

AC AXIAL FANS

2023

www.nbare.nl



North Blade Air Refrigeration Engineering B.V designs electric motors and axial fans according to European quality standards. NBARE Specialized in designed external-rotor motor fans, EC fans, shaded pole motors and ECQ motors.

We set out with the aim of transferring our 16 years of experience in refrigeration engineering, which started in 2007, to our customers by establishing our own company in 2023.

Whether you are planning a new ventilation concept, or looking for a replacement for existing hardware, our Multiple Airflow Direction system provides customized solutions to your needs, by combining ventilation- and drive technology in a modular manner.

NBARE product range provides cost efficient, adaptable systems with high protection classes and fulfills national and international requirements (ErP2015, CE, UL). Our worldwide operating team is looking forward to support you with fast solutions to your ventilation and drive technology requirements.

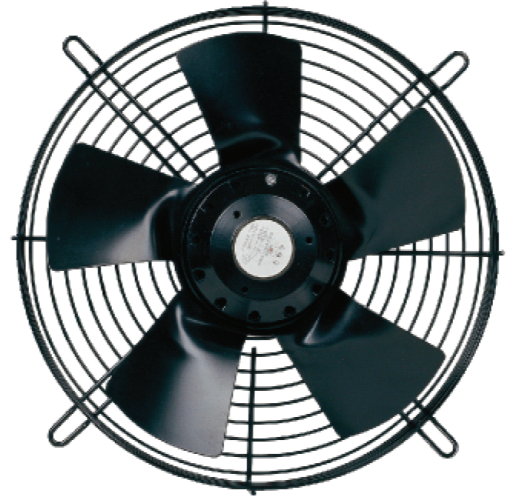
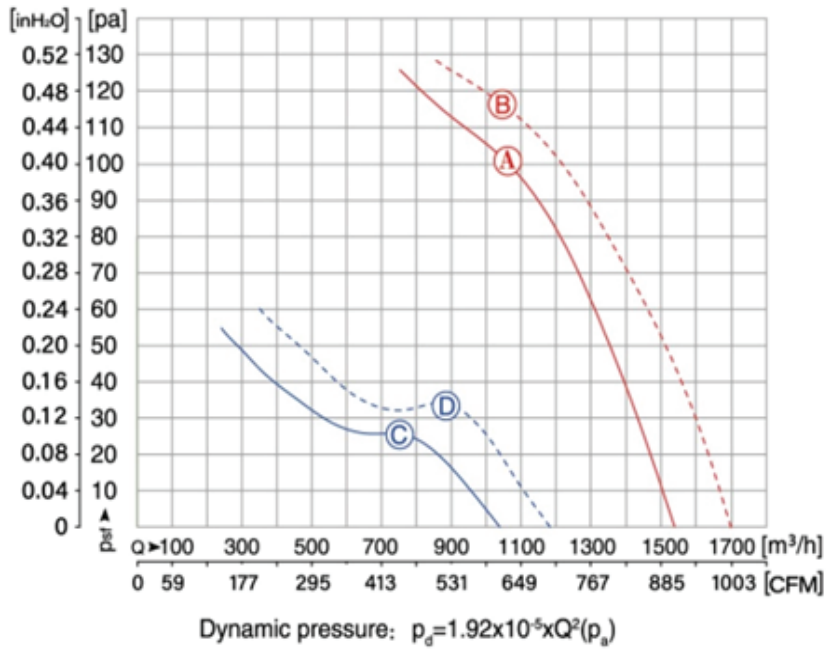
Our products are produced in first-class automatic production lines in accordance with ISO9001:2015 quality standards. Its quality is guaranteed.

NBARE offers:

- high efficiency
- high protection classes
- low noise levels
- flexible air flow direction
- high durability
- special corrosion-resistant materials

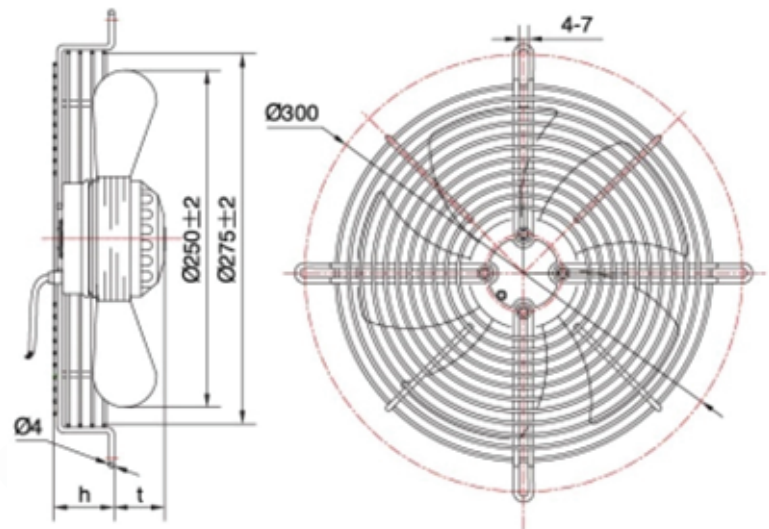
Note: Performance curve is tested with our wall plate.

AC AXIAL FANS Ø250mm



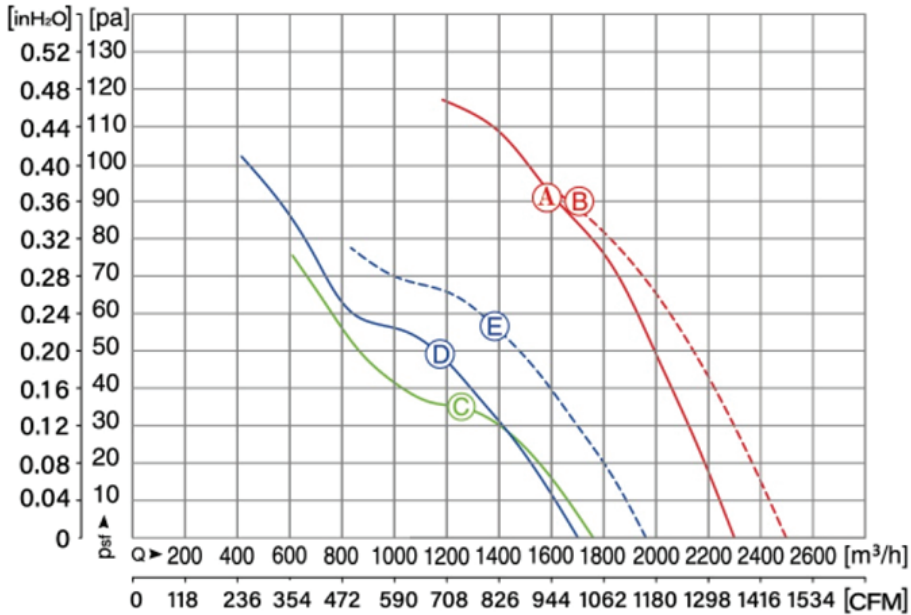
□-300P

Flat Screen Grid 300P		
Model	h	t
NB250P2	45	35
NB250P4	45	35
5-Blade / IP54		



Model	Voltage V	Freq. Hz	Capacitor µF/450V	Curve NO	Power W	RPM min-1	Current A	Temp. °C	Noise dB(A)
NB250P2-M56S1-S	1~220	50	3	A	114	2579	0,50	-40/+75	68
		60		B	154	2732	0,67	-40/+80	70
NB250P4-M56S1-S	1~220	50	2	C	45	1357	0,21	-40/+80	54
		60		D	62	1581	0,29	-40/+80	55

AC AXIAL FANS Ø300mm

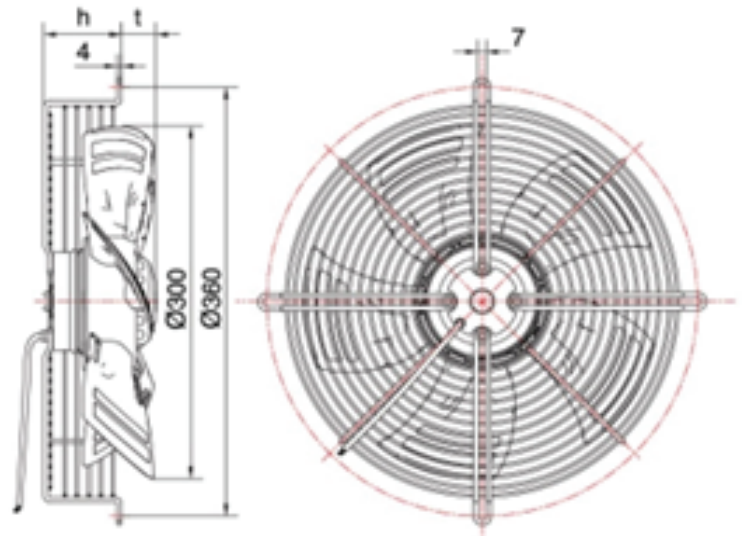


Dynamic pressure: $p_d = 9.26 \times 10^{-6} \times Q^2 (p_a)$



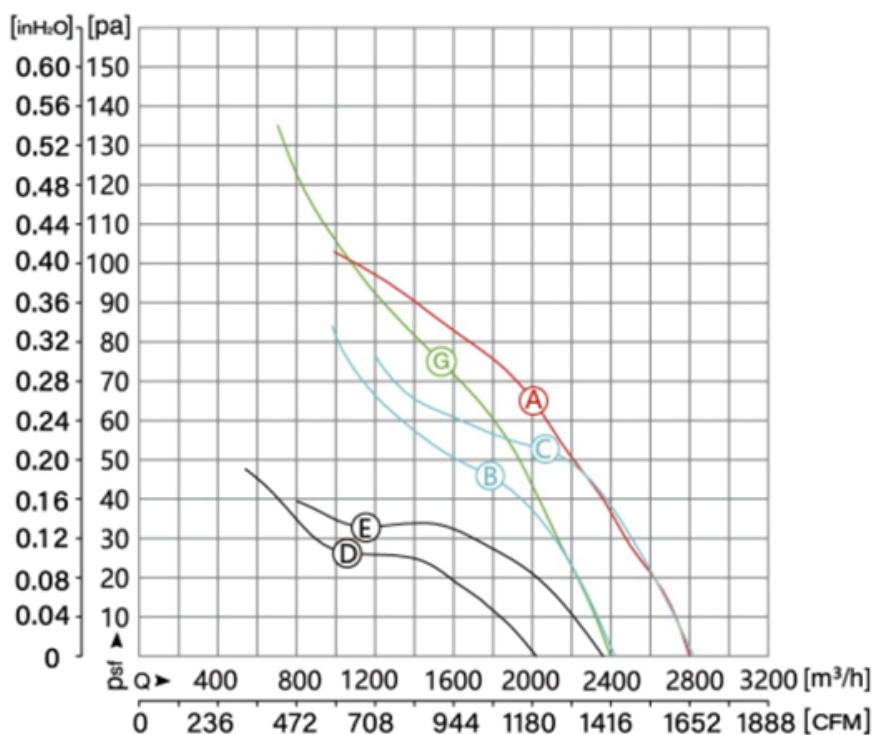
Flat Screen Grid 300P			
Model	h	t	
NB300P2	80	40	
NB300P4	80	40	
5-Blade / IP54			

□-360P



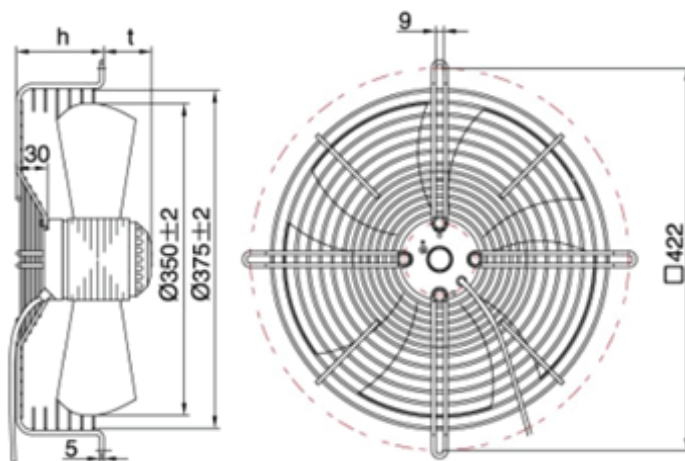
Model	Voltage V	Freq. Hz	Capacitor µF/450V	Curve NO	Power W	RPM min-1	Current A	Temp. °C	Noise dB(A)
NB300P2-M56S1-S	1~220	50	4	A	168	2592	0,73	-40/+70	70
		60		B	239	2792	1,04	-40/+65	73
NB300P4-M5S1-S	1~220	50	3	C	89	1354	0,41	-40/+75	59
NB300P4-M56S1-S	1~220	50	3	D	88	1355	0,37	-40/+75	58
		60		E	112	1546	0,48	-40/+80	61

AC AXIAL FANS Ø350mm



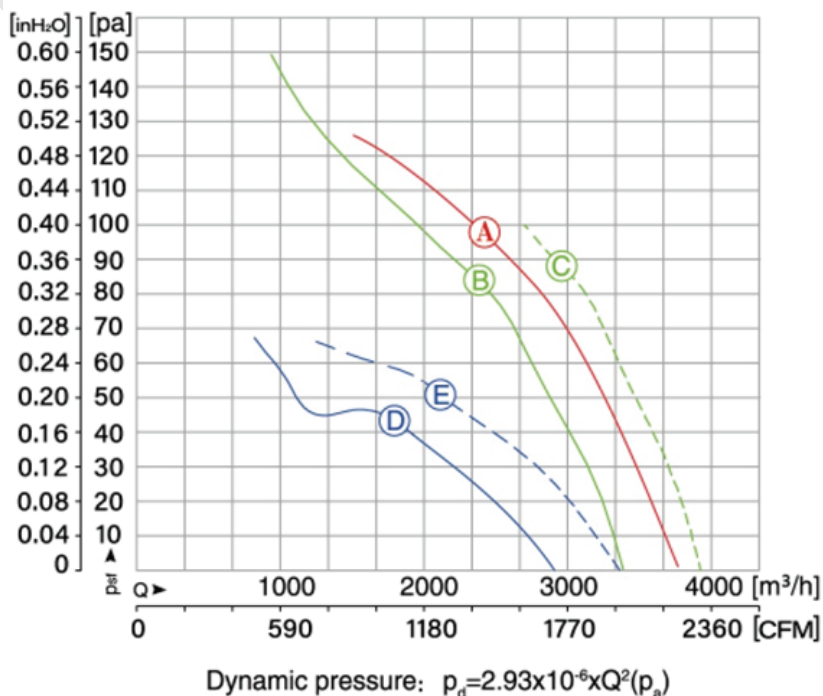
Flat Screen Grid 422N			
Model	h	t	
NB350P4	80	52	
NB350P6	80	52	
5-Blade / IP54			

□-422N



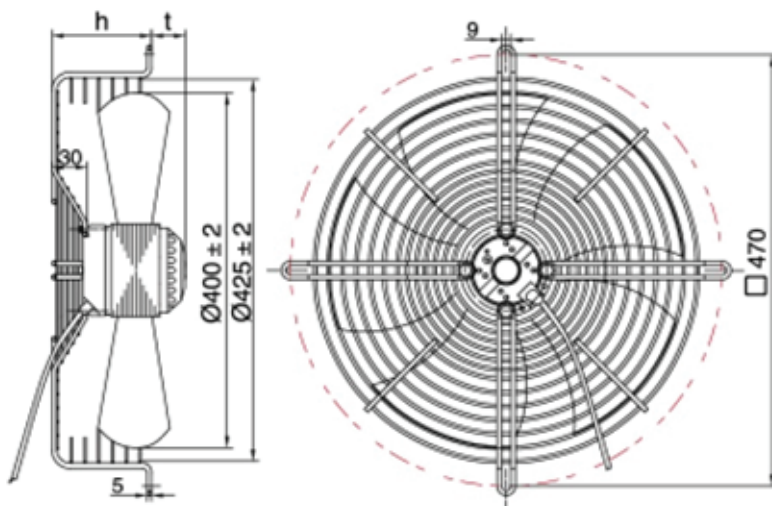
Model	Voltage V	Freq. Hz	Capacitor µF/450V	Curve NO	Power W	RPM min-1	Current A	Temp. °C	Noise dB(A)
NB350P4-M5S1-S	1~220	50	4	A	147	1353	0,67	-40/+80	63
NB350P4-M56S1-S	1~220	50	4	B	118	1387	0,56	-40/+80	62
		60		C	161	1575	0,73		66
NB350P6-M56S1-S	1~220	50	4	D	77	903	0,35	-40/+80	55
		60		E	99	1018	0,47		56
NB350P4-T5S1-S	3~380	50	---	F	164	1374	0,38	-40/+80	63
NB350P4-T56S1-S	3~380	50	---	G	121	1397	0,28	-40/+80	63
		60		H	160	1556	0,30		-40/+80

AC AXIAL FANS Ø400mm



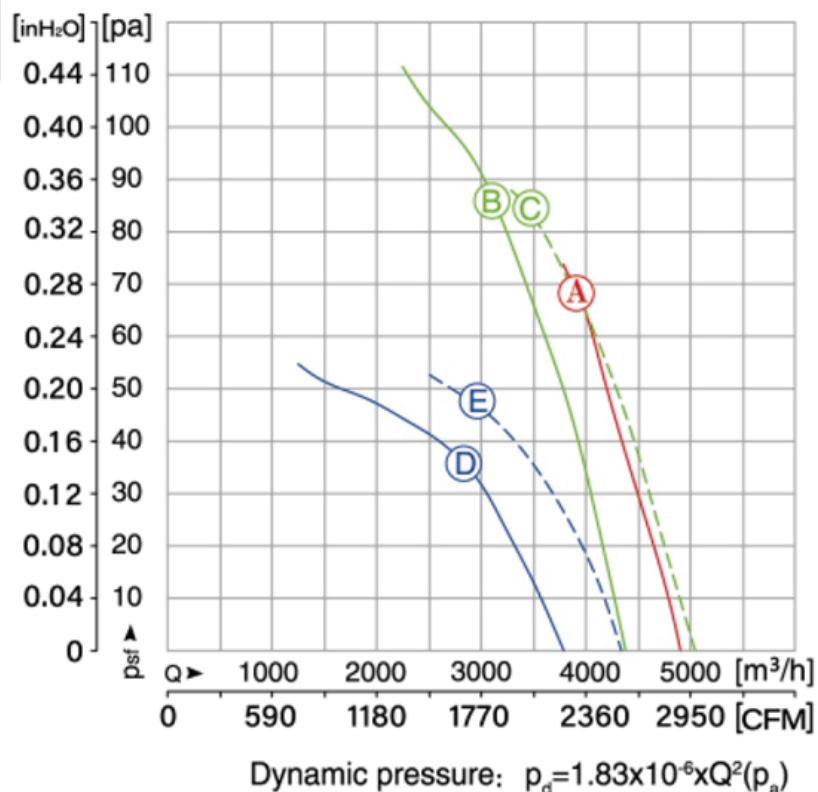
□-470N

Flat Screen Grid 470N		
Model	h	t
NB400P4	90	57
NB400P6	90	57
5-Blade / IP54		



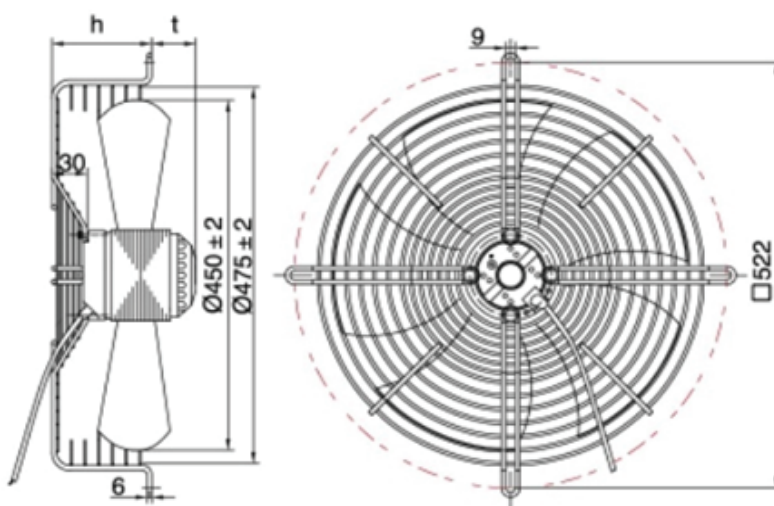
Model	Voltage V	Freq. Hz	Capacitor µF/450V	Curve NO	Power W	RPM min-1	Current A	Temp. °C	Noise dB(A)
NB400P4-M5S1-S	1~220	50	6	A	219	1352	1,00	-40/+75	68
NB400P4-M56S1-S	1~220	50	6	B	179	1378	0,84	-40/+80	67
		60		C	241	1564	1,10	-40/+80	69
NB400P6-M56S1-S	1~220	50	5	D	113	909	0,52	-40/+75	58
		60		E	145	1040	0,68	-40/+75	59

AC AXIAL FANS Ø450mm



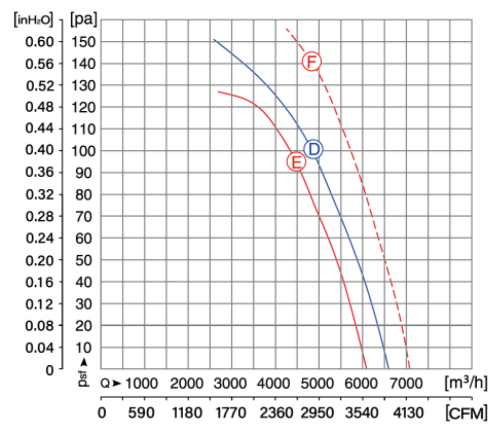
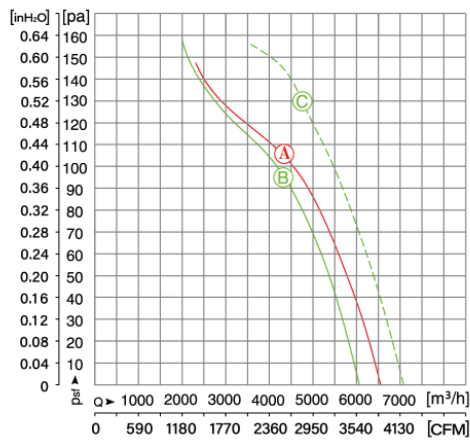
Flat Screen Grid 522N		
Model	h	t
NB450P4	90	70
NB450P6	90	70
5-Blade / IP54		

□-522N



Model	Voltage V	Freq. Hz	Capacitor µF/450V	Curve NO	Power W	RPM min-1	Current A	Temp. °C	Noise dB(A)
NB450P4-M5S1-S	1~220	50	8	A	249	1339	1,13	-40/+80	69
NB450P4-M56S1-S	1~220	50	8	B	249	1362	1,14	-40/+80	68
		60		C	355	1424	1,61	-40/+80	69
NB450P6-M56S1-S	1~220	50	6	D	149	891	0,70	-40/+70	60
		60		E	191	981	0,87	-40/+75	62

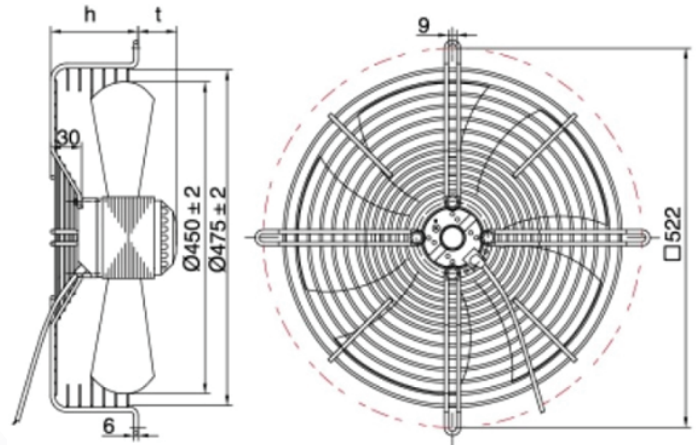
AC AXIAL FANS Ø450mm



动压 / Dynamic pressure: $p_d = 1.83 \times 10^{-6} \times Q^2 (p_a)$

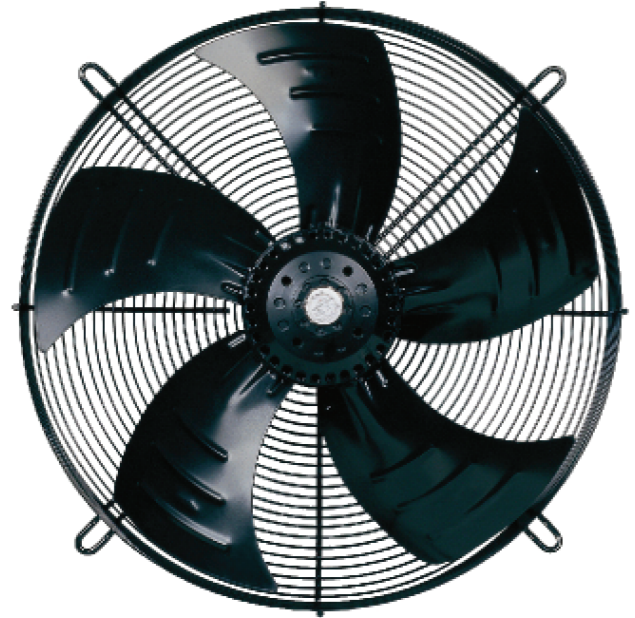
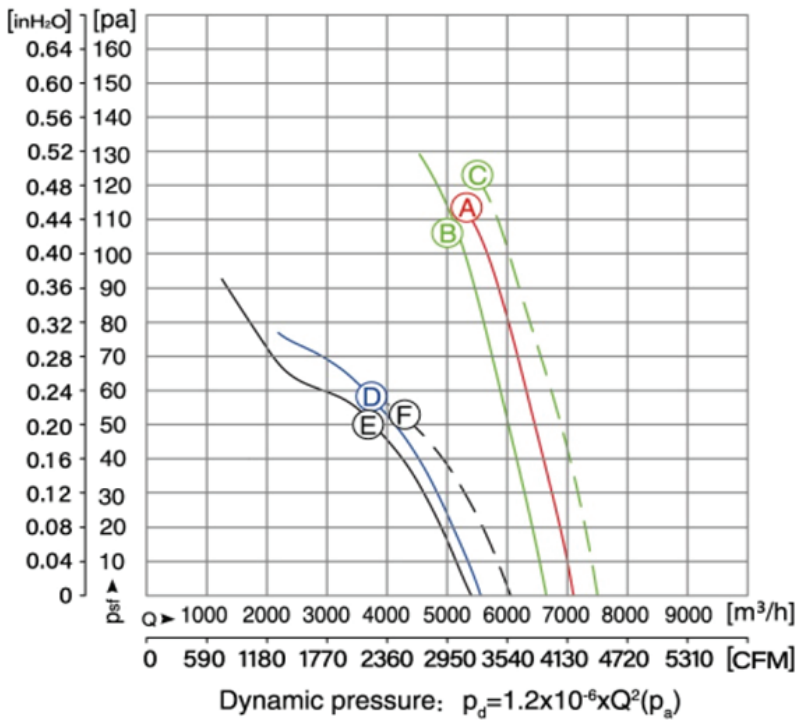
Flat Screen Grid 522N		
Model	h	t
NB450P4	90	57
NB450P6	90	57
5-Blade / IP54		

□-522N

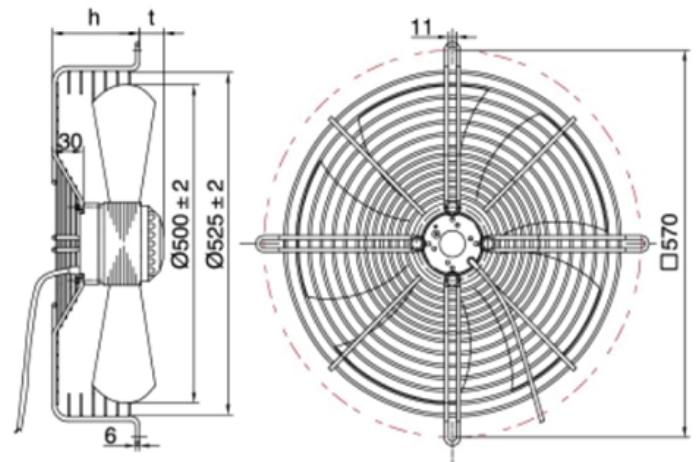


Model	Voltage V	Freq. Hz	Capacitor µF/450V	Curve NO	Power W	RPM min-1	Current A	Temp. °C	Noise dB(A)
NB450P4-M5S2-S	1~220	50	16	A	521	1387	2,36	-40/+80	73
NB450P4-M56S2-S	1~220	50	16	B	438	1412	2,00	-40/+85	71
		60		C	676	1600	3,09	-40/+80	74
NB450P4-T5S2-S	3~380	50	---	D	498	1404	1,11	-40/+80	73
NB450P4-T56S2-S	3~380	50	---	E	433	1419	1,00	-40/+85	71
		60		F	667	1627	1,18	-40/+80	74

AC AXIAL FANS Ø500mm



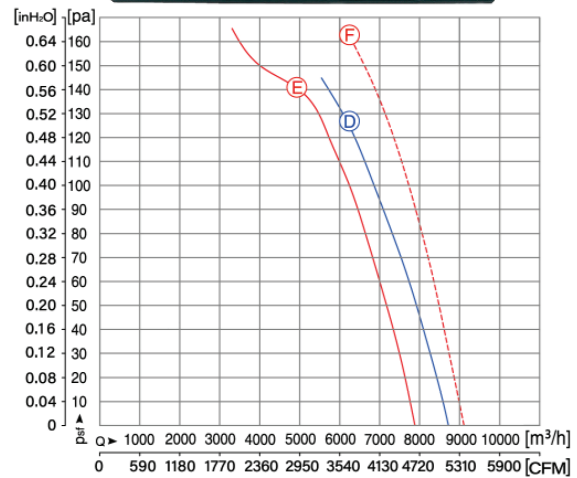
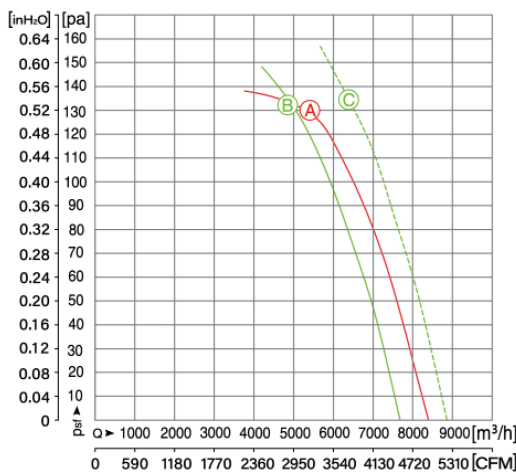
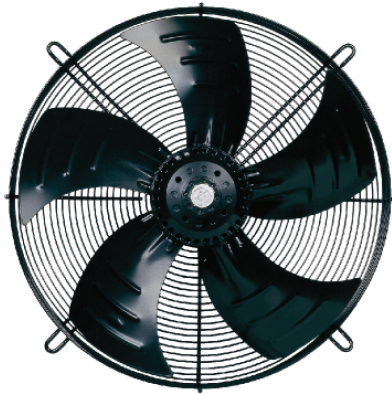
□-570N



Flat Screen Grid 300P		
Model	h	t
NB500P4	90	57
NB500P6	90	57
5-Blade / IP54		

Model	Voltage V	Freq. Hz	Capacitor µF/450V	Curve NO	Power W	RPM min-1	Current A	Temp. °C	Noise dB(A)
NB500P4-M5S1-S	1~220	50	12	A	513	1345	2,33	-40/+65	71
NB500P4-M56S1-S	1~220	50	12	B	468	1380	2,22	-40/+85	71
		60		C	731	1488	3,36	-40/+60	73
NB500P6-M5S1-S	1~220	50	10	D	246	880	1,12	-40/+70	66
NB500P6-M56S1-S	1~220	50	10	E	240	898	1,09	-40/+70	66
		60		F	330	958	1,51	-40/+75	68

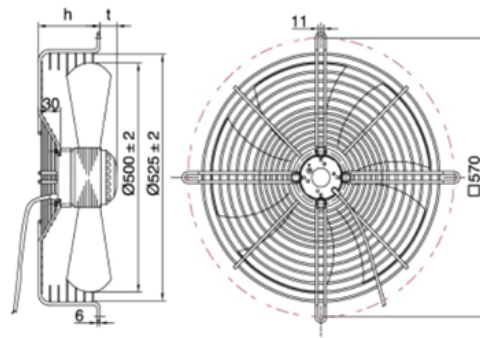
AC AXIAL FANS Ø500mm



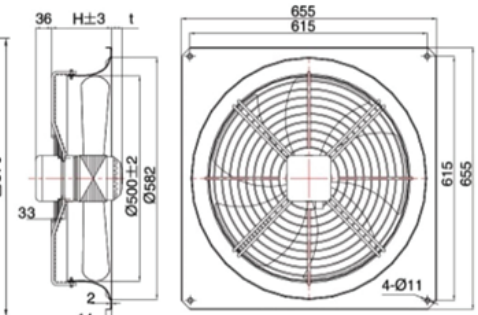
动压 / Dynamic pressure: $p_d = 1.2 \times 10^{-6} \times Q^2 (p_a)$

Flat Screen Grid 570N		
Model	h	t
NB500P4	90	72
NB500P4	90	72
Wall Plate 615H		
NB500P4	145	27
NB500P6	145	27
5-Blade / IP54		

□-570N

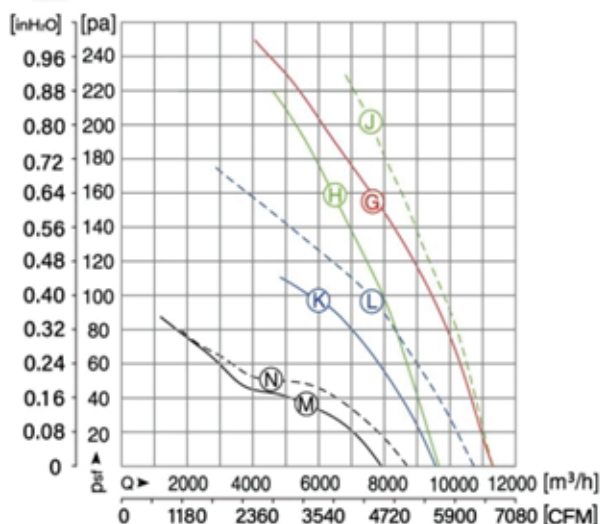
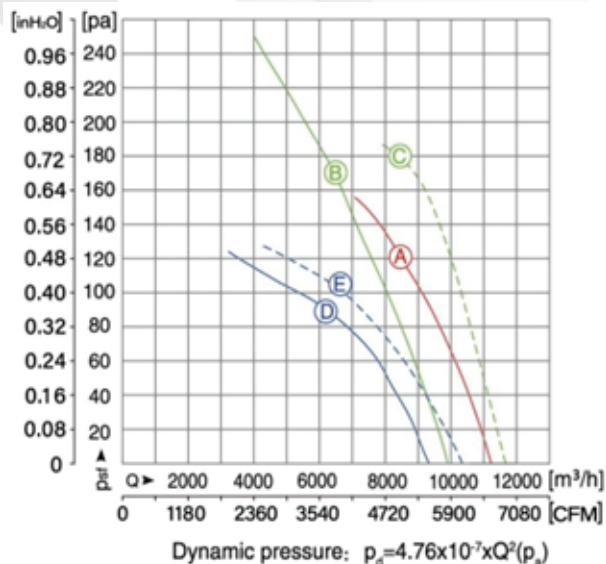


□-615H

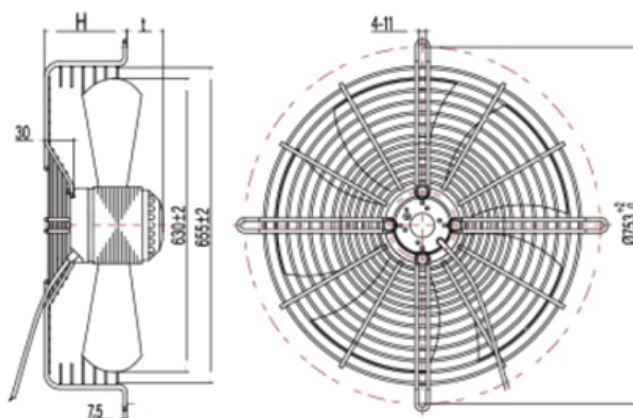


Model	Voltage V	Freq. Hz	Capacitor µF/450V	Curve NO	Power W	RPM min-1	Current A	Temp. °C	Noise dB(A)
NB500P4-M5S2-S	1~220	50	20	A	710	1364	3,23	-40/+70	73
NB500P4-M56S2-S	1~220	50	29	B	591	1387	2,69	-40/+80	72
		60		C	897	1566	4,10	-40/+65	75
NB500P4-T5S2-S	3~380	50	---	D	733	1369	1,57	-40/+70	73
NB500P4-T56S2-S	3~380	50	---	E	616	1401	1,38	-40/+80	72
		60		F	948	1594	1,62	-40/+65	75

AC AXIAL FANS Ø630mm



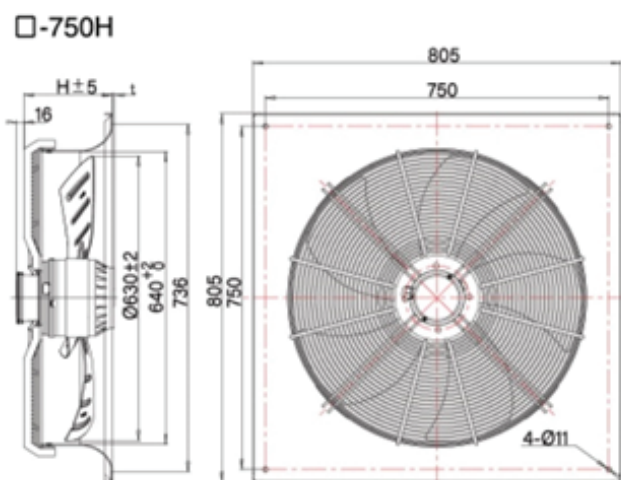
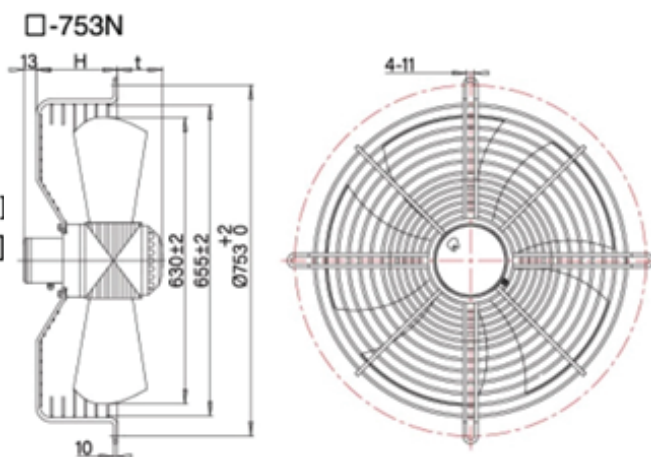
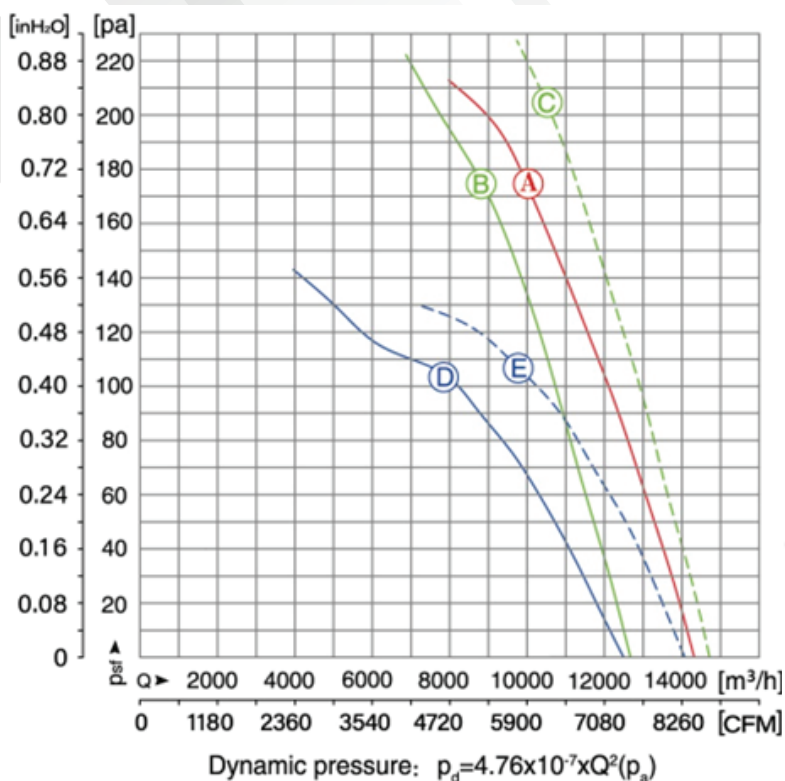
□-753N



Flat Screen Grid 753N		
Model	h	t
NB630P4	100	80
NB630P6	100	80
NB630P8	100	80
5-Blade / IP54		

Model	Voltage V	Freq. Hz	Capacitor μF/450V	Curve NO	Power W	RPM min-1	Current A	Temp. °C	Noise dB(A)
NB630P4-M5S1-S	1~220	50	20	A	892	1349	4,04	-40/+70	76
NB630P4-M56S1-S	1~220	50	20	B	805	1398	3,86	-40/+80	75
		60		C	1193	1576	5,45	-40/+65	78
NB630P6-M56S1-S	1~220	50	16	D	479	919	2,22	-40/+80	71
		60		E	662	1038	3,01	-40/+80	74
NB630P4-T5S1-S	3~380	50	---	G	937	1378	1,75	-40/+70	77
NB630P4-T56S1-S	3~380	50	---	H	735	1406	1,60	-40/+80	75
		60		J	1131	1600	1,97	-40/+65	73
NB630P6-T56S1-S	3~380	50	---	K	485	925	1,23	-40/+85	70
		60		L	652	1063	1,30	-40/+85	74
NB630P6-T56S1-S	3~380	50	---	M	317	661	0,69	-40/+70	64
		60		N	427	706	0,77	-40/+65	65

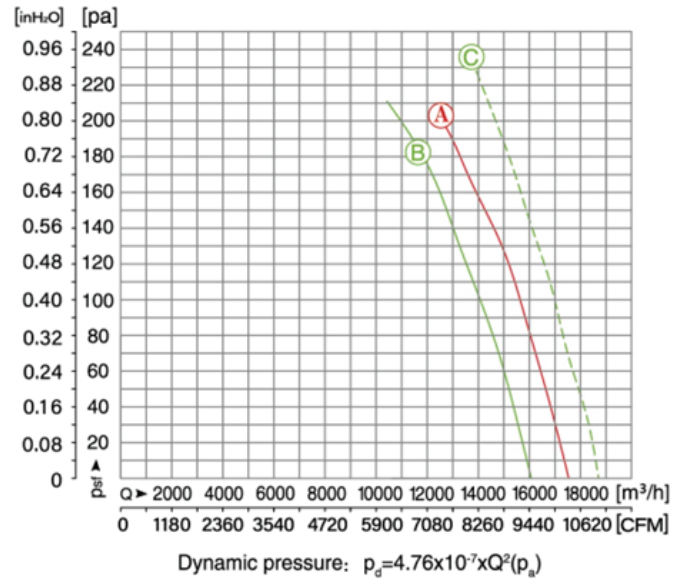
AC AXIAL FANS Ø630mm



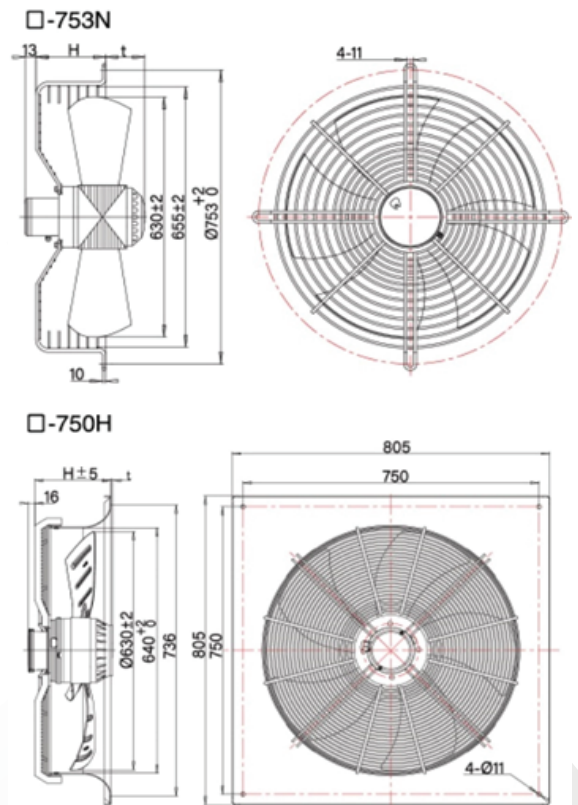
Flat Screen Grid 753N		
Model	h	t
NB630P4	100	90
NB630P6	100	90
Wall Plate 750H		
NB630P4	195	5
NB630P6	195	5
5-Blade / IP54		

Model	Voltage V	Freq. Hz	Capacitor µF/450V	Curve NO	Power W	RPM min-1	Current A	Temp. °C	Noise dB(A)
NB630P4-T5S2-S	3~380	50	---	A	1442	1369	2,65	-40/+55	78
NB630P4-T56S2-S		50		B	1219	1397	2,34	-40/+65	77
	NB630P6-T56S2-S	3~380	60	C	1954	1563	3,25	-40/+50	80
50			D	777	906	1,69	-40/+65	71	
NB630P6-T56S2-S	3~380	60	---	E	1172	1014	2,07	-40/+55	74

AC AXIAL FANS Ø630mm

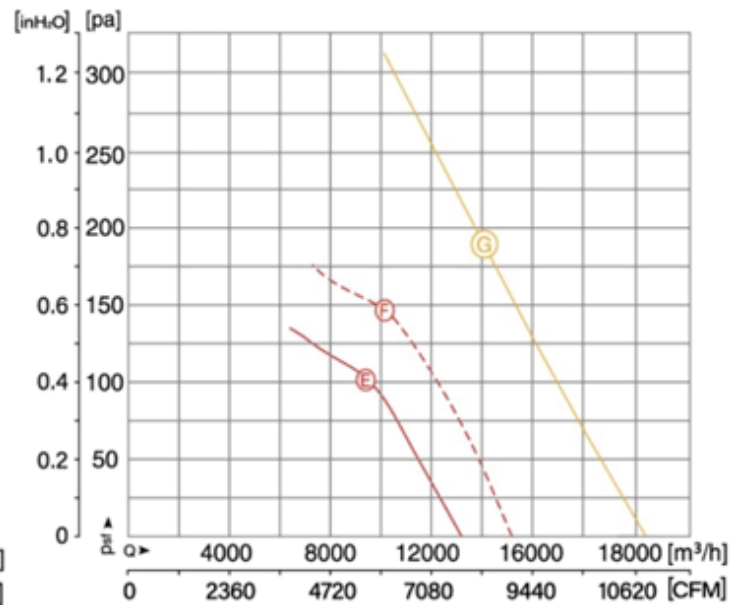
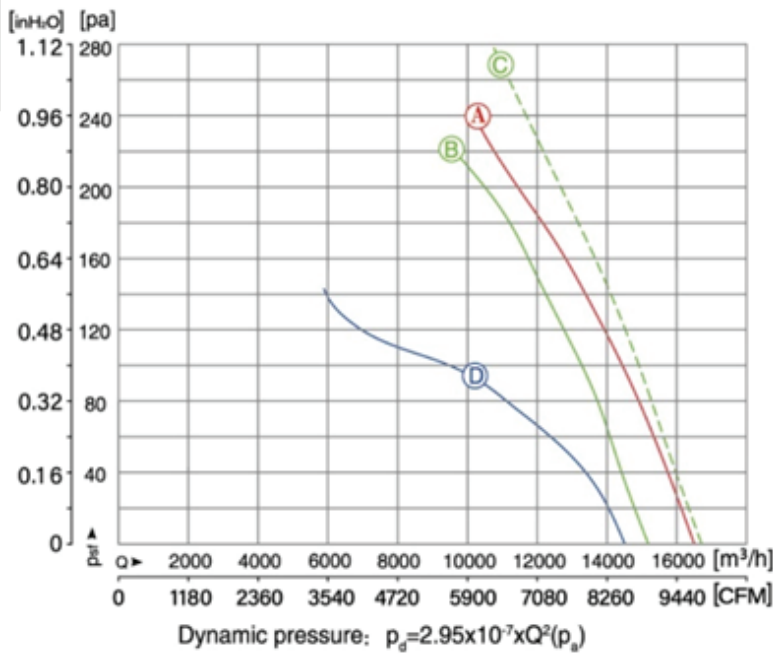


Flat Screen Grid 753N			
Model	h	t	
NB630P4	100	90	
NB630P6	100	90	
Wall Plate 750H			
NB630P4	195	5	
NB630P6	195	5	
7-Blade / IP54			

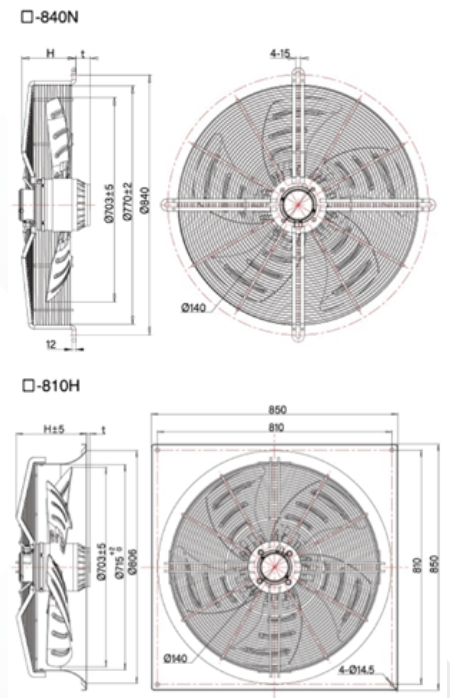


Model	Voltage V	Freq. Hz	Capacitor µF/450V	Curve NO	Power W	RPM min-1	Current A	Temp. °C	Noise dB(A)
NB630P4-T5S3-S	3~380	50	---	A	2331	1395	4,48	-40/+50	81
NB630P4-T56S3-S	3~380	50	---	B	1712	1420	3,49	-40/+60	79
		60		C	2636	11631	4,47	-40/+50	83

AC AXIAL FANS Ø710mm

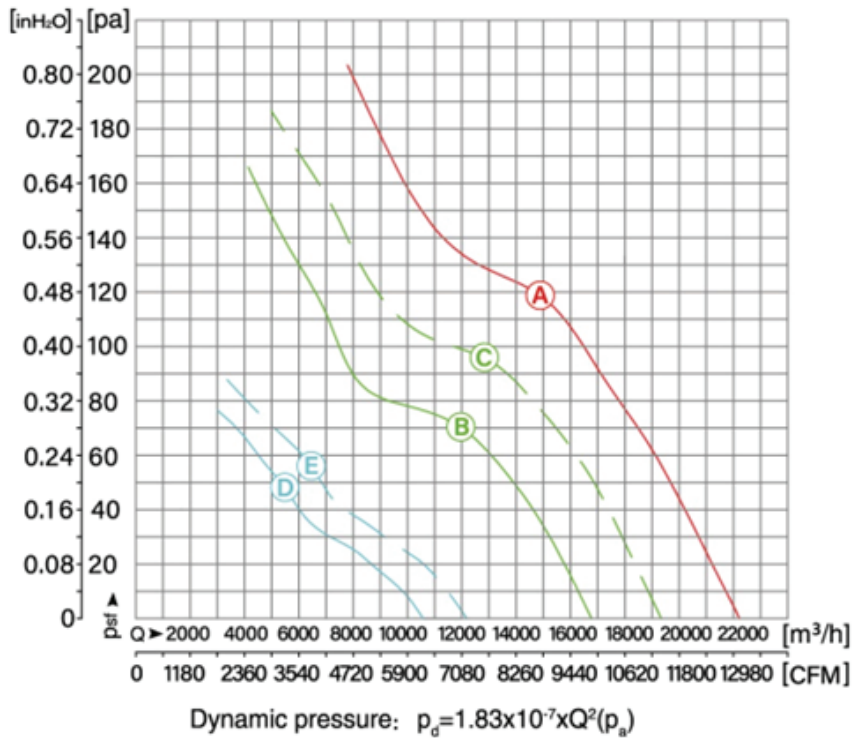


Flat Screen Grid 753N		
Model	h	t
NBSWF127L65P4-710	175	45
NBSWF127L65P6-710	175	45
NBSWF127L80P4-710	175	60
Wall Plate 750H		
NBSWF127L65P4-710	242	--
NBSWF127L65P6-710	242	--
NBSWF127L80P4-710	242	12
5-Blade / IP54		



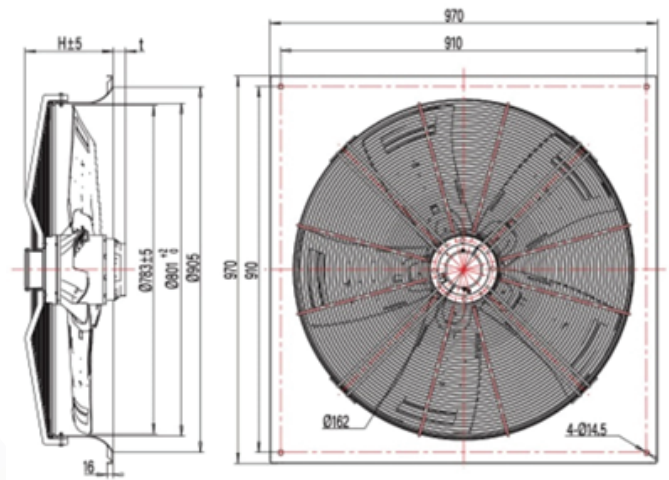
Model	Voltage V	Freq. Hz	Capacitor µF/450V	Curve NO	Power W	RPM min-1	Current A	Temp. °C	Noise dB(A)
NBSWF127L65P4-710	3~380	50	---	A	1862	1383	3,56	-40/+50	81
NBSWF127L65P4-710	3~380	50	---	B	1621	1399	2,98	-40/+55	80
		60		C	2340	1594	3,98	-40/+50	83
NBSWF127L65P6-710	3~380	50	---	D	1022	922	2,49	-40/+70	75
NBSWF127L65P6-710	3~380	50	---	E	803	944	2,33	-40/+75	74
		60		F	1205	1081	2,47	-40/+75	77
NBSWF127L89P4-710	3~380	50	---	G	2170	1396	3,80	-40/+60	81

AC AXIAL FANS Ø800mm



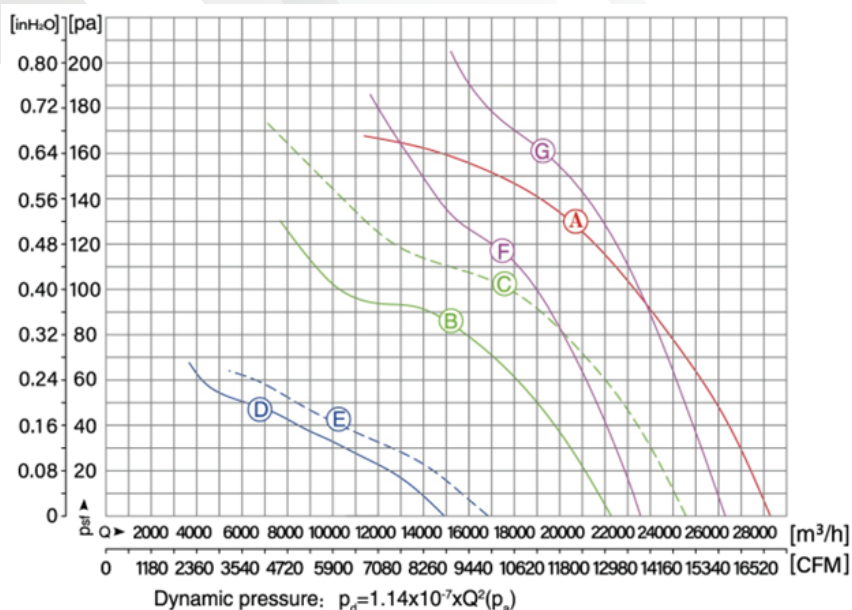
□-910H

Wall Plate 910H		
Model	h	t
NB800P6	248	20
NB800P8	248	20
NB800P12	248	--
5-Blade / IP54		



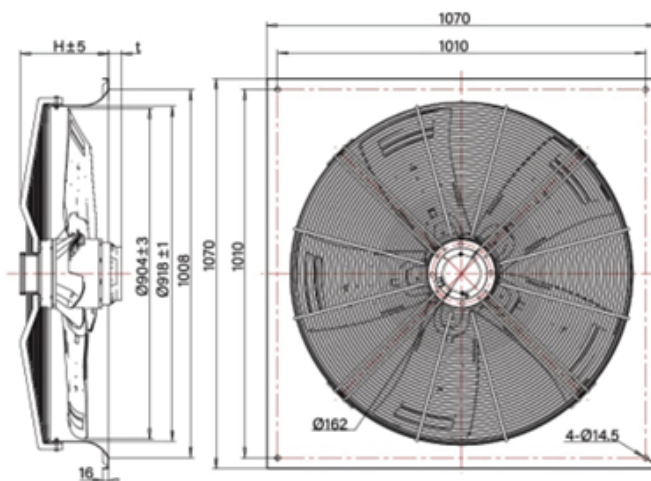
Model	Voltage V	Freq. Hz	Capacitor µF/450V	Curve NO	Power W	RPM min-1	Current A	Temp. °C	Noise dB(A)
NB800P6-T5W1-S	3~380	50	---	A	1923	925	4,21	-40/+65	76
NB800P8-T56W1-S	3~380	50	---	B	918	702	2,30	-40/+65	73
		60		C	1385	795	2,60		75
NB800P12-T56W1-S	3~380	50	---	D	349	444	0,98	-40/+65	59
		60		E	457	492	1,01		62

AC AXIAL FANS Ø900mm



Wall Plate 1010H		
Model	h	t
NB900P6	242	45
NB900P8	242	45
NB900P12	242	--
5-Blade / IP54		

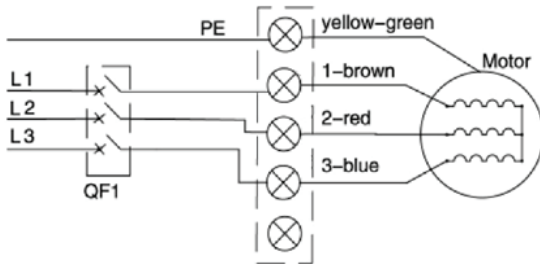
□-1010H



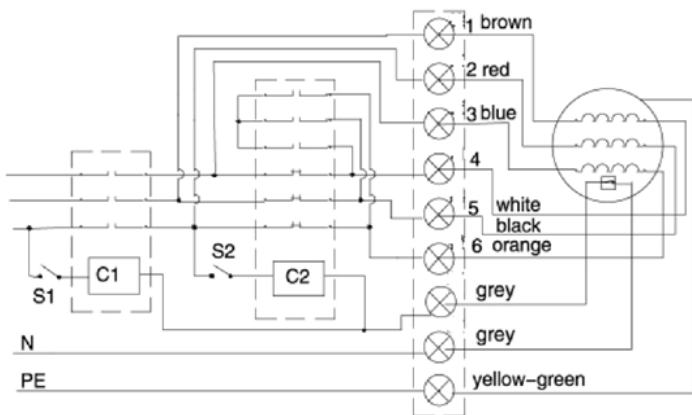
Model	Voltage V	Freq. Hz	Capacitor µF/450V	Curve NO	Power W	RPM min-1	Current A	Temp. °C	Noise dB(A)
NB900P6-T5W1-S	3~380	50	---	A	2579	886	5,15	-40/+50	77
NB900P8-T56W1-S	3~380	50	---	B	1268	691	2,91	-40/+65	71
		60		C	1851	779	3,39	-40/+65	73
NB900P12-T56W1-S	3~380	50	---	D	393	434	1,02	-40/+65	63
		60		E	514	472	1,10	-40/+65	65
NB900P6-T56W1-S	3~380	50	---	F	1761	942	4,14	-40/+50	76
		60		G	2690	1079	4,91	-40/+50	78

WIRING DIAGRAMS

1、Wiring diagram for three phase motor common wiring, without TP

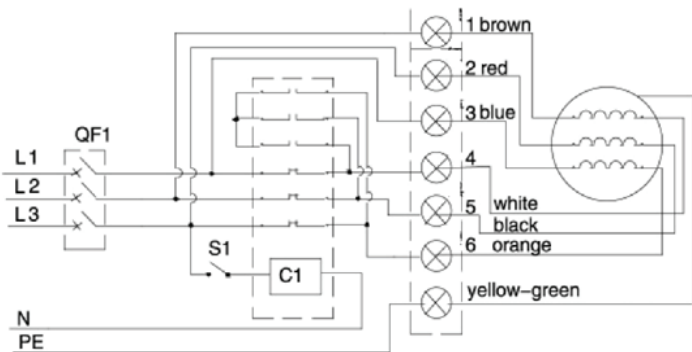


2、Wiring diagram for three phase motor with Y/Δ transformation, with TP



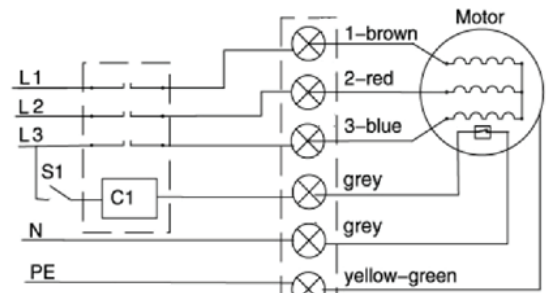
C1- Contactor, fan runs when S1 ON.
C2- Y/Δ transformer, Δ circuit when S2 OFF; Y circuit when S2 ON.

3、Wiring diagram for three phase motor with Y/Δ transformation, without TP.



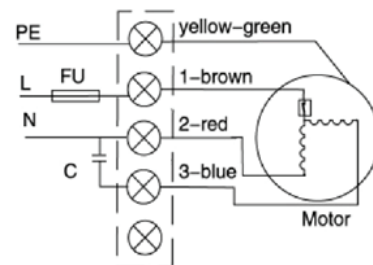
QF1- Air circuit-breaker, fan runs when QF1 ON.
C1- Y/Δ transformer, Δ circuit when S1 OFF; Y circuit when S1 ON.

4、Wiring diagram for three phase motor with TP

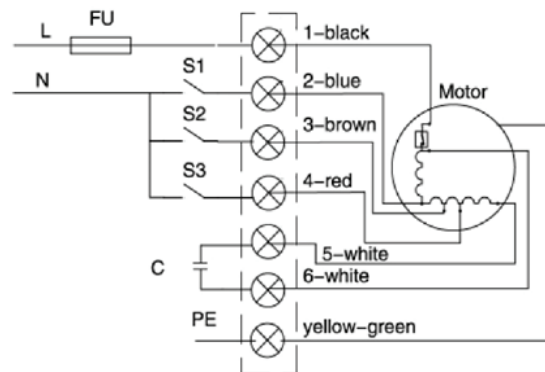


C1- Contactor, fan runs when S1 ON.

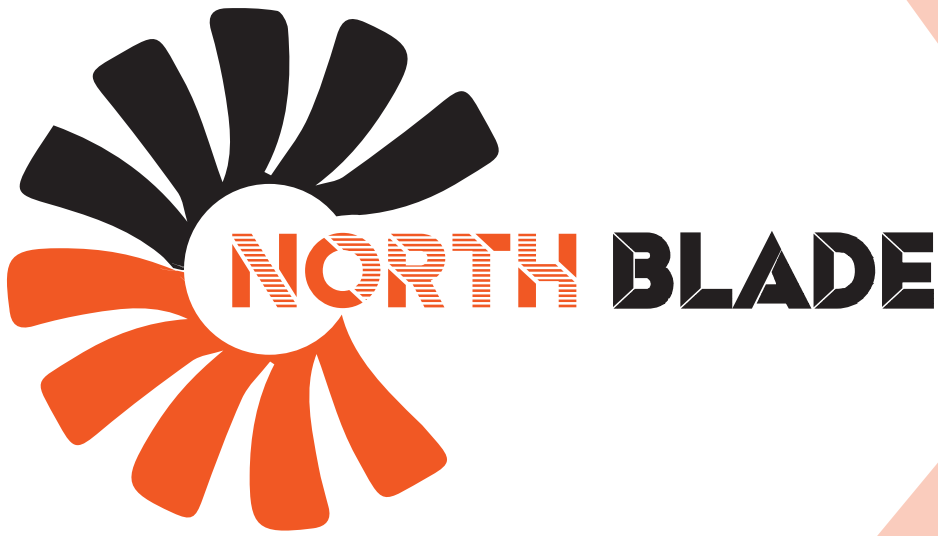
5、Wiring diagram for single phase motor common wiring



6、Wiring diagram for single phase motor with speed tapping changing



S1, S2, S3 must be locked down by each other, each time only one switch can be turn ON.
S1, S2, S3 are switches for HIGH, MIDDLE and LOW speed each.
Motor running should be started from S1 ON circuit.



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