152	66
					Lwi(A) (dB(A))	58	57	56	56	57	58	58	59
					Lp(A) (dB(A))**	47	46	45	45	46	47	47	48
Model	Watts*	Volt	Hz	RPM	Ps (Pa)	0	30	60	90	120	150	180	210
KCE 560PD	57	240/220	50/60	1090	Q (CMH)	564	523	479	432	376	307	210	0
					Lwi(A) (dB(A))	59	59	58	58	59	60	61	62
					Lp(A) (dB(A))**	48	48	47	47	48	49	50	51



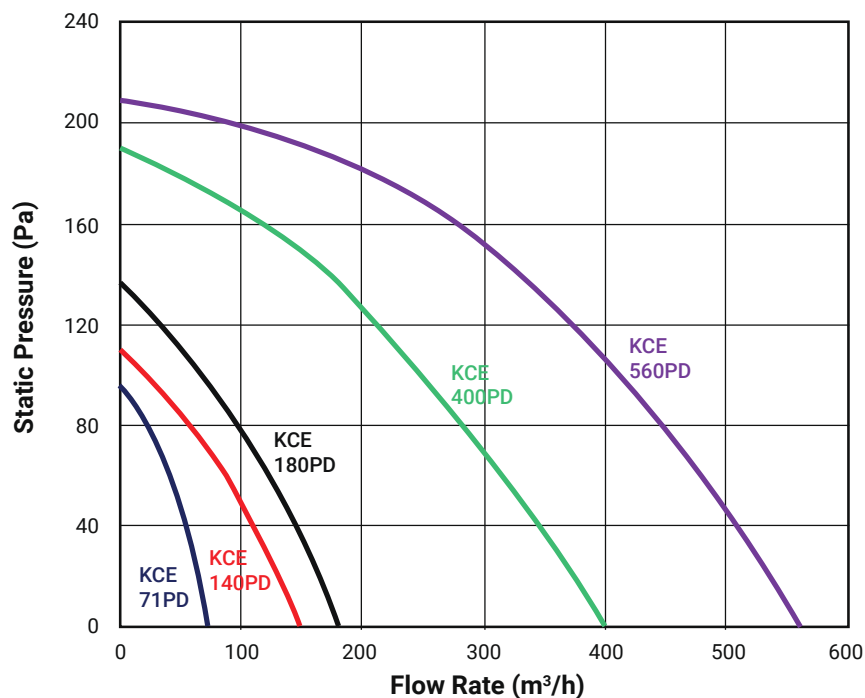
KCE 71PD
KCE 140PD



KCE 180PD



KCE 400PD
KCE 560PD



* Watts rating is maximum motor input power.

** Inlet Lp(A) sound pressure levels at 1m are measured at free discharge in spherical free field condition.

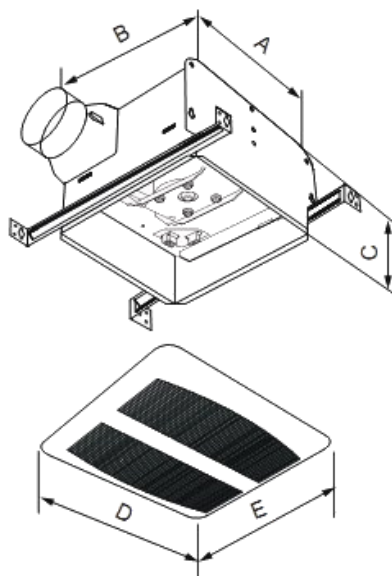
- Values shown are for inlet Lwi(A) sound power levels for installation type B – Free inlet, Ducted outlet. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.

- Performance shown is for installation type B – Free inlet, Ducted outlet. Performance ratings include the effects of inlet grille and backdraft damper. Speed (RPM) shown is nominal. Performance is based on actual speed of test.

- Model KCE-PD are not licensed by AMCA International.

KCE-Premium Bathroom Extract Fans

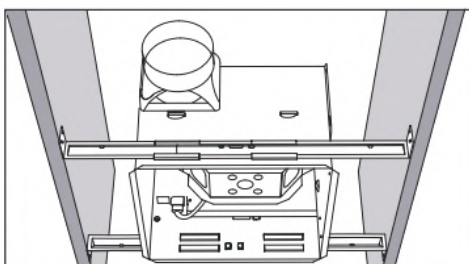
Dimension and Installation Data



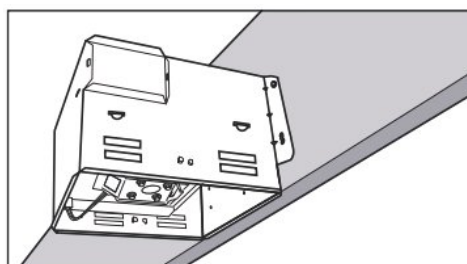
MODEL	A	B	C	D	E
KCE 100PA	184	190	143	222	232
KCE 140PA	230	230	146	290	300
KCE 200PA	267	289	194	330	350
KCE 280PA	267	289	194	330	350
KCE 355PA	267	289	194	330	350
KCE 71PD	184	190	143	222	232
KCE 140PD	184	190	143	222	232
KCE 180PD	230	230	146	290	300
KCE 400PD	267	289	194	330	350
KCE 560PD	267	289	194	330	350

All dimensions in mm.

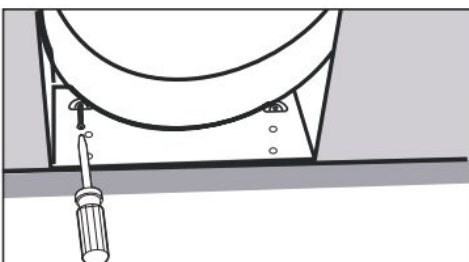
Multi Installation Options



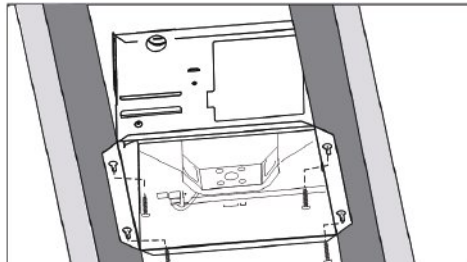
Mounted between trusses



Mounted to L-joists & joists



Mounted with additional mounting holes



Mounted to L-joists & joists
(Available for KCE 100PA, KCE 140PA, KCE 71PD, KCE 140PD and KCE 180PD)

KRUGER Ventilation Group

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A member of

