

# Lindab AirMovement

Product Overview Fans



# Air movement solutions for any situation

## - Rectangular Duct Fans

Fans with rectangular duct connection that can attach directly onto a rectangular ducting system.

**Use:** Typically used in commercial or light industrial applications.

**Installation:** Mounted directly onto the duct system with different attachment accessories to choose from.

Can maximise airflow where duct height is restricted.

## -Roof Fans

Fans with rectangular or circular duct connection that are located on the roof of a building or plant room.

**Use:** Typically used in commercial or light industrial applications.

**Installation:** Mounted on a roof top on a number of different roof types and profiles.

Can be important when mechanical sound within a building is an issue.



## **Circular Duct Fans**

Fans with circular duct connection that can attach directly onto a circular ducting system.

**Use:** Typically used in commercial or light industrial applications.

**Installation:** Mounted directly onto the duct system with different attachment accessories to choose from.

Can maximise the tightness class enjoyed on circular duct systems.



## Axial Fans

Fans designed for high airflow with smaller pressure development needs.

Use: Typically used in industrial applications.

**Installation:** Mounted directly onto the duct system with different attachment accessories to choose from or in a free blowing application mounted directly onto a wall.

Can maximise airflow in low pressure development requirements.

## ATEX Rated Fans

Fans designed and certified to perform within a risk zone for the safe removal of potentially dangerous gases.

**Use:** Typically used in industrial applications.

**Installation:** Depending on the need or certification requirements, these fans can be mounted within a specified risk zone.

Can operate daily to ensure the safe removal of certified gases from the working area.

## - Domestic Fans

Fans with flexible installation options that may not require any ducting network.

**Use:** Typically used in light commercial or residential applications.

**Installation:** Depending on the function, these fans can be mounted directly onto a wall for maximum flexibility or into a small ducting network.

Can provide fresh air to inaccessible parts of the home, with very low installation costs.



## Smoke Evacuation Fans

Fans designed and certified to perform at a given temperature to safely remove smoke from within a fire zone.

Use: Typically used in commercial & industrial applications.

**Installation:** Depending on the need or certification requirements, these fans can be mounted in or outside a fire zone.

Can operate at a daily working temperate, and then in the event of a fire, can operate up to 400°C for 2 hours.



## Heat Recovery Units

Units to recover heat and humidity for optimized indoor air comfort.

**Use:** Typically used in commercial or residential applications.

**Installation:** Can be mounted in a ceiling void or cupboard providing installation flexibility.

Can reduce energy consumption. Ideal ventilation solutions for energy efficient buildings.

# Lindab Axial Fans - simple solutions

# Axial Grille Fascia AGF/ AGS

An axial fan with grille fascia to extract the air directly through the wall or ceiling with little or no duct run.

AGF model without shutter and AGS model with shutter have options for timer, humidity sensor and PIR sensor.

# Dimensions

Product	Ød mm	A mm	B mm	C mm	kg
AGF100	100	166	90	40	0.51
AGF125	125	186	96	40	0.68
AGF150	150	210	112	40	0.80
AGS100	100	166	90	30	0.65
AGS125	125	186	98	33	0.75
AGS150	150	210	115	34	1.02





# Technical data

#### **AGF/ AGS 100**



#### **AGF/ AGS 125**



#### **AGF/ AGS 150**



Product	Frequency Hz	Voltage V	Electric power input W	Current A	r.p.m.	Maximum air capacity m³/h	Sound pressure level** dB(A)	Max. Operating temp °C	SEC class	IP
AGF100	50	220-240	14	0.085	2300	98	34	+45	*	34
AGF125	50	220-240	16	0.100	2400	185	35	+45	*	34
AGF150	50	220-240	24	0.130	2400	295	39	+45	*	34
AGS100	50	220-240	18	1.085	2300	98	34	+45	*	24
AGS125	50	220-240	22	0.100	2400	185	35	+45	*	24
AGS150	50	220-240	26	0.130	2400	295	39	+45	*	24

\* : Regulation 1254/2014 does not apply if electric power input <30W, \*\*Sound pressure level at 3m

#### **Alternative Versions**

-B Standard

-T Automatic run on timer with setting of 2-30 minutes AGF-TH / AGS-BH / ASF-HT

Automatically starts the fan when humidity raises above the preset level. Settings available from 60%-90% RH. **Conform to European Directives** for safety and security:

2004/108/EC 2006/95/EC Declarations of conformity available on request Made of ABS material IP24/IP34 protection

# Axial Smooth Fascia ASF

An axial fan with smooth fascia to extract the air directly through the wall or ceiling with little or no duct run.

With options for timer and humidity sensor.

# Dimensions

Product	Ød mm	A mm	B mm	C mm	E mm	kg
ASF100	100	171	151	128	32	0.75
ASF125	125	201	178	136	35	0.98
ASF150	150	265	207	157	38	1.29





# Technical data



ASF 125



#### ASF 150



Product	Frequency Hz	Voltage V	Electric power input W	Current A	r.p.m.	Maximum air capacity m³/h	Sound pressure level** dB(A)	Max. Operating temp °C	SEC class	IP
ASF100	50	220-240	14	0.085	2300	98	33	+40	*	34
ASF125	50	220-240	16	0.100	2400	167	34	+40	*	34
ASF150	50	220-240	24	0.130	2400	265	37	+40	*	34

\* : Regulation 1254/2014 does not apply if electric power input <30W, \*\*Sound pressure level at 3m

# Lindab In-line Fans – high performance

# In-line Mixed Flow Plastic мгр-т

An in-line fan with wide capabilities and high performance combining the characteristics of axial and centrifugal fans and specially designed for supply and exhaust ventilation of premises requiring high pressure, powerful airflow and low noise level.

The removable impeller and motor block with a terminal box is fixed to the casing assembled with the spigots by means of special clamps with latches.

The fan can be controlled via a standard thyristor controller or can be set up with an automatic timer with settings of 2-30 minutes.



ØÞ

ØD

## Dimensions

Product	Ød mm	B mm	L mm	H mm	kg
MFPT100	97	196	303	226	1.75
MFPT125	123	196	259	226	2.15
MFPT150	148	220	289	247	2.30
MFPT200	199	239	296	261	3.95
MFPT250	247	287	383	323	7.80

# Technical data

			Elec power V	ctric r input V	Cur	rent A	r.p	Maximum air capacity r.p.m. m³/h		Sou pressure dB	ınd e level** (A)	Мах			
Product	Frequency Hz	Voltage V	High Speed	Low Speed	High Speed	Low Speed	High Speed	Low Speed	High Speed	Low Speed	High Speed	Low Speed	operating temp. °C	SEC class	IP
MFPT100	50/60	230	25	23	0.11	0.10	2620	2050	245	180	32	27	+60	С	X4
MFPT125	50/60	230	30	25	0.13	0.11	2300	1630	350	240	34	29	+60	В	X4
MFPT150	50/60	230	50	42	0.22	0.19	2620	1940	565	415	46	37	+60	В	X4
MFPT200	50/60	230	108	76	0.48	0.34	2380	1815	1040	830	52	45	+60	В	X4
MFPT250	50/60	230	177	125	0.79	0.54	2440	1955	1400	1110	55	47	+60	*	X4

\* : Regulation 1254/2014 does not apply if maximum air capapcity is <1000m<sup>2</sup>/h, \*\*Sound pressure level at 3m



#### Casing

Made of high quality and durable low-flammable polypropylene



#### **Conform to European Directives**

for safety and security: 2004/108/EC 2006/95/EC Declarations of conformity available on request













#### **MFPT200**





**MFPT125** 



	Sound-power	Octave-frequency band Hz																	
			Low Speed									Hig	jh Spe	eed					
Product	dB(A)	63	125	250	500	1k	2k	4k	8k	Total	63	125	250	500	1k	2k	4k	8k	Total
	to inlet	19	35	50	49	44	37	25	17	54	24	34	53	54	53	48	37	26	59
MFPT100	to outlet	17	34	50	49	43	36	24	17	53	23	33	52	52	52	47	37	26	57
	to environment	14	29	43	43	39	33	22	15	47	18	29	46	48	48	43	33	23	52
	to inlet	26	38	52	50	44	38	27	17	54	20	31	57	51	51	50	39	27	60
MFPT125	to outlet	25	37	51	49	43	38	28	18	54	20	31	56	51	51	49	39	26	59
	to environment	21	32	46	45	40	35	25	16	49	16	27	51	46	47	45	36	24	49
	to inlet	26	38	63	55	56	51	41	27	64	33	44	71	67	65	70	56	42	75
MFPT150	to outlet	25	37	62	54	55	50	40	27	64	32	43	70	65	64	70	54	42	74
	to environment	18	30	52	46	47	43	35	23	54	24	35	59	56	55	60	47	35	64
	to inlet	36	49	64	65	69	67	56	42	73	38	50	69	70	74	73	65	51	78
MFPT200	to outlet	35	47	63	64	67	66	56	42	71	36	49	68	69	72	72	63	49	77
	to environment	24	36	50	52	55	54	46	34	60	26	38	55	57	60	60	53	41	65
	to inlet	46	53	71	73	74	68	57	45	78	51	58	73	85	82	78	67	55	88
MFPT250	to outlet	45	52	71	73	73	68	56	44	78	50	57	72	84	81	77	66	54	87
	to environment	36	43	60	62	64	59	49	38	68	41	48	62	73	70	67	58	47	76

# Lindab In-line Fans – high performance

# In-line Centrifugal VKAP-LD

A circular duct fan which is ideal for the low cost supply or extraction of air in ventilation and air conditioning systems. These fans can be installed in any position and come complete with their own mounting bracket.

The cases are manufactured from galvanised steel and provide a high degree of air-tightness. The external rotor motors have built in thermal protection with manual reset and maintenance-free ball bearings.

Efficient backward curved impellers ensure both low sound levels and high performance. Not suitable for polluted air, aggressive atmospheres or explosive dust and gases.



# Dimensions

Product	Ød mm	ØD mm	B mm	C mm	E mm	kg
VKAP100LD	100	244	189	152	287	3.00
VKAP125LD	125	243	182	143	286	3.00
VKAP150LD	150	344	217	166	387	3.00
VKAP200LD	200	344	231	179	387	4.70
VKAP250LD	250	344	230	167	387	4.70
VKAP315LD	315	402	256	188	444	6.00





Product	Frequency Hz	Voltage V	Electric power input W	Current A	r.p.m.	Maximum air capacity m³/h	Max. Operating temp °C	Motor IP	Terminal box IP
VKAP100LD	50	230	74	0.31	2800	379	+40	44	54
VKAP125LD	50	230	77	0.32	2800	421	+40	44	54
VKAP150LD	50	230	105	0.44	2800	773	+40	44	54
VKAP200LD	50	230	135	0.56	2660	1007	+40	44	54
VKAP250LD	50	230	132	0.56	2460	967	+40	44	54
VKAP315LD	50	230	278	1.20	2762	1448	+40	44	54

#### Accessories available:

Electronic Speed Controllers Filter Cassettes Electric Heater Batteries Inline Attenuators Backdraught Shutters Fast Clamps Wall/ Roof Terminals



Conform to European Directives for safety and security:

2014/30/EU, 2006/42/EC, and 2006/95/EC

Declarations of conformity available on request











#### VKAP250LD





#### VKAP315LD



Air tox (mah)

	Sound-power level									
Product		105	250	500	ave-irequ	ency band		96	Total	
FIGURE	UD(A)	120	200	500	IK	21	41	OK	TOtal	
	to inlet	53	58	60	66	65	58	47	70	measured at
VKAP100LD	to outlet	54	60	61	67	66	58	48	71	257m3/h
	to environment	34	58	44	55	54	47	37	61	104Pa
	to inlet	50	54	63	65	64	56	47	69	measured at
VKAP125LD	to outlet	49	53	61	64	63	55	45	68	280m3/h
	to environment	28	29	45	53	52	44	35	56	104Pa
	to inlet	51	66	67	71	62	61	53	74	measured at
VKAP150LD	to outlet	52	67	68	72	64	63	50	75	595m3/h
	to environment	30	49	51	60	52	50	36	62	112Pa
	to inlet	53	60	66	69	66	65	63	73	measured at
VKAP200LD	to outlet	54	62	65	70	67	67	63	74	846m3/h
	to environment	25	35	46	53	55	47	45	58	123Pa
	to inlet	54	62	67	69	67	67	65	74	measured at
VKAP250LD	to outlet	55	63	66	70	68	67	67	75	810m3/h
	to environment	33	38	47	50	48	47	46	55	123Pa
	to inlet	50	59	67	68	66	65	64	73	measured at
VKAP315LD	to outlet	51	60	66	69	67	66	65	74	1080m3/h
to	to environment	33	38	45	48	47	45	43	53	149Pa

# Lindab Heat Recovery – energy saving

# Heat Recovery Unit хнво

A heat recovery unit suitable for commercial and residential applications especially to improve indoor air quality in health and leisure facilities or increase productivity in office and educational environments.

The slim unit provides flexible installation design and incorporates an innovative high efficiency counterflow heat exchanger and energy saving BLDC motor with quiet operation and easily maintained air filters to remove pollutants from incoming air.

The intelligent control system includes BMS facility, summer auto-bypass, independent fans speeds, as well as optional CO<sub>2</sub> control and heater battery additions.

## Dimensions

Product	L mm	L1 mm	W mm	W1 mm	W2 mm	H mm	H1 mm	C mm	G mm	ØN mm	kg
XHBQ250TPA	882	810	599	657	315	270	20	100	19	144	29
XHBQ350TPA	882	810	804	860	480	270	111	100	19	144	37
XHBQ500TPA	962	890	904	960	500	270	111	107	19	194	43
XHBQ650TPA	1222	1150	884	940	480	340	111	107	19	194	64
XHBQ800TPA	1322	1250	884	940	428	388	146	85	19	242	71
XHBQ1000TPA	1322	1250	1134	1190	678	388	170	85	19	242	83



XHBQ-D2.5TP~5TP



XHBQ-D6.5TP~10TP



#### **Intelligent Control Options**



BMS control, CO2 control, humidity control, auto-bypass, external demand control





Product	Rated air flow m³/h	Voltage V	Electric power input W	Rated E.S.P Pa	Noise Temperature Efficiency %
XHBQ250TPA	250	220	46	85	75-82
XHBQ350TPA	350	220	60	90	75-84
XHBQ500TPA	500	220	88	100	75-86
XHBQ650TPA	650	220	114	85	75-84
XHBQ800TPA	800	220	186	130	75-84
XHBQ1000TPA	1000	220	243	110	75-85

		Airflow	External	Noiso	Enthalpy Efficiency %	
Product		m³/h	Pa	dB(A)	Summer	Winter
XHBQ250TPA	Low	165	30	22	67	73
	Medium	250	70	26	63	70
	High	250	85	27	63	70
XHBQ350TPA	Low	270	36	25	67	72
	Medium	350	60	29	66	69
	High	350	90	31	66	69
XHBQ500TPA	Low	360	30	25	68	72
	Medium	500	60	31	62	67
	High	500	100	33	62	67
XHBQ650TPA	Low	515	25	30	64	70
	Medium	650	40	34	65	68
	High	650	70	35	62	68
XHBQ800TPA	Low	625	60	32	68	74
	Medium	800	98	36	65	71
	High	800	120	38	65	71
XHBQ1000TPA	Low	780	25	31	68	74
	Medium	1000	35	36	65	71
	High	1000	85	38	65	71

# Lindab **Controllers** – for speed controllable single phase motors

# Fan Speed Controller FSC

An electronic fan speed controller designed for speed controllable single phase motors. Provides 2 or 3 wire control as standard.

Electronic step-less speed control with minimum speed reset facility.

Compact and easy to install with single gang fascia and surface mounted back box.

Fitted with motor protection fuse with a spare fuse provided.



Product	Max. FLC Amps	Voltage V	Dimensions H x W x D mm	Weight kg	Noise Enclosure IP
FSC1.5	1.5	230	87 x 87 x 44	0.30	IPS1



Comply with EMC directives 89/336CEE and MODS

All models fitted with motor protection fuse

# Fan Speed Controller EFSC

A range of electronic fan speed controllers designed for speed controllable single phase motors. Provide 2 or 3 wire control as standard.

Electronic step-less speed control with minimum speed reset facility.

Compact and easy to install, 3 & 6 Amp models have double gang, aluminium fascia complete with PVC-u surface box, D/G mini trunking box and illuminated on/off switch. The 10 Amp model is housed in a robust die-cast enclosure.

All models are fitted with motor protection fuse with a spare fuse provided.



Product	Max. FLC Amps	Voltage V	Dimensions H x W x D mm	Weight kg	Noise Enclosure IP
EFSC3	3.0	230	95 x 155 x 50	0.30	IPS1
EFSC6	6.0	230	87 x 87 x 44	0.30	IPS1
EFSC10	10.0	230	87 x 87 x 44	0.30	IPS1

# Industry leading partners that you can trust



### Elta Fans

Elta Fans offer a comprehensive range of fans, air handling, heat recovery and air distribution products for commercial, industrial, residential and OEM applications.

All products comply with the latest industry standards and regulations and are designed with a vision for air quality. Quality, reliability, performance, function and safety are the cardinal features of Elta Fans products.



www.eltafans.com



### S&P Ventilation Systems

From contra-rotating cased axial fans for use in kitchen extract applications through to sophisticated supply air units with built-in heating coils and controls S&P fans are always built for reliability and compliance with regulations.

Silent in-line mixed flow fans provide excellent pressure performance within circular duct runs. They can be mounted behind false ceilings and are typically used in areas such as offices and meeting rooms that require very low noise levels.



www.solerpalau.co.uk

Being an independent fan distributer and stockist makes Lindab the ideal choice to be your first call for air movement systems.

Lindab are able to use our ventilation experience and expertise to select and supply products from industry leading manufacturers designing a truly bespoke solution to meet your needs precisely.



### Helios Ventilation Systems

Helios has a wide product range which extends from small mini fans to complete heat recovery and air handling systems for industrial, commercial, domestic and bespoke solutions offering air flows of more that 2.2million m<sup>3</sup>/hr.

Helios fans are used worldwide in ventilation, heating, cooling, climate and drying applications.



www.heliosfans.co.uk



### Vent Axia

Vent-Axia has an extensive range of commercial, industrial and residential products ranging from simple wall fans to large scale heat recovery.

Using the latest technology the products guarantee a healthy and comfortable indoor environment while complying with building regulations. The range of products are used within applications such as hotels, offices, retail, schools, pubs, residential and much more.



www.vent-axia.com

# Total package energy-efficient ventilation solutions

Lindab's solutions comprise all the parts needed to efficiently execute a project. You receive a complete combination of ventilation systems, products, knowledge and support – all in one package.

#### We simplify the construction of sustainable buildings

As your partner, we put together a solution that is tailored to meet your needs and those of the end user – while supporting you throughout the process. We help you to plan, dimension and optimise your project with our unique IT tools.

We provide complete documentation about your systems and industry-leading products. And you can draw on the knowledge we have amassed over years of developing ventilation solutions to meet tomorrow's needs.

This means you can carry out your project more efficiently, and offer your customers a sustainable indoor climate.

Read more at lindab.co. uk

#### **Smart Tools**

Specialist tools selected using our experience and expertise to make your job easier, faster and less demanding.

#### **Energy Optimising Solutions**

Innovative solutions for precise measuring using ultrasound technology. UltraLink, with or without VAV damper, eliminates all unnecessary energy use.







#### **Air Movement**

Fans and air handling units, both compact and modular, for different types of premises and demands.





#### **Indoor Climate Solutions**

Innovative solutions for precise measuring using ultrasound technology. UltraLink, with or without VAV damper, eliminates all unnecessary energy use.



#### **Air Duct Systems**

Comprehensive selection of duct systems for a wide range of applications including Lindab Safe with Eurovent certified air tightness class D.

#### **Acoustic Solutions**

Silencers for a quiet and comfortable indoor climate offering the perfect balance of size, energy consumption and sound reduction.



#### **Residential Ventilation**

Whole-house solutions for improved indoor quality in a domestic environment including MEV and MVHR systems designed by BPEC qualified engineers.





# Contact

Aberdeen Basildon Belfast Birmingham Bristol Cardiff Croydon Enfield Exeter Gateshead Glasgow High Wycombe Northfleet Leeds Leicester Lincoln Manchester Norwich Nottingham Sheffield Southampton Stoke-on-Trent	Tel: 01224 • 708582 Tel: 01268 • 532016 Tel: 028 • 9078 1607 Tel: 0121 • 552 6100 Tel: 0117 • 977 1345 Tel: 029 • 2079 4503 Tel: 020 • 8603 0850 Tel: 020 • 8805 3656 Tel: 01626 • 835032 Tel: 0191 • 482 5995 Tel: 0141 • 419 3800 Tel: 01474 • 579800 Tel: 01474 • 579800 Tel: 0113 • 297 1111 Tel: 016 • 255 6044 Tel: 01522 • 567087 Tel: 0161 • 876 0688 Tel: 01603 • 747532 Tel: 0115 • 985 1923 Tel: 0114 • 244 5444 Tel: 023 • 8026 2111 Tel: 01782 • 383460		Aberdee	en O	
		Belfast	Ma Stoke-on-Tren Birmingh Cardiff Exetér	Leeds nchester Lincoln Sheffield Nottingham Leicester NORTHAMPTON High Wycombe Enfield Bristol Southampton	Norwich Basildon





# Simplifying a digital future of construction

## IT Solutions for simplified construction

We know your time is costly which is why we have developed a number of innovative online tools, ensuring that you always have access to the information that you need:

- Duct calculations on your phone with Lindab Vent Tools
- Select products and find documentation with Lindab LindQST
- Select and size silencers with our selection software DimSilencer
- Draw and dimension ducting with the CADVent plug in for AutoCAD
- Place orders online 24/7 using the improved Lindab eshop





# Good Thinking

At Lindab, good thinking is a philosophy that guides us in everything we do. We have made it our mission to create a healthy indoor climate - and to simplify the construction of sustainable buildings. We do that by designing innovative products and solutions that are easy to use, as well as offering efficient availability and logistics. We are also working on ways to reduce our impact on our environment and climate. We do that by developing methods to produce our solutions using a minimum of energy and natural resources, and by reducing negative effects on the environment. We use steel in our products. It's one of few materials that can be recycled an infinite number of times without losing any of its properties. That means less carbon emissions in nature and less energy wasted.

We simplify construction

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