

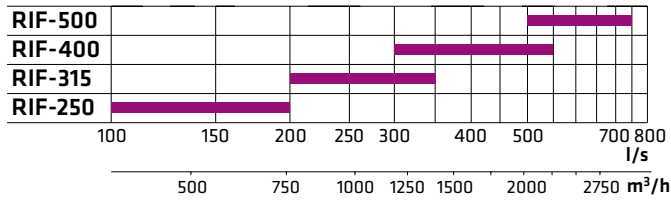
RIF



RIF is suitable for ventilation, heating and cooling in high spaces. The throw pattern is adjustable from horizontal to vertical by changing the vanes position, either manually (RIF) or with an actuator (RIF-M).

RIF - Adjustable twist-supply diffuser

Quick guide



Material and surface treatment

RIF is manufactured from sheet steel and as standard painted white RAL 9016.

Other colours from RAL K1 colour chart are available at additional costs.

Order key

Twist air diffuser RIF - 315 + PTR
1 2 3

1= diffuser type, RIF, RIF-M or RIF-M2

2= size, 250-500

3 = Accessorie: PTR

Quick facts

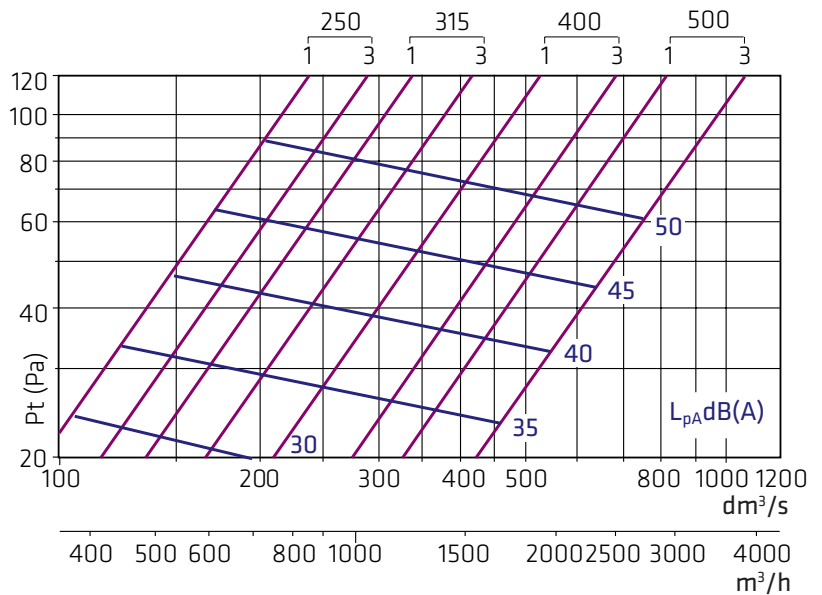
Installation level, m	min.	max.
Horizontal throw	3,5	8
Vertical throw		14
Heating temperature		
+ 5°C		8
+10°C		6

Performance

The graphs are not to be used for commissioning.

Airflow - pressure drop - sound level

The graphs show the values for both vertical (3) and horizontal (1) air flow throw pattern.



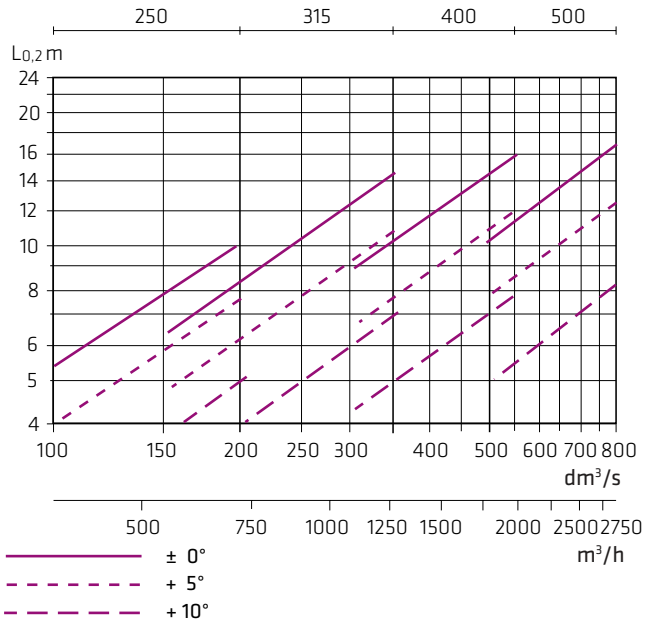
$$L_{w\text{okt}} = L_{pA10} + K$$

f, Hz	63	125	250	500	1k	2k	4k	8k
250 K, dB	5	10	9	3	1	-3	-8	-18
315 K, dB	6	12	11	4	1	-3	-8	-17
400 K, dB	10	13	11	4	3	-1	-9	-16
500 K, dB	11	13	11	3	4	-1	-9	-16

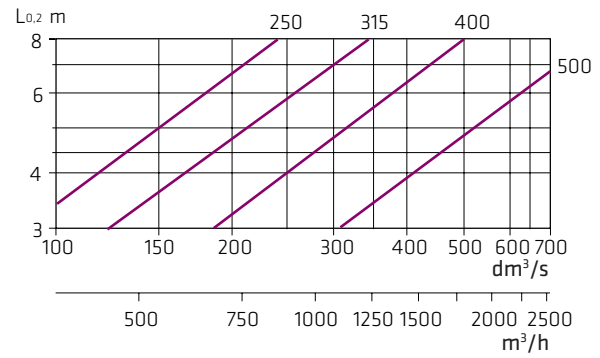
ΔL (dB)

f, Hz	63	125	250	500	1k	2k	4k	8k
250 ΔL, dB	13	11	5	2	2	1	3	3
315 ΔL, dB	15	10	4	1	1	1	3	3
400 ΔL, dB	11	8	3	1	0	2	4	4
500 ΔL, dB	9	7	3	1	0	2	4	5

Vertical throw pattern (3)

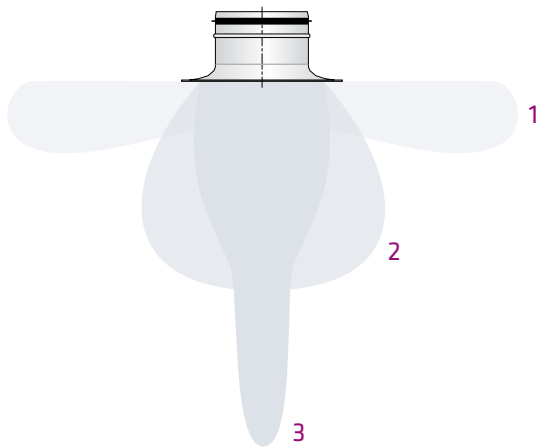


Horizontal throw pattern (1)



The throw length is increased by 20 % when the diffuser flange is installed against the ceiling.

Throw pattern



Adjustment of the throw pattern - RIF

Horizontal throw pattern (factory setting): 1

Vertical throw pattern: 2-3

Open the locking screw and turn the vanes that those will be overlapping.

NB! In RIF-M models, the position of the blade pairs is automatically adjusted as desired by the actuators.

1



2



3



Throw pattern adjustment – RIF-M

The actuator will adjust the throw pattern, controlled for e.g. by a room thermostat.

Two actuator alternatives

RIF-M1

The throw pattern of RIF-M1 is adjusted either horizontal or vertical. This is a good solution in, for example, heating or cooling environments in which the pattern needs to be adjusted to suit forced-air heating or cooling.

RIF-M1 is ideal for sports halls where badminton or other games are played within the same space.

LM230AF


Circuit diagram

Note!

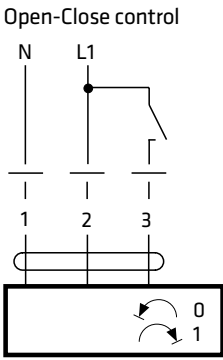
- Warning: 100-240 V voltage!
- Other actuators may be coupled in parallel. Note their power requirements.

Power consumption

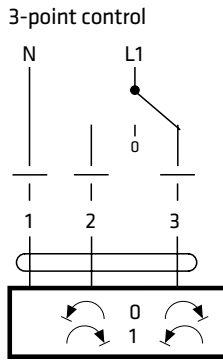
In operation	1.5 W @ nominal torque
At rest	0.4 W
For wire sizing	3.5 VA

Blow direction 

Open-Close control



3-point control



RIF-M2

The throw pattern of RIF-M2 can be steplessly adjusted as desired by the actuator. This is an ideal solution for rooms where the throw pattern needs to be optimised for preventing a feeling of draught.

LM24-SR-F

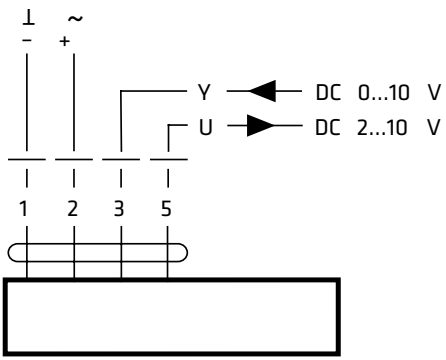
Circuit diagram

Note!

- Connect through a protective transformer.
- Other actuators may be coupled in parallel. Note their power requirements.

Power consumption

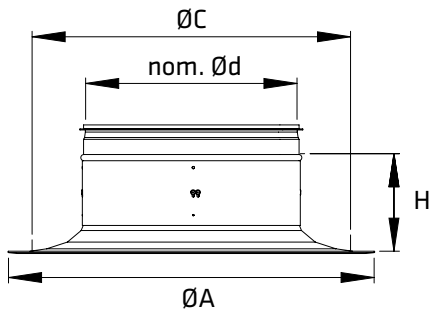
In operation	1 W @ nominal torque
At rest	0.4 W
For wire sizing	2 VA



Dimensioning

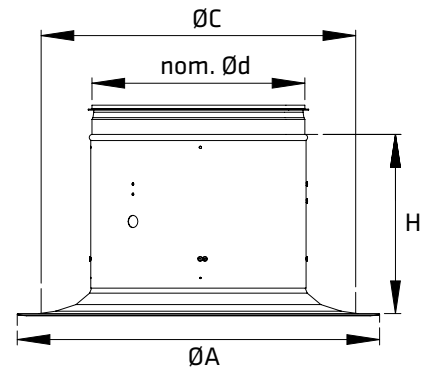
The graphs are not intended for adjustment.

RIF



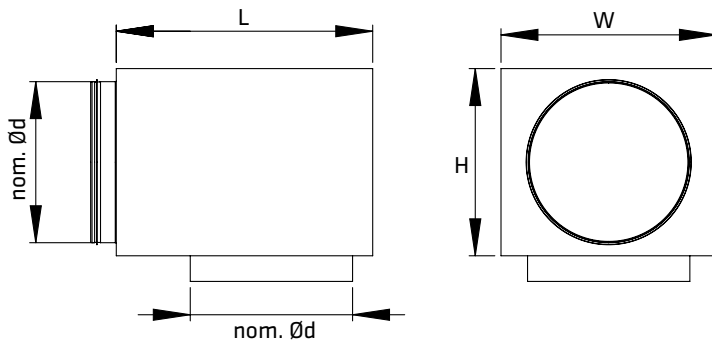
	nom. Ød	ØA	ØC	H	kg
RIF-250	250	468	400	185	3,0
RIF-315	315	533	460	160	5,0
RIF-400	400	618	550	175	6,0
RIF-500	500	716	650	175	7,0

RIF-M



	nom. Ød	ØA	ØC	H	kg
RIF-M1-250	250	468	400	315	4,0
RIF-M1-315	315	533	460	265	6,0
RIF-M1-400	400	618	550	295	7,0
RIF-M1-500	500	716	650	320	8,0
RIF-M2-250	250	468	400	315	4,0
RIF-M2-315	315	533	460	265	6,0
RIF-M2-400	400	618	550	295	7,0
RIF-M2-500	500	716	650	320	8,0

PTR



	nom. Ød	L	H	W
PTR-250	250	400	300	350
PTR-315	315	500	365	420
PTR-400	400	600	450	500
PTR-500	500	700	550	600

Installation options

