

Centrifugal fans Helix

Air capacity – up to 2000 m³/h





He

- Supply and exhaust ventilation systems installed in various premises.
- Suitable for use as ventilation or air conditioning system components.
- Compatible with round and rectangular air ducts.

Design

- ☐ Compact scroll casing is made of steel and is covered with a special polymer coating.
- ☐ The fan is equipped with a round intake flange and exhaust rectangular flange for connection to respective air ducts.
- External terminal block for power supply.
- ☐ The fans are equipped with fixing brackets to facilitate fastening at any level surface.

Motor

- ☐ Two- or four-pole asynchronous motor with external rotor and centrifugal impeller with forward curved blades.
- Equipped with ball bearings for longer service life.
- Integrated thermal protection with automatic restart.
- Dynamically balanced turbine.

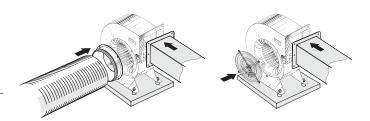
Speed control

☐ Smooth speed control with an external thyristor controller or step speed control with an external auto transformer (both available upon separate order).

Mounting

- ☐ The fan is designed for installation as a single unit or as a component unit of ventilation chambers or air conditioning units.
- ☐ The fan has a connection possibility for two air ducts, a rectangular discharge air duct through the flange on the casing as well as a round intake air duct through the connecting flange **FRZ-H**. Available upon separate order.

☐ In case of rectangular discharge air duct connection a discharge vent must be covered with the **SG-H** grille to protect the fan from foreign object ingress. Available upon separate order.



☐ The vibration isolators, either of rubber type **SI-G** are recommended for noise and vibration attenuation.

Vibration isolators reduce dynamic loads on the fan, enhance reliability and durability of the ventilation equipment. The vibration isolators are attached through holes in the mounting pad. Available upon separate order.



☐ Power is supplied to the fan through an external terminal box with sealed electric lead-in.

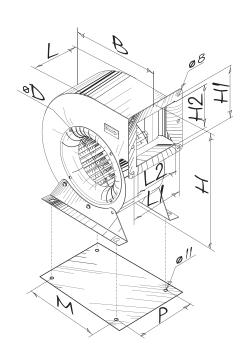


Selection table for accessories: ___

Туре	Rubber anti-vibration mounts	Flange	Grille
Helix 140x60 2E		FRZ-H 140	SG-H 140
Helix 160x62 2E		FRZ-H 160	SG-H 160
Helix 160x90 2E	CL C 0	FRZ-H 100	3G-H 100
Helix 180x92 4E	SI-G 8	FRZ-H 180	SG-H 180
Helix 200x80 4E		ED7 11 000	00 11 000
Helix 200x102 4E		FRZ-H 200	SG-H 200
Helix 225x102 4E		FRZ-H 225	SG-H 225
Helix 250x102 4E	SI-G 16	EDZ 11.050	CC 11.0E0
Helix 250x140 4E		FRZ-H 250	SG-H 250

Overall dimensions _

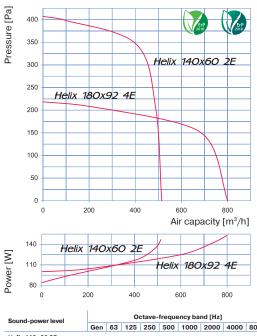
Turno	Type Dimensions [mm]										Woight [kg]
Туре	ØD	В	Н	H1	H2	L	L1	L2	Р	М	Weight [kg]
Helix 140x60 2E	140	243	287	125	93	85	107	75	_	_	3.2
Helix 160x62 2E	160	277	324	136	106	89	112	82	_	-	4.2
Helix 160x90 2E	160	277	324	136	106	136	158	127	_	_	5.1
Helix 180x92 4E	180	311	360	150	120	145	166	137	_	_	6.5
Helix 200x80 4E	200	335	398	165	134	121	140	113	_	_	6.8
Helix 200x102 4E	200	335	398	165	134	157	175	148	_	_	7.3
Helix 225x102 4E	225	365	441	210	171	145	170	137	178	250	11.2
Helix 250x102 4E	250	410	485	230	191	165	190	157	198	270	16.3
Helix 250x140 4E	250	410	485	230	191	205	230	197	238	270	15.5



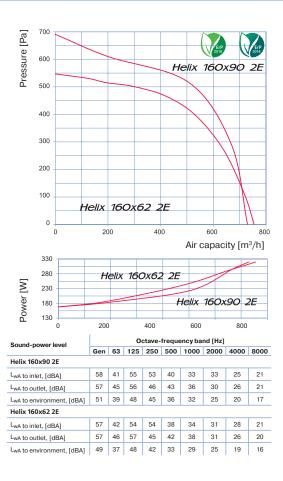
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Specifications

Parameters	Helix 140x60 2E	Helix 160x62 2E	Helix 160x90 2E	Helix 180x92 4E	Helix 200x80 4E	Helix 200x102 4E	Helix 225x102 4E	Helix 250x102 4E	Helix 250x140 4E
Voltage [V / 50 Hz]	230	230	230	230	230	230	230	230	230
Power [W]	148	320	320	160	125	280	395	810	570
Current [A]	0.64	1.48	1.48	0.7	0.55	1.25	1.98	3.65	2.48
Maximum air capacity [m³/h]	515	755	730	800	730	1350	1480	2000	2000
RPM [min ⁻¹]	2820	2630	2745	1465	1430	1475	1330	1330	1310
Sound pressure level at 3 m distance [dBA]	68	70	70	62	63	65	69	63	60
Max. operating temperature [°C]	-25 +45	-25 +50	-25 +45	-25 +45	-25 +45	-25 +40	-40 +70	-40 +70	-40 +70
SEC class		С		Е	3	-	-	-	-
Ingress protection rating	IPX4	IPX4	IPX4	IPX4	IPX4	IPX4	IPX4	IPX4	IPX4

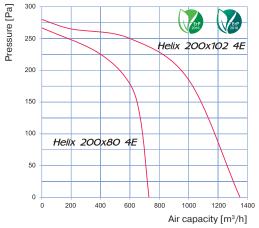


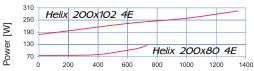
Sound-power level	Octave-frequency band [Hz]									
dound ponter level	Gen	63	125	250	500	1000	2000	4000	8000	
Helix 140x60 2E										
LwA to inlet, [dBA]	60	44	51	50	37	33	31	27	17	
LwA to outlet, [dBA]	58	45	53	44	43	38	31	26	19	
LwA to environment, [dBA]	50	41	48	44	35	31	24	20	15	
Helix 180x92 4E										
L _{wA} to inlet, [dBA]	56	43	54	52	38	34	30	29	17	
LwA to outlet, [dBA]	56	46	55	45	42	35	30	27	21	
LwA to environment, [dBA]	52	39	47	46	35	28	24	18	17	



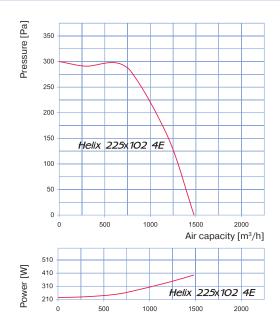


Specifications





Sound-power level	Octave-frequency band [Hz]										
Country power love.	Gen	63	125	250	500	1000	2000	4000	8000		
Helix 200x102 4E											
L _{wA} to inlet, [dBA]	41	37	38	37	30	26	19	17	14		
LwA to outlet, [dBA]	42	40	41	36	36	25	16	17	18		
L _{wA} to environment, [dBA]	37	32	35	29	26	20	16	11	11		
Helix 200x80 4E											
LwA to inlet, [dBA]	41	38	39	34	31	29	20	18	13		
LwA to outlet, [dBA]	44	40	40	36	34	25	20	16	17		
L _{wA} to environment, [dBA]	37	33	37	30	25	21	16	13	13		



Sound-power level	Octave-frequency band [Hz]											
Country position to to.	Gen	63	125	250	500	1000	2000	4000	8000			
LwA to inlet, [dBA]	39	37	38	38	31	28	21	17	15			
LwA to outlet, [dBA]	44	37	41	38	34	27	16	17	19			
L _{wA} to environment, [dBA]	37	31	33	31	25	20	17	13	11			

