TFS Roof Fans

A compact, quiet and reliable exhaust fan for domestic and commercial areas

- Compact extract air fan, ideal for storage areas, offices, residential houses etc.
- Durable and easy maintanance
- Available with AC and EC motors for 50 and 60Hz
- Low noise level

Find more details in our online catalogue

Applicability

The TFS fans are designed as very compact solution to fit roof exhaust extensions and provide a **quick** and straightforward **installation**. Fans are available in black, grey and brick red color and can be used in a variety of **commercial** and **domestic** applications, e.g. single and multiple **dwellings**, **offices, storages** and day **nurseries**.

Highly Durable

The fan is housed in a galvanized steel powder-coated casing to provide required protection for demanding outdoor use. The combination of high-reliable **motor** and **long-life** ball bearings, allows long **continuous operation** of the fan.

Easy Maintenance

TFS fans deploy a '**swing out**' design and have integrated on/off **service switch** on top of the casing to allow **quick access** for inspection and servicing.

Quiet solution

Noise optimized impeller makes the TFS fans a very quite solution. Further sound decrease obtained by using sound and thermal insulated **roof curb** (recommended accessory).

Certifications

Ecodesign (ErP) compliant

Compliant with today's and tomorrow's European Union rules and requirements for energy labelling and ecodesign for Energy-related Products (ErP).

AMCA Worldwide Certified Ratings: Sound and Air Performance

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Check the AMCA Certified and Listed Product Search for our products
https://www.amca.org/certify/#certified-product-search

Features

Construction

Casing made of **galvanised sheet steel** and for additional protection **powder coated** to grey, black and brick red colour. The casing of **TFS** includes a '**swing out**' cover with integrated service switch to simplify maintenance. To simplify the wiring process on site, the fans are also equipped with an external terminal box (**IP66**) with a 1 m long cable.

Impeller

TFS use backward curved **radial** impellers. These are made from lightweight, hard-wearing fiberglass reinforced **polyamide**, dynamically **balanced** and paired with corresponding external rotor motors.

Motor

Depending on type, **TFS** fans are equipped with **AC** or high efficient **EC** external rotor motors. All motors are suitable for **50Hz** and **60Hz**.

Motor protection

Fans with **AC** motors have **integrated** thermal protection with manual (electrical) reset.
Fans with **EC** motors have **integrated** electronic **thermal protection** including **locked-rotor protection** and **soft-start**.

Control

Fans with **EC motor** with **built-in potentiometer** to adjust working point can be also controlled by external **signal 0-10V.**
Fans with **AC motor** can be controlled by **5-step** or **stepless** speed regulator (accessory).
For **demand controlled** ventilation it can be combined with timer, thermostat, hygrostat, etc.

Mounting

The TFS must be installed on the roof in **horizontal or inclined** position. We recommend to install the fan together with a **roof curb** (available as an accessory).
TFSR delivered with **spigot** for the cases of direct connection to the circular duct. For cold climates we recommend continuous operation of the fan.

Technical parameters

Nominal data		
Voltage (nominal)	230	V
Frequency	50	Hz
Phases	1~	
Input power	25	W
Input power kW	0.025	kW
Input current	0.133	A
Impeller speed	1,799	rpm
Air flow	max 297	m³/h
Capacitance of capacitor	1.5	µF
Temperature of transported air	max 70	°C
Max temperature of transported air, when speed controlled	70	°C

Sound data		
Sound pressure level at 10m (free field)	33	dB(A)
Sound pressure level at 3m (free field)	43	dB(A)
Sound pressure level at 4m (free field)	41	dB(A)

Protection/Classification		
Enclosure class, motor	IP44	
Insulation class	B	

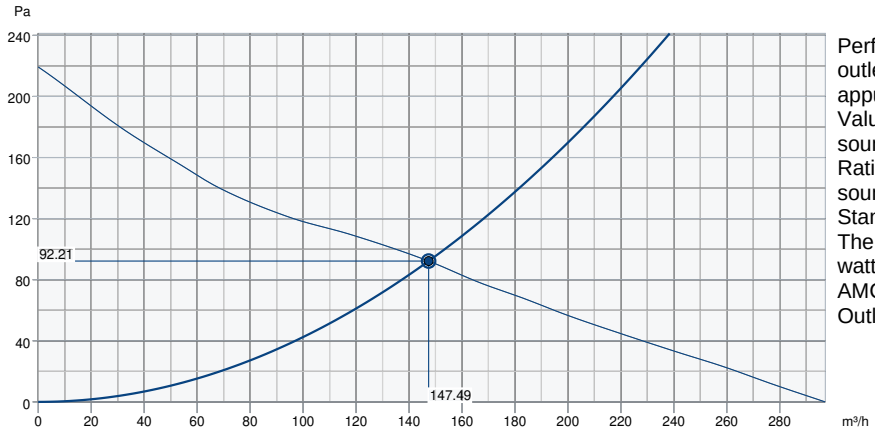
Data according to ErP		
Energy class, Basic unit	E	
Energy class, Local demand	B	
ErP ready	ErP 2018; ErP 2016	

Dimensions and weights		
Duct dimension; Circular, inlet	125	mm
Weight	3.1	kg

Others		
Duct connection type	Circular	
Color name, casing	Black	
Motor type	AC	

Performance

Performance curve



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AMCA certified data is, Airflow, Static pressure, Power, Inlet sound, Outlet sound at 230V

Hydraulic data	
Required air flow	147 m³/h
Required static pressure	92 Pa
Working air flow	147 m³/h
Working static pressure	92 Pa
Air density	1.204 kg/m³
Power	24.9 W
Fan control - RPM	1,845 rpm
Current	0.13 A
SFP	0.608 kW/m³/s
Control voltage	230.0 V
Supply voltage	230 V

Sound power level		**63**	**125**	**250**	**500**	**1k**	**2k**	**4k**	**8k**	**Total**
Inlet	dB(A)	53	49	61	53	53	49	36	23	63
Outlet	dB(A)	53	49	62	55	52	48	42	24	64

Certifications

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Technical parameters

Nominal data		
Voltage (nominal)	230	V
Frequency	60	Hz
Phases	1~	
Input power	31	W
Input power kW	0.031	kW
Input current	0.161	A
Impeller speed	1,898	rpm
Air flow	max 289	m³/h
Capacitance of capacitor	1.5	µF
Temperature of transported air	max 66	°C
Max temperature of transported air, when speed controlled	66	°C

Sound data		
Sound pressure level at 10m (free field)	31	dB(A)
Sound pressure level at 3m (free field)	41	dB(A)
Sound pressure level at 4m (free field)	39	dB(A)

Protection/Classification		
Enclosure class, motor	IP44	
Insulation class	B	

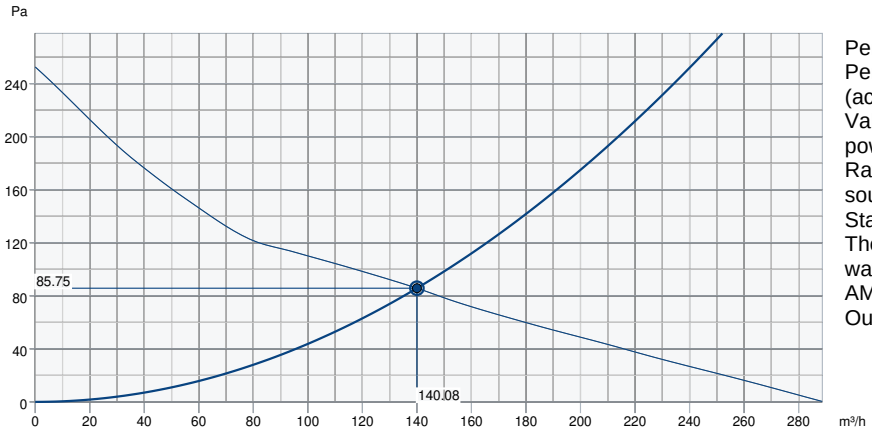
Data according to ErP		
Energy class, Basic unit	E	
Energy class, Local demand	C	
ErP ready	ErP 2018; ErP 2016	

Dimensions and weights		
Duct dimension; Circular, inlet	125	mm
Weight	3.1	kg

Others		
Duct connection type	Circular	
Color name, casing	Black	
Motor type	AC	

Performance

Performance curve



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Hydraulic data	
Required air flow	140 m³/h
Required static pressure	86 Pa
Working air flow	140 m³/h
Working static pressure	86 Pa
Air density	1.204 kg/m³
Power	31.6 W
Fan control - RPM	1,772 rpm
Current	0.16 A
SFP	0.811 kW/m³/s
Control voltage	230.0 V
Supply voltage	230 V

Sound power level		**63**	**125**	**250**	**500**	**1k**	**2k**	**4k**	**8k**	**Total**
Inlet	dB(A)	50	48	59	52	52	47	34	23	61
Outlet	dB(A)	53	46	60	53	51	46	40	24	62

Certifications

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Technical parameters

Nominal data		
Voltage (nominal)	230	V
Frequency	50	Hz
Phases	1~	
Input power	57	W
Input power kW	0.057	kW
Input current	0.276	A
Impeller speed	2,501	rpm
Air flow	max 349	m³/h
Capacitance of capacitor	1.5	µF
Temperature of transported air	max 46	°C
Max temperature of transported air, when speed controlled	46	°C

Sound data		
Sound pressure level at 10m (free field)	37	dB(A)
Sound pressure level at 3m (free field)	47	dB(A)
Sound pressure level at 4m (free field)	45	dB(A)

Protection/Classification		
Enclosure class, motor	IP44	
Insulation class	F	

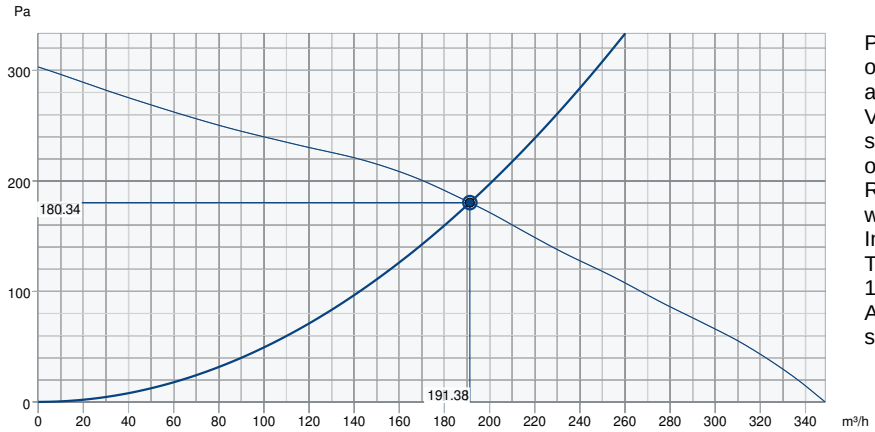
Data according to ErP		
Energy class, Basic unit	E	
Energy class, Local demand	B	
ErP ready	ErP 2016; ErP 2018	

Dimensions and weights		
Duct dimension; Circular, inlet	125	mm
Weight	3.3	kg

Others		
Duct connection type	Circular	
Color name, casing	Black	
Motor type	AC	

Performance

Performance curve



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Hydraulic data	
Required air flow	191 m³/h
Required static pressure	180 Pa
Working air flow	191 m³/h
Working static pressure	180 Pa
Air density	1.204 kg/m³
Power	56.2 W
Fan control - RPM	2,517 rpm
Current	0.27 A
SFP	1.057 kW/m³/s
Control voltage	230.0 V
Supply voltage	230 V

Sound power level		**63**	**125**	**250**	**500**	**1k**	**2k**	**4k**	**8k**	**Total**
Inlet	dB(A)	48	53	63	58	60	56	55	49	67
Outlet	dB(A)	50	57	61	63	61	58	59	52	68

Certifications

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Technical parameters

Nominal data		
Voltage (nominal)	230	V
Frequency	60	Hz
Phases	1~	
Input power	59	W
Input power kW	0.059	kW
Input current	0.257	A
Impeller speed	2,876	rpm
Air flow	max 409	m³/h
Capacitance of capacitor	1.5	µF
Temperature of transported air	max 70	°C
Max temperature of transported air, when speed controlled	70	°C

Sound data		
Sound pressure level at 10m (free field)	46	dB(A)
Sound pressure level at 3m (free field)	56	dB(A)
Sound pressure level at 4m (free field)	54	dB(A)

Protection/Classification		
Enclosure class, motor	IP44	
Insulation class	F	

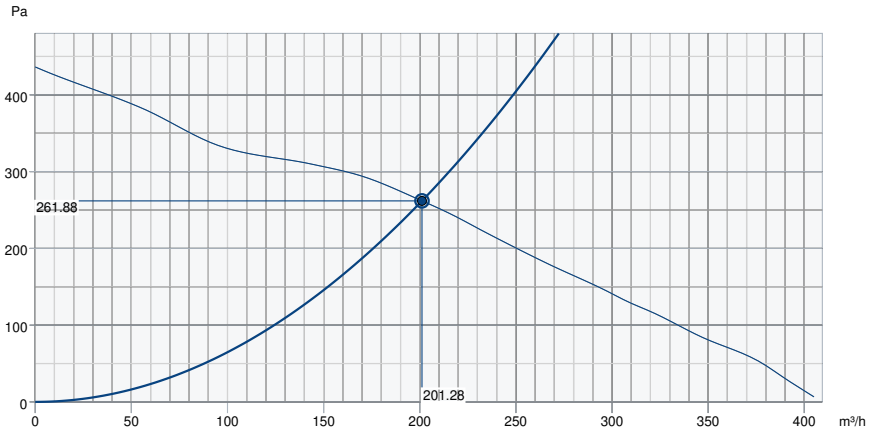
Data according to ErP		
Energy class, Basic unit	E	
Energy class, Local demand	B	
ErP ready	ErP 2018; ErP 2016	

Dimensions and weights		
Duct dimension; Circular, inlet	125	mm
Weight	3.3	kg

Others		
Duct connection type	Circular	
Color name, casing	Black	
Motor type	AC	

Performance

Performance curve



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Hydraulic data	
Required air flow	201 m³/h
Required static pressure	262 Pa
Working air flow	201 m³/h
Working static pressure	262 Pa
Air density	1.204 kg/m³
Power	57.3 W
Fan control - RPM	2,925 rpm
Current	0.25 A
SFP	1.024 kW/m³/s
Control voltage	230.0 V
Supply voltage	230 V

Sound power level		**63**	**125**	**250**	**500**	**1k**	**2k**	**4k**	**8k**	**Total**
Inlet	dB(A)	60	62	70	69	69	68	63	63	76
Outlet	dB(A)	69	65	65	70	71	68	68	66	78

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Fans with **AC** motors have **integrated** thermal protection with manual (electrical) reset.
Fans with **EC** motors have **integrated** electronic **thermal protection** including **locked-rotor protection** and **soft-start**.

Control

Fans with **EC motor** with **built-in potentiometer** to adjust working point can be also controlled by external **signal 0-10V.**
Fans with **AC motor** can be controlled by **5-step** or **stepless** speed regulator (accessory).
For **demand controlled** ventilation it can be combined with timer, thermostat, hygrostat, etc.

Mounting

The TFS must be installed on the roof in **horizontal or inclined** position. We recommend to install the fan together with a **roof curb** (available as an accessory).
TFSR delivered with **spigot** for the cases of direct connection to the circular duct. For cold climates we recommend continuous operation of the fan.

Technical parameters

Nominal data		
Voltage (nominal)	230	V
Frequency	50	Hz
Phases	1~	
Input power	51	W
Input power kW	0.051	kW
Input current	0.222	A
Impeller speed	2,377	rpm
Air flow	max 417	m³/h
Capacitance of capacitor	1.5	µF
Temperature of transported air	max 70	°C
Max temperature of transported air, when speed controlled	70	°C

Sound data		
Sound pressure level at 10m (free field)	36	dB(A)
Sound pressure level at 3m (free field)	46	dB(A)
Sound pressure level at 4m (free field)	44	dB(A)

Protection/Classification	
Enclosure class, motor	IP44
Insulation class	B

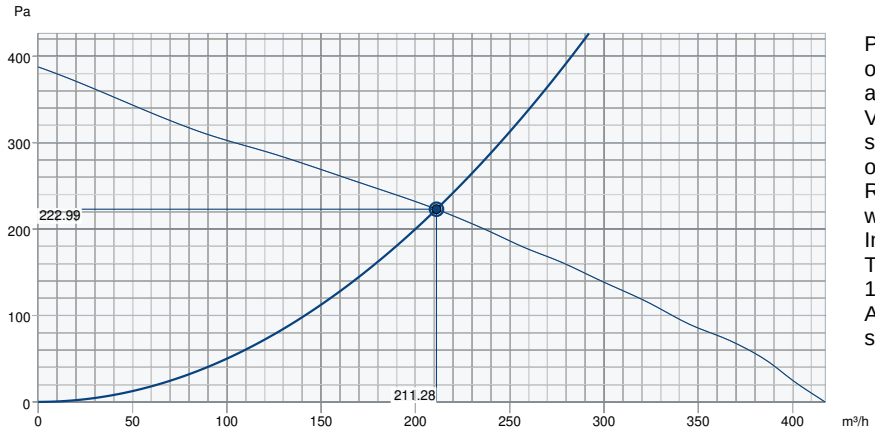
Data according to ErP	
Energy class, Basic unit	E
Energy class, Local demand	B
ErP ready	ErP 2016; ErP 2018

Dimensions and weights		
Duct dimension; Circular, inlet	160	mm
Weight	4.5	kg

Others	
Duct connection type	Circular
Color name, casing	Black
Motor type	AC

Performance

Performance curve



Performance certified is for installation type C – Ducted inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories).
Values shown are for inlet Lwi and LwiA and oulet Lwo and LwoA sound power levels for installation type C: ducted inlet, free outlet.
Ratings include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.
The sound power level ratings shown are in decibels, referred to 10^{-12} watts, calculated per AMCA International Standard 301.
AMCA certified data is, Airflow, Static pressure, Power, Inlet sound, Outlet sound at 230V

Hydraulic data	
Required air flow	211 m³/h
Required static pressure	223 Pa
Working air flow	211 m³/h
Working static pressure	223 Pa
Air density	1.204 kg/m³
Power	50.4 W
Fan control - RPM	2,405 rpm
Current	0.22 A
SFP	0.859 kW/m³/s
Control voltage	230.0 V
Supply voltage	230 V

Sound power level		**63**	**125**	**250**	**500**	**1k**	**2k**	**4k**	**8k**	**Total**
Inlet	dB(A)	47	50	57	58	60	57	53	47	65
Outlet	dB(A)	47	48	61	59	60	60	57	52	67

Certifications

AMCA Worldwide Certified Ratings: Sound and Air Performance

Systemair certifies that the model TFSK 160 Sileo - KSA 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.

Check the AMCA Certified and Listed Product Search for our products
https://www.amca.org/certify/#certified-product-search

NOTE!
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TFS Roof Fans

A compact, quiet and reliable exhaust fan for domestic and commercial areas

- Compact extract air fan, ideal for storage areas, offices, residential houses etc.
- Durable and easy maintanance
- Available with AC and EC motors for 50 and 60Hz
- Low noise level

Find more details in our online catalogue

Applicability

The TFS fans are designed as very compact solution to fit roof exhaust extensions and provide a **quick** and straightforward **installation**. Fans are available in black, grey and brick red color and can be used in a variety of **commercial** and **domestic** applications, e.g. single and multiple **dwellings**, **offices, storages** and day **nurseries**.

Highly Durable

The fan is housed in a galvanized steel powder-coated casing to provide required protection for demanding outdoor use. The combination of high-reliable **motor** and **long-life** ball bearings, allows long **continuous operation** of the fan.

Easy Maintenance

TFS fans deploy a '**swing out**' design and have integrated on/off **service switch** on top of the casing to allow **quick access** for inspection and servicing.

Quiet solution

Noise optimized impeller makes the TFS fans a very quite solution. Further sound decrease obtained by using sound and thermal insulated **roof curb** (recommended accessory).

Certifications

Ecodesign (ErP) compliant

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Features

Construction

Casing made of **galvanised sheet steel** and for additional protection **powder coated** to grey, black and brick red colour. The casing of **TFS** includes a '**swing out**' cover with integrated service switch to simplify maintenance. To simplify the wiring process on site, the fans are also equipped with an external terminal box (**IP66**) with a 1 m long cable.

Impeller

TFS use backward curved **radial** impellers. These are made from lightweight, hard-wearing fiberglass reinforced **polyamide**, dynamically **balanced** and paired with corresponding external rotor motors.

Motor

Depending on type, **TFS** fans are equipped with **AC** or high efficient **EC** external rotor motors. All motors are suitable for **50Hz** and **60Hz**.

Motor protection

Fans with **AC** motors have **integrated** thermal protection with manual (electrical) reset.
Fans with **EC** motors have **integrated** electronic **thermal protection** including **locked-rotor protection** and **soft-start**.

Control

Fans with **EC motor** with **built-in potentiometer** to adjust working point can be also controlled by external **signal 0-10V.**
Fans with **AC motor** can be controlled by **5-step** or **stepless** speed regulator (accessory).
For **demand controlled** ventilation it can be combined with timer, thermostat, hygrostat, etc.

Mounting

The TFS must be installed on the roof in **horizontal or inclined** position. We recommend to install the fan together with a **roof curb** (available as an accessory).
TFSR delivered with **spigot** for the cases of direct connection to the circular duct. For cold climates we recommend continuous operation of the fan.

Technical parameters

Nominal data		
Voltage (nominal)	230	V
Frequency	60	Hz
Phases	1~	
Input power	64	W
Input power kW	0.064	kW
Input current	0.276	A
Impeller speed	2,539	rpm
Air flow	max 448	m³/h
Capacitance of capacitor	1.5	µF
Temperature of transported air	max 70	°C
Max temperature of transported air, when speed controlled	70	°C

Sound data		
Sound pressure level at 10m (free field)	38	dB(A)
Sound pressure level at 3m (free field)	48	dB(A)
Sound pressure level at 4m (free field)	46	dB(A)

Protection/Classification	
Enclosure class, motor	IP44
Insulation class	B

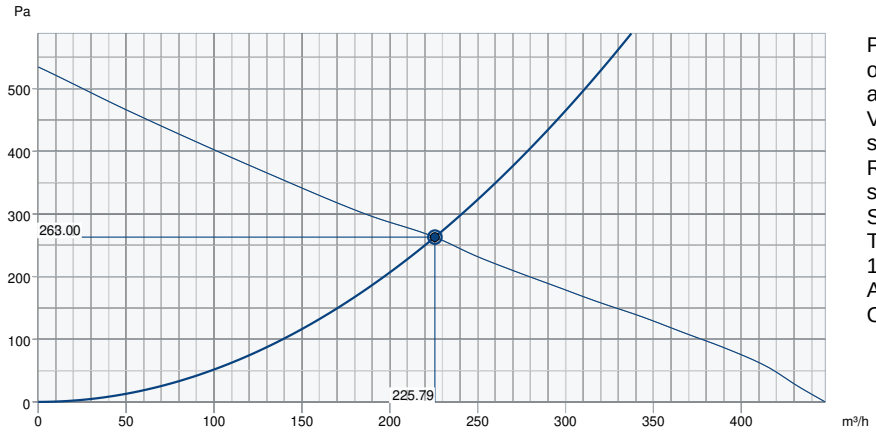
Data according to ErP	
Energy class, Basic unit	E
Energy class, Local demand	B
ErP ready	ErP 2018; ErP 2016

Dimensions and weights		
Duct dimension; Circular, inlet	160	mm
Weight	4.5	kg

Others	
Duct connection type	Circular
Color name, casing	Black
Motor type	AC

Performance

Performance curve



Performance certified is for installation type C – Ducted inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories).
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AMCA certified data is, Airflow, Static pressure, Power, Inlet sound, Outlet sound at 230V

Hydraulic data	
Required air flow	226 m³/h
Required static pressure	263 Pa
Working air flow	226 m³/h
Working static pressure	263 Pa
Air density	1.204 kg/m³
Power	62.5 W
Fan control - RPM	2,598 rpm
Current	0.27 A
SFP	0.997 kW/m³/s
Control voltage	230.0 V
Supply voltage	230 V

Sound power level		**63**	**125**	**250**	**500**	**1k**	**2k**	**4k**	**8k**	**Total**
Inlet	dB(A)	50	52	59	61	61	59	55	50	67
Outlet	dB(A)	50	51	62	61	62	62	59	55	69

Certifications

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NOTE!
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TFS Roof Fans

A compact, quiet and reliable exhaust fan for domestic and commercial areas

- Compact extract air fan, ideal for storage areas, offices, residential houses etc.
- Durable and easy maintanance
- Available with AC and EC motors for 50 and 60Hz
- Low noise level

Find more details in our online catalogue

Applicability

The TFS fans are designed as very compact solution to fit roof exhaust extensions and provide a **quick** and straightforward **installation**. Fans are available in black, grey and brick red color and can be used in a variety of **commercial** and **domestic** applications, e.g. single and multiple **dwellings**, **offices, storages** and day **nurseries**.

Highly Durable

The fan is housed in a galvanized steel powder-coated casing to provide required protection for demanding outdoor use. The combination of high-reliable **motor** and **long-life** ball bearings, allows long **continuous operation** of the fan.

Easy Maintenance

TFS fans deploy a '**swing out**' design and have integrated on/off **service switch** on top of the casing to allow **quick access** for inspection and servicing.

Quiet solution

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Certifications

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Features

Construction

Casing made of **galvanised sheet steel** and for additional protection **powder coated** to grey, black and brick red colour. The casing of **TFS** includes a '**swing out**' cover with integrated service switch to simplify maintenance. To simplify the wiring process on site, the fans are also equipped with an external terminal box (**IP66**) with a 1 m long cable.

Impeller

TFS use backward curved **radial** impellers. These are made from lightweight, hard-wearing fiberglass reinforced **polyamide**, dynamically **balanced** and paired with corresponding external rotor motors.

Motor

Depending on type, **TFS** fans are equipped with **AC** or high efficient **EC** external rotor motors. All motors are suitable for **50Hz** and **60Hz**.

Motor protection

Fans with **AC** motors have **integrated** thermal protection with manual (electrical) reset.
Fans with **EC** motors have **integrated** electronic **thermal protection** including **locked-rotor protection** and **soft-start**.

Control

Fans with **EC motor** with **built-in potentiometer** to adjust working point can be also controlled by external **signal 0-10V.**
Fans with **AC motor** can be controlled by **5-step** or **stepless** speed regulator (accessory).
For **demand controlled** ventilation it can be combined with timer, thermostat, hygrostat, etc.

Mounting

The TFS must be installed on the roof in **horizontal or inclined** position. We recommend to install the fan together with a **roof curb** (available as an accessory).
TFSR delivered with **spigot** for the cases of direct connection to the circular duct. For cold climates we recommend continuous operation of the fan.

Technical parameters

Nominal data		
Voltage (nominal)	230	V
Frequency	50	Hz
Phases	1~	
Input power	101	W
Input power kW	0.101	kW
Input current	0.435	A
Impeller speed	2,501	rpm
Air flow	max 756	m³/h
Capacitance of capacitor	3	µF
Temperature of transported air	max 70	°C
Max temperature of transported air, when speed controlled	70	°C

Sound data		
Sound pressure level at 10m (free field)	41	dB(A)
Sound pressure level at 3m (free field)	51	dB(A)
Sound pressure level at 4m (free field)	49	dB(A)

Protection/Classification		
Enclosure class, motor	IP44	
Insulation class	B	

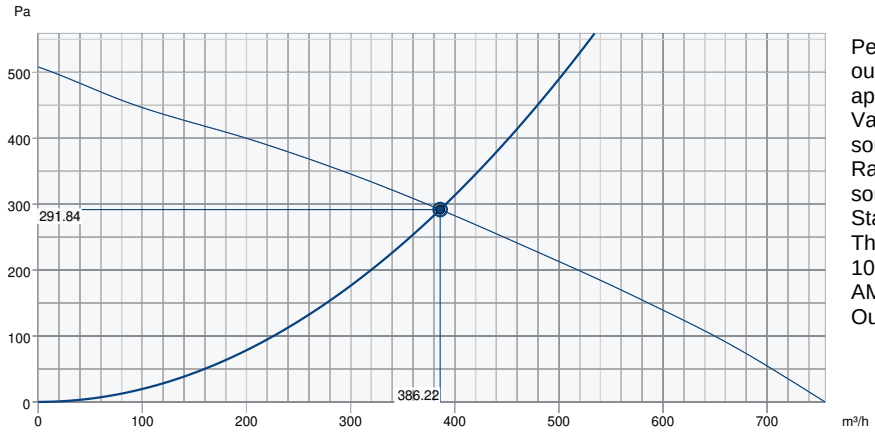
Data according to ErP		
Energy class, Basic unit	E	
Energy class, Local demand	B	
ErP ready	ErP 2016; ErP 2018	

Dimensions and weights		
Duct dimension; Circular, inlet	200	mm
Weight	6.4	kg

Others		
Duct connection type	Circular	
Color name, casing	Black	
Motor type	AC	

Performance

Performance curve



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AMCA certified data is, Airflow, Static pressure, Power, Inlet sound, Outlet sound at 230V

Hydraulic data	
Required air flow	386 m³/h
Required static pressure	292 Pa
Working air flow	386 m³/h
Working static pressure	292 Pa
Air density	1.204 kg/m³
Power	98.9 W
Fan control - RPM	2,529 rpm
Current	0.42 A
SFP	0.922 kW/m³/s
Control voltage	230.0 V
Supply voltage	230 V

Sound power level		**63**	**125**	**250**	**500**	**1k**	**2k**	**4k**	**8k**	**Total**
Inlet	dB(A)	52	57	65	62	64	60	60	53	70
Outlet	dB(A)	52	55	67	64	66	65	63	56	72

Certifications

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NOTE!
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TFS Roof Fans

A compact, quiet and reliable exhaust fan for domestic and commercial areas

- Compact extract air fan, ideal for storage areas, offices, residential houses etc.
- Durable and easy maintanance
- Available with AC and EC motors for 50 and 60Hz
- Low noise level

Find more details in our online catalogue

Applicability

The TFS fans are designed as very compact solution to fit roof exhaust extensions and provide a **quick** and straightforward **installation**. Fans are available in black, grey and brick red color and can be used in a variety of **commercial** and **domestic** applications, e.g. single and multiple **dwellings**, **offices, storages** and day **nurseries**.

Highly Durable

The fan is housed in a galvanized steel powder-coated casing to provide required protection for demanding outdoor use. The combination of high-reliable **motor** and **long-life** ball bearings, allows long **continuous operation** of the fan.

Easy Maintenance

TFS fans deploy a '**swing out**' design and have integrated on/off **service switch** on top of the casing to allow **quick access** for inspection and servicing.

Quiet solution

Noise optimized impeller makes the TFS fans a very quite solution. Further sound decrease obtained by using sound and thermal insulated **roof curb** (recommended accessory).

Certifications

Ecodesign (ErP) compliant

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Features

Construction

Casing made of **galvanised sheet steel** and for additional protection **powder coated** to grey, black and brick red colour. The casing of **TFS** includes a '**swing out**' cover with integrated service switch to simplify maintenance. To simplify the wiring process on site, the fans are also equipped with an external terminal box (**IP66**) with a 1 m long cable.

Impeller

TFS use backward curved **radial** impellers. These are made from lightweight, hard-wearing fiberglass reinforced **polyamide**, dynamically **balanced** and paired with corresponding external rotor motors.

Motor

Depending on type, **TFS** fans are equipped with **AC** or high efficient **EC** external rotor motors. All motors are suitable for **50Hz** and **60Hz**.

Motor protection

Fans with **AC** motors have **integrated** thermal protection with manual (electrical) reset.
Fans with **EC** motors have **integrated** electronic **thermal protection** including **locked-rotor protection** and **soft-start**.

Control

Fans with **EC motor** with **built-in potentiometer** to adjust working point can be also controlled by external **signal 0-10V.**
Fans with **AC motor** can be controlled by **5-step** or **stepless** speed regulator (accessory).
For **demand controlled** ventilation it can be combined with timer, thermostat, hygrostat, etc.

Mounting

The TFS must be installed on the roof in **horizontal or inclined** position. We recommend to install the fan together with a **roof curb** (available as an accessory).
TFSR delivered with **spigot** for the cases of direct connection to the circular duct. For cold climates we recommend continuous operation of the fan.

Technical parameters

Nominal data		
Voltage (nominal)	230	V
Frequency	60	Hz
Phases	1~	
Input power	136	W
Input power kW	0.136	kW
Input current	0.574	A
Impeller speed	2,680	rpm
Air flow	max 826	m³/h
Capacitance of capacitor	3	µF
Temperature of transported air	max 70	°C
Max temperature of transported air, when speed controlled	70	°C

Sound data		
Sound pressure level at 10m (free field)	43	dB(A)
Sound pressure level at 3m (free field)	53	dB(A)
Sound pressure level at 4m (free field)	51	dB(A)

Protection/Classification		
Enclosure class, motor	IP44	
Insulation class	B	

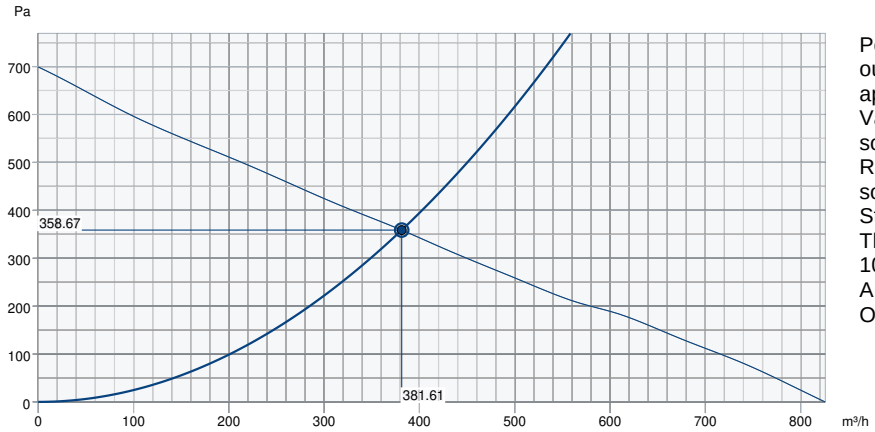
Data according to ErP		
Energy class, Basic unit	E	
Energy class, Local demand	C	
ErP ready	ErP 2016; ErP 2018	

Dimensions and weights		
Duct dimension; Circular, inlet	200	mm
Weight	6.4	kg

Others		
Duct connection type	Circular	
Color name, casing	Black	
Motor type	AC	

Performance

Performance curve



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Hydraulic data	
Required air flow	382 m³/h
Required static pressure	359 Pa
Working air flow	382 m³/h
Working static pressure	359 Pa
Air density	1.204 kg/m³
Power	131.1 W
Fan control - RPM	2,717 rpm
Current	0.56 A
SFP	1.237 kW/m³/s
Control voltage	230.0 V
Supply voltage	230 V

Sound power level		**63**	**125**	**250**	**500**	**1k**	**2k**	**4k**	**8k**	**Total**
Inlet	dB(A)	59	60	67	63	66	62	62	54	72
Outlet	dB(A)	55	60	68	67	68	67	64	58	74

Certifications

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Control

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Mounting

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TFSR delivered with **spigot** for the cases of direct connection to the circular duct. For cold climates we recommend continuous operation of the fan.

Technical parameters

Nominal data		
Voltage (nominal)	230	V
Frequency	50	Hz
Phases	1~	
Input power	202	W
Input power kW	0.202	kW
Input current	0.872	A
Impeller speed	2,472	rpm
Air flow	max 1,174	m³/h
Capacitance of capacitor	5	µF
Temperature of transported air	max 70	°C
Max temperature of transported air, when speed controlled	70	°C

Sound data		
Sound pressure level at 10m (free field)	43	dB(A)
Sound pressure level at 3m (free field)	53	dB(A)
Sound pressure level at 4m (free field)	51	dB(A)

Protection/Classification		
Enclosure class, motor	IP44	
Insulation class	F	

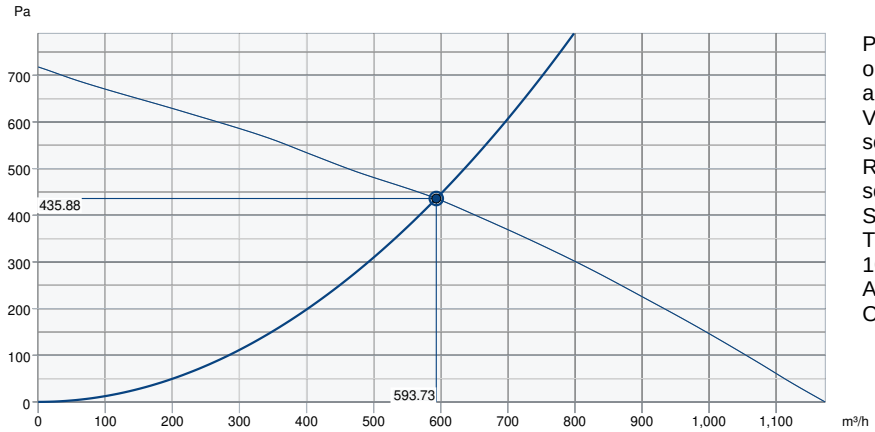
Data according to ErP		
ErP ready	Not ErP relevant	

Dimensions and weights		
Duct dimension; Circular, inlet	315	mm
Weight	9.7	kg

Others		
Duct connection type	Circular	
Color name, casing	Black	
Motor type	AC	

Performance

Performance curve



Performance certified is for installation type C – Ducted inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories).
Values shown are for inlet Lwi and LwiA and oulet Lwo and LwoA sound power levels for installation type C: ducted inlet, free outlet. Ratings include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.
The sound power level ratings shown are in decibels, referred to 10^{-12} watts, calculated per AMCA International Standard 301.
AMCA certified data is, Airflow, Static pressure, Power, Inlet sound, Outlet sound at 230V

Hydraulic data	
Required air flow	594 m³/h
Required static pressure	436 Pa
Working air flow	594 m³/h
Working static pressure	436 Pa
Air density	1.204 kg/m³
Power	194.0 W
Fan control - RPM	2,511 rpm
Current	0.84 A
SFP	1.176 kW/m³/s
Control voltage	230.0 V
Supply voltage	230 V

Sound power level		**63**	**125**	**250**	**500**	**1k**	**2k**	**4k**	**8k**	**Total**
Inlet	dB(A)	55	59	65	64	63	62	57	52	71
Outlet	dB(A)	60	60	69	68	68	67	58	56	74

Certifications

AMCA Worldwide Certified Ratings: Sound and Air Performance

Systemair certifies that the model TFSK 315 M** - KSA 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.

Check the AMCA Certified and Listed Product Search for our products
https://www.amca.org/certify/#certified-product-search

TFS Roof Fans

A compact, quiet and reliable exhaust fan for domestic and commercial areas

- Compact extract air fan, ideal for storage areas, offices, residential houses etc.
- Durable and easy maintanance
- Available with AC and EC motors for 50 and 60Hz
- Low noise level

Find more details in our online catalogue

Applicability

The TFS fans are designed as very compact solution to fit roof exhaust extensions and provide a **quick** and straightforward **installation**. Fans are available in black, grey and brick red color and can be used in a variety of **commercial** and **domestic** applications, e.g. single and multiple **dwellings**, **offices, storages** and day **nurseries**.

Highly Durable

The fan is housed in a galvanized steel powder-coated casing to provide required protection for demanding outdoor use. The combination of high-reliable **motor** and **long-life** ball bearings, allows long **continuous operation** of the fan.

Easy Maintenance

TFS fans deploy a '**swing out**' design and have integrated on/off **service switch** on top of the casing to allow **quick access** for inspection and servicing.

Quiet solution

Noise optimized impeller makes the TFS fans a very quite solution. Further sound decrease obtained by using sound and thermal insulated **roof curb** (recommended accessory).

Certifications

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Features

Construction

Casing made of **galvanised sheet steel** and for additional protection **powder coated** to grey, black and brick red colour. The casing of **TFS** includes a '**swing out**' cover with integrated service switch to simplify maintenance. To simplify the wiring process on site, the fans are also equipped with an external terminal box (**IP66**) with a 1 m long cable.

Impeller

TFS use backward curved **radial** impellers. These are made from lightweight, hard-wearing fiberglass reinforced **polyamide**, dynamically **balanced** and paired with corresponding external rotor motors.

Motor

Depending on type, **TFS** fans are equipped with **AC** or high efficient **EC** external rotor motors. All motors are suitable for **50Hz** and **60Hz**.

Motor protection

Fans with **AC** motors have **integrated** thermal protection with manual (electrical) reset.
Fans with **EC** motors have **integrated** electronic **thermal protection** including **locked-rotor protection** and **soft-start**.

Control

Fans with **EC motor** with **built-in potentiometer** to adjust working point can be also controlled by external **signal 0-10V.**
Fans with **AC motor** can be controlled by **5-step** or **stepless** speed regulator (accessory).
For **demand controlled** ventilation it can be combined with timer, thermostat, hygrostat, etc.

Mounting

The TFS must be installed on the roof in **horizontal or inclined** position. We recommend to install the fan together with a **roof curb** (available as an accessory).
TFSR delivered with **spigot** for the cases of direct connection to the circular duct. For cold climates we recommend continuous operation of the fan.

Technical parameters

Nominal data		
Voltage (nominal)	230	V
Frequency	60	Hz
Phases	1~	
Input power	270	W
Input power kW	0.27	kW
Input current	1.158	A
Impeller speed	2,505	rpm
Air flow	max 1,246	m³/h
Capacitance of capacitor	5	µF
Temperature of transported air	max 70	°C
Max temperature of transported air, when speed controlled	60	°C

Sound data		
Sound pressure level at 10m (free field)	45	dB(A)
Sound pressure level at 3m (free field)	55	dB(A)
Sound pressure level at 4m (free field)	53	dB(A)

Protection/Classification		
Enclosure class, motor	IP44	
Insulation class	F	

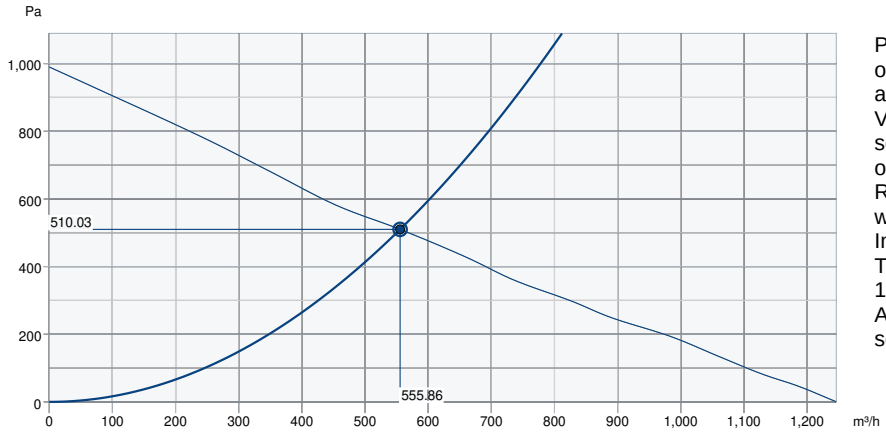
Data according to ErP		
ErP ready	Not ErP relevant	

Dimensions and weights		
Duct dimension; Circular, inlet	315	mm
Weight	9.7	kg

Others		
Duct connection type	Circular	
Color name, casing	Black	
Motor type	AC	

Performance

Performance curve



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AMCA certified data is, Airflow, Static pressure, Power, Inlet sound, Outlet sound at 230V

Hydraulic data	
Required air flow	556 m³/h
Required static pressure	510 Pa
Working air flow	556 m³/h
Working static pressure	510 Pa
Air density	1.204 kg/m³
Power	257.5 W
Fan control - RPM	2,627 rpm
Current	1.10 A
SFP	1.668 kW/m³/s
Control voltage	230.0 V
Supply voltage	230 V

Sound power level		**63**	**125**	**250**	**500**	**1k**	**2k**	**4k**	**8k**	**Total**
Inlet	dB(A)	59	61	67	65	64	63	57	53	72
Outlet	dB(A)	62	62	70	69	69	69	59	56	76

Certifications

AMCA Worldwide Certified Ratings: Sound and Air Performance

Systemair certifies that the model TFSK 315 M** - KSA 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.
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TFS Roof Fans

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- Compact extract air fan, ideal for storage areas, offices, residential houses etc.
- Durable and easy maintanance
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- Low noise level

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Applicability

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Highly Durable

The fan is housed in a galvanized steel powder-coated casing to provide required protection for demanding outdoor use. The combination of high-reliable **motor** and **long-life** ball bearings, allows long **continuous operation** of the fan.

Easy Maintenance

TFS fans deploy a '**swing out**' design and have integrated on/off **service switch** on top of the casing to allow **quick access** for inspection and servicing.

Quiet solution

Noise optimized impeller makes the TFS fans a very quite solution. Further sound decrease obtained by using sound and thermal insulated **roof curb** (recommended accessory).

Certifications

Ecodesign (ErP) compliant

Compliant with today's and tomorrow's European Union rules and requirements for energy labelling and ecodesign for Energy-related Products (ErP).

AMCA Worldwide Certified Ratings: Sound and Air Performance

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https://www.amca.org/certify/#certified-product-search

Features

Construction

Casing made of **galvanised sheet steel** and for additional protection **powder coated** to grey, black and brick red colour. The casing of **TFS** includes a '**swing out**' cover with integrated service switch to simplify maintenance. To simplify the wiring process on site, the fans are also equipped with an external terminal box (**IP66**) with a 1 m long cable.

Impeller

TFS use backward curved **radial** impellers. These are made from lightweight, hard-wearing fiberglass reinforced **polyamide**, dynamically **balanced** and paired with corresponding external rotor motors.

Motor

Depending on type, **TFS** fans are equipped with **AC** or high efficient **EC** external rotor motors. All motors are suitable for **50Hz** and **60Hz**.

Motor protection

Fans with **AC** motors have **integrated** thermal protection with manual (electrical) reset.
Fans with **EC** motors have **integrated** electronic **thermal protection** including **locked-rotor protection** and **soft-start**.

Control

Fans with **EC motor** with **built-in potentiometer** to adjust working point can be also controlled by external **signal 0-10V.**
Fans with **AC motor** can be controlled by **5-step** or **stepless** speed regulator (accessory).
For **demand controlled** ventilation it can be combined with timer, thermostat, hygrostat, etc.

Mounting

The TFS must be installed on the roof in **horizontal or inclined** position. We recommend to install the fan together with a **roof curb** (available as an accessory).
TFSR delivered with **spigot** for the cases of direct connection to the circular duct. For cold climates we recommend continuous operation of the fan.

Technical parameters

Nominal data		
Voltage (nominal)	230	V
Frequency	50	Hz
Phases	1~	
Input power	218	W
Input power kW	0.218	kW
Input current	0.934	A
Impeller speed	2,660	rpm
Air flow	max 1,236	m³/h
Capacitance of capacitor	5	µF
Temperature of transported air	max 70	°C
Max temperature of transported air, when speed controlled	70	°C

Sound data		
Sound pressure level at 10m (free field)	45	dB(A)
Sound pressure level at 3m (free field)	55	dB(A)
Sound pressure level at 4m (free field)	53	dB(A)

Protection/Classification		
Enclosure class, motor	IP44	
Insulation class	F	

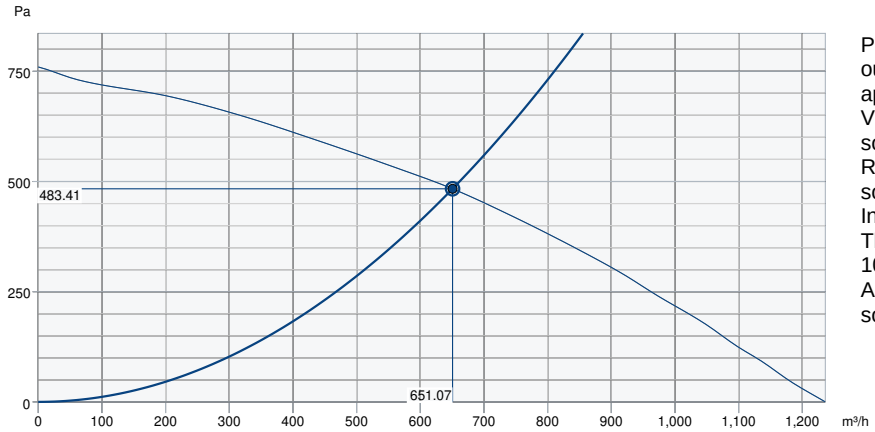
Data according to ErP		
ErP ready	ErP 2018; ErP 2016	

Dimensions and weights		
Duct dimension; Circular, inlet	315	mm
Weight	10.8	kg

Others		
Duct connection type	Circular	
Color name, casing	Grey	
Motor type	AC	

Performance

Performance curve



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Values shown are for inlet Lwi and LwiA and oulet Lwo and LwoA sound power levels for installation type C: ducted inlet, free outlet. Ratings include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.
The sound power level ratings shown are in decibels, referred to 10^{-12} watts, calculated per AMCA International Standard 301.
AMCA certified data is, Airflow, Static pressure, Power, Inlet sound, Outlet sound at 230V

Hydraulic data	
Required air flow	651 m³/h
Required static pressure	483 Pa
Working air flow	651 m³/h
Working static pressure	483 Pa
Air density	1.204 kg/m³
Power	210.3 W
Fan control - RPM	2,680 rpm
Current	0.90 A
SFP	1.163 kW/m³/s
Control voltage	230.0 V
Supply voltage	230 V

Sound power level		**63**	**125**	**250**	**500**	**1k**	**2k**	**4k**	**8k**	**Total**
Inlet	dB(A)	58	58	67	65	64	63	57	51	72
Outlet	dB(A)	60	57	71	69	69	68	58	54	76

Certifications

AMCA Worldwide Certified Ratings: Sound and Air Performance

Systemair certifies that the model TFSK 315 Sileo Grey - KSA 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.
Check the AMCA Certified and Listed Product Search for our products
https://www.amca.org/certify/#certified-product-search

NOTE!

This product card is also used for TFSK 315 Sileo Black - KSA& TFSK 315 Sileo Red - KSA.

TFS Roof Fans

A compact, quiet and reliable exhaust fan for domestic and commercial areas

- Compact extract air fan, ideal for storage areas, offices, residential houses etc.
- Durable and easy maintanance
- Available with AC and EC motors for 50 and 60Hz
- Low noise level

Find more details in our online catalogue

Applicability

The TFS fans are designed as very compact solution to fit roof exhaust extensions and provide a **quick** and straightforward **installation**. Fans are available in black, grey and brick red color and can be used in a variety of **commercial** and **domestic** applications, e.g. single and multiple **dwellings**, **offices, storages** and day **nurseries**.

Highly Durable

The fan is housed in a galvanized steel powder-coated casing to provide required protection for demanding outdoor use. The combination of high-reliable **motor** and **long-life** ball bearings, allows long **continuous operation** of the fan.

Easy Maintenance

TFS fans deploy a '**swing out**' design and have integrated on/off **service switch** on top of the casing to allow **quick access** for inspection and servicing.

Quiet solution

Noise optimized impeller makes the TFS fans a very quite solution. Further sound decrease obtained by using sound and thermal insulated **roof curb** (recommended accessory).

Certifications

AMCA Worldwide Certified Ratings: Sound and Air Performance

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Features

Construction

Casing made of **galvanised sheet steel** and for additional protection **powder coated** to grey, black and brick red colour. The casing of **TFS** includes a '**swing out**' cover with integrated service switch to simplify maintenance. To simplify the wiring process on site, the fans are also equipped with an external terminal box (**IP66**) with a 1 m long cable.

Impeller

TFS use backward curved **radial** impellers. These are made from lightweight, hard-wearing fiberglass reinforced **polyamide**, dynamically **balanced** and paired with corresponding external rotor motors.

Motor

Depending on type, **TFS** fans are equipped with **AC** or high efficient **EC** external rotor motors. All motors are suitable for **50Hz** and **60Hz**.

Motor protection

Fans with **AC** motors have **integrated** thermal protection with manual (electrical) reset.
Fans with **EC** motors have **integrated** electronic **thermal protection** including **locked-rotor protection** and **soft-start**.

Control

Fans with **EC motor** with **built-in potentiometer** to adjust working point can be also controlled by external **signal 0-10V.**
Fans with **AC motor** can be controlled by **5-step** or **stepless** speed regulator (accessory).
For **demand controlled** ventilation it can be combined with timer, thermostat, hygrostat, etc.

Mounting

The TFS must be installed on the roof in **horizontal or inclined** position. We recommend to install the fan together with a **roof curb** (available as an accessory).
TFSR delivered with **spigot** for the cases of direct connection to the circular duct. For cold climates we recommend continuous operation of the fan.

Technical parameters

Nominal data		
Voltage (nominal)	230	V
Frequency	50	Hz
Phases	1~	
Input power	337	W
Input power kW	0.337	kW
Input current	1.417	A
Impeller speed	2,440	rpm
Air flow	max 1,617	m³/h
Capacitance of capacitor	8	µF
Temperature of transported air	max 40	°C
Max temperature of transported air, when speed controlled	35	°C

Sound data		
Sound pressure level at 10m (free field)	49	dB(A)
Sound pressure level at 3m (20m² Sabin)	77	dB(A)
Sound pressure level at 3m (free field)	59	dB(A)
Sound pressure level at 4m (free field)	57	dB(A)

Protection/Classification		
Enclosure class, motor	IP44	
Insulation class	F	

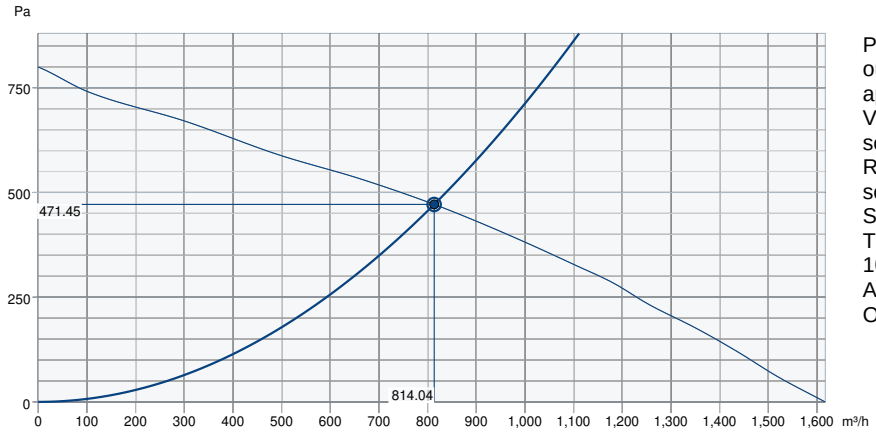
Data according to ErP		
ErP ready	Not ErP relevant	

Dimensions and weights		
Duct dimension; Circular, inlet	315	mm
Weight	10.7	kg

Others		
Duct connection type	Circular	
Color name, casing	Black	
Motor type	AC	

Performance

Performance curve



Performance certified is for installation type C – Ducted inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories).
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AMCA certified data is, Airflow, Static pressure, Power, Inlet sound, Outlet sound at 230V

Hydraulic data	
Required air flow	814 m³/h
Required static pressure	471 Pa
Working air flow	814 m³/h
Working static pressure	471 Pa
Air density	1.204 kg/m³
Power	323.9 W
Fan control - RPM	2,470 rpm
Current	1.37 A
SFP	1.433 kW/m³/s
Control voltage	230.0 V
Supply voltage	230 V

Sound power level		**63**	**125**	**250**	**500**	**1k**	**2k**	**4k**	**8k**	**Total**
Inlet	dB(A)	58	64	70	69	66	65	61	53	75
Outlet	dB(A)	63	64	75	74	74	72	64	57	80

Certifications

AMCA Worldwide Certified Ratings: Sound and Air Performance

Systemair certifies that the model TFSK 315L** - KSA is licensed to bear the AMCA

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A compact, quiet and reliable exhaust fan for domestic and commercial areas

- Compact extract air fan, ideal for storage areas, offices, residential houses etc.
- Durable and easy maintanance
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- Low noise level

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Highly Durable

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Easy Maintenance

TFS fans deploy a '**swing out**' design and have integrated on/off **service switch** on top of the casing to allow **quick access** for inspection and servicing.

Quiet solution

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Certifications

Ecodesign (ErP) compliant

Compliant with today's and tomorrow's European Union rules and requirements for energy labelling and ecodesign for Energy-related Products (ErP).

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Features

Construction

Casing made of **galvanised sheet steel** and for additional protection **powder coated** to grey, black and brick red colour. The casing of **TFS** includes a '**swing out**' cover with integrated service switch to simplify maintenance. To simplify the wiring process on site, the fans are also equipped with an external terminal box (**IP66**) with a 1 m long cable.

Impeller

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Control

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Mounting

The TFS must be installed on the roof in **horizontal or inclined** position. We recommend to install the fan together with a **roof curb** (available as an accessory).
TFSR delivered with **spigot** for the cases of direct connection to the circular duct. For cold climates we recommend continuous operation of the fan.

Technical parameters

Nominal data		
Voltage (nominal)	230	V
Frequency	50	Hz
Phases	1~	
Input power	25	W
Input power kW	0.025	kW
Input current	0.133	A
Impeller speed	1,799	rpm
Air flow	max 297	m³/h
Capacitance of capacitor	1.5	µF
Temperature of transported air	max 70	°C
Max temperature of transported air, when speed controlled	70	°C

Sound data		
Sound pressure level at 10m (free field)	33	dB(A)
Sound pressure level at 3m (free field)	43	dB(A)
Sound pressure level at 4m (free field)	41	dB(A)

Protection/Classification		
Enclosure class, motor	IP44	
Insulation class	B	

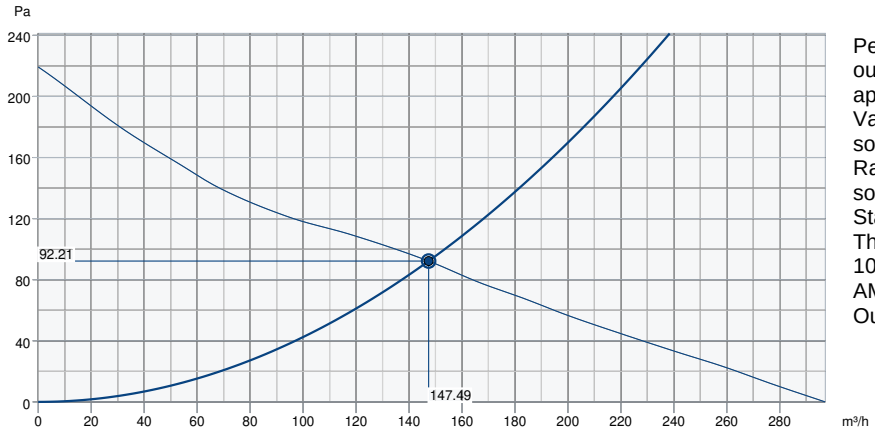
Data according to ErP		
Energy class, Basic unit	E	
Energy class, Local demand	B	
ErP ready	ErP 2016; ErP 2018	

Dimensions and weights		
Duct dimension; Circular, inlet	125	mm
Weight	2.9	kg

Others		
Duct connection type	Circular	
Color name, casing	Black	
Motor type	AC	

Performance

Performance curve



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AMCA certified data is, Airflow, Static pressure, Power, Inlet sound, Outlet sound at 230V

Hydraulic data	
Required air flow	147 m³/h
Required static pressure	92 Pa
Working air flow	147 m³/h
Working static pressure	92 Pa
Air density	1.204 kg/m³
Power	24.9 W
Fan control - RPM	1,845 rpm
Current	0.13 A
SFP	0.608 kW/m³/s
Control voltage	230.0 V
Supply voltage	230 V

Sound power level		**63**	**125**	**250**	**500**	**1k**	**2k**	**4k**	**8k**	**Total**
Inlet	dB(A)	53	49	61	53	53	49	36	23	63
Outlet	dB(A)	53	49	62	55	52	48	42	24	64

Certifications

AMCA Worldwide Certified Ratings: Sound and Air Performance

Systemair certifies that the model TFSR 125 M - KSA 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 re quirements of the AMCA Certified Ratings Program.
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NOTE!

This product card is also used for TFSR 125 M Grey - KSA & TFSR 125 M Red - KSA.

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Applicability

The TFS fans are designed as very compact solution to fit roof exhaust extensions and provide a **quick** and straightforward **installation**. Fans are available in black, grey and brick red color and can be used in a variety of **commercial** and **domestic** applications, e.g. single and multiple **dwellings**, **offices, storages** and day **nurseries**.

Highly Durable

The fan is housed in a galvanized steel powder-coated casing to provide required protection for demanding outdoor use. The combination of high-reliable **motor** and **long-life** ball bearings, allows long **continuous operation** of the fan.

Easy Maintenance

TFS fans deploy a '**swing out**' design and have integrated on/off **service switch** on top of the casing to allow **quick access** for inspection and servicing.

Quiet solution

Noise optimized impeller makes the TFS fans a very quite solution. Further sound decrease obtained by using sound and thermal insulated **roof curb** (recommended accessory).

Certifications

Ecodesign (ErP) compliant

Compliant with today's and tomorrow's European Union rules and requirements for energy labelling and ecodesign for Energy-related Products (ErP).

AMCA Worldwide Certified Ratings: Sound and Air Performance

Systemair certifies that the model 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
Check the AMCA Certified and Listed Product Search for our products
https://www.amca.org/certify/#certified-product-search

Features

Construction

Casing made of **galvanised sheet steel** and for additional protection **powder coated** to grey, black and brick red colour. The casing of **TFS** includes a '**swing out**' cover with integrated service switch to simplify maintenance. To simplify the wiring process on site, the fans are also equipped with an external terminal box (**IP66**) with a 1 m long cable.

Impeller

TFS use backward curved **radial** impellers. These are made from lightweight, hard-wearing fiberglass reinforced **polyamide**, dynamically **balanced** and paired with corresponding external rotor motors.

Motor

Depending on type, **TFS** fans are equipped with **AC** or high efficient **EC** external rotor motors. All motors are suitable for **50Hz** and **60Hz**.

Motor protection

Fans with **AC** motors have **integrated** thermal protection with manual (electrical) reset.
Fans with **EC** motors have **integrated** electronic **thermal protection** including **locked-rotor protection** and **soft-start**.

Control

Fans with **EC motor** with **built-in potentiometer** to adjust working point can be also controlled by external **signal 0-10V.**
Fans with **AC motor** can be controlled by **5-step** or **stepless** speed regulator (accessory).
For **demand controlled** ventilation it can be combined with timer, thermostat, hygrostat, etc.

Mounting

The TFS must be installed on the roof in **horizontal or inclined** position. We recommend to install the fan together with a **roof curb** (available as an accessory).
TFSR delivered with **spigot** for the cases of direct connection to the circular duct. For cold climates we recommend continuous operation of the fan.

Technical parameters

Nominal data		
Voltage (nominal)	230	V
Frequency	60	Hz
Phases	1~	
Input power	31	W
Input power kW	0.031	kW
Input current	0.161	A
Impeller speed	1,898	rpm
Air flow	max 289	m³/h
Capacitance of capacitor	1.5	µF
Temperature of transported air	max 66	°C
Max temperature of transported air, when speed controlled	66	°C

Sound data		
Sound pressure level at 10m (free field)	31	dB(A)
Sound pressure level at 3m (free field)	41	dB(A)
Sound pressure level at 4m (free field)	39	dB(A)

Protection/Classification		
Enclosure class, motor	IP44	
Insulation class	B	

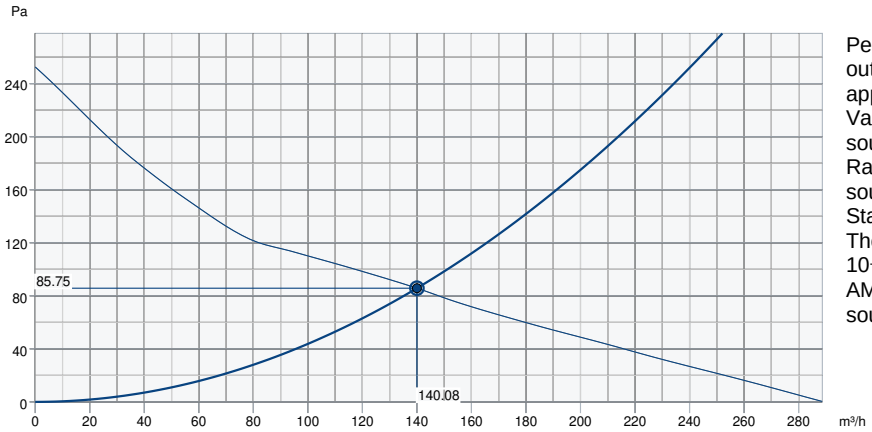
Data according to ErP		
Energy class, Basic unit	E	
Energy class, Local demand	C	
ErP ready	ErP 2016; ErP 2018	

Dimensions and weights		
Duct dimension; Circular, inlet	125	mm
Weight	2.9	kg

Others		
Duct connection type	Circular	
Color name, casing	Black	
Motor type	AC	

Performance

Performance curve



Performance certified is for installation type C – Ducted inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories).
Values shown are for inlet Lwi and LwiA and oulet Lwo and LwoA sound power levels for installation type C: ducted inlet, free outlet. Ratings include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.
The sound power level ratings shown are in decibels, referred to 10^{-12} watts, calculated per AMCA International Standard 301.
AMCA certified data is, Airflow, Static pressure, Power, Inlet sound, Outlet sound at 230V

Hydraulic data	
Required air flow	140 m³/h
Required static pressure	86 Pa
Working air flow	140 m³/h
Working static pressure	86 Pa
Air density	1.204 kg/m³
Power	31.6 W
Fan control - RPM	1,772 rpm
Current	0.16 A
SFP	0.811 kW/m³/s
Control voltage	230.0 V
Supply voltage	230 V

Sound power level		**63**	**125**	**250**	**500**	**1k**	**2k**	**4k**	**8k**	**Total**
Inlet	dB(A)	50	48	59	52	52	47	34	23	61
Outlet	dB(A)	53	46	60	53	51	46	40	24	62

Certifications

AMCA Worldwide Certified Ratings: Sound and Air Performance

Systemair certifies that the model TFSR 125 M - KSA 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.
Check the AMCA Certified and Listed Product Search for our products
https://www.amca.org/certify/#certified-product-search

NOTE!

This product card is also used for TFSR 125 M Grey - KSA & TFSR 125 M Red - KSA.

TFS Roof Fans

A compact, quiet and reliable exhaust fan for domestic and commercial areas

- Compact extract air fan, ideal for storage areas, offices, residential houses etc.
- Durable and easy maintanance
- Available with AC and EC motors for 50 and 60Hz
- Low noise level

Find more details in our online catalogue

Applicability

The TFS fans are designed as very compact solution to fit roof exhaust extensions and provide a **quick** and straightforward **installation**. Fans are available in black, grey and brick red color and can be used in a variety of **commercial** and **domestic** applications, e.g. single and multiple **dwellings**, **offices, storages** and day **nurseries**.

Highly Durable

The fan is housed in a galvanized steel powder-coated casing to provide required protection for demanding outdoor use. The combination of high-reliable **motor** and **long-life** ball bearings, allows long **continuous operation** of the fan.

Easy Maintenance

TFS fans deploy a '**swing out**' design and have integrated on/off **service switch** on top of the casing to allow **quick access** for inspection and servicing.

Quiet solution

Noise optimized impeller makes the TFS fans a very quite solution. Further sound decrease obtained by using sound and thermal insulated **roof curb** (recommended accessory).

Certifications

Ecodesign (ErP) compliant

Compliant with today's and tomorrow's European Union rules and requirements for energy labelling and ecodesign for Energy-related Products (ErP).

AMCA Worldwide Certified Ratings: Sound and Air Performance

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Check the AMCA Certified and Listed Product Search for our products
https://www.amca.org/certify/#certified-product-search

Features

Construction

Casing made of **galvanised sheet steel** and for additional protection **powder coated** to grey, black and brick red colour. The casing of **TFS** includes a '**swing out**' cover with integrated service switch to simplify maintenance. To simplify the wiring process on site, the fans are also equipped with an external terminal box (**IP66**) with a 1 m long cable.

Impeller

TFS use backward curved **radial** impellers. These are made from lightweight, hard-wearing fiberglass reinforced **polyamide**, dynamically **balanced** and paired with corresponding external rotor motors.

Motor

Depending on type, **TFS** fans are equipped with **AC** or high efficient **EC** external rotor motors. All motors are suitable for **50Hz** and **60Hz**.

Motor protection

Fans with **AC** motors have **integrated** thermal protection with manual (electrical) reset.
Fans with **EC** motors have **integrated** electronic **thermal protection** including **locked-rotor protection** and **soft-start**.

Control

Fans with **EC motor** with **built-in potentiometer** to adjust working point can be also controlled by external **signal 0-10V.**
Fans with **AC motor** can be controlled by **5-step** or **stepless** speed regulator (accessory).
For **demand controlled** ventilation it can be combined with timer, thermostat, hygrostat, etc.

Mounting

The TFS must be installed on the roof in **horizontal or inclined** position. We recommend to install the fan together with a **roof curb** (available as an accessory).
TFSR delivered with **spigot** for the cases of direct connection to the circular duct. For cold climates we recommend continuous operation of the fan.

Technical parameters

Nominal data		
Voltage (nominal)	230	V
Frequency	50	Hz
Phases	1~	
Input power	57	W
Input power kW	0.057	kW
Input current	0.276	A
Impeller speed	2,501	rpm
Air flow	max 349	m³/h
Capacitance of capacitor	1.5	µF
Temperature of transported air	max 46	°C
Max temperature of transported air, when speed controlled	46	°C

Sound data		
Sound pressure level at 10m (free field)	37	dB(A)
Sound pressure level at 3m (free field)	47	dB(A)
Sound pressure level at 4m (free field)	45	dB(A)

Protection/Classification		
Enclosure class, motor	IP44	
Insulation class	F	

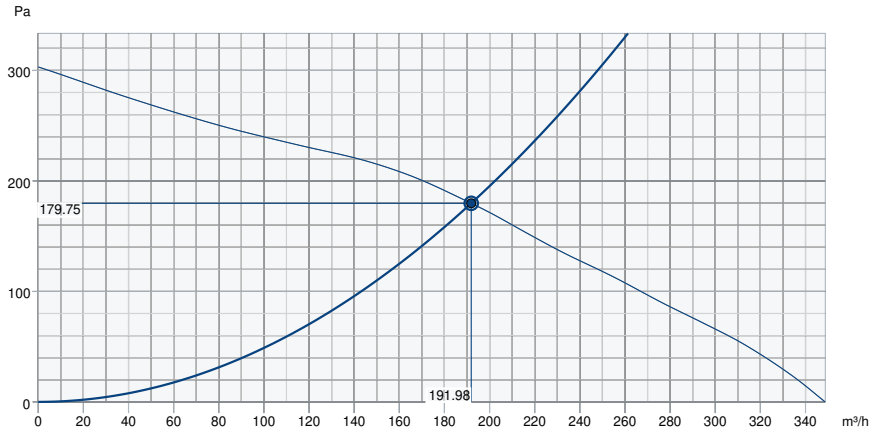
Data according to ErP		
Energy class, Basic unit	E	
Energy class, Local demand	B	
ErP ready	ErP 2018; ErP 2016	

Dimensions and weights		
Duct dimension; Circular, inlet	125	mm
Weight	3	kg

Others		
Duct connection type	Circular	
Color name, casing	Black	
Motor type	AC	

Performance

Performance curve



Performance certified is for installation type C – Ducted inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories).
Values shown are for inlet Lwi and LwiA and oulet Lwo and LwoA sound power levels for installation type C: ducted inlet, free outlet.
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The sound power level ratings shown are in decibels, referred to 10^{-12} watts, calculated per AMCA International Standard 301.
AMCA certified data is, Airflow, Static pressure, Power, Inlet sound, Outlet sound at 230V

Hydraulic data	
Required air flow	192 m³/h
Required static pressure	180 Pa
Working air flow	192 m³/h
Working static pressure	180 Pa
Air density	1.204 kg/m³
Power	56.2 W
Fan control - RPM	2,516 rpm
Current	0.27 A
SFP	1.054 kW/m³/s
Control voltage	230.0 V
Supply voltage	230 V

Sound power level		**63**	**125**	**250**	**500**	**1k**	**2k**	**4k**	**8k**	**Total**
Inlet	dB(A)	48	53	63	58	60	56	55	49	67
Outlet	dB(A)	50	57	61	63	61	58	59	52	68

Certifications

AMCA Worldwide Certified Ratings: Sound and Air Performance

Systemair certifies that the model TFSR 125 XL Sileo - KSA 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.

Check the AMCA Certified and Listed Product Search for our products
https://www.amca.org/certify/#certified-product-search

NOTE!

This product card is also used for TFSR 125 XL Grey - KSA & TFSR 125 XL Red - KSA.

TFS Roof Fans

A compact, quiet and reliable exhaust fan for domestic and commercial areas

- Compact extract air fan, ideal for storage areas, offices, residential houses etc.
- Durable and easy maintanance
- Available with AC and EC motors for 50 and 60Hz
- Low noise level

Find more details in our online catalogue

Applicability

The TFS fans are designed as very compact solution to fit roof exhaust extensions and provide a **quick** and straightforward **installation**. Fans are available in black, grey and brick red color and can be used in a variety of **commercial** and **domestic** applications, e.g. single and multiple **dwellings**, **offices, storages** and day **nurseries**.

Highly Durable

The fan is housed in a galvanized steel powder-coated casing to provide required protection for demanding outdoor use. The combination of high-reliable **motor** and **long-life** ball bearings, allows long **continuous operation** of the fan.

Easy Maintenance

TFS fans deploy a '**swing out**' design and have integrated on/off **service switch** on top of the casing to allow **quick access** for inspection and servicing.

Quiet solution

Noise optimized impeller makes the TFS fans a very quite solution. Further sound decrease obtained by using sound and thermal insulated **roof curb** (recommended accessory).

Certifications

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Compliant with today's and tomorrow's European Union rules and requirements for energy labelling and ecodesign for Energy-related Products (ErP).

AMCA Worldwide Certified Ratings: Sound and Air Performance

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Features

Construction

Casing made of **galvanised sheet steel** and for additional protection **powder coated** to grey, black and brick red colour. The casing of **TFS** includes a '**swing out**' cover with integrated service switch to simplify maintenance. To simplify the wiring process on site, the fans are also equipped with an external terminal box (**IP66**) with a 1 m long cable.

Impeller

TFS use backward curved **radial** impellers. These are made from lightweight, hard-wearing fiberglass reinforced **polyamide**, dynamically **balanced** and paired with corresponding external rotor motors.

Motor

Depending on type, **TFS** fans are equipped with **AC** or high efficient **EC** external rotor motors. All motors are suitable for **50Hz** and **60Hz**.

Motor protection

Fans with **AC** motors have **integrated** thermal protection with manual (electrical) reset.
Fans with **EC** motors have **integrated** electronic **thermal protection** including **locked-rotor protection** and **soft-start**.

Control

Fans with **EC motor** with **built-in potentiometer** to adjust working point can be also controlled by external **signal 0-10V.**
Fans with **AC motor** can be controlled by **5-step** or **stepless** speed regulator (accessory).
For **demand controlled** ventilation it can be combined with timer, thermostat, hygrostat, etc.

Mounting

The TFS must be installed on the roof in **horizontal or inclined** position. We recommend to install the fan together with a **roof curb** (available as an accessory).
TFSR delivered with **spigot** for the cases of direct connection to the circular duct. For cold climates we recommend continuous operation of the fan.

Technical parameters

Nominal data		
Voltage (nominal)	230	V
Frequency	60	Hz
Phases	1~	
Input power	59	W
Input power kW	0.059	kW
Input current	0.257	A
Impeller speed	2,876	rpm
Air flow	max 409	m³/h
Capacitance of capacitor	1.5	µF
Temperature of transported air	max 70	°C
Max temperature of transported air, when speed controlled	70	°C

Sound data		
Sound pressure level at 10m (free field)	46	dB(A)
Sound pressure level at 3m (free field)	56	dB(A)
Sound pressure level at 4m (free field)	54	dB(A)

Protection/Classification		
Enclosure class, motor	IP44	
Insulation class	F	

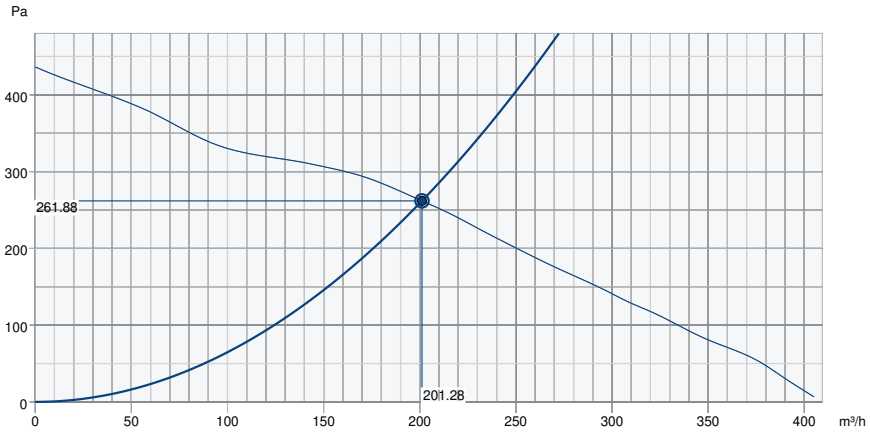
Data according to ErP		
Energy class, Basic unit	E	
Energy class, Local demand	B	
ErP ready	ErP 2018; ErP 2016	

Dimensions and weights		
Duct dimension; Circular, inlet	125	mm
Weight	3	kg

Others		
Duct connection type	Circular	
Color name, casing	Black	
Motor type	AC	

Performance

Performance curve



Performance certified is for installation type C – Ducted inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories).
Values shown are for inlet Lwi and LwiA and oulet Lwo and LwoA sound power levels for installation type C: ducted inlet, free outlet.
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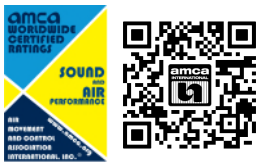
The sound power level ratings shown are in decibels, referred to 10^{-12} watts, calculated per AMCA International Standard 301.
AMCA certified data is, Airflow, Static pressure, Power, Inlet sound, Outlet sound at 230V

Hydraulic data	
Required air flow	201 m³/h
Required static pressure	262 Pa
Working air flow	201 m³/h
Working static pressure	262 Pa
Air density	1.204 kg/m³
Power	57.3 W
Fan control - RPM	2,925 rpm
Current	0.25 A
SFP	1.024 kW/m³/s
Control voltage	230.0 V
Supply voltage	230 V

Sound power level		**63**	**125**	**250**	**500**	**1k**	**2k**	**4k**	**8k**	**Total**
Inlet	dB(A)	60	62	70	69	69	68	63	63	76
Outlet	dB(A)	69	65	65	70	71	68	68	66	78

Certifications



AMCA Worldwide Certified Ratings: Sound and Air Performance

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Check the AMCA Certified and Listed Product Search for our products
https://www.amca.org/certify/#certified-product-search

NOTE!
This product card is also used for TFSR 125 XL Grey - KSA & TFSR 125 XL Red - KSA.

TFS Roof Fans

A compact, quiet and reliable exhaust fan for domestic and commercial areas

- Compact extract air fan, ideal for storage areas, offices, residential houses etc.
- Durable and easy maintanance
- Available with AC and EC motors for 50 and 60Hz
- Low noise level

Find more details in our online catalogue

Applicability

The TFS fans are designed as very compact solution to fit roof exhaust extensions and provide a **quick** and straightforward **installation**. Fans are available in black, grey and brick red color and can be used in a variety of **commercial** and **domestic** applications, e.g. single and multiple **dwellings**, **offices, storages** and day **nurseries**.

Highly Durable

The fan is housed in a galvanized steel powder-coated casing to provide required protection for demanding outdoor use. The combination of high-reliable **motor** and **long-life** ball bearings, allows long **continuous operation** of the fan.

Easy Maintenance

TFS fans deploy a '**swing out**' design and have integrated on/off **service switch** on top of the casing to allow **quick access** for inspection and servicing.

Quiet solution

Noise optimized impeller makes the TFS fans a very quite solution. Further sound decrease obtained by using sound and thermal insulated **roof curb** (recommended accessory).

Certifications

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Features

Construction

Casing made of **galvanised sheet steel** and for additional protection **powder coated** to grey, black and brick red colour. The casing of **TFS** includes a '**swing out**' cover with integrated service switch to simplify maintenance. To simplify the wiring process on site, the fans are also equipped with an external terminal box (**IP66**) with a 1 m long cable.

Impeller

TFS use backward curved **radial** impellers. These are made from lightweight, hard-wearing fiberglass reinforced **polyamide**, dynamically **balanced** and paired with corresponding external rotor motors.

Motor

Depending on type, **TFS** fans are equipped with **AC** or high efficient **EC** external rotor motors. All motors are suitable for **50Hz** and **60Hz**.

Motor protection

Fans with **AC** motors have **integrated** thermal protection with manual (electrical) reset.
Fans with **EC** motors have **integrated** electronic **thermal protection** including **locked-rotor protection** and **soft-start**.

Control

Fans with **EC motor** with **built-in potentiometer** to adjust working point can be also controlled by external **signal 0-10V.**
Fans with **AC motor** can be controlled by **5-step** or **stepless** speed regulator (accessory).
For **demand controlled** ventilation it can be combined with timer, thermostat, hygrostat, etc.

Mounting

The TFS must be installed on the roof in **horizontal or inclined** position. We recommend to install the fan together with a **roof curb** (available as an accessory).
TFSR delivered with **spigot** for the cases of direct connection to the circular duct. For cold climates we recommend continuous operation of the fan.

Technical parameters

Nominal data		
Voltage (nominal)	230	V
Frequency	50	Hz
Phases	1~	
Input power	51	W
Input power kW	0.051	kW
Input current	0.222	A
Impeller speed	2,377	rpm
Air flow	max 417	m³/h
Capacitance of capacitor	1.5	µF
Temperature of transported air	max 70	°C
Max temperature of transported air, when speed controlled	70	°C

Sound data		
Sound pressure level at 10m (free field)	36	dB(A)
Sound pressure level at 3m (free field)	46	dB(A)
Sound pressure level at 4m (free field)	44	dB(A)

Protection/Classification	
Enclosure class, motor	IP44
Insulation class	B

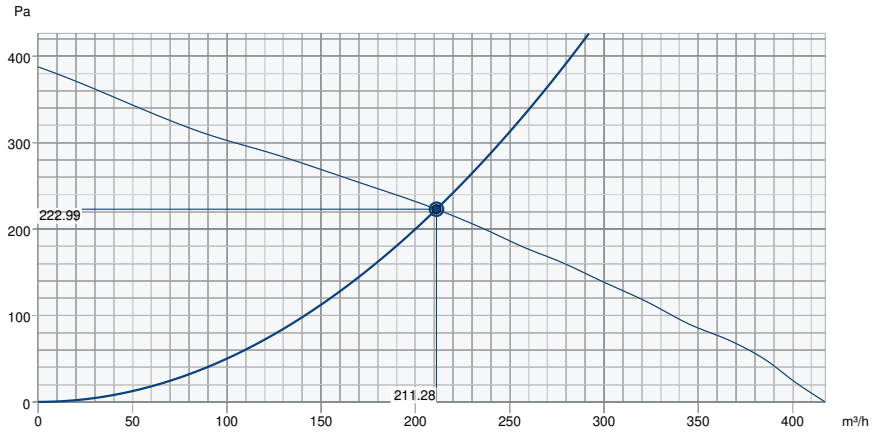
Data according to ErP	
Energy class, Basic unit	E
Energy class, Local demand	B
ErP ready	ErP 2018; ErP 2016

Dimensions and weights		
Duct dimension; Circular, inlet	160	mm
Weight	4.1	kg

Others	
Duct connection type	Circular
Color name, casing	Black
Motor type	AC

Performance

Performance curve



Performance certified is for installation type C – Ducted inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories).
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The sound power level ratings shown are in decibels, referred to 10^{-12} watts, calculated per AMCA International Standard 301.
AMCA certified data is, Airflow, Static pressure, Power, Inlet sound, Outlet sound at 230V

Hydraulic data	
Required air flow	211 m³/h
Required static pressure	223 Pa
Working air flow	211 m³/h
Working static pressure	223 Pa
Air density	1.204 kg/m³
Power	50.4 W
Fan control - RPM	2,405 rpm
Current	0.22 A
SFP	0.859 kW/m³/s
Control voltage	230.0 V
Supply voltage	230 V

Sound power level		**63**	**125**	**250**	**500**	**1k**	**2k**	**4k**	**8k**	**Total**
Inlet	dB(A)	47	50	57	58	60	57	53	47	65
Outlet	dB(A)	47	48	61	59	60	60	57	52	67

Certifications

AMCA Worldwide Certified Ratings: Sound and Air Performance

Systemair certifies that the model TFSR 160 Sileo - KSA 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.

Check the AMCA Certified and Listed Product Search for our products
https://www.amca.org/certify/#certified-product-search

NOTE!
This product card is also used for TFSR 160 Sileo Grey - KSA & TFSR 160 Sileo Red - KSA.

TFS Roof Fans

A compact, quiet and reliable exhaust fan for domestic and commercial areas

- Compact extract air fan, ideal for storage areas, offices, residential houses etc.
- Durable and easy maintanance
- Available with AC and EC motors for 50 and 60Hz
- Low noise level

Find more details in our online catalogue

Applicability

The TFS fans are designed as very compact solution to fit roof exhaust extensions and provide a **quick** and straightforward **installation**. Fans are available in black, grey and brick red color and can be used in a variety of **commercial** and **domestic** applications, e.g. single and multiple **dwellings**, **offices, storages** and day **nurseries**.

Highly Durable

The fan is housed in a galvanized steel powder-coated casing to provide required protection for demanding outdoor use. The combination of high-reliable **motor** and **long-life** ball bearings, allows long **continuous operation** of the fan.

Easy Maintenance

TFS fans deploy a '**swing out**' design and have integrated on/off **service switch** on top of the casing to allow **quick access** for inspection and servicing.

Quiet solution

Noise optimized impeller makes the TFS fans a very quite solution. Further sound decrease obtained by using sound and thermal insulated **roof curb** (recommended accessory).

Certifications

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AMCA Worldwide Certified Ratings: Sound and Air Performance

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Features

Construction

Casing made of **galvanised sheet steel** and for additional protection **powder coated** to grey, black and brick red colour. The casing of **TFS** includes a '**swing out**' cover with integrated service switch to simplify maintenance. To simplify the wiring process on site, the fans are also equipped with an external terminal box (**IP66**) with a 1 m long cable.

Impeller

TFS use backward curved **radial** impellers. These are made from lightweight, hard-wearing fiberglass reinforced **polyamide**, dynamically **balanced** and paired with corresponding external rotor motors.

Motor

Depending on type, **TFS** fans are equipped with **AC** or high efficient **EC** external rotor motors. All motors are suitable for **50Hz** and **60Hz**.

Motor protection

Fans with **AC** motors have **integrated** thermal protection with manual (electrical) reset.
Fans with **EC** motors have **integrated** electronic **thermal protection** including **locked-rotor protection** and **soft-start**.

Control

Fans with **EC motor** with **built-in potentiometer** to adjust working point can be also controlled by external **signal 0-10V.**
Fans with **AC motor** can be controlled by **5-step** or **stepless** speed regulator (accessory).
For **demand controlled** ventilation it can be combined with timer, thermostat, hygrostat, etc.

Mounting

The TFS must be installed on the roof in **horizontal or inclined** position. We recommend to install the fan together with a **roof curb** (available as an accessory).
TFSR delivered with **spigot** for the cases of direct connection to the circular duct. For cold climates we recommend continuous operation of the fan.

Technical parameters

Nominal data		
Voltage (nominal)	230	V
Frequency	60	Hz
Phases	1~	
Input power	64	W
Input power kW	0.064	kW
Input current	0.276	A
Impeller speed	2,539	rpm
Air flow	max 448	m³/h
Capacitance of capacitor	1.5	µF
Temperature of transported air	max 70	°C
Max temperature of transported air, when speed controlled	70	°C

Sound data		
Sound pressure level at 10m (free field)	38	dB(A)
Sound pressure level at 3m (free field)	48	dB(A)
Sound pressure level at 4m (free field)	46	dB(A)

Protection/Classification		
Enclosure class, motor	IP44	
Insulation class	B	

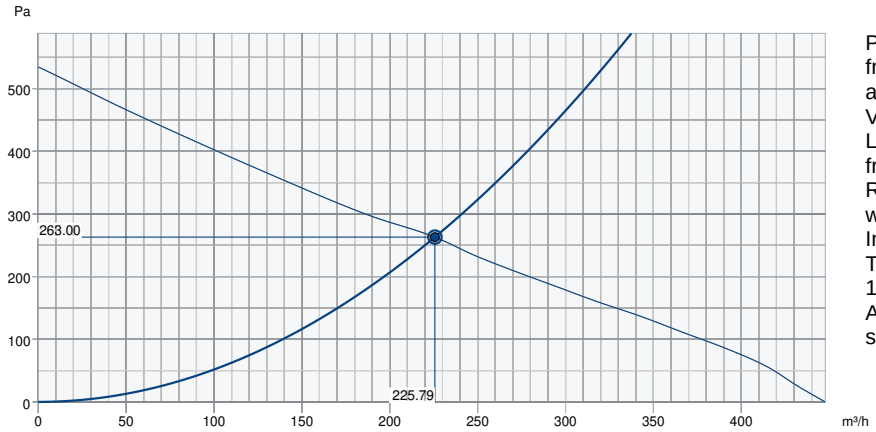
Data according to ErP		
Energy class, Basic unit	E	
Energy class, Local demand	B	
ErP ready	ErP 2018; ErP 2016	

Dimensions and weights		
Duct dimension; Circular, inlet	160	mm
Weight	4.1	kg

Others		
Duct connection type	Circular	
Color name, casing	Black	
Motor type	AC	

Performance

Performance curve



Performance certified is for installation type C – Ducted inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories).
Values shown are for inlet Lwi and LwiA and oulet Lwo and LwoA sound power levels for installation type C: ducted inlet, free outlet.
Ratings include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.
The sound power level ratings shown are in decibels, referred to 10^{-12} watts, calculated per AMCA International Standard 301.
AMCA certified data is, Airflow, Static pressure, Power, Inlet sound, Outlet sound at 230V

Hydraulic data	
Required air flow	226 m³/h
Required static pressure	263 Pa
Working air flow	226 m³/h
Working static pressure	263 Pa
Air density	1.204 kg/m³
Power	62.5 W
Fan control - RPM	2,598 rpm
Current	0.27 A
SFP	0.997 kW/m³/s
Control voltage	230.0 V
Supply voltage	230 V

Sound power level		**63**	**125**	**250**	**500**	**1k**	**2k**	**4k**	**8k**	**Total**
Inlet	dB(A)	50	52	59	61	61	59	55	50	67
Outlet	dB(A)	50	51	62	61	62	62	59	55	69

Certifications

AMCA Worldwide Certified Ratings: Sound and Air Performance

Systemair certifies that the model TFSR 160 Sileo - KSA 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.

Check the AMCA Certified and Listed Product Search for our products
https://www.amca.org/certify/#certified-product-search

NOTE!
This product card is also used for TFSR 160 Sileo Grey - KSA & TFSR 160 Sileo Red - KSA.

TFS Roof Fans

A compact, quiet and reliable exhaust fan for domestic and commercial areas

- Compact extract air fan, ideal for storage areas, offices, residential houses etc.
- Durable and easy maintanance
- Available with AC and EC motors for 50 and 60Hz
- Low noise level

Find more details in our online catalogue

Applicability

The TFS fans are designed as very compact solution to fit roof exhaust extensions and provide a **quick** and straightforward **installation**. Fans are available in black, grey and brick red color and can be used in a variety of **commercial** and **domestic** applications, e.g. single and multiple **dwellings**, **offices, storages** and day **nurseries**.

Highly Durable

The fan is housed in a galvanized steel powder-coated casing to provide required protection for demanding outdoor use. The combination of high-reliable **motor** and **long-life** ball bearings, allows long **continuous operation** of the fan.

Easy Maintenance

TFS fans deploy a '**swing out**' design and have integrated on/off **service switch** on top of the casing to allow **quick access** for inspection and servicing.

Quiet solution

Noise optimized impeller makes the TFS fans a very quite solution. Further sound decrease obtained by using sound and thermal insulated **roof curb** (recommended accessory).

Certifications

Ecodesign (ErP) compliant

Compliant with today's and tomorrow's European Union rules and requirements for energy labelling and ecodesign for Energy-related Products (ErP).

AMCA Worldwide Certified Ratings: Sound and Air Performance

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https://www.amca.org/certify/#certified-product-search

Features

Construction

Casing made of **galvanised sheet steel** and for additional protection **powder coated** to grey, black and brick red colour. The casing of **TFS** includes a '**swing out**' cover with integrated service switch to simplify maintenance. To simplify the wiring process on site, the fans are also equipped with an external terminal box (**IP66**) with a 1 m long cable.

Impeller

TFS use backward curved **radial** impellers. These are made from lightweight, hard-wearing fiberglass reinforced **polyamide**, dynamically **balanced** and paired with corresponding external rotor motors.

Motor

Depending on type, **TFS** fans are equipped with **AC** or high efficient **EC** external rotor motors. All motors are suitable for **50Hz** and **60Hz**.

Motor protection

Fans with **AC** motors have **integrated** thermal protection with manual (electrical) reset.
Fans with **EC** motors have **integrated** electronic **thermal protection** including **locked-rotor protection** and **soft-start**.

Control

Fans with **EC motor** with **built-in potentiometer** to adjust working point can be also controlled by external **signal 0-10V.**
Fans with **AC motor** can be controlled by **5-step** or **stepless** speed regulator (accessory).
For **demand controlled** ventilation it can be combined with timer, thermostat, hygrostat, etc.

Mounting

The TFS must be installed on the roof in **horizontal or inclined** position. We recommend to install the fan together with a **roof curb** (available as an accessory).
TFSR delivered with **spigot** for the cases of direct connection to the circular duct. For cold climates we recommend continuous operation of the fan.

Technical parameters

Nominal data		
Voltage (nominal)	230	V
Frequency	50	Hz
Phases	1~	
Input power	101	W
Input power kW	0.101	kW
Input current	0.435	A
Impeller speed	2,501	rpm
Air flow	max 756	m³/h
Capacitance of capacitor	3	µF
Temperature of transported air	max 70	°C
Max temperature of transported air, when speed controlled	70	°C

Sound data		
Sound pressure level at 10m (free field)	41	dB(A)
Sound pressure level at 3m (free field)	51	dB(A)
Sound pressure level at 4m (free field)	49	dB(A)

Protection/Classification	
Enclosure class, motor	IP44
Insulation class	B

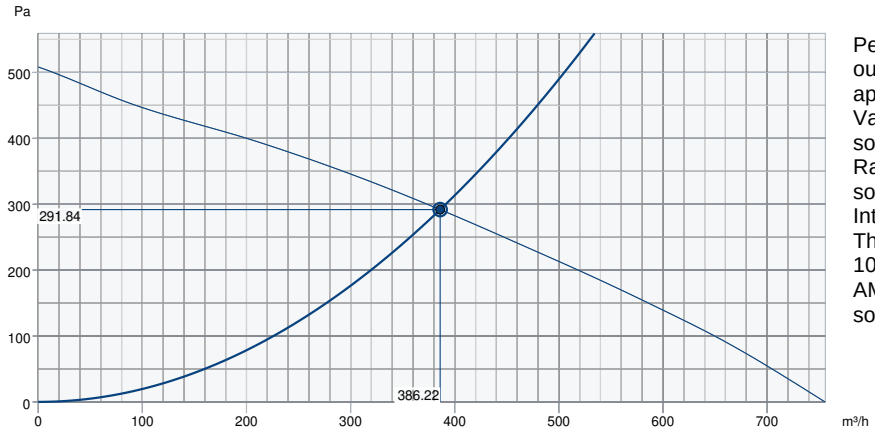
Data according to ErP	
Energy class, Basic unit	E
Energy class, Local demand	B
ErP ready	ErP 2016; ErP 2018

Dimensions and weights		
Duct dimension; Circular, inlet	200	mm
Weight	5.8	kg

Others	
Duct connection type	Circular
Color name, casing	Black
Motor type	AC

Performance

Performance curve



Performance certified is for installation type C – Ducted inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories).
Values shown are for inlet Lwi and LwiA and oulet Lwo and LwoA sound power levels for installation type C: ducted inlet, free outlet. Ratings include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.
The sound power level ratings shown are in decibels, referred to 10^{-12} watts, calculated per AMCA International Standard 301.
AMCA certified data is, Airflow, Static pressure, Power, Inlet sound, Outlet sound at 230V

Hydraulic data	
Required air flow	386 m³/h
Required static pressure	292 Pa
Working air flow	386 m³/h
Working static pressure	292 Pa
Air density	1.204 kg/m³
Power	98.9 W
Fan control - RPM	2,529 rpm
Current	0.42 A
SFP	0.922 kW/m³/s
Control voltage	230.0 V
Supply voltage	230 V

Sound power level		**63**	**125**	**250**	**500**	**1k**	**2k**	**4k**	**8k**	**Total**
Inlet	dB(A)	52	57	65	62	64	60	60	53	70
Outlet	dB(A)	52	55	67	64	66	65	63	56	72

Certifications

AMCA Worldwide Certified Ratings: Sound and Air Performance

Systemair certifies that the model TFSR 200 - KSA 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.
Check the AMCA Certified and Listed Product Search for our products
https://www.amca.org/certify/#certified-product-search

NOTE!

This product card is also used for TFSR 200 Grey - KSA & TFSR 200 Red - KSA.

TFS Roof Fans

A compact, quiet and reliable exhaust fan for domestic and commercial areas

- Compact extract air fan, ideal for storage areas, offices, residential houses etc.
- Durable and easy maintanance
- Available with AC and EC motors for 50 and 60Hz
- Low noise level

Find more details in our online catalogue

Applicability

The TFS fans are designed as very compact solution to fit roof exhaust extensions and provide a **quick** and straightforward **installation**. Fans are available in black, grey and brick red color and can be used in a variety of **commercial** and **domestic** applications, e.g. single and multiple **dwellings**, **offices, storages** and day **nurseries**.

Highly Durable

The fan is housed in a galvanized steel powder-coated casing to provide required protection for demanding outdoor use. The combination of high-reliable **motor** and **long-life** ball bearings, allows long **continuous operation** of the fan.

Easy Maintenance

TFS fans deploy a '**swing out**' design and have integrated on/off **service switch** on top of the casing to allow **quick access** for inspection and servicing.

Quiet solution

Noise optimized impeller makes the TFS fans a very quite solution. Further sound decrease obtained by using sound and thermal insulated **roof curb** (recommended accessory).

Certifications

Ecodesign (ErP) compliant

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Features

Construction

Casing made of **galvanised sheet steel** and for additional protection **powder coated** to grey, black and brick red colour. The casing of **TFS** includes a '**swing out**' cover with integrated service switch to simplify maintenance. To simplify the wiring process on site, the fans are also equipped with an external terminal box (**IP66**) with a 1 m long cable.

Impeller

TFS use backward curved **radial** impellers. These are made from lightweight, hard-wearing fiberglass reinforced **polyamide**, dynamically **balanced** and paired with corresponding external rotor motors.

Motor

Depending on type, **TFS** fans are equipped with **AC** or high efficient **EC** external rotor motors. All motors are suitable for **50Hz** and **60Hz**.

Motor protection

Fans with **AC** motors have **integrated** thermal protection with manual (electrical) reset.
Fans with **EC** motors have **integrated** electronic **thermal protection** including **locked-rotor protection** and **soft-start**.

Control

Fans with **EC motor** with **built-in potentiometer** to adjust working point can be also controlled by external **signal 0-10V.**
Fans with **AC motor** can be controlled by **5-step** or **stepless** speed regulator (accessory).
For **demand controlled** ventilation it can be combined with timer, thermostat, hygrostat, etc.

Mounting

The TFS must be installed on the roof in **horizontal or inclined** position. We recommend to install the fan together with a **roof curb** (available as an accessory).
TFSR delivered with **spigot** for the cases of direct connection to the circular duct. For cold climates we recommend continuous operation of the fan.

Technical parameters

Nominal data		
Voltage (nominal)	230	V
Frequency	60	Hz
Phases	1~	
Input power	136	W
Input power kW	0.136	kW
Input current	0.574	A
Impeller speed	2,680	rpm
Air flow	max 826	m³/h
Capacitance of capacitor	3	µF
Temperature of transported air	max 70	°C
Max temperature of transported air, when speed controlled	70	°C

Sound data		
Sound pressure level at 10m (free field)	43	dB(A)
Sound pressure level at 3m (free field)	53	dB(A)
Sound pressure level at 4m (free field)	51	dB(A)

Protection/Classification		
Enclosure class, motor	IP44	
Insulation class	B	

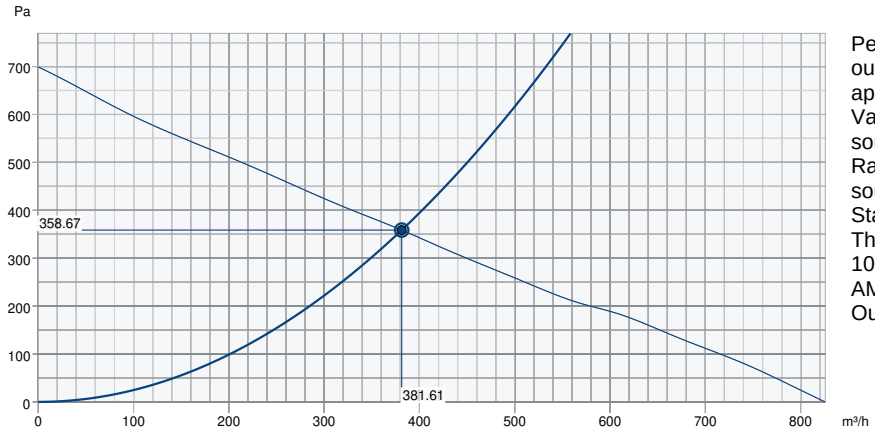
Data according to ErP		
Energy class, Basic unit	E	
Energy class, Local demand	C	
ErP ready	ErP 2018; ErP 2016	

Dimensions and weights		
Duct dimension; Circular, inlet	200	mm
Weight	5.8	kg

Others		
Duct connection type	Circular	
Color name, casing	Black	
Motor type	AC	

Performance

Performance curve



Performance certified is for installation type C – Ducted inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories).
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The sound power level ratings shown are in decibels, referred to 10^{-12} watts, calculated per AMCA International Standard 301.
AMCA certified data is, Airflow, Static pressure, Power, Inlet sound, Outlet sound at 230V

Hydraulic data	
Required air flow	382 m³/h
Required static pressure	359 Pa
Working air flow	382 m³/h
Working static pressure	359 Pa
Air density	1.204 kg/m³
Power	131.1 W
Fan control - RPM	2,717 rpm
Current	0.56 A
SFP	1.237 kW/m³/s
Control voltage	230.0 V
Supply voltage	230 V

Sound power level		**63**	**125**	**250**	**500**	**1k**	**2k**	**4k**	**8k**	**Total**
Inlet	dB(A)	59	60	67	63	66	62	62	54	72
Outlet	dB(A)	55	60	68	67	68	67	64	58	74

Certifications

AMCA Worldwide Certified Ratings: Sound and Air Performance

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https://www.amca.org/certify/#certified-product-search

NOTE!

This product card is also used for TFSR 200 Grey - KSA & TFSR 200 Red - KSA.

TFS Roof Fans

A compact, quiet and reliable exhaust fan for domestic and commercial areas

- Compact extract air fan, ideal for storage areas, offices, residential houses etc.
- Durable and easy maintanance
- Available with AC and EC motors for 50 and 60Hz
- Low noise level

Find more details in our online catalogue

Applicability

The TFS fans are designed as very compact solution to fit roof exhaust extensions and provide a **quick** and straightforward **installation**. Fans are available in black, grey and brick red color and can be used in a variety of **commercial** and **domestic** applications, e.g. single and multiple **dwellings**, **offices, storages** and day **nurseries**.

Highly Durable

The fan is housed in a galvanized steel powder-coated casing to provide required protection for demanding outdoor use. The combination of high-reliable **motor** and **long-life** ball bearings, allows long **continuous operation** of the fan.

Easy Maintenance

TFS fans deploy a '**swing out**' design and have integrated on/off **service switch** on top of the casing to allow **quick access** for inspection and servicing.

Quiet solution

Noise optimized impeller makes the TFS fans a very quite solution. Further sound decrease obtained by using sound and thermal insulated **roof curb** (recommended accessory).

Certifications

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Features

Construction

Casing made of **galvanised sheet steel** and for additional protection **powder coated** to grey, black and brick red colour. The casing of **TFS** includes a '**swing out**' cover with integrated service switch to simplify maintenance. To simplify the wiring process on site, the fans are also equipped with an external terminal box (**IP66**) with a 1 m long cable.

Impeller

TFS use backward curved **radial** impellers. These are made from lightweight, hard-wearing fiberglass reinforced **polyamide**, dynamically **balanced** and paired with corresponding external rotor motors.

Motor

Depending on type, **TFS** fans are equipped with **AC** or high efficient **EC** external rotor motors. All motors are suitable for **50Hz** and **60Hz**.

Motor protection

Fans with **AC** motors have **integrated** thermal protection with manual (electrical) reset.
Fans with **EC** motors have **integrated** electronic **thermal protection** including **locked-rotor protection** and **soft-start**.

Control

Fans with **EC motor** with **built-in potentiometer** to adjust working point can be also controlled by external **signal 0-10V.**
Fans with **AC motor** can be controlled by **5-step** or **stepless** speed regulator (accessory).
For **demand controlled** ventilation it can be combined with timer, thermostat, hygrostat, etc.

Mounting

The TFS must be installed on the roof in **horizontal or inclined** position. We recommend to install the fan together with a **roof curb** (available as an accessory).
TFSR delivered with **spigot** for the cases of direct connection to the circular duct. For cold climates we recommend continuous operation of the fan.

Technical parameters

Nominal data		
Voltage (nominal)	230	V
Frequency	50	Hz
Phases	1~	
Input power	202	W
Input power kW	0.202	kW
Input current	0.872	A
Impeller speed	2,472	rpm
Air flow	max 1,174	m³/h
Capacitance of capacitor	5	µF
Temperature of transported air	max 70	°C
Max temperature of transported air, when speed controlled	70	°C

Sound data		
Sound pressure level at 10m (free field)	43	dB(A)
Sound pressure level at 3m (free field)	53	dB(A)
Sound pressure level at 4m (free field)	51	dB(A)

Protection/Classification		
Enclosure class, motor	IP44	
Insulation class	F	

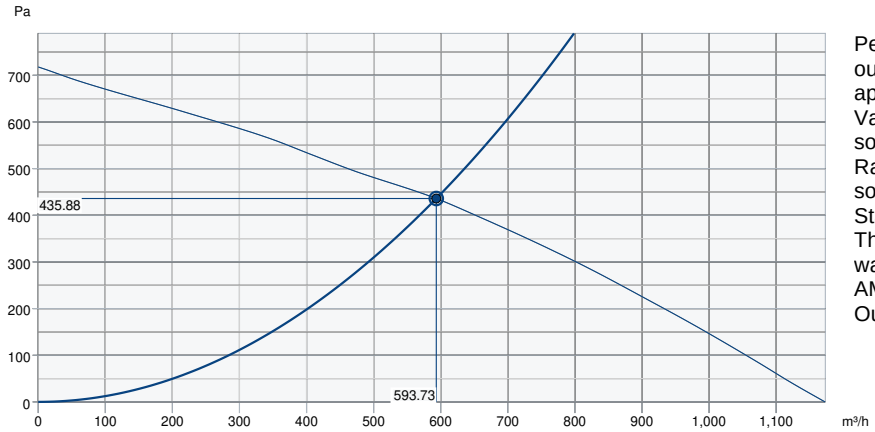
Data according to ErP		
ErP ready	Not ErP relevant	

Dimensions and weights		
Duct dimension; Circular, inlet	315	mm
Weight	8	kg

Others		
Duct connection type	Circular	
Color name, casing	Black	
Motor type	AC	

Performance

Performance curve



Performance certified is for installation type C – Ducted inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories).
Values shown are for inlet Lwi and LwiA and oulet Lwo and LwoA sound power levels for installation type C: ducted inlet, free outlet. Ratings include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.
The sound power level ratings shown are in decibels, referred to 10^{-12} watts, calculated per AMCA International Standard 301.
AMCA certified data is, Airflow, Static pressure, Power, Inlet sound, Outlet sound at 230V

Hydraulic data	
Required air flow	594 m³/h
Required static pressure	436 Pa
Working air flow	594 m³/h
Working static pressure	436 Pa
Air density	1.204 kg/m³
Power	194.0 W
Fan control - RPM	2,511 rpm
Current	0.84 A
SFP	1.176 kW/m³/s
Control voltage	230.0 V
Supply voltage	230 V

Sound power level		**63**	**125**	**250**	**500**	**1k**	**2k**	**4k**	**8k**	**Total**
Inlet	dB(A)	55	59	65	64	63	62	57	52	71
Outlet	dB(A)	60	60	69	68	68	67	58	56	74

Certifications

AMCA Worldwide Certified Ratings: Sound and Air Performance

Systemair certifies that the model TFSR 315 M** - KSA 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.

Check the AMCA Certified and Listed Product Search for our products
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TFS Roof Fans

A compact, quiet and reliable exhaust fan for domestic and commercial areas

- Compact extract air fan, ideal for storage areas, offices, residential houses etc.
- Durable and easy maintanance
- Available with AC and EC motors for 50 and 60Hz
- Low noise level

Find more details in our online catalogue

Applicability

The TFS fans are designed as very compact solution to fit roof exhaust extensions and provide a **quick** and straightforward **installation**. Fans are available in black, grey and brick red color and can be used in a variety of **commercial** and **domestic** applications, e.g. single and multiple **dwellings**, **offices, storages** and day **nurseries**.

Highly Durable

The fan is housed in a galvanized steel powder-coated casing to provide required protection for demanding outdoor use. The combination of high-reliable **motor** and **long-life** ball bearings, allows long **continuous operation** of the fan.

Easy Maintenance

TFS fans deploy a '**swing out**' design and have integrated on/off **service switch** on top of the casing to allow **quick access** for inspection and servicing.

Quiet solution

Noise optimized impeller makes the TFS fans a very quite solution. Further sound decrease obtained by using sound and thermal insulated **roof curb** (recommended accessory).

Certifications

AMCA Worldwide Certified Ratings: Sound and Air Performance

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https://www.amca.org/certify/#certified-product-search

Features

Construction

Casing made of **galvanised sheet steel** and for additional protection **powder coated** to grey, black and brick red colour. The casing of **TFS** includes a '**swing out**' cover with integrated service switch to simplify maintenance. To simplify the wiring process on site, the fans are also equipped with an external terminal box (**IP66**) with a 1 m long cable.

Impeller

TFS use backward curved **radial** impellers. These are made from lightweight, hard-wearing fiberglass reinforced **polyamide**, dynamically **balanced** and paired with corresponding external rotor motors.

Motor

Depending on type, **TFS** fans are equipped with **AC** or high efficient **EC** external rotor motors. All motors are suitable for **50Hz** and **60Hz**.

Motor protection

Fans with **AC** motors have **integrated** thermal protection with manual (electrical) reset.
Fans with **EC** motors have **integrated** electronic **thermal protection** including **locked-rotor protection** and **soft-start**.

Control

Fans with **EC motor** with **built-in potentiometer** to adjust working point can be also controlled by external **signal 0-10V.**
Fans with **AC motor** can be controlled by **5-step** or **stepless** speed regulator (accessory).
For **demand controlled** ventilation it can be combined with timer, thermostat, hygrostat, etc.

Mounting

The TFS must be installed on the roof in **horizontal or inclined** position. We recommend to install the fan together with a **roof curb** (available as an accessory).
TFSR delivered with **spigot** for the cases of direct connection to the circular duct. For cold climates we recommend continuous operation of the fan.

Technical parameters

Nominal data		
Voltage (nominal)	230	V
Frequency	60	Hz
Phases	1~	
Input power	270	W
Input power kW	0.27	kW
Input current	1.158	A
Impeller speed	2,505	rpm
Air flow	max 1,246	m³/h
Capacitance of capacitor	5	µF
Temperature of transported air	max 70	°C
Max temperature of transported air, when speed controlled	60	°C

Sound data		
Sound pressure level at 10m (free field)	45	dB(A)
Sound pressure level at 3m (free field)	55	dB(A)
Sound pressure level at 4m (free field)	53	dB(A)

Protection/Classification		
Enclosure class, motor	IP44	
Insulation class	F	

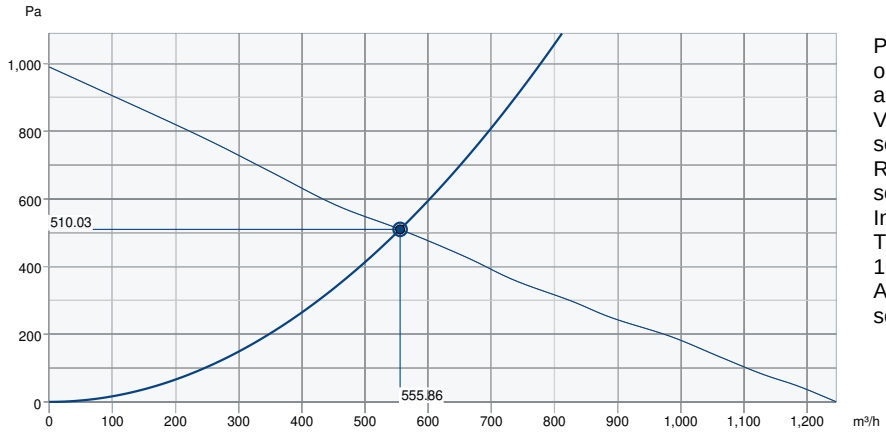
Data according to ErP		
ErP ready	Not ErP relevant	

Dimensions and weights		
Duct dimension; Circular, inlet	315	mm
Weight	8	kg

Others		
Duct connection type	Circular	
Color name, casing	Black	
Motor type	AC	

Performance

Performance curve



Performance certified is for installation type C – Ducted inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories).
Values shown are for inlet Lwi and LwiA and oulet Lwo and LwoA sound power levels for installation type C: ducted inlet, free outlet. Ratings include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.
The sound power level ratings shown are in decibels, referred to 10^{-12} watts, calculated per AMCA International Standard 301.
AMCA certified data is, Airflow, Static pressure, Power, Inlet sound, Outlet sound at 230V

Hydraulic data	
Required air flow	556 m³/h
Required static pressure	510 Pa
Working air flow	556 m³/h
Working static pressure	510 Pa
Air density	1.204 kg/m³
Power	257.5 W
Fan control - RPM	2,627 rpm
Current	1.10 A
SFP	1.668 kW/m³/s
Control voltage	230.0 V
Supply voltage	230 V

Sound power level		**63**	**125**	**250**	**500**	**1k**	**2k**	**4k**	**8k**	**Total**
Inlet	dB(A)	59	61	67	65	64	63	57	53	72
Outlet	dB(A)	62	62	70	69	69	69	59	56	76

Certifications

AMCA Worldwide Certified Ratings: Sound and Air Performance

Systemair certifies that the model TFSR 315 M** - KSA 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.

Check the AMCA Certified and Listed Product Search for our products
https://www.amca.org/certify/#certified-product-search

TFS Roof Fans

A compact, quiet and reliable exhaust fan for domestic and commercial areas

- Compact extract air fan, ideal for storage areas, offices, residential houses etc.
- Durable and easy maintanance
- Available with AC and EC motors for 50 and 60Hz
- Low noise level

Find more details in our online catalogue

Applicability

The TFS fans are designed as very compact solution to fit roof exhaust extensions and provide a **quick** and straightforward **installation**. Fans are available in black, grey and brick red color and can be used in a variety of **commercial** and **domestic** applications, e.g. single and multiple **dwellings**, **offices, storages** and day **nurseries**.

Highly Durable

The fan is housed in a galvanized steel powder-coated casing to provide required protection for demanding outdoor use. The combination of high-reliable **motor** and **long-life** ball bearings, allows long **continuous operation** of the fan.

Easy Maintenance

TFS fans deploy a '**swing out**' design and have integrated on/off **service switch** on top of the casing to allow **quick access** for inspection and servicing.

Quiet solution

Noise optimized impeller makes the TFS fans a very quite solution. Further sound decrease obtained by using sound and thermal insulated **roof curb** (recommended accessory).

Certifications

Ecodesign (ErP) compliant

Compliant with today's and tomorrow's European Union rules and requirements for energy labelling and ecodesign for Energy-related Products (ErP).

AMCA Worldwide Certified Ratings: Sound and Air Performance

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Features

Construction

Casing made of **galvanised sheet steel** and for additional protection **powder coated** to grey, black and brick red colour. The casing of **TFS** includes a '**swing out**' cover with integrated service switch to simplify maintenance. To simplify the wiring process on site, the fans are also equipped with an external terminal box (**IP66**) with a 1 m long cable.

Impeller

TFS use backward curved **radial** impellers. These are made from lightweight, hard-wearing fiberglass reinforced **polyamide**, dynamically **balanced** and paired with corresponding external rotor motors.

Motor

Depending on type, **TFS** fans are equipped with **AC** or high efficient **EC** external rotor motors. All motors are suitable for **50Hz** and **60Hz**.

Motor protection

Fans with **AC** motors have **integrated** thermal protection with manual (electrical) reset.
Fans with **EC** motors have **integrated** electronic **thermal protection** including **locked-rotor protection** and **soft-start**.

Control

Fans with **EC motor** with **built-in potentiometer** to adjust working point can be also controlled by external **signal 0-10V.**
Fans with **AC motor** can be controlled by **5-step** or **stepless** speed regulator (accessory).
For **demand controlled** ventilation it can be combined with timer, thermostat, hygrostat, etc.

Mounting

The TFS must be installed on the roof in **horizontal or inclined** position. We recommend to install the fan together with a **roof curb** (available as an accessory).
TFSR delivered with **spigot** for the cases of direct connection to the circular duct. For cold climates we recommend continuous operation of the fan.

Technical parameters

Nominal data		
Voltage (nominal)	230	V
Frequency	50	Hz
Phases	1~	
Input power	218	W
Input power kW	0.218	kW
Input current	0.934	A
Impeller speed	2,660	rpm
Air flow	max 1,236	m³/h
Capacitance of capacitor	5	µF
Temperature of transported air	max 70	°C
Max temperature of transported air, when speed controlled	70	°C

Sound data		
Sound pressure level at 10m (free field)	45	dB(A)
Sound pressure level at 3m (free field)	55	dB(A)
Sound pressure level at 4m (free field)	53	dB(A)

Protection/Classification	
Enclosure class, motor	IP44
Insulation class	F

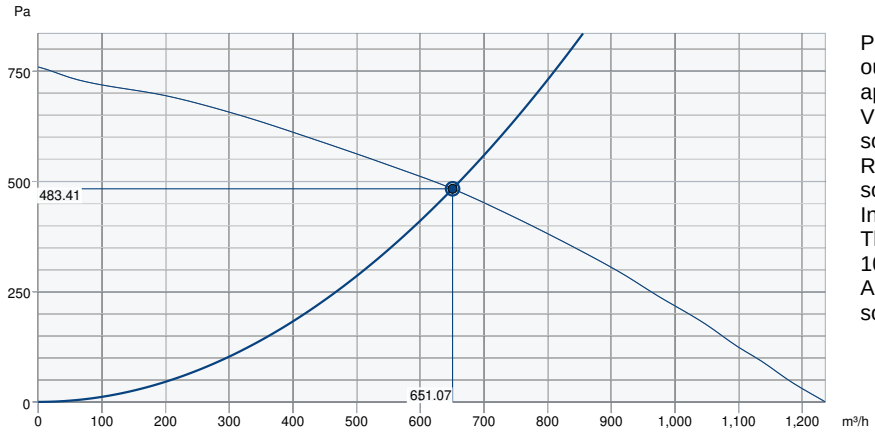
Data according to ErP	
ErP ready	ErP 2018; ErP 2016

Dimensions and weights		
Duct dimension; Circular, inlet	315	mm
Weight	9.1	kg

Others	
Duct connection type	Circular
Color name, casing	Black
Motor type	AC

Performance

Performance curve



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Values shown are for inlet Lwi and LwiA and oulet Lwo and LwoA sound power levels for installation type C: ducted inlet, free outlet. Ratings include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.
The sound power level ratings shown are in decibels, referred to 10^{-12} watts, calculated per AMCA International Standard 301.
AMCA certified data is, Airflow, Static pressure, Power, Inlet sound, Outlet sound at 230V

Hydraulic data	
Required air flow	651 m³/h
Required static pressure	483 Pa
Working air flow	651 m³/h
Working static pressure	483 Pa
Air density	1.204 kg/m³
Power	210.3 W
Fan control - RPM	2,680 rpm
Current	0.90 A
SFP	1.163 kW/m³/s
Control voltage	230.0 V
Supply voltage	230 V

Sound power level		**63**	**125**	**250**	**500**	**1k**	**2k**	**4k**	**8k**	**Total**
Inlet	dB(A)	58	58	67	65	64	63	57	51	72
Outlet	dB(A)	60	57	71	69	69	68	58	54	76

Certifications

AMCA Worldwide Certified Ratings: Sound and Air Performance

Systemair certifies that the model TFSR 315 Sileo - KSA 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.
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NOTE!
This product card is also used for TFSR 315 Sileo Grey - KSA & TFSR 315 Sileo Red - KSA.

TFS Roof Fans

A compact, quiet and reliable exhaust fan for domestic and commercial areas

- Compact extract air fan, ideal for storage areas, offices, residential houses etc.
- Durable and easy maintanance
- Available with AC and EC motors for 50 and 60Hz
- Low noise level

Find more details in our online catalogue

Applicability

The TFS fans are designed as very compact solution to fit roof exhaust extensions and provide a **quick** and straightforward **installation**. Fans are available in black, grey and brick red color and can be used in a variety of **commercial** and **domestic** applications, e.g. single and multiple **dwellings**, **offices, storages** and day **nurseries**.

Highly Durable

The fan is housed in a galvanized steel powder-coated casing to provide required protection for demanding outdoor use. The combination of high-reliable **motor** and **long-life** ball bearings, allows long **continuous operation** of the fan.

Easy Maintenance

TFS fans deploy a '**swing out**' design and have integrated on/off **service switch** on top of the casing to allow **quick access** for inspection and servicing.

Quiet solution

Noise optimized impeller makes the TFS fans a very quite solution. Further sound decrease obtained by using sound and thermal insulated **roof curb** (recommended accessory).

Certifications

AMCA Worldwide Certified Ratings: Sound and Air Performance

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Features

Construction

Casing made of **galvanised sheet steel** and for additional protection **powder coated** to grey, black and brick red colour. The casing of **TFS** includes a '**swing out**' cover with integrated service switch to simplify maintenance. To simplify the wiring process on site, the fans are also equipped with an external terminal box (**IP66**) with a 1 m long cable.

Impeller

TFS use backward curved **radial** impellers. These are made from lightweight, hard-wearing fiberglass reinforced **polyamide**, dynamically **balanced** and paired with corresponding external rotor motors.

Motor

Depending on type, **TFS** fans are equipped with **AC** or high efficient **EC** external rotor motors. All motors are suitable for **50Hz** and **60Hz**.

Motor protection

Fans with **AC** motors have **integrated** thermal protection with manual (electrical) reset.
Fans with **EC** motors have **integrated** electronic **thermal protection** including **locked-rotor protection** and **soft-start**.

Control

Fans with **EC motor** with **built-in potentiometer** to adjust working point can be also controlled by external **signal 0-10V.**
Fans with **AC motor** can be controlled by **5-step** or **stepless** speed regulator (accessory).
For **demand controlled** ventilation it can be combined with timer, thermostat, hygrostat, etc.

Mounting

The TFS must be installed on the roof in **horizontal or inclined** position. We recommend to install the fan together with a **roof curb** (available as an accessory).
TFSR delivered with **spigot** for the cases of direct connection to the circular duct. For cold climates we recommend continuous operation of the fan.

Technical parameters

Nominal data		
Voltage (nominal)	230	V
Frequency	50	Hz
Phases	1~	
Input power	337	W
Input power kW	0.337	kW
Input current	1.417	A
Impeller speed	2,440	rpm
Air flow	max 1,617	m³/h
Capacitance of capacitor	8	µF
Temperature of transported air	max 40	°C
Max temperature of transported air, when speed controlled	35	°C

Sound data		
Sound pressure level at 10m (free field)	49	dB(A)
Sound pressure level at 3m (free field)	59	dB(A)
Sound pressure level at 4m (free field)	57	dB(A)

Protection/Classification		
Enclosure class, motor	IP44	
Insulation class	F	

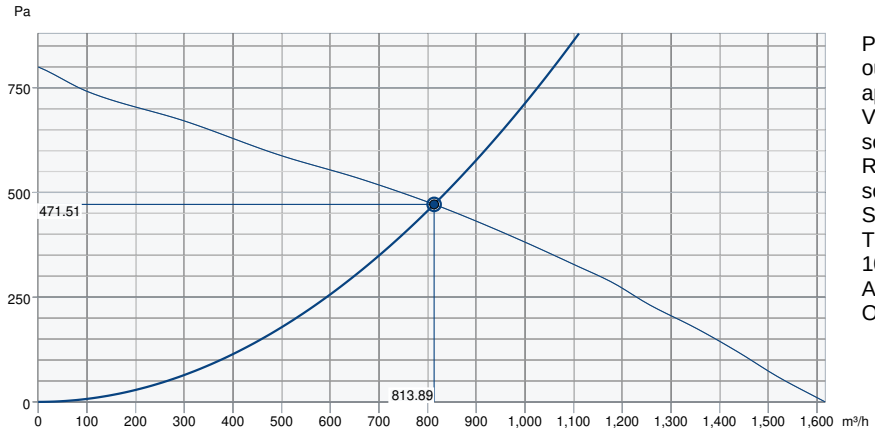
Data according to ErP		
ErP ready	Not ErP relevant	

Dimensions and weights		
Duct dimension; Circular, inlet	315	mm
Weight	9.1	kg

Others		
Duct connection type	Circular	
Color name, casing	Black	
Motor type	AC	

Performance

Performance curve



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The sound power level ratings shown are in decibels, referred to 10^{-12} watts, calculated per AMCA International Standard 301.
AMCA certified data is, Airflow, Static pressure, Power, Inlet sound, Outlet sound at 230V

Hydraulic data	
Required air flow	814 m³/h
Required static pressure	472 Pa
Working air flow	814 m³/h
Working static pressure	472 Pa
Air density	1.204 kg/m³
Power	323.9 W
Fan control - RPM	2,470 rpm
Current	1.37 A
SFP	1.433 kW/m³/s
Control voltage	230.0 V
Supply voltage	230 V

Sound power level		**63**	**125**	**250**	**500**	**1k**	**2k**	**4k**	**8k**	**Total**
Inlet	dB(A)	58	64	70	69	66	65	61	53	75
Outlet	dB(A)	63	64	75	74	74	72	64	57	80

Certifications

AMCA Worldwide Certified Ratings: Sound and Air Performance

Systemair certifies that the model TFSR 315L Black** - KSA 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.
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