

AGRI HXP EC

EC Agricultural Plate Fan

ELTA



AGRI HXP EC

Product Overview

The Elta HXP EC Plate Fan features the our high-efficiency impeller coupled with an aluminium framed, permanent magnet, electronically commutated motor. The HXP EC's futuristic fan design, construction and finish provide a durable and weatherproofed product, that combined with a lightweight and IE6 efficiency level motor ensures a future-proofed solution.

Designed to provide a durable and weatherproofed fan for British farming, the Elta HXP EC Plate Fan features a powder-coated Zintec steel fan plate that incorporates a pressed inlet which provides extra rigidity, smoother airflow and enhanced performance characteristics.

Its aluminium framed, permanent magnet, electronically commutated motor reaches IE6 levels of efficiency, the highest available in the market, which offers 20% fewer losses than IE5 according to the standard IEC TS 60034-30-2 for variable speed electric motors.

- 9 standard sizes from 250mm to 710mm
- Air volume flow rates up to 4.79m³/s
- Static pressures up to 401 Pa
- Aluminium frame, Permanent Magnet,
- Electronically Commutated Motor
- Highly efficient, lightweight induction motors
- Also available in AC
- Fully speed controllable
- Electronically Commutated Motor
Voltage: 220 to 277
- VAC input Frequency: 50/60 Hz



AGRI HXP EC

Performance, SFP & Electrical Data

Single Phase 220V to 277V / 50Hz or 60Hz

Model Number	Control Voltage (V)	Speed (r/min)	Airflow SFP	Airflow m³/s @ Static Pressure Pa											Overall Eff (%)	FMEG	Peak		dBA @ 3m	
				0	25	50	75	100	150	200	250	300	350	400			kW	Amps		
HXP250-1EC	10	1815	m³/s	0.327	0.295	0.261	0.209	-	-	-	-	-	-	-	28.3	<125W	0.087	0.84	Inlet	-
			W/(L/s)	0.23	0.28	0.32	0.41	-	-	-	-	-	-	-					Outlet	-
	8	1410	m³/s	0.253	0.210	-	-	-	-	-	-	-	-	-			0.048	0.50	Inlet	-
			W/(L/s)	0.18	0.22	-	-	-	-	-	-	-	-	-					Outlet	-
	5	795	m³/s	0.138	-	-	-	-	-	-	-	-	-	-			0.017	0.20	Inlet	-
			W/(L/s)	0.12	-	-	-	-	-	-	-	-	-	-					Outlet	-
	2	285	m³/s	0.049	-	-	-	-	-	-	-	-	-	-			0.008	0.11	Inlet	-
			W/(L/s)	0.16	-	-	-	-	-	-	-	-	-	-					Outlet	-
HXP315-1EC	10	1815	m³/s	0.731	0.691	0.644	0.588	0.521	-	-	-	-	-	-	36.6	47.3	0.208	1.96	Inlet	56
			W/(L/s)	0.25	0.28	0.31	0.34	0.40	-	-	-	-	-	-					Outlet	56
	8	1410	m³/s	0.561	0.505	0.430	-	-	-	-	-	-	-	-			0.101	1.05	Inlet	49
			W/(L/s)	0.17	0.19	0.23	-	-	-	-	-	-	-	-					Outlet	49
	5	805	m³/s	0.319	-	-	-	-	-	-	-	-	-	-			0.029	0.32	Inlet	45
			W/(L/s)	0.09	-	-	-	-	-	-	-	-	-	-					Outlet	47
	2	290	m³/s	0.107	-	-	-	-	-	-	-	-	-	-			0.007	0.11	Inlet	20*
			W/(L/s)	0.07	-	-	-	-	-	-	-	-	-	-					Outlet	20
HXP350-1EC	10	1810	m³/s	1.095	1.038	0.974	0.900	0.815	-	-	-	-	-	-	37.9	47.5	0.306	2.93	Inlet	56
			W/(L/s)	0.26	0.28	0.30	0.33	0.36	-	-	-	-	-	-					Outlet	55
	8	1410	m³/s	0.849	0.771	0.678	0.556	-	-	-	-	-	-	-			0.149	1.53	Inlet	52
			W/(L/s)	0.16	0.19	0.22	0.27	-	-	-	-	-	-	-					Outlet	50
	5	805	m³/s	0.478	0.318	-	-	-	-	-	-	-	-	-			0.037	0.42	Inlet	41
			W/(L/s)	0.07	0.12	-	-	-	-	-	-	-	-	-					Outlet	39
	2	290	m³/s	0.167	-	-	-	-	-	-	-	-	-	-			0.008	0.12	Inlet	26
			W/(L/s)	0.05	-	-	-	-	-	-	-	-	-	-					Outlet	24
HXP400-1EC	10	1815	m³/s	1.640	1.569	1.500	1.431	1.359	1.187	-	-	-	-	-	44.2	52.4	0.512	4.75	Inlet	61
			W/(L/s)	0.28	0.29	0.31	0.34	0.37	0.44	-	-	-	-	-					Outlet	59
	8	1405	m³/s	1.265	1.183	1.092	0.984	0.838	-	-	-	-	-	-			0.252	2.46	Inlet	55
			W/(L/s)	0.18	0.20	0.22	0.25	0.30	-	-	-	-	-	-					Outlet	52
	5	805	m³/s	0.722	0.554	-	-	-	-	-	-	-	-	-			0.059	0.65	Inlet	43
			W/(L/s)	0.08	0.11	-	-	-	-	-	-	-	-	-					Outlet	39
	2	290	m³/s	0.248	-	-	-	-	-	-	-	-	-	-			0.010	0.14	Inlet	25
			W/(L/s)	0.04	-	-	-	-	-	-	-	-	-	-					Outlet	27
HXP450-1EC	10	1815	m³/s	2.291	2.225	2.155	2.080	1.999	1.809	1.555	-	-	-	-	48.4	55.2	0.807	7.26	Inlet	61
			W/(L/s)	0.31	0.33	0.36	0.38	0.40	0.46	0.53	-	-	-	-					Outlet	59
	8	1405	m³/s	1.779	1.686	1.581	1.465	1.338	-	-	-	-	-	-			0.390	3.74	Inlet	55
			W/(L/s)	0.20	0.21	0.24	0.26	0.29	-	-	-	-	-	-					Outlet	52
	5	805	m³/s	1.011	0.835	-	-	-	-	-	-	-	-	-			0.98	0.98	Inlet	43
			W/(L/s)	0.08	0.10	-	-	-	-	-	-	-	-	-					Outlet	39
	2	290	m³/s	0.350	-	-	-	-	-	-	-	-	-	-			0.17	0.17	Inlet	25
			W/(L/s)	0.03	-	-	-	-	-	-	-	-	-	-					Outlet	27

Overall static efficiency, r/min and FMEG values are per ISO 12759. Installation Category A.

For ErP compliance, the protective element of grid mounted motors shall be removed for the purpose of the performance measurement in this standard, FprEN 17166 201901
Data provided is at standard air density of 1.2 kg/m³.

A variable speed drive is integrated within the fan. Peak Amps @ 230V / 1PH / 50Hz.

The overall A-weighted sound pressure level is at a distance of 3m with spherical free-field propagation. It is expressed in dB re-20µPa and is presented for comparative purposes only.

Fan performance is measured with the protective element (Guard)

* Sound levels are below our 20bB(A) laboratory measuring threshold.

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Performance, SFP & Electrical Data

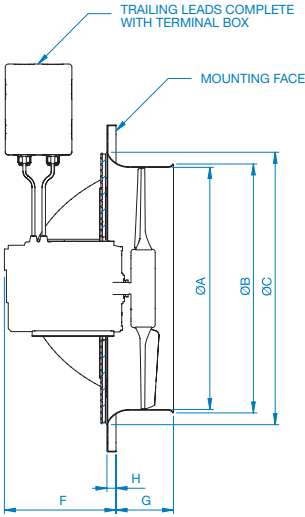
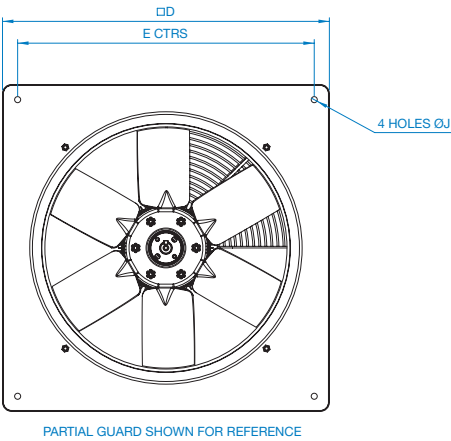
Single Phase 220V to 277V / 50Hz or 60Hz

Model Number	Control Voltage (V)	Speed (r/min)	Airflow SFP	Airflow m³/s @ Static Pressure Pa											Overall Eff (%)	FMEG	Peak		dBA @ 3m	
				0	25	50	75	100	150	200	250	300	350	400			kW	Amps		
HXP500-1EC	10	1815	m³/s	2.874	2.797	2.718	2.636	2.548	2.352	2.087	-	-	-	-	46.5	52.2	1.168	9.95	Inlet	65
			W/(L/s)	0.37	0.39	0.41	0.43	0.45	0.50	0.57	-	-	-	-					Outlet	64
	8	1405	m³/s	2.236	2.145	2.041	1.919	1.769	-	-	-	-	-	0.562			5.42	Inlet	54	
			W/(L/s)	0.23	0.25	0.27	0.29	0.32	-	-	-	-	-					-	Outlet	53
	5	805	m³/s	1.273	1.094	-	-	-	-	-	-	-	-	-			0.120	1.27	Inlet	43
			W/(L/s)	0.09	0.11	-	-	-	-	-	-	-	-	-					Outlet	42
	2	290	m³/s	0.441	-	-	-	-	-	-	-	-	-	-			0.013	0.18	Inlet	20*
			W/(L/s)	0.03	-	-	-	-	-	-	-	-	-	-					Outlet	20*
HXP560-1EC	10	1810	m³/s	3.389	3.306	3.217	3.124	3.023	2.794	2.498	1.929	-	-	-	51.6	57.2	1.259	9.61	Inlet	66
			W/(L/s)	0.32	0.34	0.36	0.38	0.40	0.45	0.51	0.63	-	-	-					Outlet	65
	8	1405	m³/s	2.635	2.523	2.402	2.268	2.114	1.617	-	-	-	-	-			0.605	5.73	Inlet	60
			W/(L/s)	0.20	0.22	0.23	0.26	0.28	0.37	-	-	-	-	-					Outlet	59
	5	805	m³/s	1.498	1.287	0.913	-	-	-	-	-	-	-	-			0.127	1.65	Inlet	46
			W/(L/s)	0.08	0.10	0.14	-	-	-	-	-	-	-	-					Outlet	45
	2	290	m³/s	0.528	-	-	-	-	-	-	-	-	-	-			0.013	0.18	Inlet	20*
			W/(L/s)	0.02	-	-	-	-	-	-	-	-	-	-					Outlet	20*
HXP630-1EC	10	1800	m³/s	4.161	4.057	3.950	3.838	3.723	3.473	3.191	2.848	2.344	-	-	58.3	63.8	1.341	10.45	Inlet	66
			W/(L/s)	0.22	0.24	0.26	0.28	0.30	0.35	0.40	0.47	0.57	-	-					Outlet	69
	8	1415	m³/s	3.283	3.143	3.003	2.857	2.700	2.309	1.435	-	-	-	-			0.656	5.38	Inlet	64
			W/(L/s)	0.14	0.16	0.18	0.20	0.22	0.28	0.43	-	-	-	-					Outlet	62
	5	805	m³/s	1.843	1.600	1.266	-	-	-	-	-	-	-	-			0.136	1.26	Inlet	50
			W/(L/s)	0.05	0.08	0.11	-	-	-	-	-	-	-	-					Outlet	49
	2	250	m³/s	0.542	-	-	-	-	-	-	-	-	-	-			0.012	0.15	Inlet	33
			W/(L/s)	0.02	-	-	-	-	-	-	-	-	-	-					Outlet	32
HXP710-1EC	10	1555	m³/s	4.798	4.642	4.485	4.323	4.151	3.754	3.231	2.568	1.964	1.462	0.922	51.6	57.1	1.364	9.98	Inlet	71
			W/(L/s)	0.22	0.23	0.25	0.27	0.29	0.34	0.42	0.54	0.71	0.95	1.53					Outlet	71
	8	1240	m³/s	3.609	3.430	3.216	2.952	2.624	1.826	1.078	0.403	-	-	-			0.623	5.40	Inlet	66
			W/(L/s)	0.13	0.15	0.17	0.20	0.23	0.34	0.59	1.70	-	-	-					Outlet	66
	5	720	m³/s	2.079	1.695	1.070	0.416	-	-	-	-	-	-	-			0.140	1.35	Inlet	53
			W/(L/s)	0.05	0.08	0.13	0.36	-	-	-	-	-	-	-					Outlet	52
	2	200	m³/s	0.549	-	-	-	-	-	-	-	-	-	-			0.011	0.15	Inlet	32
			W/(L/s)	0.02	-	-	-	-	-	-	-	-	-	-					Outlet	32

AGRI HXP EC

Dimensional Data

Model Number	A	B	C	D	E	F	G	H	J	Weight (kg)
HXP250-1EC	250	261	275	370	320	197	75	15	7	15
HXP315-1EC	315	326	360	430	380	201	75	15	10	15
HXP350-1EC	350	361	395	485	435	194	75	15	10	15
HXP400-1EC	400	411	450	540	490	170	95	15	10	19
HXP450-1EC	450	461	500	575	535	198	95	15	10	19
HXP500-1EC	500	512	560	655	655	231	100	15	10	20
HXP560-1EC	560	577	620	725	670	247	100	15	10	2-
HXP630-1EC	630	647	700	805	750	251	105	20	10	22
HXP710-1EC	710	725	765	850	810	241	103	27	10	30



Dimensions are in mm.

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Accessories

Model Number	EC Electronic Controller	Impeller Side Guard	Louvre Shutter	Wall Cowl	Wiring Diagram
HXP250-1EC	149-POT-10	078-0250-C	064-0250-C	SWC25/31	152-711
HXP315-1EC	149-POT-10	078-0315-C	064-0315-C	SWC25/31	152-711
HXP350-1EC	149-POT-10	078-0350-C	064-0350-C	SWC35/40	152-711
HXP400-1EC	149-POT-10	078-0400-C	064-0400-C	SWC35/40	152-711
HXP450-1EC	149-POT-10	078-0450-C	064-0450-C	SWC45/50	152-711
HXP500-1EC	149-POT-10	078-0500-C	064-0500-C	SWC45/50	152-711
HXP560-1EC	149-POT-10	078-0560-C	064-0560-C	SWC56/63	152-711
HXP630-1EC	149-POT-10	078-0630-C	064-0630-C	SWC56/63	152-711
HXP710-1EC	149-POT-10	078-0710-C	064-0710-C	-	152-711

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Notes

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