

# Monsoon Metal Cased Centrifugal Fans

- Available in sizes 100 to 315
- 200 and 250 sizes also available as high performance
- Motor Insulation Class B, protected to IP44
- Operating Temperatures from -25°C up to +60°C
- All units suitable for speed control
- Quality Assurance to BS EN ISO 9001:1994
- Performance tested to BS848 Part 1 1980
- 2 Year Warranty



CODE	DESCRIPTION
ILF100L	100mm In-line Fan (250m <sup>3</sup> /h)
ILF125L	125mm In-line Fan (330m <sup>3</sup> /h)
ILF150L	150mm In-line Fan (455m <sup>3</sup> /h)
ILF200L	200mm In-line Fan (1,000m <sup>3</sup> /h)
ILF250L	250mm In-line Fan (1,070m <sup>3</sup> /h)
ILF315L	315mm In-Line Fan (1,540m <sup>3</sup> /h)

The ILF in-line centrifugal duct fans are designed around an efficient backward curved centrifugal impeller and external rotor motor to ensure a compact design, high performance and low sound levels.

The in-line fan casing is constructed from pressed steel and incorporates an aerodynamically designed airflow guide vane, ensuring maximum performance from the unit whilst maintaining minimum noise levels. All models are supplied with a simple mounting foot for ease of installation.

The ILF range is available in eight model sizes: 100, 125, 150, 200, 250 & 315mm diameter as standard performance and sizes 200 and 250 also available as a high performance in-line centrifugal duct fan. The range provides a performance up to 0.372m<sup>3</sup>/s with a maximum pressure development of 500 Pa.

The ILF range is suitable for the extract of clean air only. It is not suitable for extracting or transporting grinding dust, soot, explosive or other aggressive gases etc.

### Impellers

The impellers are aerodynamically designed centrifugal backward curved type, manufactured by injection moulding of a polypropylene resin. The motor and impeller is factory matched, statically and dynamically balanced in two planes to ISO 1940, Grade G 6.3.

### Motors

All units are fitted with motors protected to IP44, insulation Class B and are suitable for temperatures ranging from -25°C to +60°C with humidity levels of up to 95% RH ensuring reliable operation. All sizes are for a 220V/1/50Hz electrical supply and incorporate a

manual reset thermal protection device.

### Terminal Box

An IP54 terminal box fitted to the casing with multiple cable entry positions.

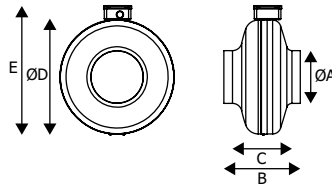
### Performance

The fan performance is in accordance with tests to BS848 Part 1 1980, with the fan sound levels measured in a reverberant chamber in accordance with BS848 Part 2 1985.

### Quality Assurance

Design and manufacture is in accordance with the standard for quality management systems BS EN ISO 9001:1994.

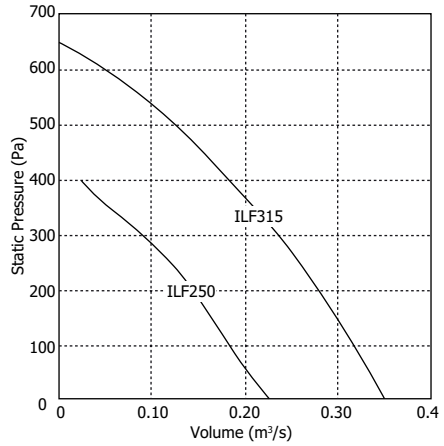
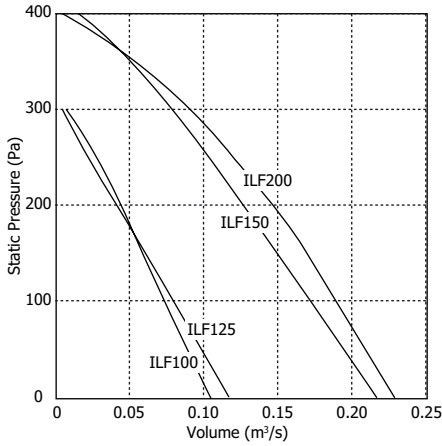
### Dimensions (mm)



CODE	ØA	B	C	ØD	E	KG
ILF100L	100	189	152	244	287	3
ILF125L	125	182	143	243	286	3
ILF150L	150	217	166	344	387	3
ILF200L	200	219	167	344	387	4
ILF250L	250	223	167	344	387	4
ILF315L	315	243	175	402	444	5.6

# Group B - Monsoon Commercial & Industrial Products

## Performance Guide



DIA.	MOTOR PHASE	CODE	R.P.M	IP RATING	MOTOR KW	F.L.C AMPS	DB(A) @ 3M
100	1	ILF100L	2800	IP44	0.07	0.31	26
125	1	ILF125L	2800	IP44	0.08	0.31	24
150	1	ILF150L	2800	IP44	0.1	0.44	35
200	1	ILF200L	2600	IP44	0.11	0.45	34
250	1	ILF250L	2600	IP44	0.11	0.45	31
315	1	ILF315L	2567	IP44	0.22	0.96	36

## Sound Power Level Spectra dB (ref 10<sup>-12</sup> Watts)

DIA.	MOTOR PHASE	CODE	SPECTRUM	125	250	500	1K	2K	4K	8K	DB(A) @ 3M
100	1	ILF100L	Inlet	53	58	60	66	65	58	47	49
100	1		Outlet	54	60	61	67	66	58	48	50
100	1		Breakout	34	58	44	55	54	47	37	39
125	1	ILF125L	Inlet	50	54	63	65	64	56	47	48
125	1		Outlet	49	53	61	64	63	55	45	47
125	1		Breakout	28	29	45	53	52	44	35	36
150	1	ILF150L	Inlet	51	66	67	71	62	61	53	52
150	1		Outlet	52	67	68	72	64	63	50	54
150	1		Breakout	30	49	51	60	52	50	36	41
200	1	ILF200L	Inlet	46	53	62	66	63	64	54	50
200	1		Outlet	45	54	61	68	64	65	53	51
200	1		Breakout	22	24	41	49	53	43	40	35
250	1	ILF250L	Inlet	41	52	61	66	66	64	56	51
250	1		Outlet	43	53	60	68	67	65	57	52
250	1		Breakout	24	30	38	48	47	45	40	32
315	1	ILF315L	Inlet	50	59	67	68	66	65	64	52
315	1		Outlet	51	60	66	69	67	66	65	53
315	1		Breakout	33	38	45	48	47	45	43	32