CHELYS

MIXFLOW, POLYPROPYLENE CASING AND IMPELLER

MANUFACTURING FEATURES:

• In-line mixed-flow fan in plastic casing.
• Casing made of high quality durable ABS plastic (CHELYS 100-200) or fire resistant polypropylene (CHELYS 250-315). Model 125S is provided with a stronger motor.
• Motor with impeller and terminal box fixed on the casing by means of special clamps with latches, designed to be easily dismounted without tools.
• Single phase motor, 2 speeds, with ball bearings. Standard voltages 230V 50Hz and 60 Hz. IPX4 protection.
• The CHELYS range is designed to allow the installation or dismantling of the fans without any duct manipulation.

APPLICATIONS

Designed for inline installation, they are suitable for:
• Air renewal in bathrooms and small closed environments.
• Maximum working temperature: 50 ºC.

AVAILABLE ON REQUEST:
• Timer
• Special 60Hz versions under request

Accessories

INT 3V

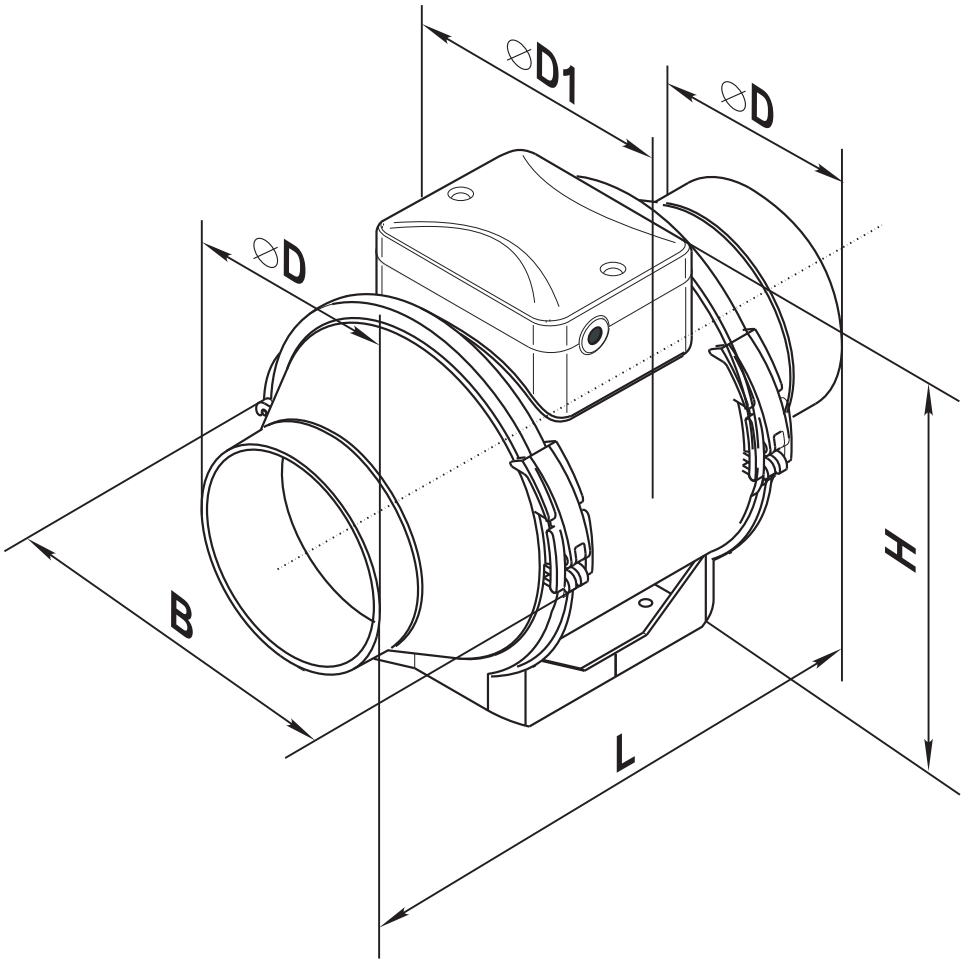
Technical data

2 SPEED MOTOR

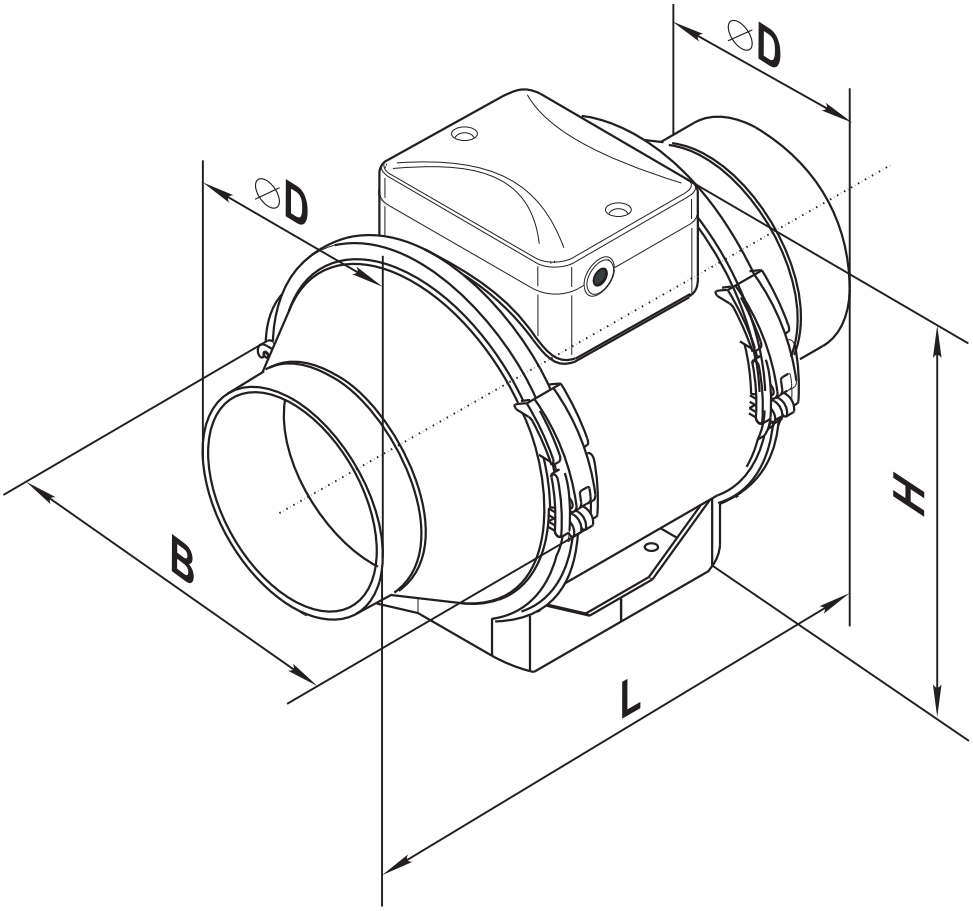
Code	Model	R.P.M.	Rated I. (A) 230V	Rated power kW	Max. Airflow m3/h	Sound db (A)*	Weight	Connect. diagram
507901000	CHELYS 100	2385	0.11/0.21	0.021/0.033	190	24	1,40	1
507901200	CHELYS 125	2455	0.18/0.27	0.023/0.037	280	25	1,40	1
507901250	CHELYS 125S	2510	0.12/0.16	0.028/0.054	320	27	3	2
507901500	CHELYS 150	2460	0.17/0.27	0.03/0.06	520	34	3	2
507901600	CHELYS 160	2460	0.17/0.27	0.03/0.06	520	34	3	2
507902000	CHELYS 200	2380	0.34/0.48	0.076/0.108	1.040	34	3,95	2
507902500	CHELYS 250	2440	0.54/0.79	0.125/0.177	1.400	37	7,80	2
507903150	CHELYS 315	2430	1/1.42	0.23/0.32	2.050	48	11,95	2

Notes:
* Total sound pressure level at the point of maximum flow measured in dB(A) in the suction measured in free field at a distance of 6m from the source

Dimensions



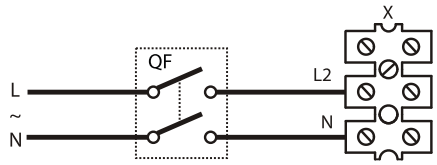
Model	B	H	L	ØD	ØD1
CHELYS 100	167	190	246	96	140
CHELYS 125	167	190	246	123	140
CHELYS 125S	223	250	295	123	195
CHELYS 150	223	250	295	146	195
CHELYS 160	233	250	295	158	195



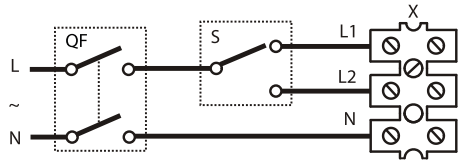
Model	B	H	L	ØD
CHELYS 200	239	261	295,5	199
CHELYS 250	287	323	383	247
CHELYS 315	362	408	445	310

Wiring diagram

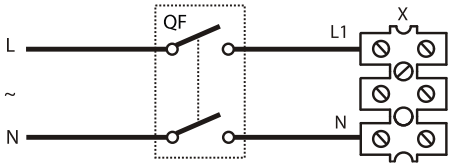
DIAGRAM Nº 1



MAX

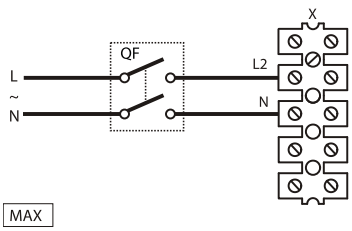


MAX / MIN

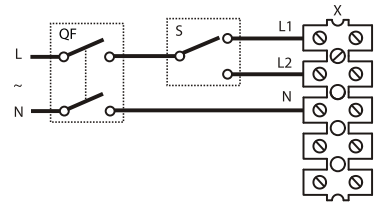


MIN

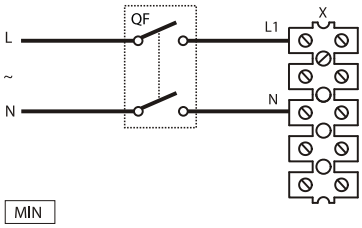
DIAGRAM Nº 2



MAX



MAX / MIN

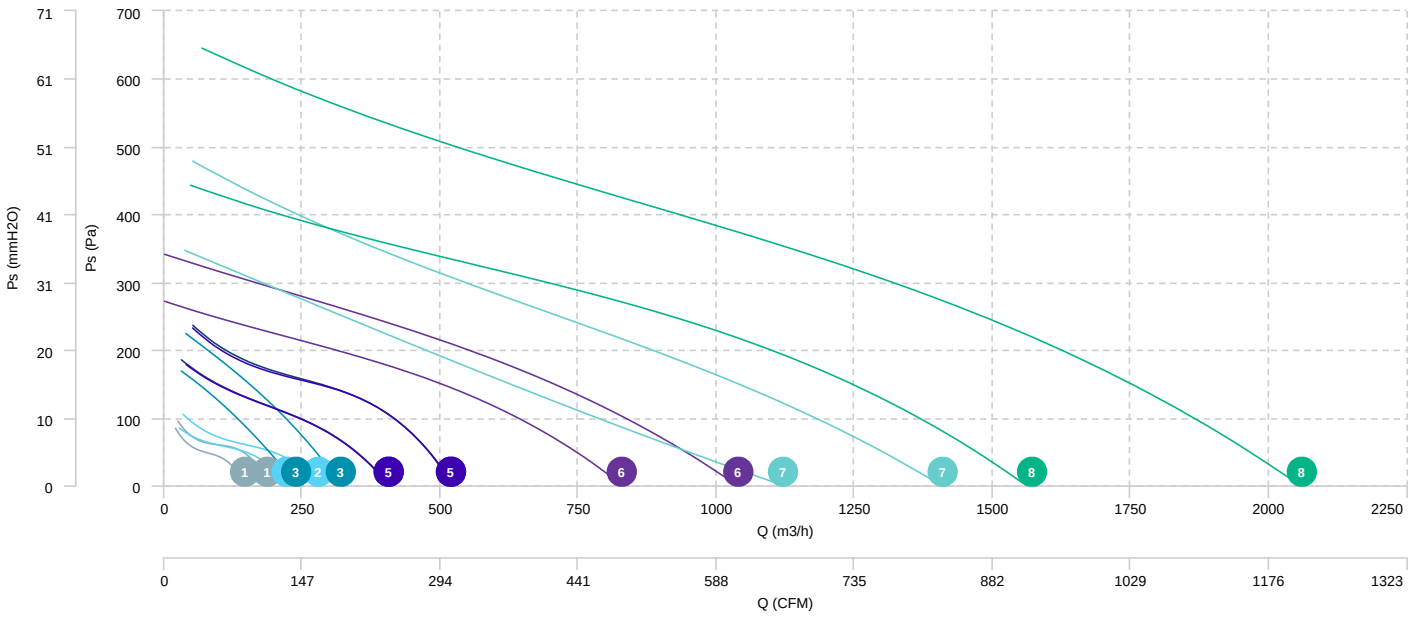


MIN

CHARACTERISCTIC CURVE

1	CHELYS 100	2	CHELYS 125	3	CHELYS 125S	4	CHELYS 150
5	CHELYS 160	6	CHELYS 200	7	CHELYS 250	8	CHELYS 315

AIR FLOW - PRESSURE



Sound data

Sound power Lw dB (A)										
Model		**63 Hz**	**125 Hz**	**250 Hz**	**500 Hz**	**1000 Hz**	**2000 Hz**	**4000 Hz**	**8000 Hz**	**Total**
CHELYS 100 (2385 RPM)	Inlet	26	23	41	46	50	47	41	31	53
	Outlet	27	27	43	47	50	42	42	29	54
	Radiated	23	22	26	34	39	29	29	19	41
CHELYS 125 (2455 RPM)	Inlet	28	27	45	52	54	55	43	35	57
	Outlet	28	32	47	50	54	53	47	36	59
	Radiated	23	27	31	36	44	37	31	22	43
CHELYS 125S (2510 RPM)	Inlet	31	34	49	51	57	60	46	38	60
	Outlet	36	32	51	52	58	56	48	37	61
	Radiated	27	29	36	41	46	37	33	28	50
CHELYS 150 (2460 RPM)	Inlet	38	40	57	60	58	69	55	45	69
	Outlet	42	44	58	61	62	64	55	45	68
	Radiated	36	37	41	46	52	49	39	24	53
CHELYS 160 (2460 RPM)	Inlet	38	40	57	60	58	69	55	45	69
	Outlet	42	44	58	61	62	64	55	45	68
	Radiated	36	37	41	46	52	49	39	24	53
CHELYS 200 (2380 RPM)	Inlet	41	41	50	59	59	66	56	47	65
	Outlet	43	48	50	57	59	62	57	46	66
	Radiated	37	37	33	45	50	45	41	28	52
CHELYS 250 (1955 RPM)	Inlet	42	49	58	65	64	70	57	49	73
	Outlet	47	49	59	65	67	68	60	51	71
	Radiated	41	45	42	53	55	51	45	30	60
CHELYS 315 (1890 RPM)	Inlet	46	49	59	67	70	71	59	51	74
	Outlet	50	51	61	68	70	70	60	51	74
	Radiated	44	46	45	55	60	53	48	33	63

Notes:

* To calculate the sound power level at different rpm from those indicated above, use the following formula:

$$\text{Lw dB(A)}_{\text{rpmA}} = \text{Lw dB(A)}_{\text{rpmB}} + 52.5 \cdot \log_{10} \frac{\text{rpmA}}{\text{rpmB}}$$