

OWNER'S MANUAL

ERP INFORMATION

Thank you very much for purchasing our air conditioner,
Before using your air conditioner , please read this manual carefully and keep it for future reference.

⚠ CAUTION

The manual is applicable for the cooling&heating and cooling only main unit. The cooling&heating indoor unit is applicable for the cooling&heating and the cooling only main unit; the heating capacity of the indoor unit will be effective only when the indoor unit connect to the cooling&heating main unit.

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ErP Information

Fan Types	Axial fan		
Directive (or Standard) for Regulation	ErP Directive 2009/125/EC COMMISSION REGULATION(EU) 2024/1834		
Model Name	ZKSN-560-10-1L+ZL-750*210*20-4	Rev.	
Prepare by			

Specified Information of Fan:

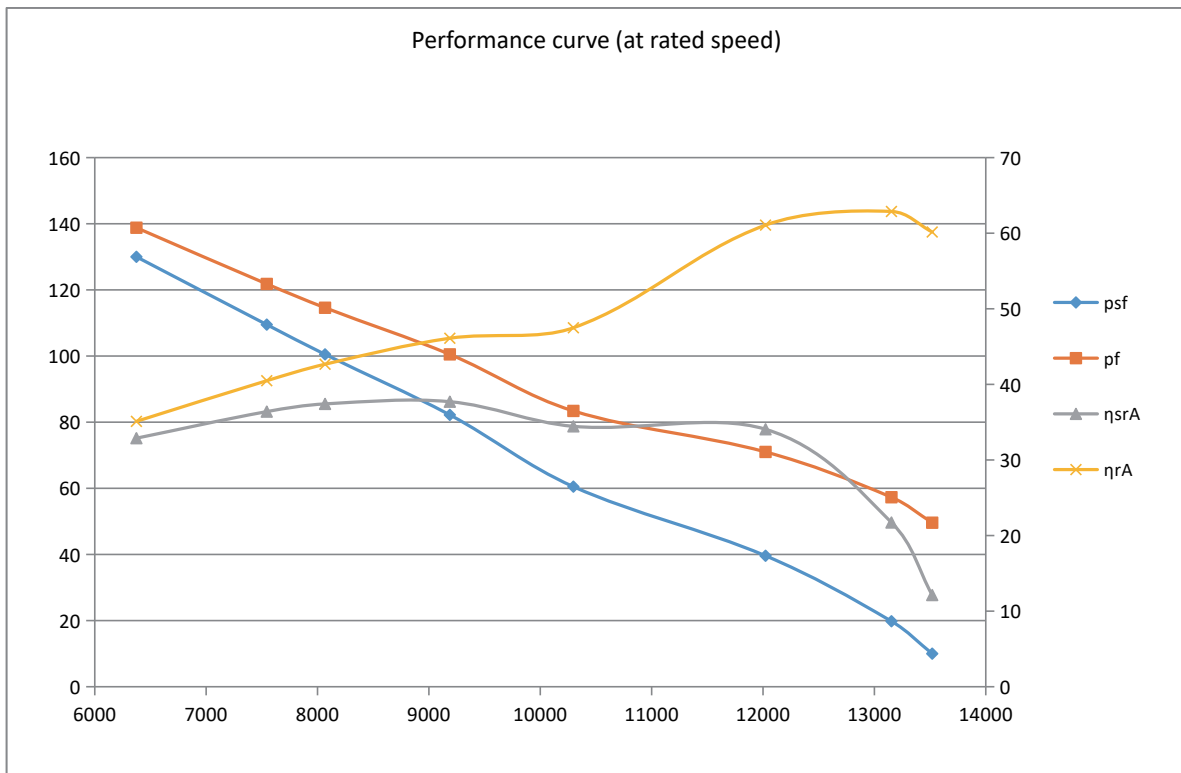
No.	Information Item	Comment
1	$\eta_{\text{target}} =$	37.3%
2	Overall efficiency (η_e) =	37.7%
3	Pass or not (Criteria: $\eta_e \geq \eta_{\text{target}}$)	Pass
4	Measurement category (A-D)	A
5	Efficiency category (static or total)	Static
6	Efficiency grade at optimum energy efficiency point	N =50.4
7	VSD is integrated within the fan	No
8	Year of Manufacture	Ref. to the Unit Nameplate
9	Manufacturer's name and place of manufacture	Ref. to the Unit Nameplate
10	The electric input power P_e at BEP	0.614 kW
11	The volume flow rate q_v at BEP	2.55m ³ /s
12	The applicable pressure difference Δp at BEP	82 Pa
13	Fan speed in revolutions per minute at BEP	700 rpm
14	Specific ratio	1.00
15	Information relevant for facilitating disassembly, recycling or disposal at end-of-life	all materials can be recycled
16	Information relevant to minimize impact on the environment and ensure optimal life expectancy as regards installation, use and maintenance of the fan	For installation, the clearance of 1000 mm shall be kept from inlet
17	Description of additional items used when determining the fan energy efficiency, such as ducts, that are not described in the measurement category and not supplied with the fan.	Measurement category A, fan is free inlet and outlet conditions
18	Motor manufacturer	Jiangsu Shanqi Group Co.,Ltd
19	DC voltage lower than 100 V	No

ErP Information

LIST of all significant elements supplied with the fan	
Motor manufacturer: JIANGSU SHANGQI GROUP CO.,Ltd	

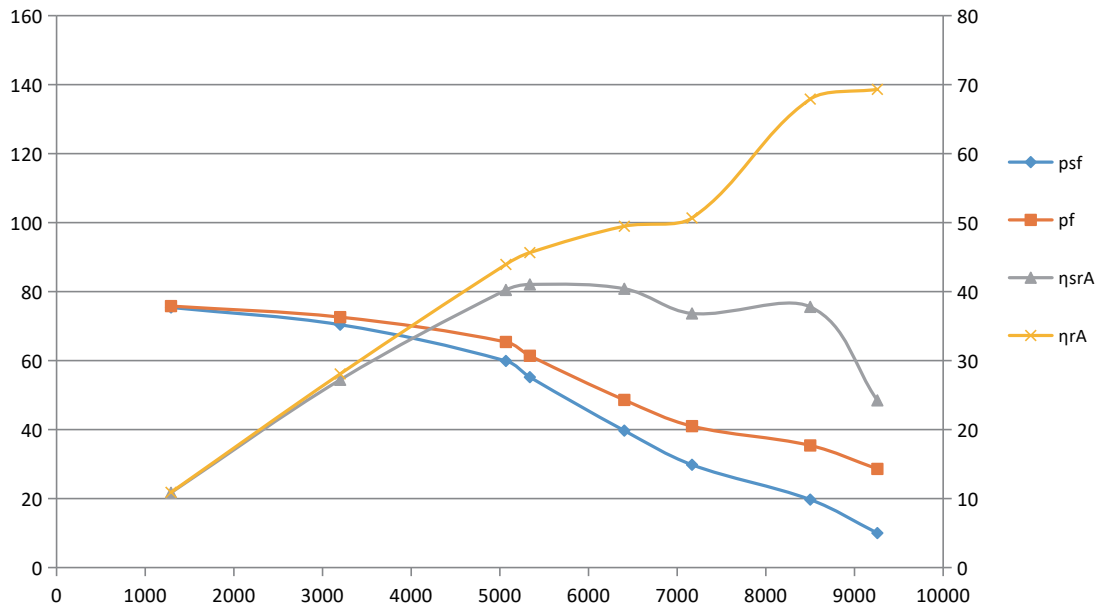
No.	Subcomponent	Model number
1	Electric motor	ZKSN-560-10-1L
2	Stator	Φ173*33
3	Motor impeller	ZL-750*210*20-4
4	Motor mounting assembly	MDV-252(8)W/D2SN1-9U4.12
5	Fan outlet guard	MDV-900(32)W/D2SN1-8X3-16
6	Variable speed drive	IPM-PSS10S72FT/PIN29

Fan performance curve and parameters:



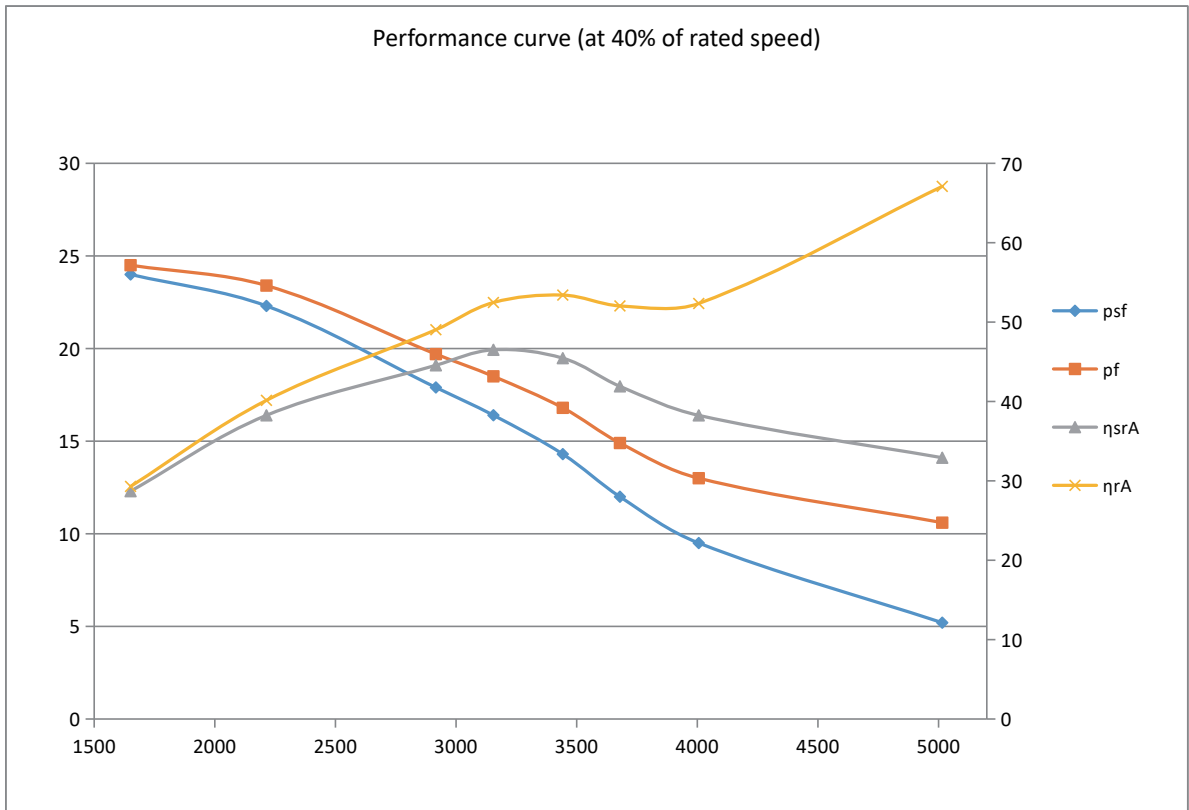
Contents		Performance Parameters(at rated speed)							
		The values for the individual test points							
		1	2	3	4	5	6	7	8
Volume air flow rate (m ³ /h)	q_v	13519	13153	12023	10297	9188	8068	7544	6374
Fan static pressure (Pa)	p_{sf}	10.0	19.8	39.6	60.5	82.2	100.5	109.5	130.0
Fan pressure (Pa)	p_f	49.6	57.3	71.0	83.4	100.5	114.6	121.8	138.8
Electric input power of fan (W)	P_e	352	377	436	557	614	662	692	765
Rotational speed (rpm)	--	700	700	700	700	700	700	700	700
Fan efficiency (%)	η_{rA}	60.2	62.9	61.1	47.5	46.1	42.7	40.5	35.1
Fan static efficiency (%)	η_{srA}	12.1	21.7	34.1	34.4	37.7	37.4	36.4	32.9

Performance curve (at 70% of rated speed)



Performance Parameters(at rated speed)

Contents		The values for the individual test points							
		1	2	3	4	5	6	7	8
Volume air flow rate (m³/h)	q_v	9258	8501	7167	6404	5338	5068	3199	1291
Fan static pressure (Pa)	p_{sf}	10.0	19.7	29.8	39.7	55.2	59.9	70.4	75.4
Fan pressure (Pa)	p_f	28.6	35.4	41.0	48.6	61.4	65.4	72.6	75.8
Electric input power of fan (W)	P_e	130	149	191	206	233	244	266	287
Rotational speed (rpm)	--	490	490	490	490	490	490	490	490
Fan efficiency (%)	η_{rA}	69.3	67.9	50.7	49.5	45.6	43.9	28.1	10.9
Fan static efficiency (%)	η_{srA}	24.2	37.8	36.8	40.4	41.0	40.2	27.2	10.8



Contents		Performance Parameters(at rated speed)							
		The values for the individual test points							
		1	2	3	4	5	6	7	8
Volume air flow rate (m ³ /h)	q _v	5015	4006	3679	3442	3155	2916	2214	1651
Fan static pressure (Pa)	p _{Sf}	5.2	9.5	12.0	14.3	16.4	17.9	22.3	24.0
Fan pressure (Pa)	p _f	10.6	13.0	14.9	16.8	18.5	19.7	23.4	24.5
Electric input power of fan (W)	P _e	32	39	41	42	43	45	49	52
Rotational speed (rpm)	--	280	280	280	280	280	280	280	280
Fan efficiency (%)	η _{rA}	67.1	52.3	52.0	53.4	52.5	49.0	40.1	29.3
Fan static efficiency (%)	η _{srA}	32.9	38.3	41.9	45.5	46.5	44.6	38.3	28.7

ErP Information

Fan Types	Axial fan		
Directive (or Standard) for Regulation	ErP Directive 2009/125/EC COMMISSION REGULATION(EU) 2024/1834		
Model Name	ZKSN-560-10-1L+ZL-750*210*20-4	Rev.	
Prepare by			

Specified Information of Fan:

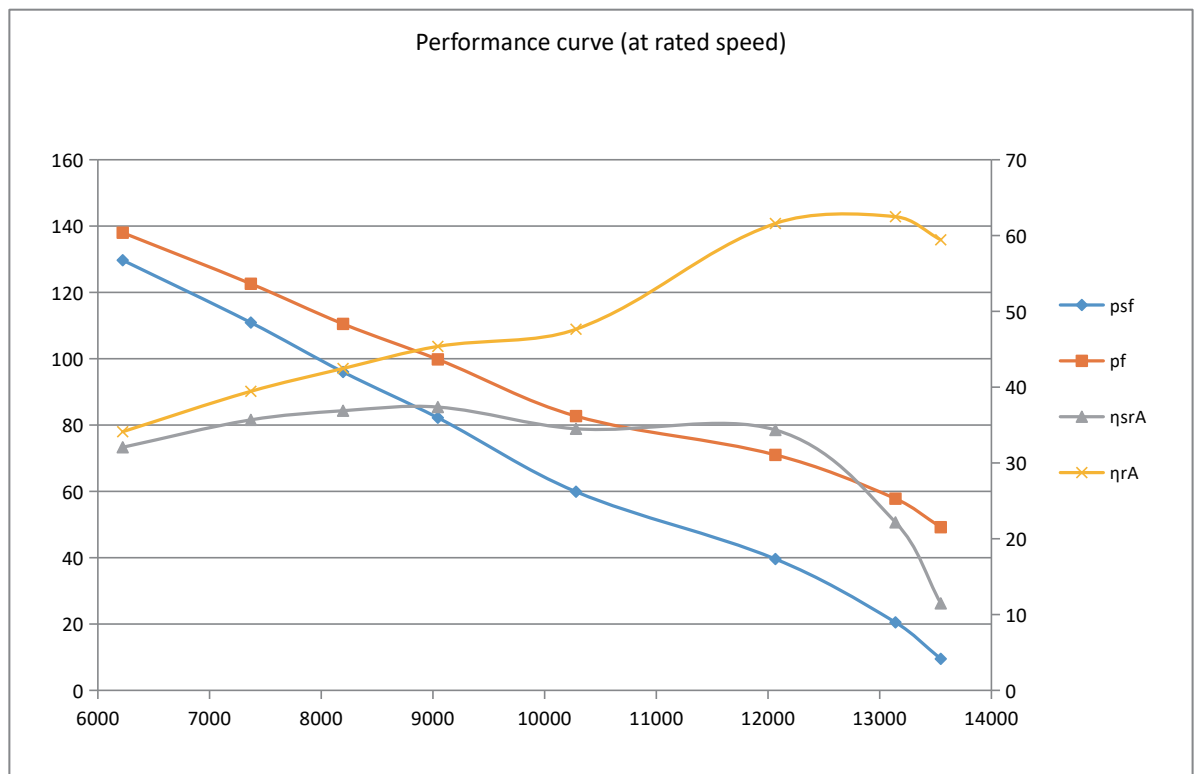
No.	Information Item	Comment
1	$\eta_{\text{target}} =$	37.2%
2	Overall efficiency (η_e) =	37.4%
3	Pass or not (Criteria: $\eta_e \geq \eta_{\text{target}}$)	Pass
4	Measurement category (A-D)	A
5	Efficiency category (static or total)	Static
6	Efficiency grade at optimum energy efficiency point	N =50.1
7	VSD is integrated within the fan	No
8	Year of Manufacture	Ref. to the Unit Nameplate
9	Manufacturer's name and place of manufacture	Ref. to the Unit Nameplate
10	The electric input power P_e at BEP	0.610 kW
11	The volume flow rate q_v at BEP	2.51m ³ /s
12	The applicable pressure difference Δp at BEP	82 Pa
13	Fan speed in revolutions per minute at BEP	700 rpm
14	Specific ratio	1.00
15	Information relevant for facilitating disassembly, recycling or disposal at end-of-life	all materials can be recycled
16	Information relevant to minimize impact on the environment and ensure optimal life expectancy as regards installation, use and maintenance of the fan	For installation, the clearance of 1000 mm shall be kept from inlet
17	Description of additional items used when determining the fan energy efficiency, such as ducts, that are not described in the measurement category and not supplied with the fan.	Measurement category A, fan is free inlet and outlet conditions
18	Motor manufacturer	Panasonic Motor (Hangzhou)Co.,Ltd
19	DC voltage lower than 100 V	No

ErP Information

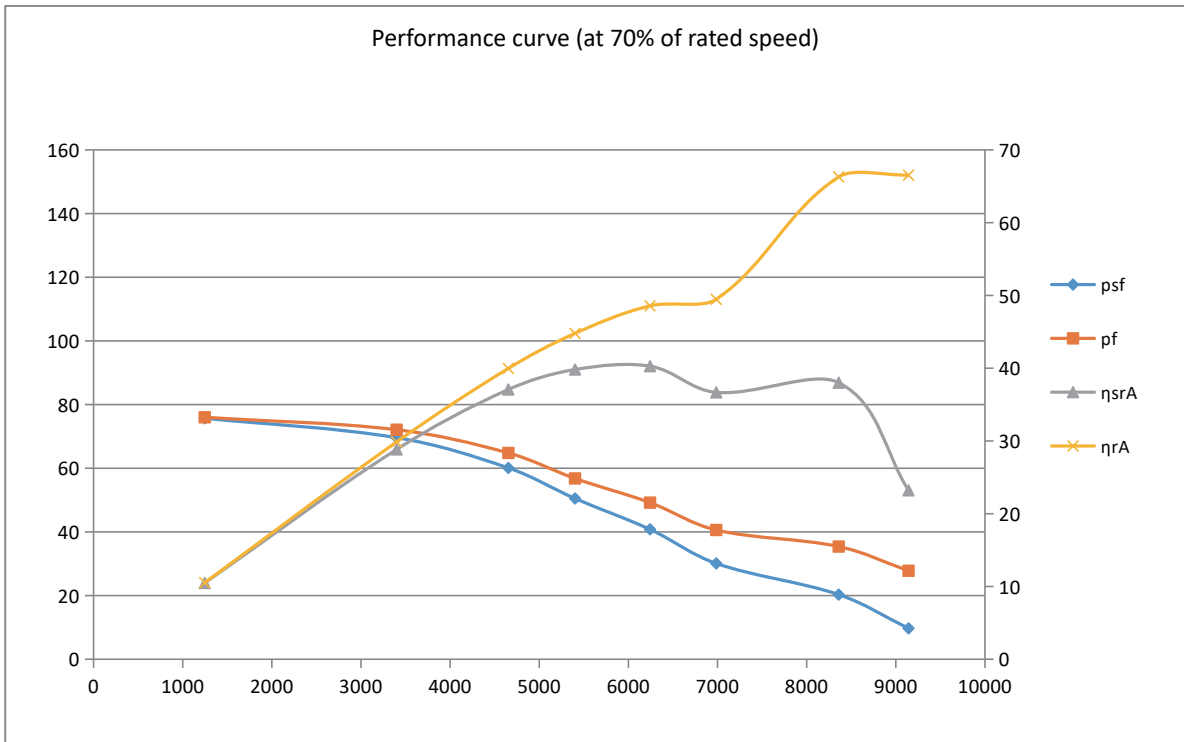
LIST of all significant elements supplied with the fan	
Motor manufacturer: Panasonic Motor (Hangzhou)Co.,LtdPanasonic Motor (Hangzhou)Co.,Ltd	

No.	Subcomponent	Model number
1	Electric motor	ZKSN-560-10-1L
2	Stator	Φ173*26
3	Motor impeller	ZL-750*210*20-4
4	Motor mounting assembly	MDV-252(8)W/D2SN1-9U4.12
5	Fan outlet guard	MDV-900(32)W/D2SN1-8X3-16
6	Variable speed drive	IPM-PSS10S72FT/PIN29

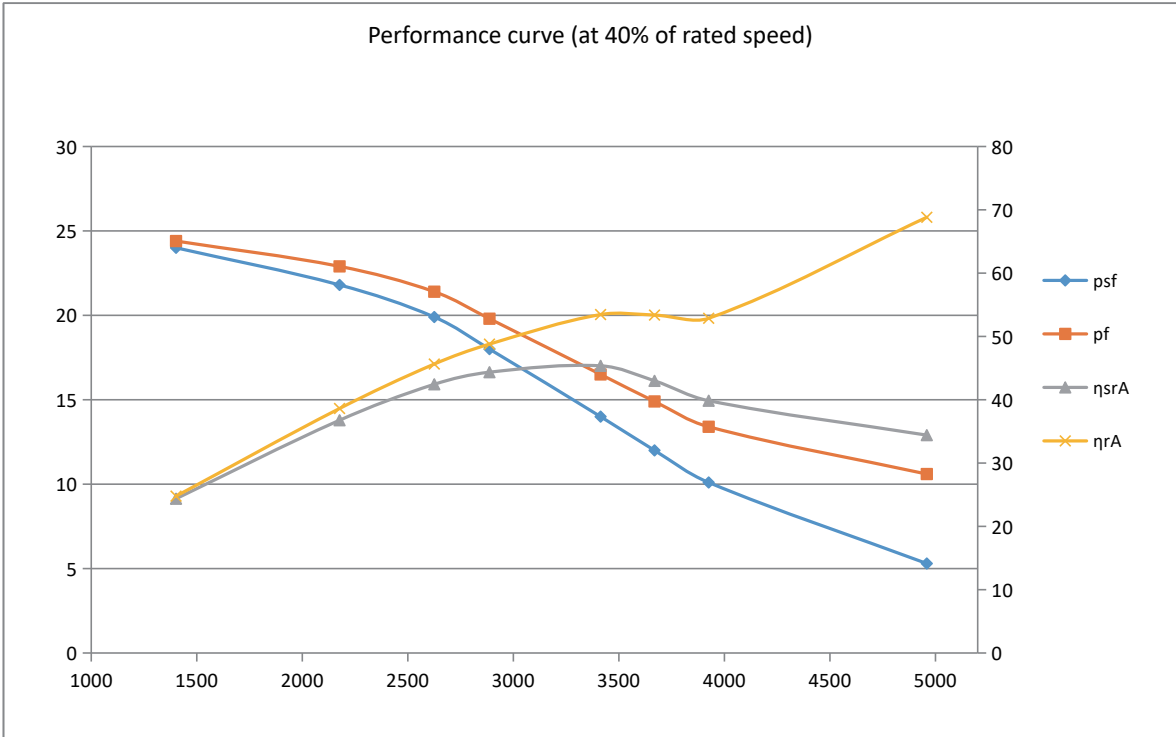
Fan performance curve and parameters:



Contents		Performance Parameters(at rated speed)							
		The values for the individual test points							
		1	2	3	4	5	6	7	8
Volume air flow rate (m ³ /h)	q _v	13547	13141	12066	10281	9044	8195	7370	6222
Fan static pressure (Pa)	p _{sf}	9.5	20.5	39.6	59.9	82.2	96.0	110.9	129.7
Fan pressure (Pa)	p _f	49.2	57.8	71.0	82.7	99.8	110.5	122.6	138.0
Electric input power of fan (W)	P _e	354	382	434	550	610	652	698	764
Rotational speed (rpm)	--	700	700	700	700	700	700	700	700
Fan efficiency (%)	η _{rA}	59.4	62.5	61.6	47.6	45.4	42.5	39.5	34.1
Fan static efficiency (%)	η _{srA}	11.5	22.2	34.4	34.5	37.4	36.9	35.7	32.1



Contents		Performance Parameters(at rated speed)							
		The values for the individual test points							
		1	2	3	4	5	6	7	8
Volume air flow rate (m ³ /h)	q _v	9143	8359	6986	6243	5401	4654	3400	1247
Fan static pressure (Pa)	p _{Sf}	9.7	20.3	30.1	40.8	50.5	60.1	69.6	75.7
Fan pressure (Pa)	p _f	27.8	35.4	40.6	49.2	56.8	64.8	72.1	76.0
Electric input power of fan (W)	P _e	130	150	189	207	223	244	264	288
Rotational speed (rpm)	--	490	490	490	490	490	490	490	490
Fan efficiency (%)	η _{rA}	66.5	66.3	49.5	48.6	44.8	40.0	29.9	10.5
Fan static efficiency (%)	η _{SrA}	23.2	38.0	36.7	40.3	39.8	37.1	28.8	10.5



Contents		Performance Parameters(at rated speed)							
		The values for the individual test points							
		1	2	3	4	5	6	7	8
Volume air flow rate (m ³ /h)	q _v	4959	3925	3669	3413	2887	2625	2177	1402
Fan static pressure (Pa)	p _{Sf}	5.3	10.1	12.0	14.0	18.0	19.9	21.8	24.0
Fan pressure (Pa)	p _f	10.6	13.4	14.9	16.5	19.8	21.4	22.9	24.4
Electric input power of fan (W)	P _e	31	39	40	41	45	47	49	52
Rotational speed (rpm)	--	280	280	280	280	280	280	280	280
Fan efficiency (%)	η _{rA}	68.8	52.9	53.4	53.5	48.8	45.6	38.6	24.8
Fan static efficiency (%)	η _{SrA}	34.4	39.8	43.0	45.4	44.4	42.4	36.8	24.4

ErP Information

Fan Types	Axial fan		
Directive (or Standard) for Regulation	ErP Directive 2009/125/EC COMMISSION REGULATION(EU) 2024/1834		
Model Name	ZKSN-560-10-1L+ZL-750*210*20-4	Rev.	
Prepare by			

Specified Information of Fan:

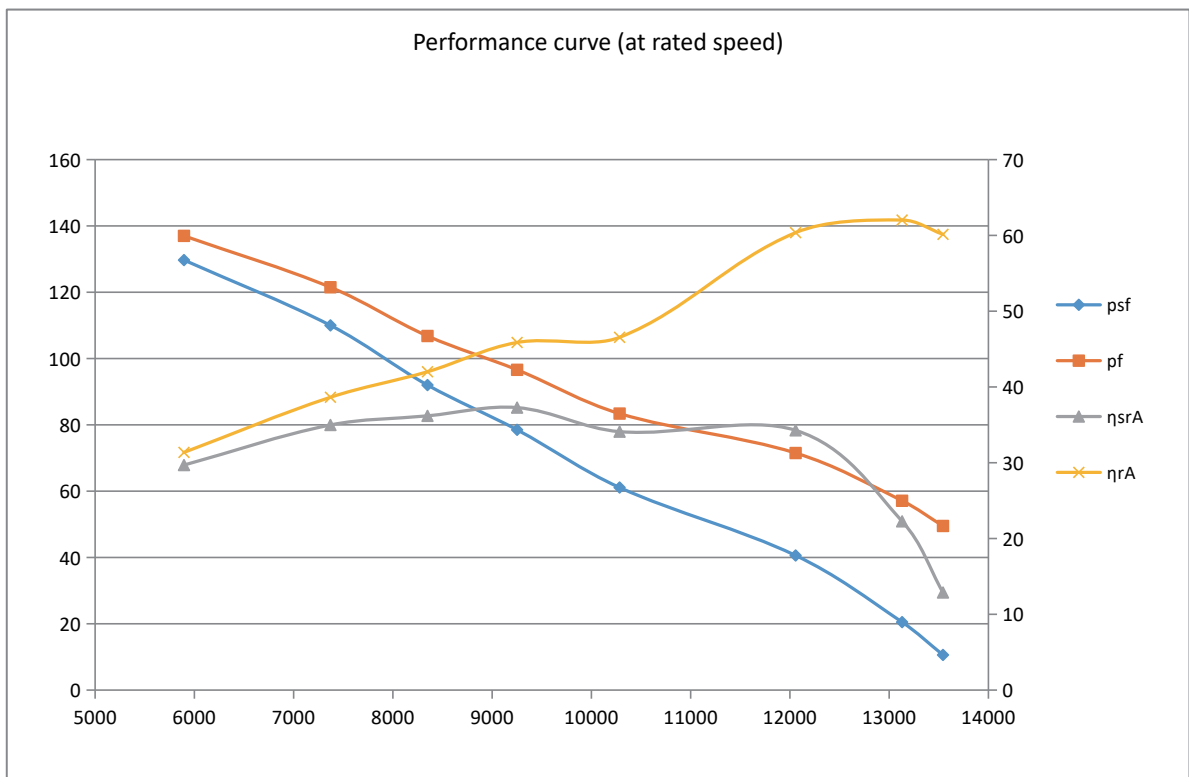
No.	Information Item	Comment
1	$\eta_{\text{target}} =$	37.2%
2	Overall efficiency (η_e) =	37.3%
3	Pass or not (Criteria: $\eta_e \geq \eta_{\text{target}}$)	Pass
4	Measurement category (A-D)	A
5	Efficiency category (static or total)	Static
6	Efficiency grade at optimum energy efficiency point	N =50.1
7	VSD is integrated within the fan	No
8	Year of Manufacture	Ref. to the Unit Nameplate
9	Manufacturer's name and place of manufacture	Ref. to the Unit Nameplate
10	The electric input power P_e at BEP	0.598 kW
11	The volume flow rate q_v at BEP	2.57m ³ /s
12	The applicable pressure difference Δp at BEP	78 Pa
13	Fan speed in revolutions per minute at BEP	700 rpm
14	Specific ratio	1.00
15	Information relevant for facilitating disassembly, recycling or disposal at end-of-life	all materials can be recycled
16	Information relevant to minimize impact on the environment and ensure optimal life expectancy as regards installation, use and maintenance of the fan	For installation, the clearance of 1000 mm shall be kept from inlet
17	Description of additional items used when determining the fan energy efficiency, such as ducts, that are not described in the measurement category and not supplied with the fan.	Measurement category A, fan is free inlet and outlet conditions
18	Motor manufacturer	GUANGDONG WELLING MOTOR MANUFACTURING CO.,LTD
19	DC voltage lower than 100 V	No

ErP Information

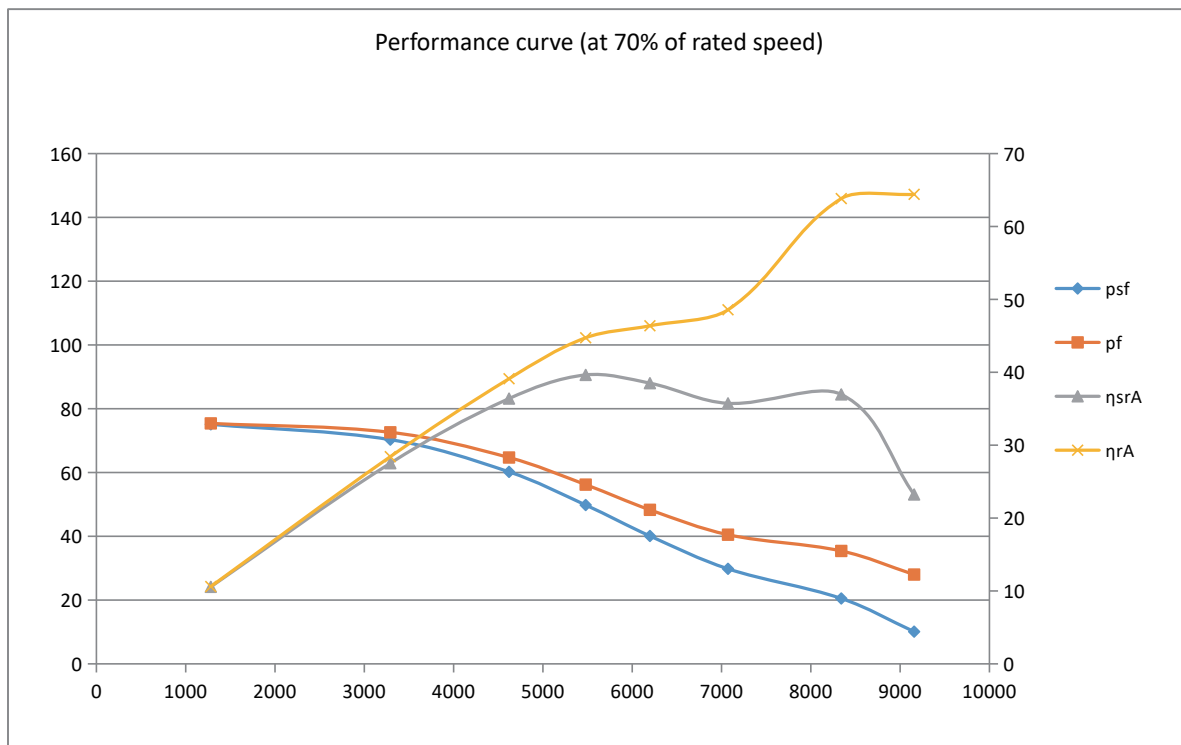
LIST of all significant elements supplied with the fan	
Motor manufacturer: GUANGDONG WELLING MOTOR MANUFACTURING CO.,LTD	

No.	Subcomponent	Model number
1	Electric motor	ZKSN-560-10-1L
2	Stator	Φ173*26
3	Motor impeller	ZL-750*210*20-4
4	Motor mounting assembly	MDV-252(8)W/D2SN1-9U4.12
5	Fan outlet guard	MDV-900(32)W/D2SN1-8X3-16
6	Variable speed drive	IPM-PSS10S72FT/PIN29

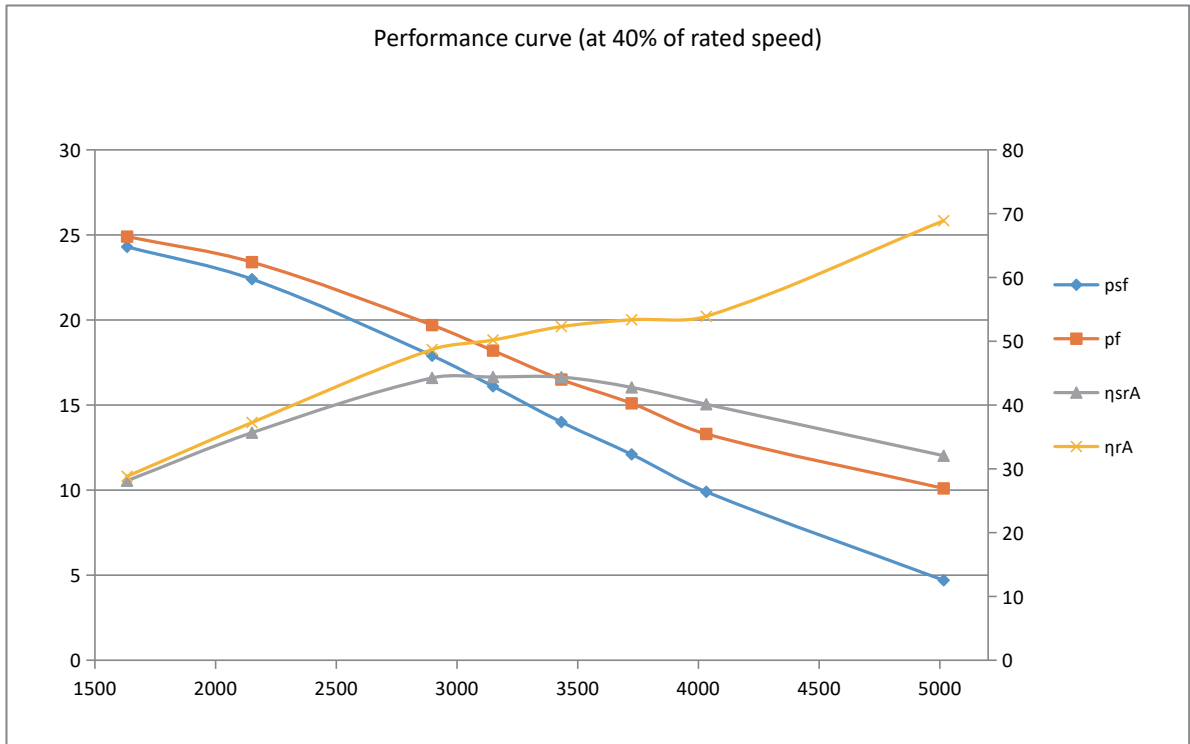
Fan performance curve and parameters:



Contents		Performance Parameters(at rated speed)							
		The values for the individual test points							
		1	2	3	4	5	6	7	8
Volume air flow rate (m ³ /h)	q_v	13542	13130	12058	10284	9251	8349	7371	5895
Fan static pressure (Pa)	P_{Sf}	10.6	20.5	40.6	61.1	78.5	92.0	110.0	129.7
Fan pressure (Pa)	p_f	49.5	57.1	71.5	83.4	96.6	106.8	121.5	137.0
Electric input power of fan (W)	P_e	352	380	445	567	598	649	706	781
Rotational speed (rpm)	--	700	700	700	700	700	700	700	700
Fan efficiency (%)	η_{rA}	60.1	62.0	60.4	46.6	45.9	42.0	38.6	31.4
Fan static efficiency (%)	η_{srA}	12.9	22.3	34.3	34.1	37.3	36.2	35.0	29.7



Contents		Performance Parameters(at rated speed)							
		The values for the individual test points							
		1	2	3	4	5	6	7	8
Volume air flow rate (m³/h)	q_v	9157	8341	7073	6198	5479	4621	3291	1281
Fan static pressure (Pa)	p_{sf}	10.1	20.5	29.8	40.1	49.8	60.2	70.3	75.1
Fan pressure (Pa)	p_f	28.0	35.4	40.5	48.3	56.2	64.7	72.6	75.4
Electric input power of fan (W)	P_e	135	155	194	211	224	247	270	291
Rotational speed (rpm)	--	490	490	490	490	490	490	490	490
Fan efficiency (%)	η_{rA}	64.4	63.8	48.6	46.4	44.7	39.1	28.4	10.6
Fan static efficiency (%)	η_{srA}	23.2	37.0	35.7	38.5	39.6	36.4	27.5	10.6



Contents		Performance Parameters(at rated speed)							
		The values for the individual test points							
		1	2	3	4	5	6	7	8
Volume air flow rate (m ³ /h)	q _v	5016	4032	3723	3432	3149	2897	2151	1633
Fan static pressure (Pa)	p _{sf}	4.7	9.9	12.1	14.0	16.1	17.9	22.4	24.3
Fan pressure (Pa)	p _f	10.1	13.3	15.1	16.5	18.2	19.7	23.4	24.9
Electric input power of fan (W)	P _e	30	39	41	42	44	45	51	53
Rotational speed (rpm)	--	280	280	280	280	280	280	280	280
Fan efficiency (%)	η _{rA}	68.9	53.9	53.4	52.3	50.2	48.7	37.3	28.8
Fan static efficiency (%)	η _{srA}	32.1	40.1	42.8	44.4	44.4	44.3	35.7	28.1

ErP Information

Fan Types	Axial fan		
Directive (or Standard) for Regulation			ErP Directive 2009/125/EC COMMISSION REGULATION(EU) 2024/1834
Model Name	ZKSN-920-10-2L+ZL-750*210*20-4	Rev.	
Prepare by			

Specified Information of Fan:

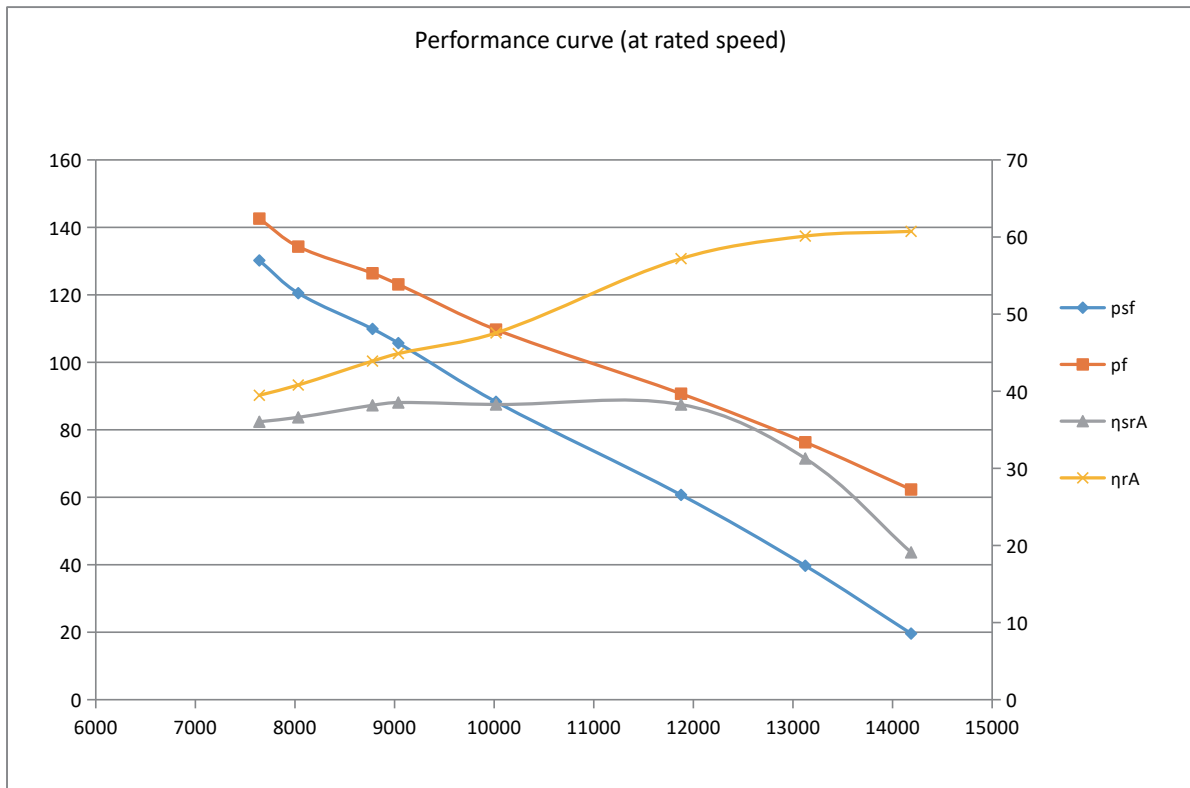
No.	Information Item	Comment
1	$\eta_{\text{target}} =$	37%
2	Overall efficiency (η_e) =	38.3%
3	Pass or not (Criteria: $\eta_e \geq \eta_{\text{target}}$)	Pass
4	Measurement category (A-D)	A
5	Efficiency category (static or total)	Static
6	Efficiency grade at optimum energy efficiency point	N =51.3
7	VSD is integrated within the fan	No
8	Year of Manufacture	Ref. to the Unit Nameplate
9	Manufacturer's name and place of manufacture	Ref. to the Unit Nameplate
10	The electric input power P_e at BEP	0.579 kW
11	The volume flow rate q_v at BEP	3.3 m ³ /s
12	The applicable pressure difference Δp at BEP	60 Pa
13	Fan speed in revolutions per minute at BEP	750 rpm
14	Specific ratio	1.00
15	Information relevant for facilitating disassembly, recycling or disposal at end-of-life	all materials can be recycled
16	Information relevant to minimize impact on the environment and ensure optimal life expectancy as regards installation, use and maintenance of the fan	For installation, the clearance of 1000 mm shall be kept from inlet
17	Description of additional items used when determining the fan energy efficiency, such as ducts, that are not described in the measurement category and not supplied with the fan.	Measurement category A, fan is free inlet and outlet conditions
18	Motor manufacturer	Jiangsu Shanqi Group Co.,Ltd
19	DC voltage lower than 100 V	No

ErP Information

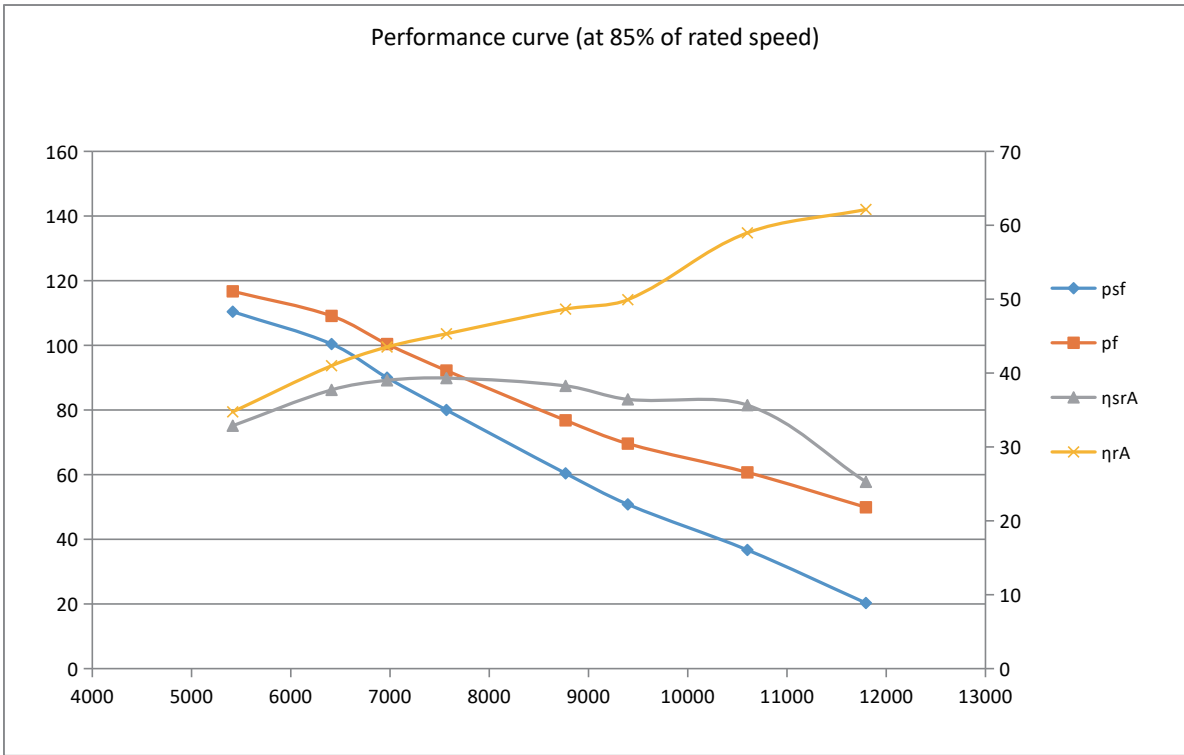
LIST of all significant elements supplied with the fan	
Motor manufacturer: JIANGSU SHANGQI GROUP CO.,Ltd	

No.	Subcomponent	Model number
1	Electric motor	ZKSN-920-10-2L
2	Stator	Φ173*47
3	Motor impeller	ZL-750*210*20-4
4	Motor mounting assembly	MDV-252(8)W/D2SN1-9U4.12
5	Fan outlet guard	MDV-900(32)W/D2SN1-8X3-16
6	Variable speed drive	IPM-PSS10S72FT/PIN29

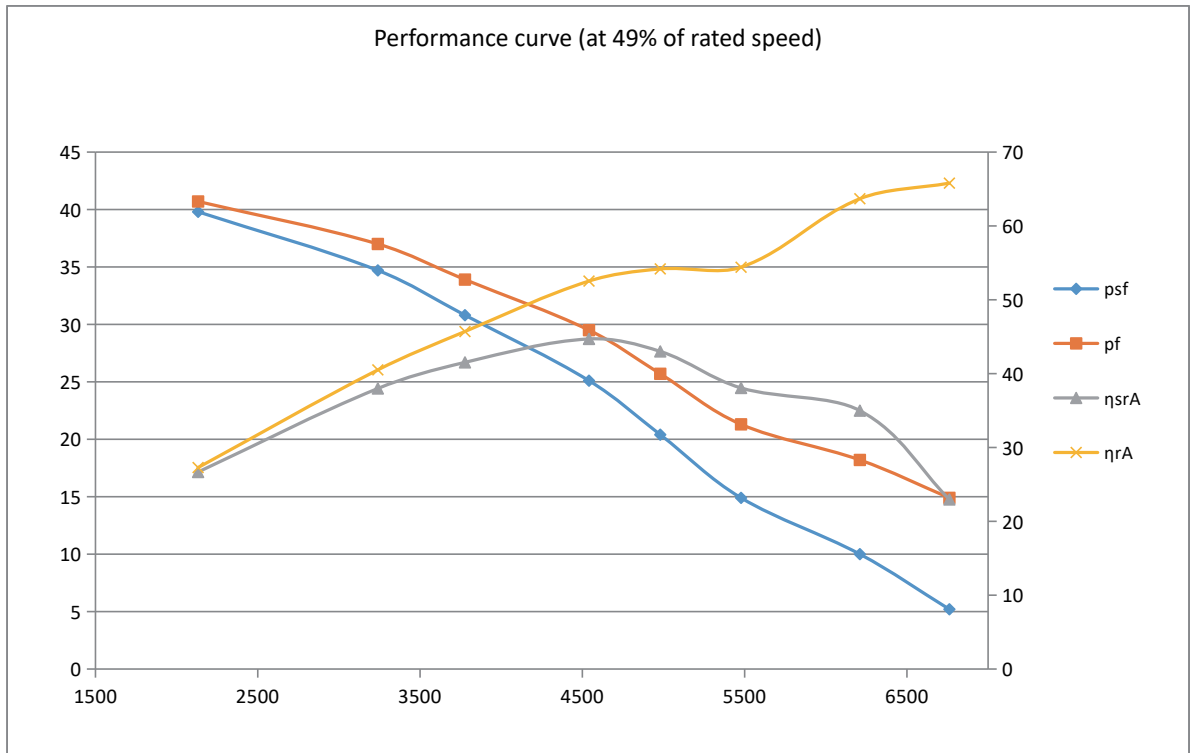
Fan performance curve and parameters:



Performance Parameters(at rated speed)									
Contents		The values for the individual test points							
		1	2	3	4	5	6	7	8
Volume air flow rate (m ³ /h)	q _v	14186	13124	11877	10019	9038	8779	8033	7642
Fan static pressure (Pa)	p _{sf}	19.6	39.7	60.7	88.3	105.7	109.9	120.5	130.2
Fan pressure (Pa)	p _f	62.3	76.3	90.7	109.7	123.1	126.4	134.3	142.6
Electric input power of fan (W)	P _e	453	515	579	704	753	767	801	835
Rotational speed (rpm)	--	750	750	750	750	750	750	750	750
Fan efficiency (%)	η _{rA}	60.7	60.1	57.2	47.6	44.9	43.9	40.8	39.5
Fan static efficiency (%)	η _{srA}	19.1	31.3	38.3	38.3	38.5	38.2	36.6	36.0



Contents		Performance Parameters(at rated speed)							
		The values for the individual test points							
		1	2	3	4	5	6	7	8
Volume air flow rate (m³/h)	q_v	11795	10601	9396	8769	7568	6970	6411	5415
Fan static pressure (Pa)	p_{sf}	20.3	36.7	50.8	60.4	80.0	90.0	100.4	110.4
Fan pressure (Pa)	p_f	49.9	60.7	69.6	76.8	92.2	100.4	109.1	116.7
Electric input power of fan (W)	P_e	302	345	410	432	478	498	527	560
Rotational speed (rpm)	--	644	644	644	644	644	644	644	644
Fan efficiency (%)	η_{rA}	62.1	59.0	49.9	48.7	45.3	43.5	41.0	34.7
Fan static efficiency (%)	η_{srA}	25.3	35.7	36.4	38.3	39.3	39.0	37.7	32.9



Contents		Performance Parameters(at rated speed)							
		The values for the individual test points							
		1	2	3	4	5	6	7	8
Volume air flow rate (m ³ /h)	q_v	6762	6210	5478	4980	4541	3777	3240	2132
Fan static pressure (Pa)	p_{sf}	5.2	10.0	14.9	20.4	25.1	30.8	34.7	39.8
Fan pressure (Pa)	p_f	14.9	18.2	21.3	25.7	29.5	33.9	37.0	40.7
Electric input power of fan (W)	P_e	57	65	77	84	90	98	103	110
Rotational speed (rpm)	--	368	368	368	368	368	368	368	368
Fan efficiency (%)	η_{rA}	65.8	63.7	54.4	54.2	52.5	45.7	40.5	27.3
Fan static efficiency (%)	η_{srA}	23.0	35.0	38.1	43.0	44.7	41.5	38.0	26.7

ErP Information

Fan Types	Axial fan		
Directive (or Standard) for Regulation	ErP Directive 2009/125/EC COMMISSION REGULATION(EU) 2024/1834		
Model Name	ZKSN-920-10-2L+ZL-750*210*20-4	Rev.	
Prepare by			

Specified Information of Fan:

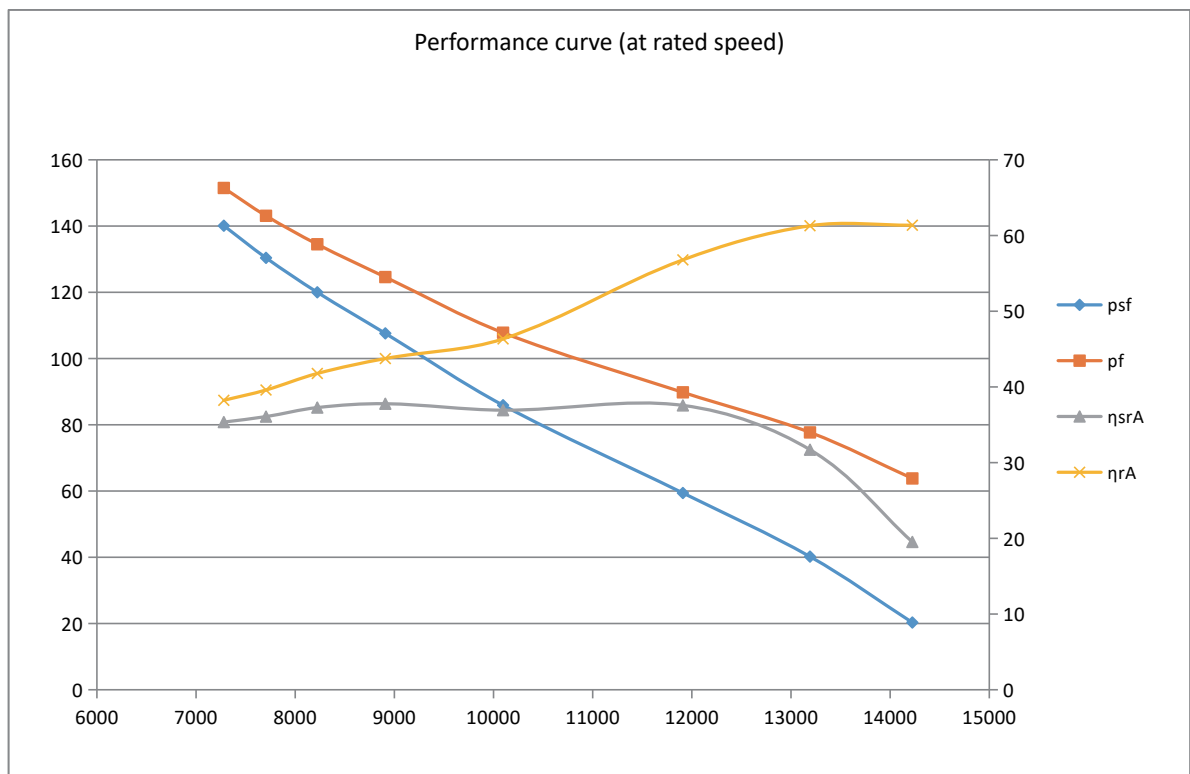
No.	Information Item	Comment
1	$\eta_{\text{target}} =$	37%
2	Overall efficiency (η_e) =	37.6%
3	Pass or not (Criteria: $\eta_e \geq \eta_{\text{target}}$)	Pass
4	Measurement category (A-D)	A
5	Efficiency category (static or total)	Static
6	Efficiency grade at optimum energy efficiency point	N =50.6
7	VSD is integrated within the fan	No
8	Year of Manufacture	Ref. to the Unit Nameplate
9	Manufacturer's name and place of manufacture	Ref. to the Unit Nameplate
10	The electric input power P_e at BEP	0.579 kW
11	The volume flow rate q_v at BEP	3.31 m ³ /s
12	The applicable pressure difference Δp at BEP	59 Pa
13	Fan speed in revolutions per minute at BEP	750 rpm
14	Specific ratio	1.00
15	Information relevant for facilitating disassembly, recycling or disposal at end-of-life	all materials can be recycled
16	Information relevant to minimize impact on the environment and ensure optimal life expectancy as regards installation, use and maintenance of the fan	For installation, the clearance of 1000 mm shall be kept from inlet
17	Description of additional items used when determining the fan energy efficiency, such as ducts, that are not described in the measurement category and not supplied with the fan.	Measurement category A, fan is free inlet and outlet conditions
18	Motor manufacturer	ZhongShan Broad-Ocean Motor Co.,Ltd
19	DC voltage lower than 100 V	No

ErP Information

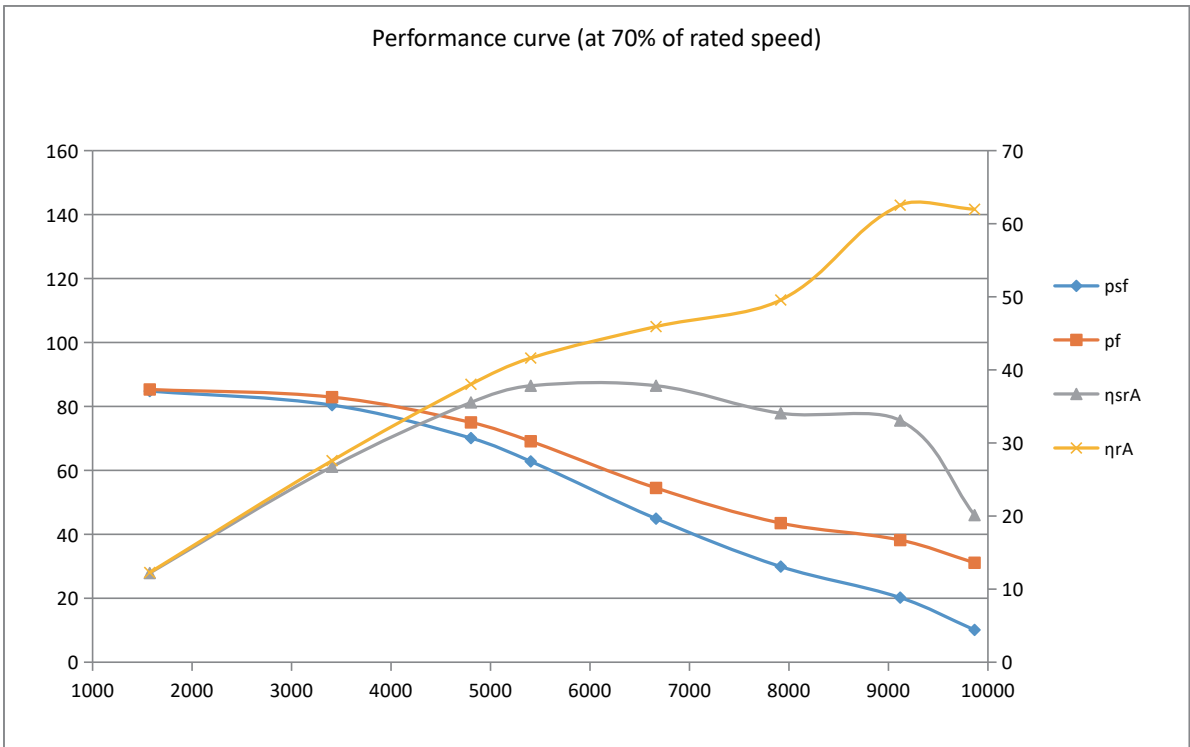
LIST of all significant elements supplied with the fan	
Motor manufacturer: ZhongShan Broad-Ocean Motor Co.,Ltd	

No.	Subcomponent	Model number
1	Electric motor	ZKSN-920-10-2L
2	Stator	Φ172*40
3	Motor impeller	ZL-750*210*20-4
4	Motor mounting assembly	MDV-252(8)W/D2SN1-9U4.12
5	Fan outlet guard	MDV-900(32)W/D2SN1-8X3-16
6	Variable speed drive	IPM-PSS10S72FT/PIN29

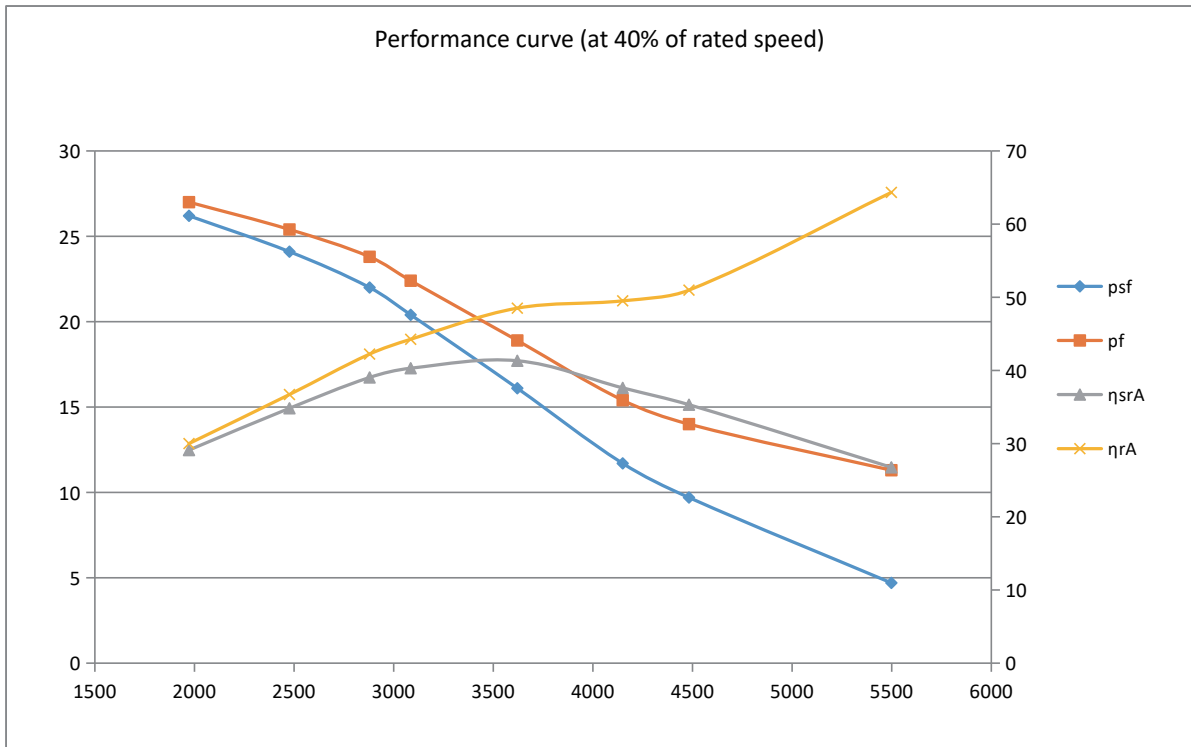
Fan performance curve and parameters:



Contents		Performance Parameters(at rated speed)							
		The values for the individual test points							
		1	2	3	4	5	6	7	8
Volume air flow rate (m ³ /h)	q _v	14224	13192	11910	10096	8909	8223	7705	7280
Fan static pressure (Pa)	p _{Sf}	20.3	40.2	59.4	85.9	107.6	120.0	130.4	140.1
Fan pressure (Pa)	p _f	63.8	77.7	89.8	107.8	124.6	134.5	143.1	151.5
Electric input power of fan (W)	P _e	460	517	579	715	770	802	842	871
Rotational speed (rpm)	--	750	750	750	750	750	750	750	750
Fan efficiency (%)	η _{rA}	61.4	61.3	56.8	46.3	43.8	41.8	39.6	38.2
Fan static efficiency (%)	η _{srA}	19.5	31.7	37.6	36.9	37.8	37.3	36.1	35.4



Contents		Performance Parameters(at rated speed)							
		The values for the individual test points							
		1	2	3	4	5	6	7	8
Volume air flow rate (m ³ /h)	q _v	9866	9118	7917	6664	5404	4803	3407	1575
Fan static pressure (Pa)	p _{Sf}	10.1	20.2	29.9	44.9	62.8	70.1	80.4	84.8
Fan pressure (Pa)	p _f	31.1	38.2	43.5	54.5	69.1	75.0	82.9	85.3
Electric input power of fan (W)	P _e	165	184	226	255	287	302	325	346
Rotational speed (rpm)	--	525	525	525	525	525	525	525	525
Fan efficiency (%)	η _{rA}	62.0	62.5	49.6	45.9	41.6	38.0	27.6	12.3
Fan static efficiency (%)	η _{SrA}	20.1	33.1	34.1	37.8	37.8	35.5	26.7	12.2



Performance Parameters(at rated speed)									
Contents		The values for the individual test points							
		1	2	3	4	5	6	7	8
Volume air flow rate (m ³ /h)	q _v	5498	4482	4150	3621	3085	2879	2477	1973
Fan static pressure (Pa)	p _{sf}	4.7	9.7	11.7	16.1	20.4	22.0	24.1	26.2
Fan pressure (Pa)	p _f	11.3	14.0	15.4	18.9	22.4	23.8	25.4	27.0
Electric input power of fan (W)	P _e	38	47	49	53	58	60	63	65
Rotational speed (rpm)	--	300	300	300	300	300	300	300	300
Fan efficiency (%)	η _{rA}	64.3	51.0	49.5	48.5	44.3	42.2	36.7	30.0
Fan static efficiency (%)	η _{srA}	26.8	35.3	37.6	41.3	40.3	39.0	34.8	29.1

ErP Information

Fan Types	Axial fan		
Directive (or Standard) for Regulation	ErP Directive 2009/125/EC COMMISSION REGULATION(EU) 2024/1834		
Model Name	ZKSN-920-10-2L+ZL-750*210*20-4	Rev.	
Prepare by			

Specified Information of Fan:

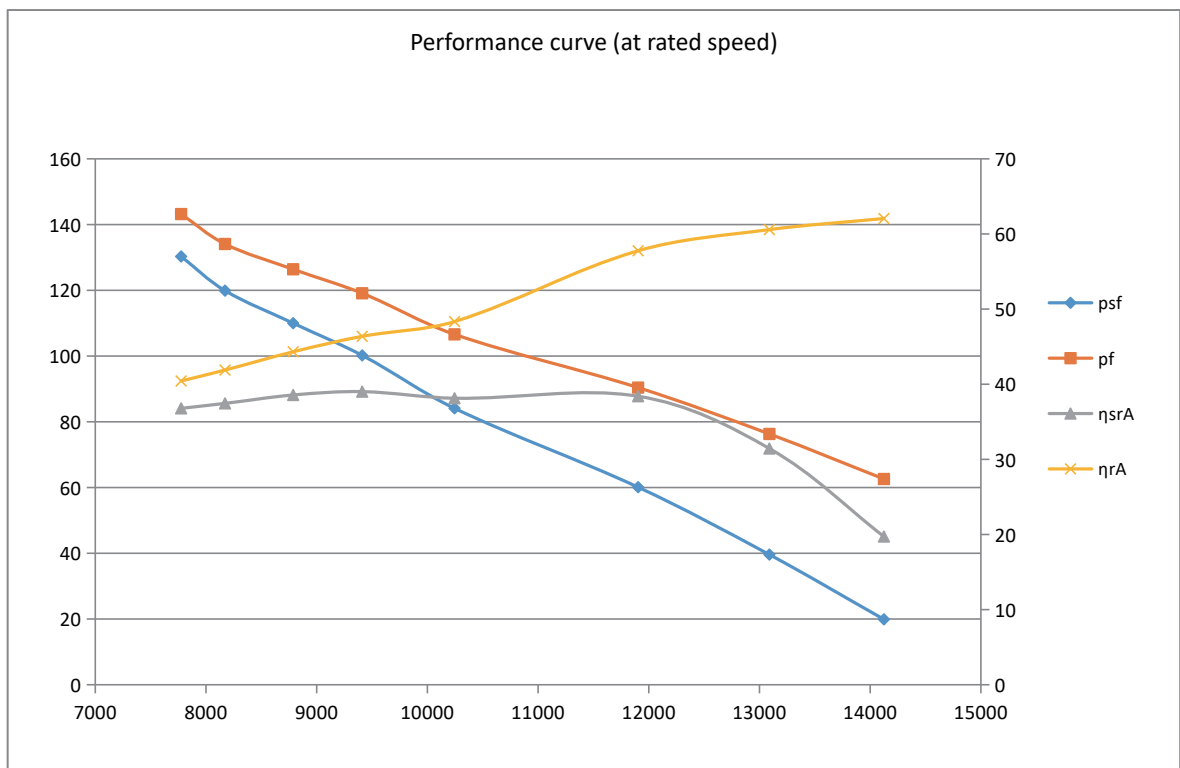
No.	Information Item	Comment
1	$\eta_{\text{target}} =$	37%
2	Overall efficiency (η_e) =	38.4%
3	Pass or not (Criteria: $\eta_e \geq \eta_{\text{target}}$)	Pass
4	Measurement category (A-D)	A
5	Efficiency category (static or total)	Static
6	Efficiency grade at optimum energy efficiency point	N =51.4
7	VSD is integrated within the fan	No
8	Year of Manufacture	Ref. to the Unit Nameplate
9	Manufacturer's name and place of manufacture	Ref. to the Unit Nameplate
10	The electric input power P_e at BEP	0.573 kW
11	The volume flow rate q_v at BEP	3.31 m ³ /s
12	The applicable pressure difference Δp at BEP	60 Pa
13	Fan speed in revolutions per minute at BEP	750 rpm
14	Specific ratio	1.00
15	Information relevant for facilitating disassembly, recycling or disposal at end-of-life	all materials can be recycled
16	Information relevant to minimize impact on the environment and ensure optimal life expectancy as regards installation, use and maintenance of the fan	For installation, the clearance of 1000 mm shall be kept from inlet
17	Description of additional items used when determining the fan energy efficiency, such as ducts, that are not described in the measurement category and not supplied with the fan.	Measurement category A, fan is free inlet and outlet conditions
18	Motor manufacturer	GUANGDONG WELLING MOTOR MANUFACTURING CO.,LTD
19	DC voltage lower than 100 V	No

ErP Information

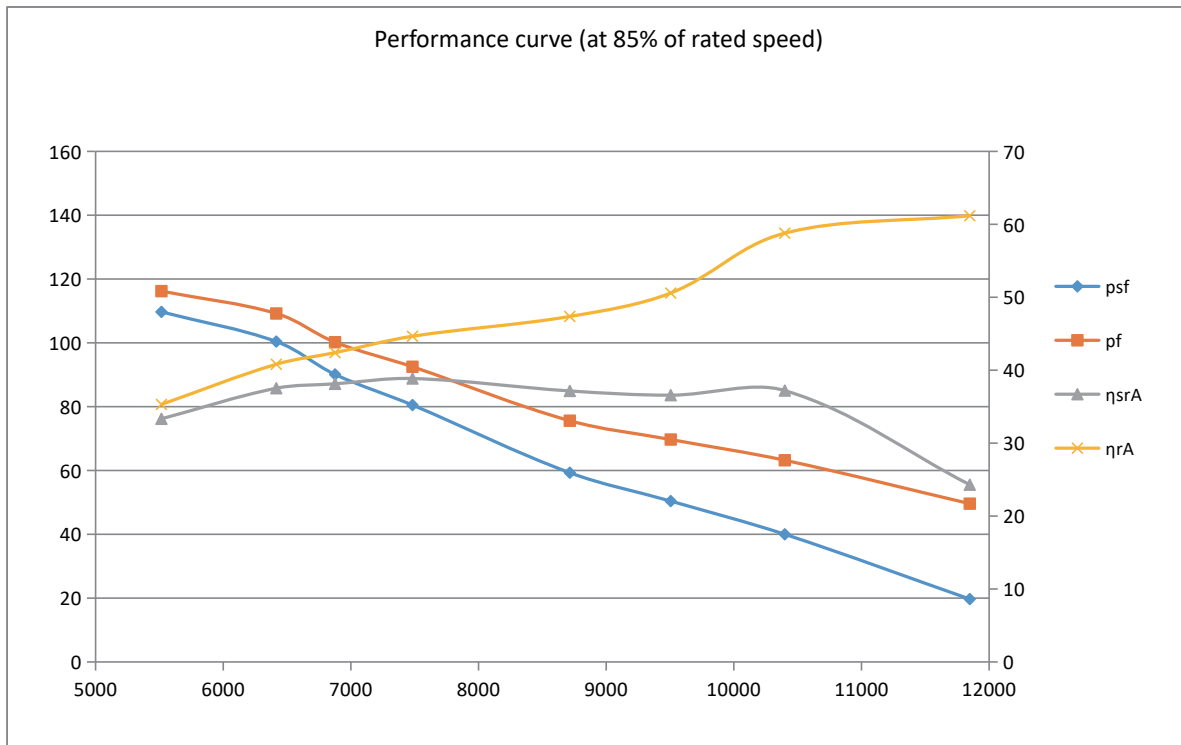
LIST of all significant elements supplied with the fan	
Motor manufacturer: GUANGDONG WELLING MOTOR MANUFACTURING CO.,LTD	

No.	Subcomponent	Model number
1	Electric motor	ZKSN-920-10-2L
2	Stator	Φ172*40
3	Motor impeller	ZL-750*210*20-4
4	Motor mounting assembly	MDV-252(8)W/D2SN1-9U4.12
5	Fan outlet guard	MDV-900(32)W/D2SN1-8X3-16
6	Variable speed drive	IPM-PSS10S72FT/PIN29

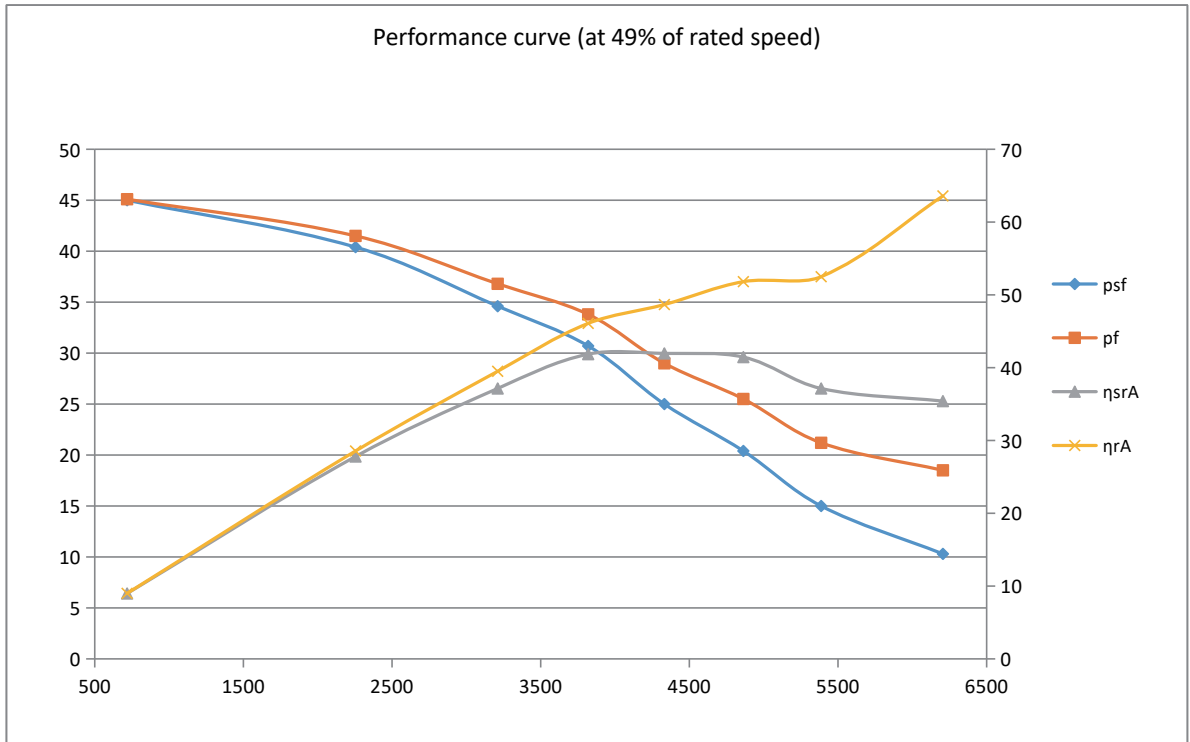
Fan performance curve and parameters:



Contents		Performance Parameters(at rated speed)							
		The values for the individual test points							
		1	2	3	4	5	6	7	8
Volume air flow rate (m ³ /h)	q_v	14224	13192	11910	10096	8909	8223	7705	7280
Fan static pressure (Pa)	p_{sf}	20.3	40.2	59.4	85.9	107.6	120.0	130.4	140.1
Fan pressure (Pa)	p_f	63.8	77.7	89.8	107.8	124.6	134.5	143.1	151.5
Electric input power of fan (W)	P_e	460	517	579	715	770	802	842	871
Rotational speed (rpm)	--	750	750	750	750	750	750	750	750
Fan efficiency (%)	η_{rA}	61.4	61.3	56.8	46.3	43.8	41.8	39.6	38.2
Fan static efficiency (%)	η_{srA}	19.5	31.7	37.6	36.9	37.8	37.3	36.1	35.4



Contents		Performance Parameters(at rated speed)							
		The values for the individual test points							
		1	2	3	4	5	6	7	8
Volume air flow rate (m³/h)	q_v	11848	10399	9506	8715	7483	6876	6416	5516
Fan static pressure (Pa)	p_{sf}	19.7	40.0	50.4	59.3	80.5	90.1	100.4	109.7
Fan pressure (Pa)	p_f	49.6	63.2	69.7	75.6	92.5	100.2	109.2	116.2
Electric input power of fan (W)	P_e	306	353	410	434	481	503	530	559
Rotational speed (rpm)	--	644	644	644	644	644	644	644	644
Fan efficiency (%)	η_{rA}	61.2	58.8	50.6	47.4	44.7	42.4	40.8	35.3
Fan static efficiency (%)	η_{srA}	24.3	37.2	36.6	37.2	38.9	38.1	37.5	33.3



Contents		Performance Parameters(at rated speed)							
		The values for the individual test points							
		1	2	3	4	5	6	7	8
Volume air flow rate (m³/h)	q_v	6206	5387	4863	4332	3819	3211	2255	718
Fan static pressure (Pa)	p_{sf}	10.3	15.0	20.4	25.0	30.7	34.6	40.4	45.0
Fan pressure (Pa)	p_f	18.5	21.2	25.5	29.0	33.8	36.8	41.5	45.1
Electric input power of fan (W)	P_e	66	78	85	91	98	104	113	123
Rotational speed (rpm)	--	368	368	368	368	368	368	368	368
Fan efficiency (%)	η_{rA}	63.6	52.5	51.8	48.7	46.1	39.5	28.6	9.0
Fan static efficiency (%)	η_{srA}	35.4	37.1	41.5	42.0	41.9	37.1	27.8	9.0

ErP Information

Fan Types	Axial fan		
Directive (or Standard) for Regulation	ErP Directive 2009/125/EC COMMISSION REGULATION(EU) 2024/1834		
Model Name	ZKSN-2300-8-1+ZL-750*210*20-4	Rev.	
Prepare by			

Specified Information of Fan:

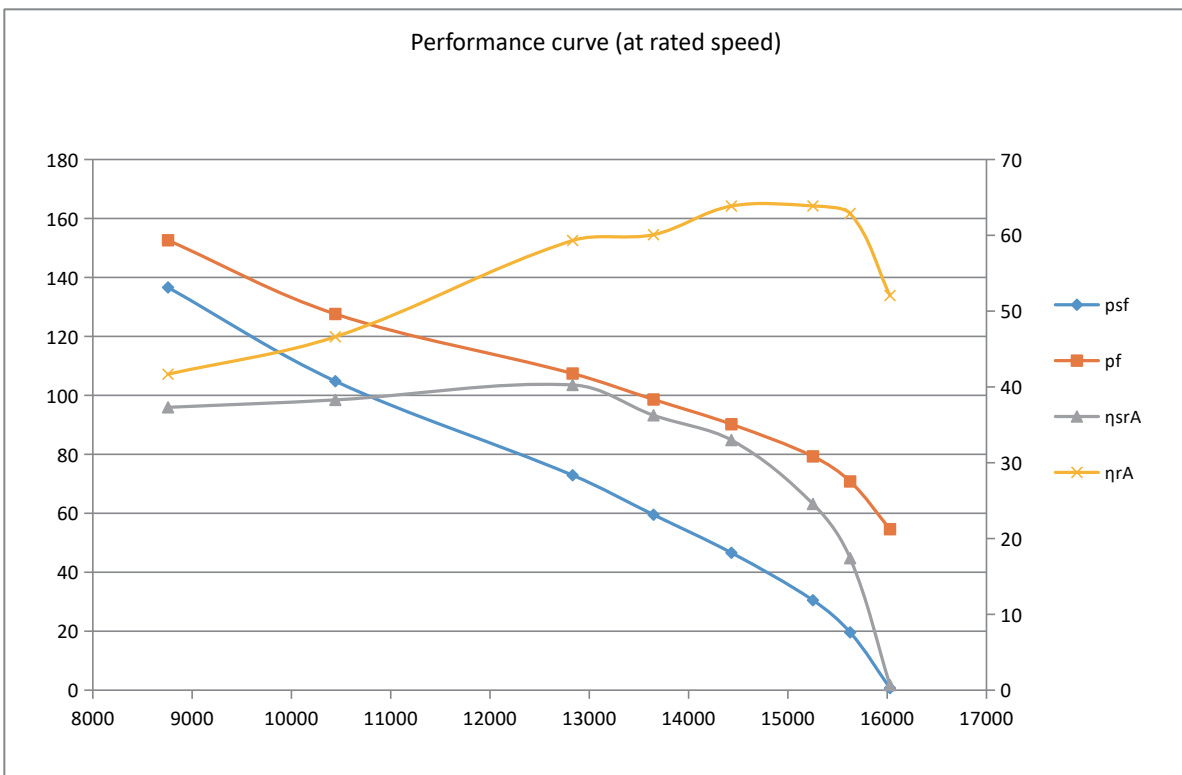
No.	Information Item	Comment
1	$\eta_{\text{target}} =$	37.9%
2	Overall efficiency (η_e) =	40.3%
3	Pass or not (Criteria: $\eta_e \geq \eta_{\text{target}}$)	Pass
4	Measurement category (A-E)	A
5	Efficiency category (static or total)	Static
6	Efficiency grade at optimum energy efficiency point	N =52.3
7	VSD is integrated within the fan	No
8	Year of Manufacture	Ref. to the Unit Nameplate
9	Manufacturer's name and place of manufacture	Ref. to the Unit Nameplate
10	The electric input power P_e at BEP	0.708 kW
11	The volume flow rate q_v at BEP	3.56 m ³ /s
12	The applicable pressure difference Δp at BEP	75 Pa
13	Fan speed in revolutions per minute at BEP	800 rpm
14	Specific ratio	1.00
15	Information relevant for facilitating disassembly, recycling or disposal at end-of-life	all materials can be recycled
16	Information relevant to minimize impact on the environment and ensure optimal life expectancy as regards installation, use and maintenance of the fan	For installation, the clearance of 1000 mm shall be kept from inlet
17	Description of additional items used when determining the fan energy efficiency, such as ducts, that are not described in the measurement category and not supplied with the fan.	Measurement category A, fan is free inlet and outlet conditions
18	Motor manufacturer	Jiangsu Shanqi Group Co.,Ltd
19	DC voltage lower than 100 V	No

ErP Information

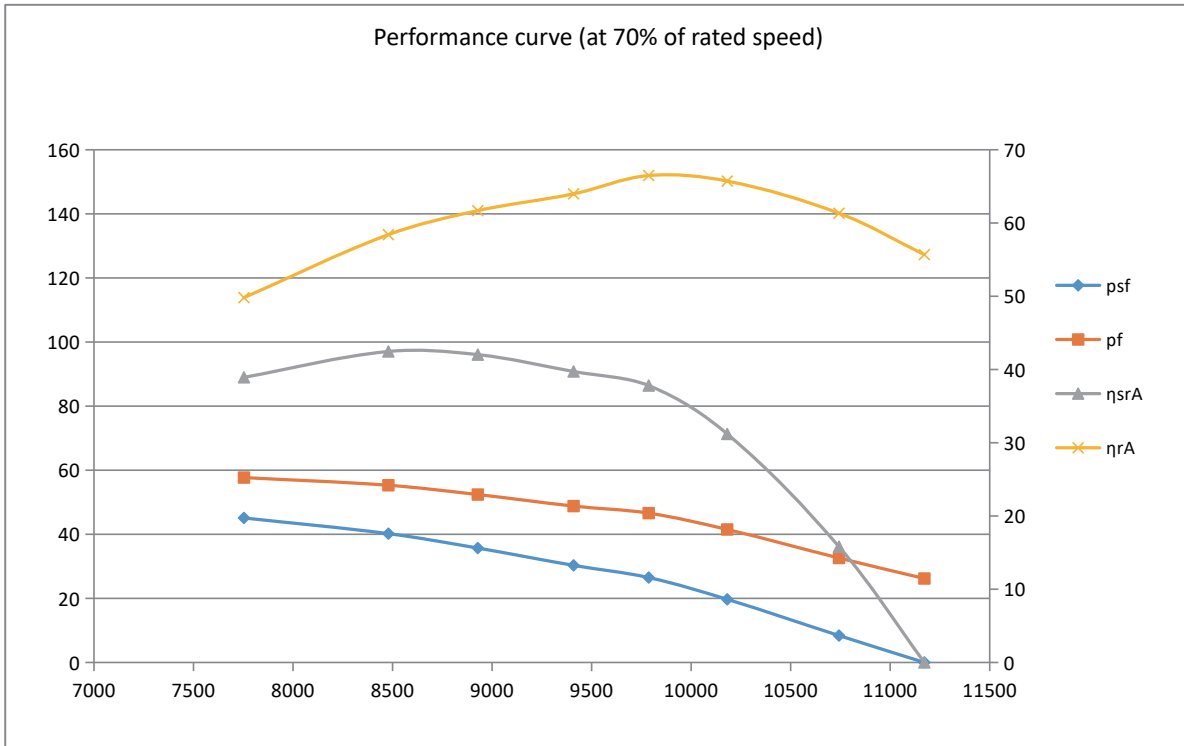
LIST of all significant elements supplied with the fan	
Motor manufacturer: Jiangsu Shangqi Group Co.,Ltd	

No.	Subcomponent	Model number
1	Electric motor	ZKSN-2300-8-1
2	Stator	Φ173*90
3	Motor impeller	ZL-750*210*20-4
4	Motor mounting assembly	MDV-252(8)W/D2SN1-9U4.12
5	Fan outlet guard	MDV-900(32)W/D2SN1-8X3-16
6	Variable speed drive	IPM-PSS10S72FT/PIN29

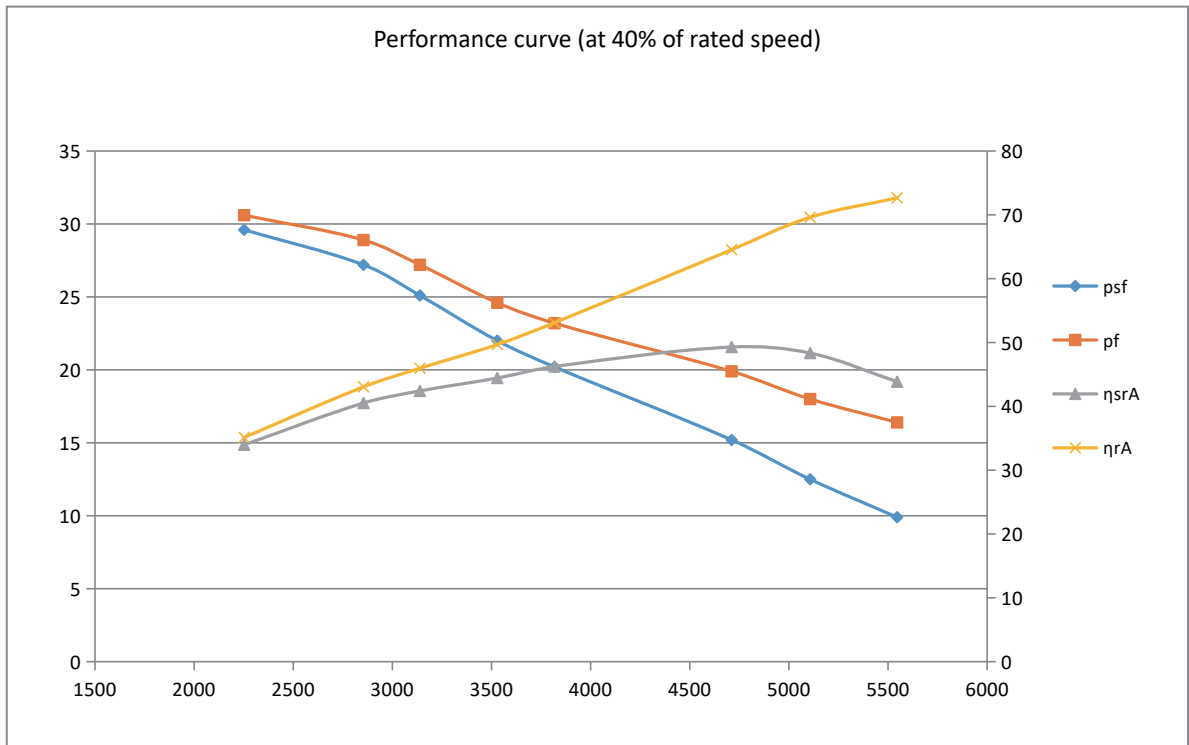
Fan performance curve and parameters:



Contents		Performance Parameters(at rated speed)							
		The values for the individual test points							
		1	2	3	4	5	6	7	8
Volume air flow rate (m ³ /h)	q_v	16028	15627	15252	14431	13647	12832	10442	8757
Fan static pressure (Pa)	p_{sf}	0.7	19.6	30.5	46.6	59.5	72.9	104.8	136.6
Fan pressure (Pa)	p_f	54.6	70.8	79.3	90.2	98.6	107.4	127.6	152.6
Electric input power of fan (W)	P_e	520	543	582	624	683	708	863	964
Rotational speed (rpm)	--	800	800	800	800	800	800	800	800
Fan efficiency (%)	η_{rA}	52.1	62.9	63.9	63.9	60.1	59.3	46.6	41.7
Fan static efficiency (%)	η_{srA}	0.7	17.4	24.6	33.0	36.3	40.3	38.3	37.3



Contents		Performance Parameters(at rated speed)							
		The values for the individual test points							
		1	2	3	4	5	6	7	8
Volume air flow rate (m³/h)	q_v	11172	10743	10181	9787	9409	8928	8479	7753
Fan static pressure (Pa)	p_{sf}	0	8.4	19.7	26.5	30.3	35.7	40.2	45.1
Fan pressure (Pa)	p_f	26.2	32.6	41.5	46.6	48.8	52.4	55.3	57.7
Electric input power of fan (W)	P_e	174	188	210	223	233	245	259	287
Rotational speed (rpm)	--	560	560	560	560	560	560	560	560
Fan efficiency (%)	η_{rA}	55.7	61.3	65.7	66.5	64.0	61.7	58.4	49.8
Fan static efficiency (%)	η_{srA}	0.0	15.8	31.2	37.8	39.7	42.0	42.5	38.9



Contents		Performance Parameters(at rated speed)							
		The values for the individual test points							
		1	2	3	4	5	6	7	8
Volume air flow rate (m ³ /h)	q_v	5546	5107	4711	3818	3529	3139	2854	2252
Fan static pressure (Pa)	p_{sf}	9.9	12.5	15.2	20.2	22	25.1	27.2	29.6
Fan pressure (Pa)	p_f	16.4	18	19.9	23.2	24.6	27.2	28.9	30.6
Electric input power of fan (W)	P_e	48	50	54	62	64	68	70	71
Rotational speed (rpm)	--	320	320	320	320	320	320	320	320
Fan efficiency (%)	η_{rA}	72.7	69.6	64.5	53.1	49.7	46.0	43.1	35.1
Fan static efficiency (%)	η_{srA}	43.9	48.3	49.3	46.2	44.4	42.4	40.5	34.0

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材质说明（此页不做菲林）

材质：80克双胶纸黑白印

规格：210*297(mm)

A-B p25 增加 ZZKSN-2300-8-1+ZL-750*210*20-4 (shangqi) 内容