Centrifugal roof fan

Tower-H

Air capacity — up to 4700 m³/h

Use

- Exhaust ventilation systems installed in various premises.
- Roof mounting.
- For any types of roofs or vertical ventilation shafts.

Design

- Steel casing with a special polymer atmospheric resistant coating.
- Horizontal air exhaust.
- The fan is equipped with a terminal block for connection to power mains.
- The fan is rated for continuous operation.
- Impeller with a protecting insect screen.
- The upper cover is equipped with two eye bolts for easy fan lifting on the roof with hoisting mechanism.
- A connecting plate with an intake opening is designed to facilitate mounting to the roof surface.

Motor

- Two-, four- or six-pole asynchronous motor with external rotor and centrifugal impeller with backward curved blades.
- Single-phase (**E**) or three-phase (**D**) motor modifications.
- Dynamically balanced turbine.
- Equipped with ball bearings for longer service life.
- Overheating protection by built-in thermal switches with leaded outside terminals for connection to external protecting controls.
- The thermal switch terminal leads are designed for connection to respective circuit of the overload relay or respective terminals of the autotransformer or thyristor speed controller.

Speed control

- Smooth or step speed control with a thyristor or transformer speed controller (available upon order).

Mounting

- Roof mounting directly above a ventilation shaft or air duct.
- The fan is connected to the air duct with the intake flange that is fixed to the fan base.
- The fan base has holes for fixing bolts that attach the fan to the stable level surface or a roof frame.
- Roof frame and intake flange available on separate order.
- Power is supplied through an external terminal box.

Specifications

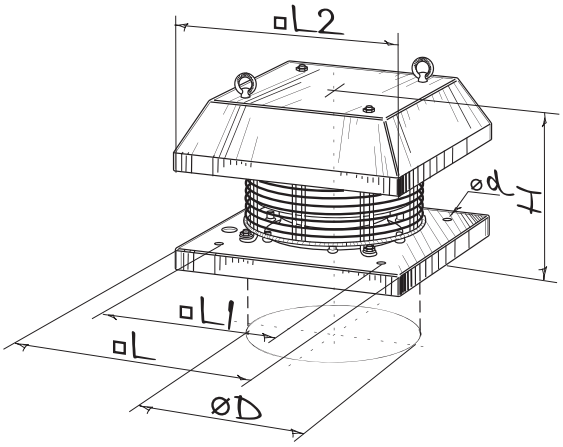
Parameters	**Tower-V 220 2E**	**Tower-V 225 2E**	**Tower-V 250 2E**	**Tower-V 280 2E**
Voltage [V / 50 Hz]	230	230	230	230
Power [W]	85	135	155	225
Current [A]	0,38	0,6	0,7	1,0
Maximum air capacity [m^3/h]	700	900	1300	1780
RPM [min^{-1}]	2700	2650	2600	2700
Sound pressure level at 3 m distance [dBA]	49	49	65	66
Max. operating temperature [°C]	55	55	50	50
Ingress protection rating	IP X4	IP X4	IP X4	IP X4

Specifications

Parameters	Tower-H 310 4E	Tower-H 310 4D	Tower-H 355 4E	Tower-H 355 4D
Voltage [V / 50 Hz]	230	400	230	400
Power [W]	120	110	245	170
Current [A]	0,54	0,32	1,12	0,52
Maximum air capacity [m^3/h]	1820	1950	2800	2350
RPM [min^{-1}]	1370	1400	1420	1400
Sound pressure level at 3 m distance [dBA]	45	53	46	53
Max. operating temperature [°C]	85	65	50	70
Ingress protection rating	IP X4	IP X4	IP X4	IP X4

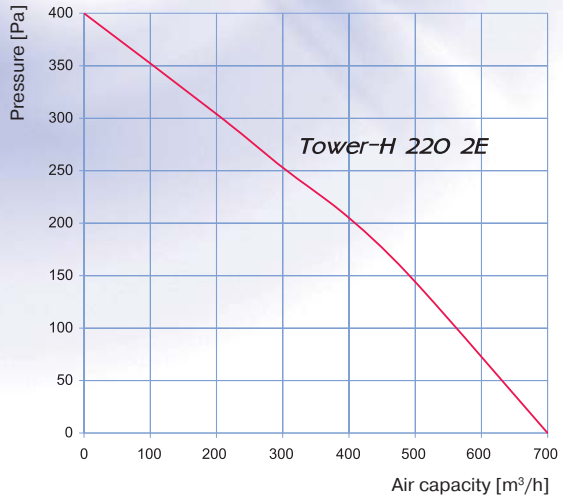
Parameters	Tower-H 400 4E	Tower-H 400 4D	Tower-H 450 4E	Tower-H 450 4D	Tower-H 500 6E
Voltage [V / 50 Hz]	230	400 Y	230	400 Y	230
Power [W]	480	385	640	470	385
Current [A]	2,4	0,7	3,1	0,82	1,82
Maximum air capacity [m^3/h]	3400	3800	3850	4300	4700
RPM [min^{-1}]	1400	1430	1350	1430	880
Sound pressure level at 3 m distance [dBA]	52	52	53	53	47
Max. operating temperature [°C]	80	60	50	50	50
Ingress protection rating	IP X4	IP X4	IP X4	IP X4	IP X4

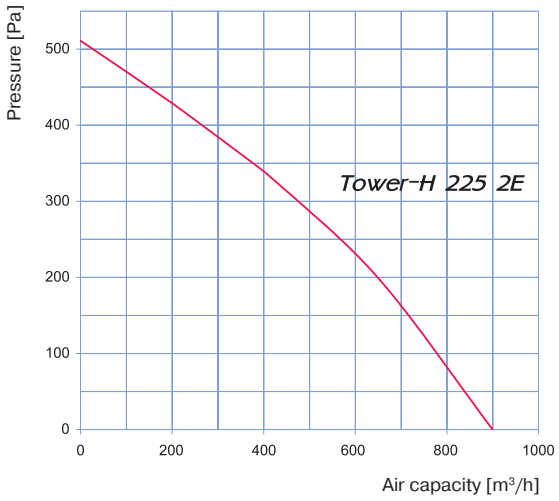
Overall dimensions

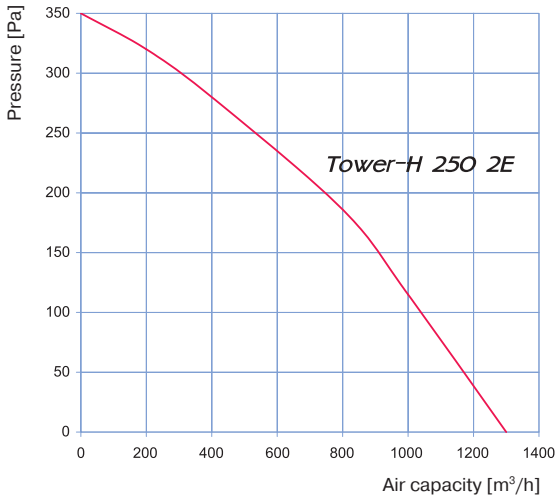


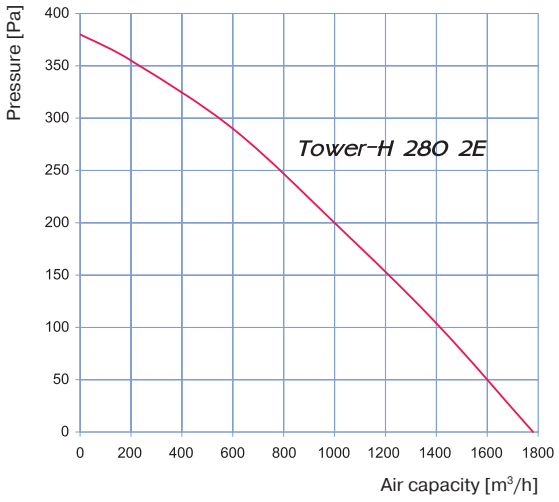
Type	Dimensions [mm]						Weight [kg]
	øD	ød	H	L	L1	L2	
Tower-H 220 2E	245	10	228	338	245	338	6,9
Tower-H 225 2E	210	10	228	338	245	338	7,1
Tower-H 250 2E	286	10	265	400	330	365	10,1
Tower-H 280 2E	286	10	265	400	330	365	10,2
Tower-H 310 4E	286	10	300	438	330	400	10,2
Tower-H 310 4D	286	10	300	438	330	400	10,2
Tower-H 355 4E	438	12	348	598	450	550	15,6
Tower-H 355 4D	438	12	325	598	450	550	15,6
Tower-H 400 4E	438	12	348	598	450	550	21,0
Tower-H 450 4E	438	12	400	668	450	640	22,7
Tower-H 400 4D	438	12	348	598	450	550	22,0
Tower-H 450 4D	438	12	400	668	450	640	22,7
Tower-H 500 6E	438	12	465	668	450	640	26,6

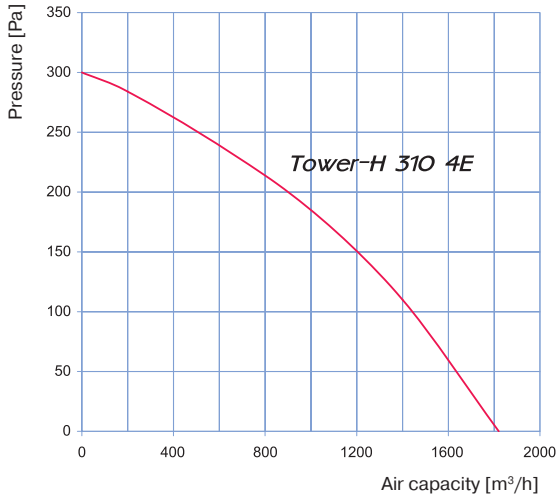
Specifications

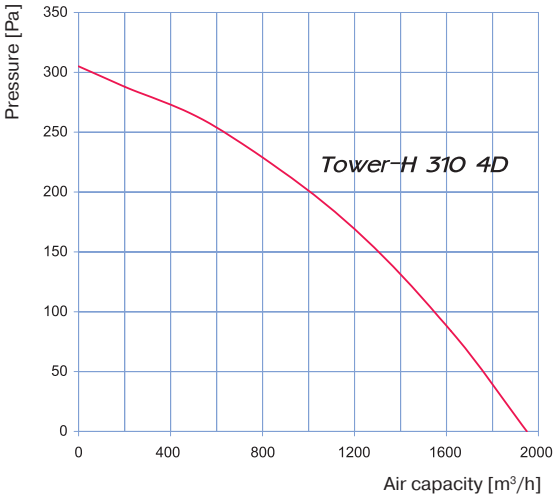












Specifications