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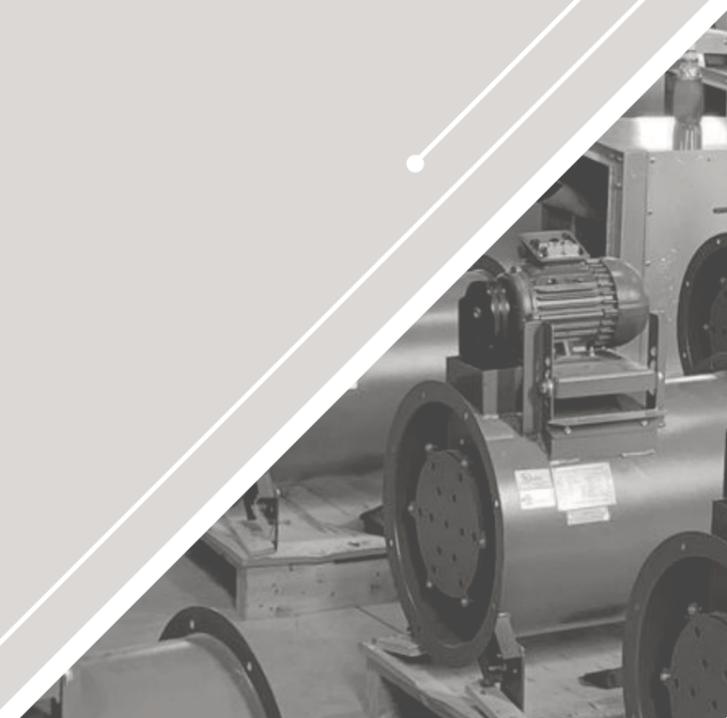
**INFINAIR ARABIA CO. LTD BRANCH**  
Kingdom of Saudi Arabia

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# RUC

**Power Ventilator Centrifugal  
(UP-Blast Rooftop Fan)**



INFINAIR ARABIA COMPANY LTD BRANCH certifies that Backward Curved Centrifugal Up-blast fan Model (RUC) shown herein is licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program



**INFINAIR**<sup>TM</sup>  
**INFINAIR ARABIA CO. LTD.**



## ABOUT US:

INFINAIR ARABIA is one of the pioneer fans & manufacturing company in MENA. It is a partner to INFINAIR Corporation, which was established in 2003. In the last two decades, INFINAIR Corporation has expanded worldwide. In 2018, INFINAIR was established a production factory in the Kingdom of Jordan, Amman – Mowaqqar Industrial City, and in 2022, INFINAIR had expanded a new factory in Saudi Arabia. INFINAIR ARABIA focuses on Quality Management to develop the system, processes, and work professionalism. INFINAIR is a certified company by ISO9001, ISO14001, and ISO45001. INFINAIR ARABIA has invested in Research & Development to certify the products by AMCA, UL, ETL, SMOKE, and RoHS. Today, INFINAIR ARABIA supplies to all Middle East & North Africa Countries and participates in MENA projects.



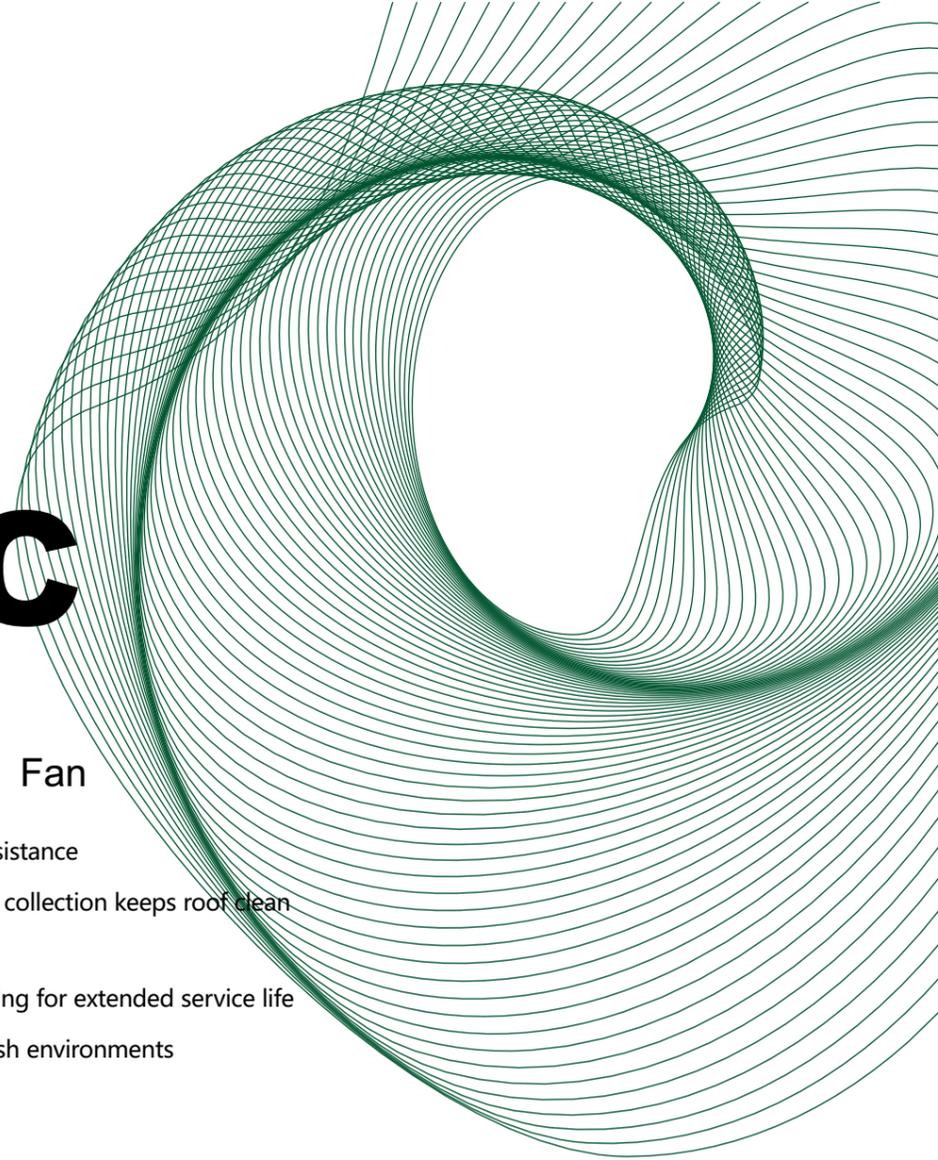
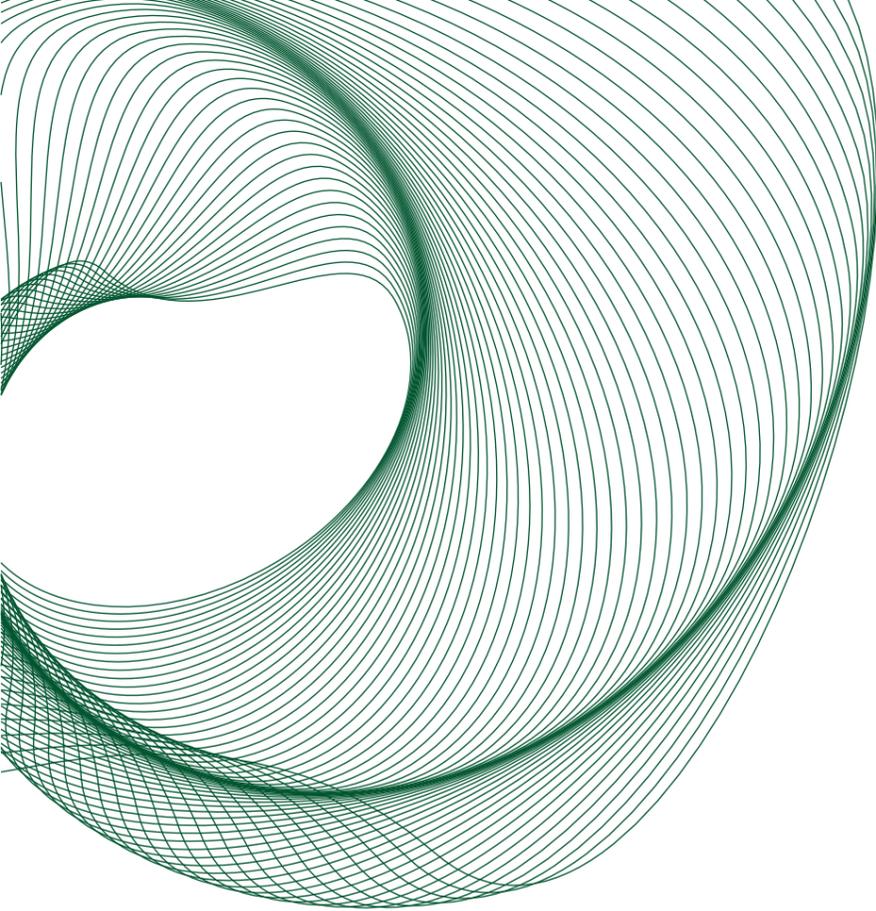
INFINAIR ARABIA achieved SAUDI MADE Authorization & Accreditation Mark. It is contributing to Saudi Made local contents and fulfills the 2030 vision. INFINAIR ARABIA is very active in the Saudi Market and supports many projects.

INFINAIR™  
شركة إنفينير العربية  
INFINAIR ARABIA CO. LTD.

## PRODUCTION AND FABRICATIONS



INFINAIR ARABIA supplies to many factories, hospitals, universities, malls, towers, oil & gas plants, water desalination, and several others.



**INFINAIR™**

# RUC

## Rooftop Up-blast Centrifugal Fan

- Upblast discharge design for lower system resistance
- Automatic liquid contaminant separation and collection keeps roof clean
- High balancing grade up to G2.5 (AMCA 204)
- Isolated motor compartment with active cooling for extended service life
- High-strength aluminum construction for harsh environments

**5G Wind-Surfer™ Wheel: Special for Aluminum Roof Fans**

Novel design overturning the tradition

The first centrifugal wheel in China for aluminum roof fans

With innovation based on advanced passage through constraint idea from abroad

Leading efficiency and noise advantage

Highly efficient area width, no overload

Internationally advanced process is adopted for better conformity with characteristics of the flow field

Flow passage components are spin formed, in replacement of the traditional process

The blade is formed at one time by pressing, having ensured the processing quality

Special machine, mould and tooling design have ensured the molding and positioning precision

Wind-Surfer™ wheel comes to its fifth generation(5G)

Continuous improvement, constant promotion

Higher energy efficiency, lower energy waste

Less noise, more quietness



Steel wheel optional for smoke applications

Whole aluminum alloy, light weight and inborn explosion-proof

Metal texture promotes the taste

Light weight accounting for only 1/3 of that of the traditional

Having reached the highest explosion-proof class SPACK A

**Product Feature**

Structure:  
Upblast exhaust air, no pollution and high pressure

Upblast direction, quickly dilute the polluted air, environmental friendly

Avoid pollution on the roof

Avoid polluted air re-circulate into building

Replace chimney, save investment and improve building appearance

Centrifugal principle: reducing concentration while exhausting air

Impeller rotate at high speed: Centrifugalize grease or liquid contamination

Swung to the windband, flow down to the collection box

Reducing the concentration of polluted air, in order to matched environment protection requirement

Isolated motor chamber: positive cooling system

Motor/drive located in independent chamber: isolated from exhaust air

Fresh air intake tube: cooling motor with fresh air

Auxiliary blades suck in fresh air: active cooling

Motor/bearing life extended, maintainess/cleaning easier



Material selection:  
beautiful appearance and endurable

Select high quality aluminum alloy with high strength

Light, reduce the load of the roof

Resist wind, endurable sunlight; load of heavy snow, endurable the hostile climate

Streamlining, refine artisanship

Appearance in silvery white, match to the modern aesthetic

High pressure wheel: for high resistance system exhaust

Static pressure up to 900Pa

Suitable for long/thin duct, welding, dust generating or workplace exhaust

Special Air exhaust

- AMCA Spark A Spark Resistance Construction Type A as per AMCA 99
- 100°C Max. 100°C high temperature exhaust, active cooling ensured

Saturated wet air exhaust: through special drain design

Laboratory exhaust

Sticky air exhaust: wheel protected by non-stick coating

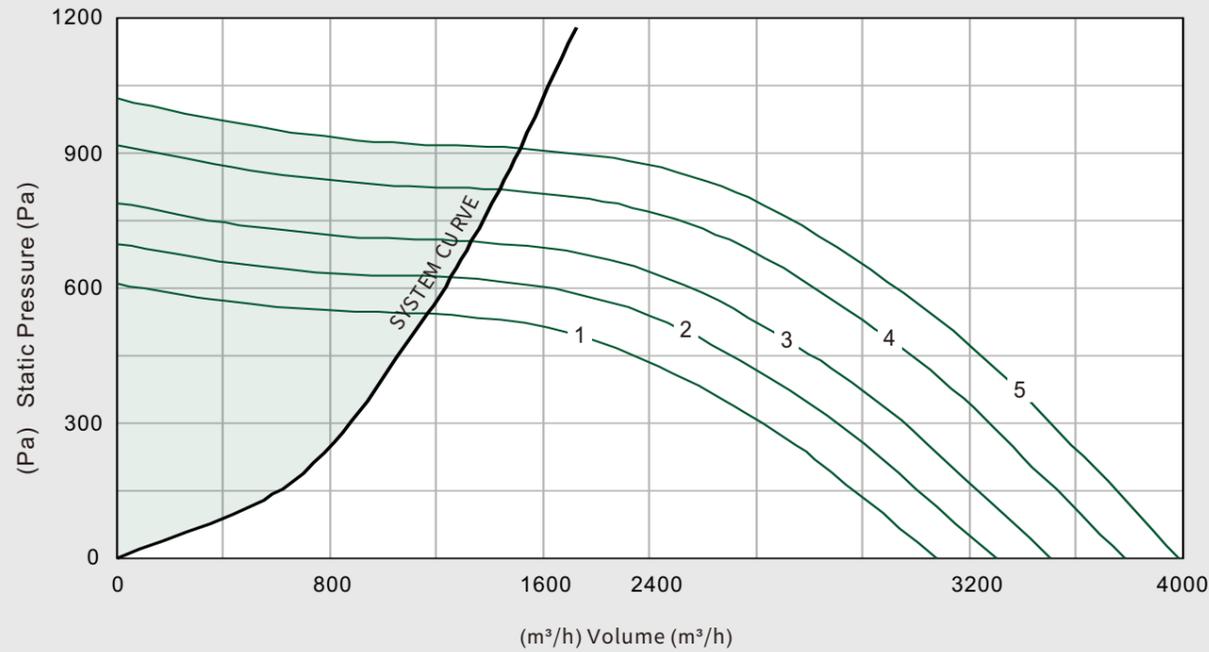
Carefully selected materials applicable to fire-fighting and coastal occasions

The strength is designed to be 200% of the highest rotating speed, and may fully satisfy the fire-fighting requirement

The material is resistant to neutral salt spray, and is widely used in the coastal regions

The rigorous experimental tests win trustworthiness

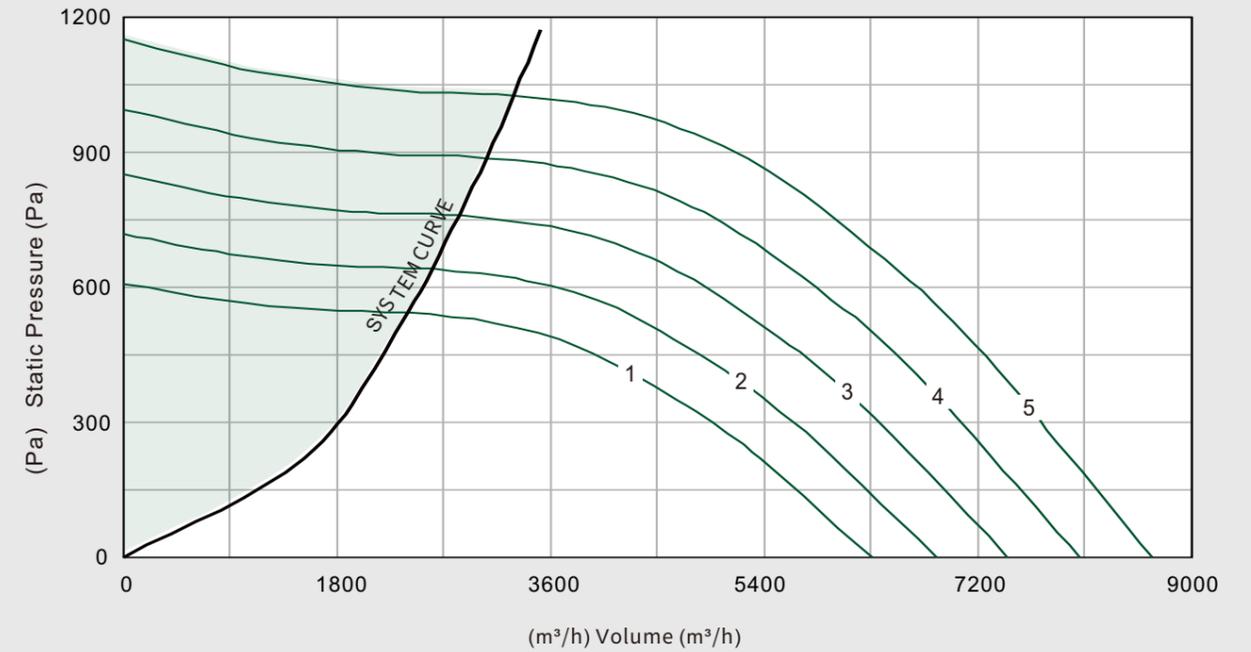
**RUC-300**  
Model:RUC-300



NO.	RPM	RUC-300		Pst(Pa)	Power(kW)	LWiA	dB(A)
		INFINAIR™	INFINAIR™				
1	2240		3082	1	0.636	85	73
			2552	251	0.664	82	71
			1872	469	0.673	79	68
			1170	543	0.569	79	68
2	2400		3302	1	0.782	86	75
			2735	288	0.817	84	72
			2006	538	0.828	81	69
			1254	623	0.700	81	69
3	2550		3508	1	0.938	88	76
			2906	325	0.980	85	74
			2131	608	0.993	83	71
			1332	704	0.839	83	71
4	2750		3783	2	1.177	90	78
			3134	378	1.229	87	76
			2298	707	1.245	84	73
			1436	818	1.053	85	73
5	2900		3990	2	1.380	91	79
			3304	421	1.441	89	77
			2424	786	1.460	86	74
			1515	910	1.235	86	74

Performance certified is for installation type A - free inlet, free outlet with partition, Performance ratings do not include the effects of appurtenances (accessories). Power rating (kW) includes transmission losses. Values shown are for inlet LwiA sound power levels for Installation Type A: Free inlet, free outlet with partition. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. dB(A) A-weighted sound pressure level is based on 11.5 dB sound attenuation at 1.5 m. Note that dB(A) levels are not licensed by AMCA International.

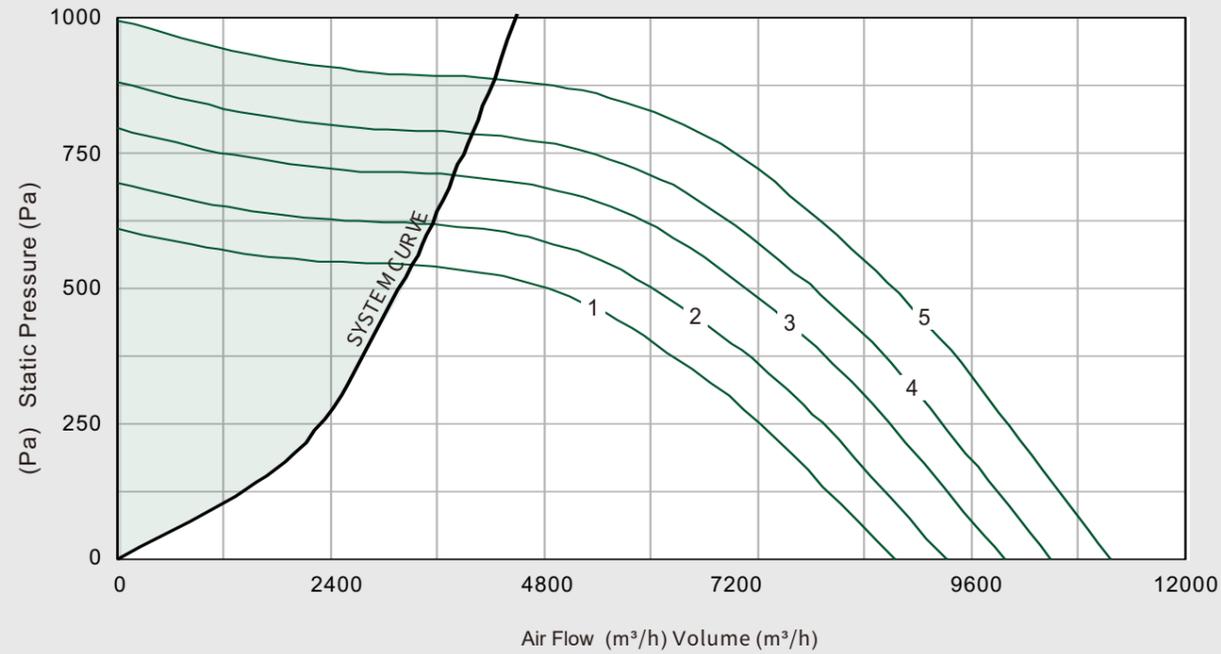
**RUC-425**  
Model:RUC-425



NO.	RPM	RUC-425		Pst(Pa)	Power(kW)	LWiA	dB(A)
		INFINAIR™	INFINAIR™				
1	1565		6309	1	1.301	86	75
			5225	251	1.359	83	72
			3832	469	1.377	80	69
			2395	543	1.164	80	69
			1565	6309	1	1.301	86
2	1700		6853	1	1.668	88	77
			5676	296	1.742	85	74
			4163	553	1.765	82	71
			2602	640	1.492	82	71
3	1850		7458	1	2.150	91	79
			6177	351	2.244	88	77
			4530	655	2.275	85	74
			2831	758	1.923	85	73
4	2000		8062	2	2.716	93	81
			6678	410	2.836	90	79
			4898	766	2.874	87	76
			3061	886	2.430	87	75
			2000	6678	410	2.836	90
5	2150		8667	2	3.374	95	83
			7179	473	3.523	92	80
			5265	885	3.571	89	77
			3291	1024	3.019	89	77

Performance certified is for installation type A - free inlet, free outlet with partition, Performance ratings do not include the effects of appurtenances (accessories). Power rating (kW) includes transmission losses. Values shown are for inlet LwiA sound power levels for Installation Type A: Free inlet, free outlet with partition. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. dB(A) A-weighted sound pressure level is based on 11.5 dB sound attenuation at 1.5 m. Note that dB(A) levels are not licensed by AMCA International.

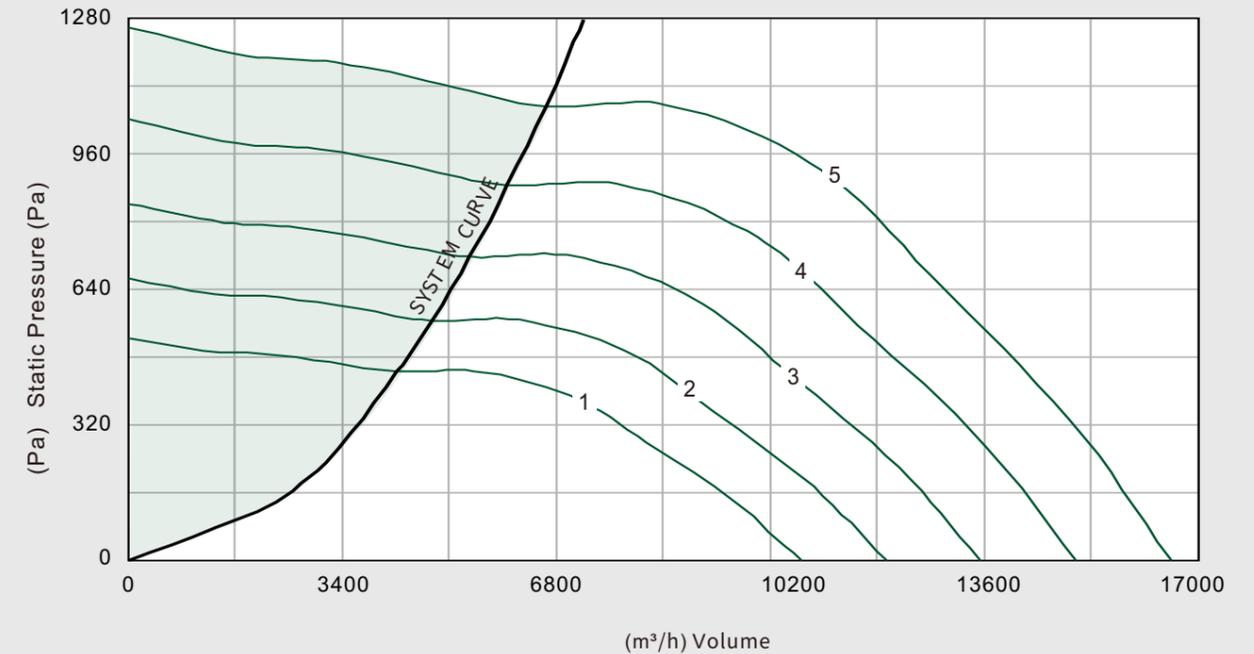
**RUC-500**  
Model:RUC-500



YFRUC-500	NO.	RPM	Volume(m³/h)	Pst(Pa)	Power(kW)	LWiA	dB(A)
YFRUC-500	1	1331	8737	1	1.804	87	76
			7236	251	1.884	84	72
			5307	469	1.909	81	69
			3317	543	1.614	81	69
	2	1420	9321	1	2.191	89	77
			7720	286	2.287	86	74
			5662	534	2.318	83	71
			3539	618	1.960	82	71
	3	1520	9977	1	2.687	90	79
			8264	328	2.806	87	76
			6061	612	2.844	84	73
			3788	709	2.404	84	73
4	1600	10502	1	3.134	92	80	
		8699	363	3.272	89	77	
		6380	678	3.317	86	74	
		3987	785	2.804	86	74	
5	1700	11159	2	3.759	93	82	
		9243	410	3.925	90	79	
		6779	766	3.978	87	76	
		4237	886	3.363	87	76	

Performance certified is for installation type A - free inlet, free outlet with partition, Performance ratings do not include the effects of appurtenances (accessories). Power rating (kW) includes transmission losses. Values shown are for inlet LwiA sound power levels for Installation Type A: Free inlet, free outlet with partition. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. dB(A) A-weighted sound pressure level is based on 11.5 dB sound attenuation at 1.5 m. Note that dB(A) levels are not licensed by AMCA International.

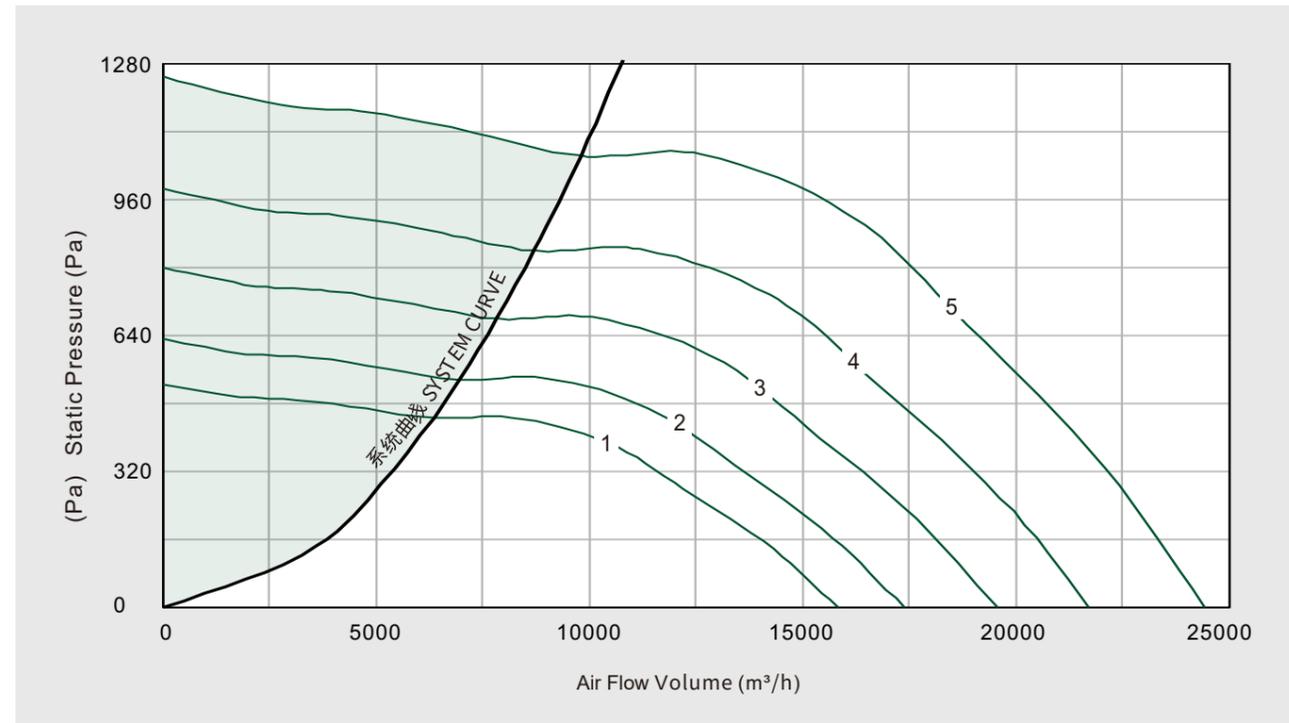
**RUC-575**  
Model:RUC-575



RUC-575	NO.	RPM	Pst(Pa)	Power(kW)	LWiA	dB(A)	
							INFINAIR™
RUC-575	1	1065	10692	1	1.497	88	77
			8240	280	1.592	85	74
			5504	448	1.479	84	73
			3222	468	1.045	84	73
	2	1200	12047	1	2.141	92	80
			9285	355	2.277	88	77
			6202	569	2.116	87	76
			3630	594	1.495	88	76
	3	1350	13553	2	3.049	95	83
			10446	450	3.243	92	80
			6977	720	3.012	91	79
			4084	752	2.128	91	79
4	1500	15059	2	4.183	98	86	
		11606	555	4.448	95	83	
		7753	889	4.132	94	82	
		4538	928	2.920	94	82	
5	1650	16565	2	5.567	100	89	
		12767	672	5.920	97	86	
		8528	1075	5.500	96	85	
		4992	1123	3.886	96	85	

Performance certified is for installation type A - free inlet, free outlet with partition, Performance ratings do not include the effects of appurtenances (accessories). Power rating (kW) includes transmission losses. Values shown are for inlet LwiA sound power levels for Installation Type A: Free inlet, free outlet with partition. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. dB(A) A-weighted sound pressure level is based on 11.5 dB sound attenuation at 1.5 m. Note that dB(A) levels are not licensed by AMCA International.

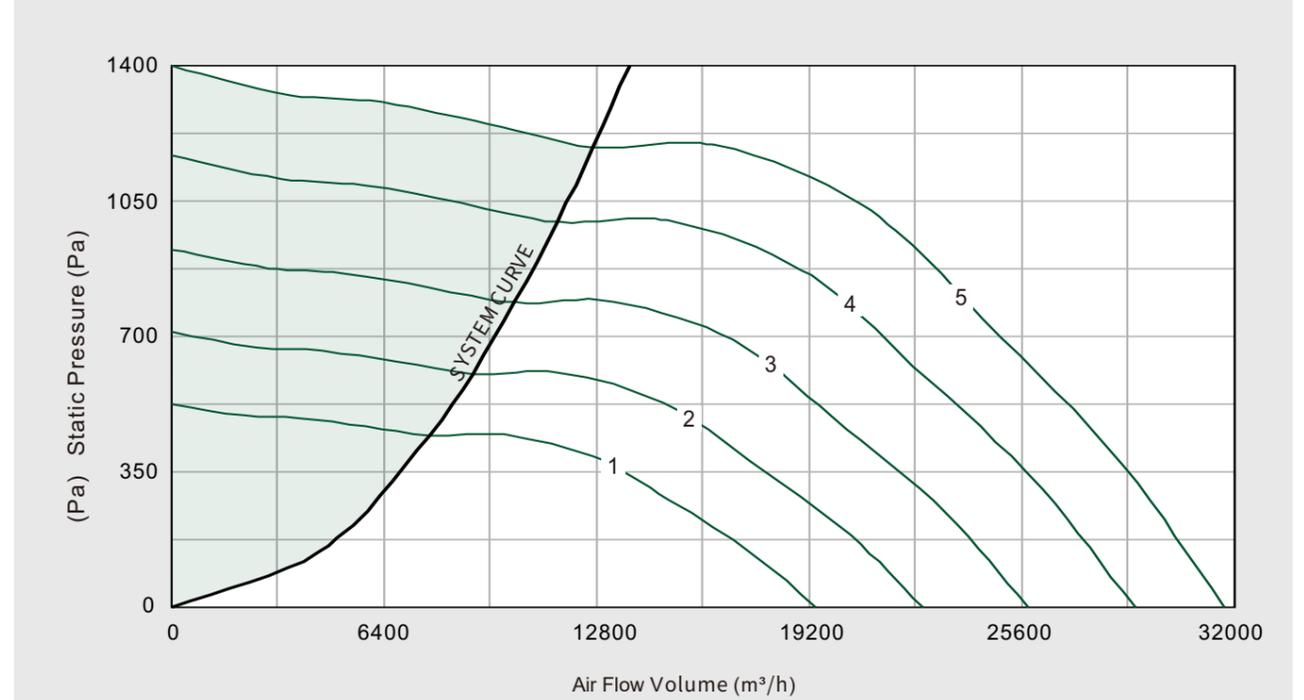
RUC-675  
Model:RUC-675



INFINAIR™ RUC-675	NO.	RPM	Volume(m³/h)	Pst(Pa)	Power(kW)	LWiA	dB(A)
	1	875	15849	1	2.220	89	77
12215			280	2.361	85	74	
8159			448	2.193	84	73	
4776			468	1.550	85	73	
2	960	17389	1	2.932	92	80	
		13402	337	3.118	88	77	
		8952	539	2.897	87	76	
		5240	564	2.047	88	76	
3	1080	19562	2	4.174	95	83	
		15077	427	4.439	91	80	
		10071	683	4.124	91	79	
		5895	713	2.914	91	79	
4	1200	21736	2	5.726	98	86	
		16752	527	6.090	94	83	
		11190	843	5.657	93	82	
		6550	881	3.997	94	82	
5	1350	24453	2	8.153	101	89	
		18846	667	8.671	98	86	
		12589	1067	8.055	97	85	
		7369	1114	5.691	97	85	

Performance certified is for installation type A - free inlet, free outlet with partition, Performance ratings do not include the effects of appurtenances (accessories). Power rating (kW) includes transmission losses. Values shown are for inlet LwiA sound power levels for Installation Type A: Free inlet, free outlet with partition. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. dB(A) A-weighted sound pressure level is based on 11.5 dB sound attenuation at 1.5 m. Note that dB(A) levels are not licensed by AMCA International.

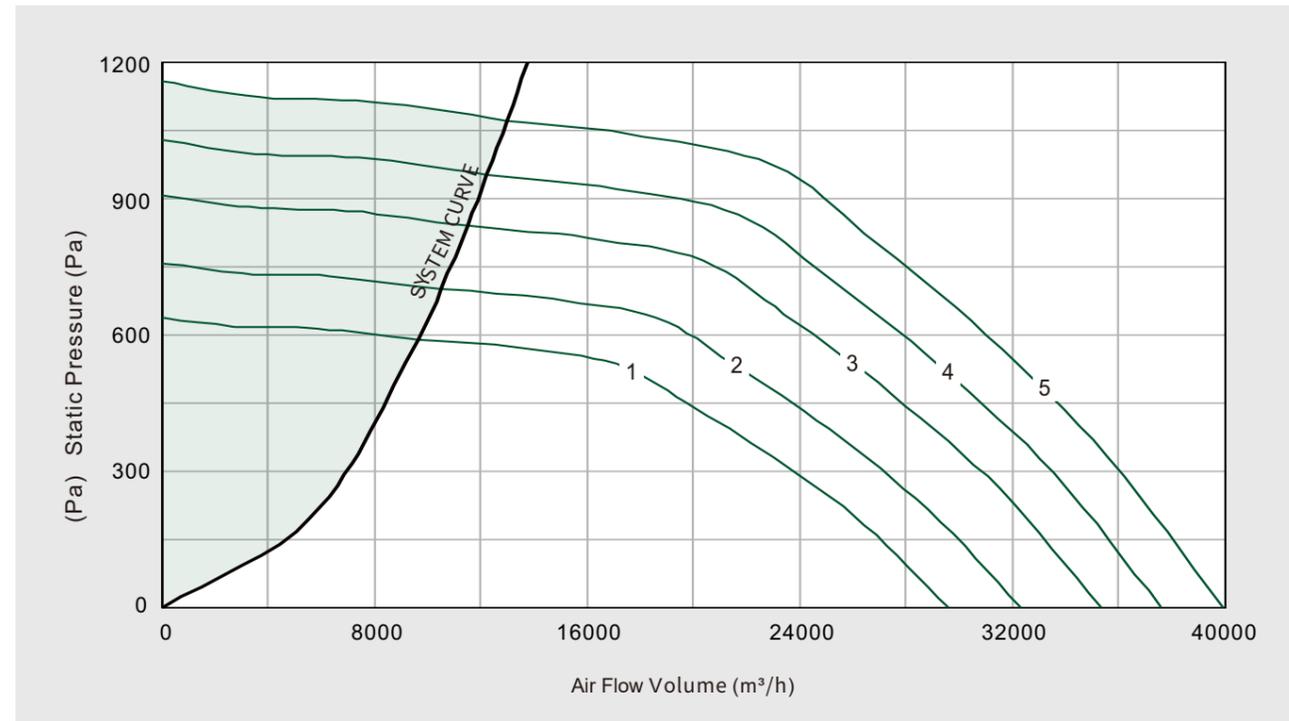
RUC-750  
Model:RUC-750



INFINAIR™ RUC-750	NO.	RPM	Volume(m³/h)	Pst(Pa)	Power(kW)	LWiA	dB(A)
	1	790	19419	1	2.718	89	78
14967			280	2.890	86	74	
9997			448	2.685	85	73	
5852			468	1.897	85	73	
2	920	22615	1	4.292	94	82	
		17430	380	4.565	90	79	
		11643	607	4.241	89	78	
		6815	634	2.996	89	78	
3	1050	25811	2	6.381	97	86	
		19893	494	6.786	94	82	
		13288	791	6.305	93	81	
		7778	826	4.455	93	82	
4	1180	29006	2	9.057	100	89	
		22355	624	9.632	97	85	
		14933	999	8.948	96	85	
		8741	1044	6.322	96	85	
5	1290	31710	3	11.833	103	91	
		24439	746	12.584	99	88	
		16325	1194	11.691	98	87	
		9556	1247	8.260	99	87	

Performance certified is for installation type A - free inlet, free outlet with partition, Performance ratings do not include the effects of appurtenances (accessories). Power rating (kW) includes transmission losses. Values shown are for inlet LwiA sound power levels for Installation Type A: Free inlet, free outlet with partition. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. dB(A) A-weighted sound pressure level is based on 11.5 dB sound attenuation at 1.5 m. Note that dB(A) levels are not licensed by AMCA International.

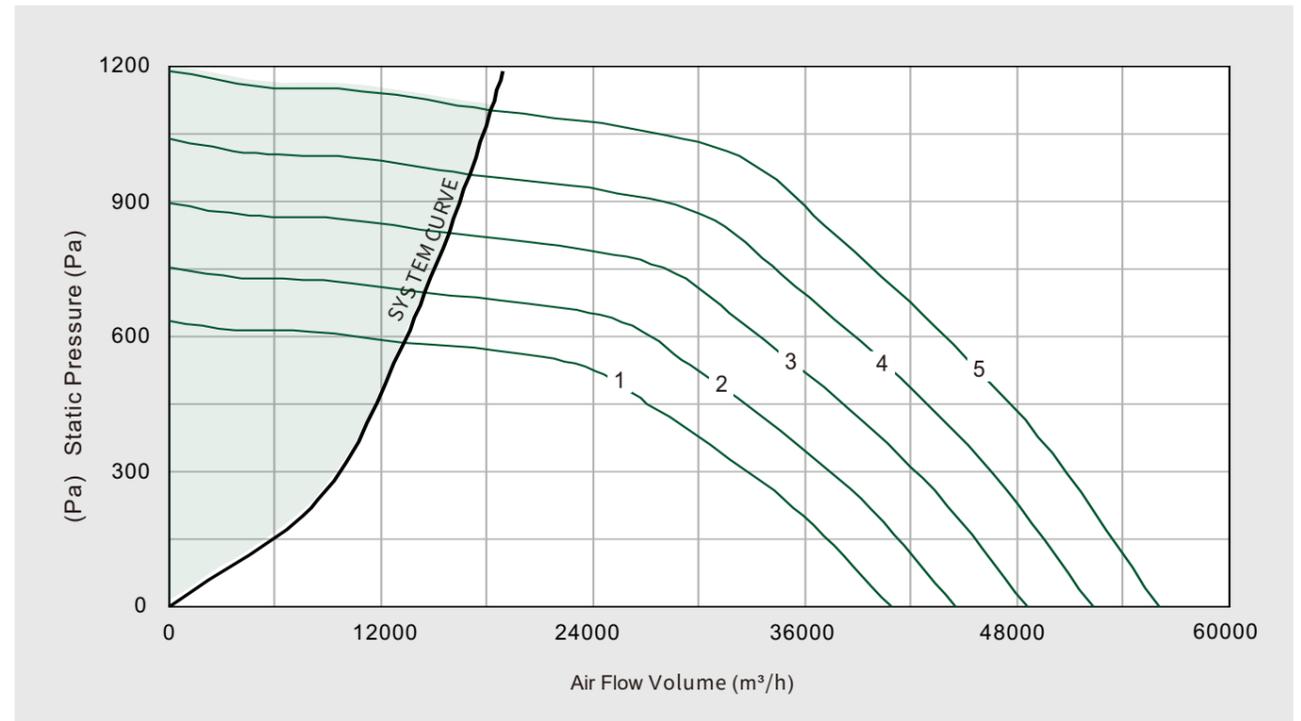
**RUC-900**  
Model:RUC-900



NO.	RPM	Volume(m³/h)	Pst(Pa)	Power(kW)	LWiA	dB(A)
1	780	29650	0	5.000	97	86
		23027	332	5.259	90	78
		17083	537	5.192	88	77
		9655	591	3.640	87	76
2	850	32311	0	6.471	99	87
		25094	394	6.806	92	80
		18616	637	6.719	90	79
		10521	702	4.710	89	78
3	930	35352	0	8.476	101	89
		27455	472	8.915	94	83
		20368	763	8.800	93	81
		11511	840	6.170	91	80
4	990	37633	0	10.224	102	91
		29227	534	10.754	96	84
		21682	865	10.616	94	83
		12254	952	7.442	93	82
5	1050	39913	0	12.198	103	92
		30998	601	12.830	97	86
		22996	973	12.665	96	84
		12997	1071	8.879	95	83

Performance certified is for installation type A - free inlet, free outlet with partition, Performance ratings do not include the effects of appurtenances (accessories). Power rating (kW) includes transmission losses. Values shown are for inlet LwiA sound power levels for Installation Type A: Free inlet, free outlet with partition. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. dB(A) A-weighted sound pressure level is based on 11.5 dB sound attenuation at 1.5 m. Note that dB(A) levels are not licensed by AMCA International.

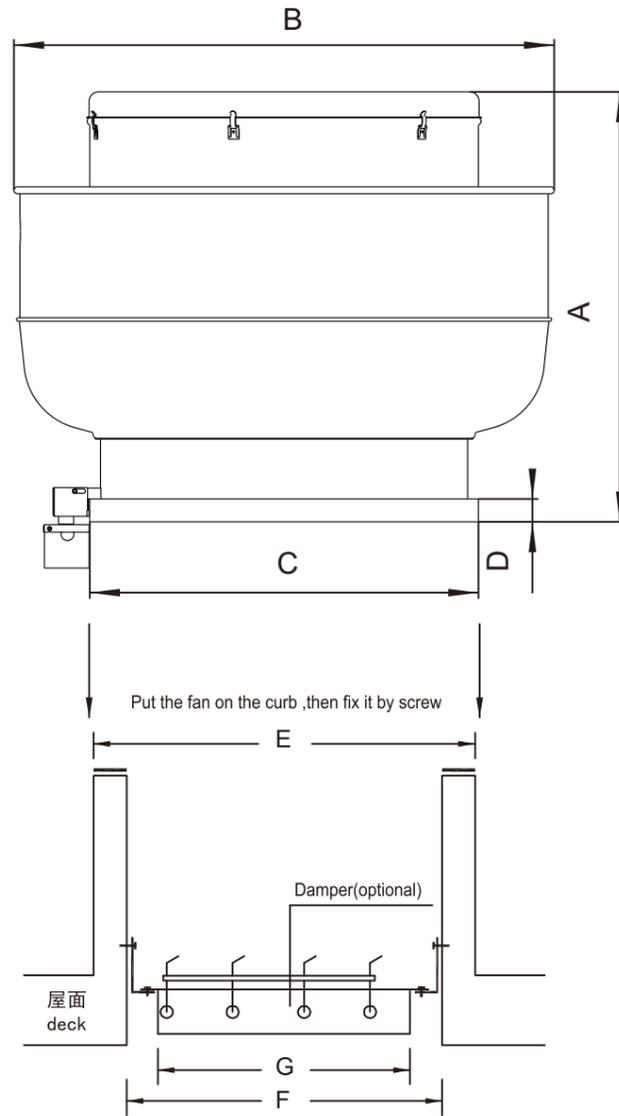
**RUC-1000**  
Model:RUC-1000



NO.	RPM	Volume(m³/h)	Pst(Pa)	Power(kW)	LWiA	dB(A)
1	661	40914	0	6.858	97	86
		31775	330	7.214	90	78
		23572	534	7.121	88	77
		13323	587	4.993	87	75
2	720	44566	0	8.864	100	88
		34611	391	9.323	93	81
		25676	633	9.203	91	79
		14512	697	6.452	90	78
3	785	48590	0	11.488	102	91
		37736	465	12.083	95	83
		27994	752	11.928	93	82
		15822	829	8.362	92	81
4	845	52303	0	14.328	104	92
		40620	539	15.070	97	85
		30134	872	14.877	95	84
		17031	960	10.430	94	82
5	905	56017	0	17.602	105	93
		43505	618	18.514	98	87
		32274	1000	18.276	97	85
		18241	1101	12.813	96	84

Performance certified is for installation type A - free inlet, free outlet with partition, Performance ratings do not include the effects of appurtenances (accessories). Power rating (kW) includes transmission losses. Values shown are for inlet LwiA sound power levels for Installation Type A: Free inlet, free outlet with partition. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. dB(A) A-weighted sound pressure level is based on 11.5 dB sound attenuation at 1.5 m. Note that dB(A) levels are not licensed by AMCA International.

Fan size and weight



Installation instruction

1. The roof curb height shall be defined by design engineer. We suggest the height shall be 300mm-500mm according to local rainfall.
2. Isolation pads, steel angels and screws for roof fans in this drawing are not included in the material lists of standard products by INFINAIR.
3. The rubber isolation pads should be chosen according to the maximum weight of the fan they can bear without any deformation. Typically, the thickness of pad is 5-8mm.

The below dimensions apply to all RUC types

Model	A (max)	B (mm)	C (mm)	D (mm)	(kg) Direct Weight	(kg) Belt Weight
300	651	609	500	50	19	24
425	775	780	600	50	27	33
500	921	884	750	70	35	43
575	962	968	750	70	41	49
675	1030	1108	900	53	55	64
750	1122	1251	900	53	66	76
900	1281	1488	1100	70	120	142
1000	1330	1572	1200	70	137	159

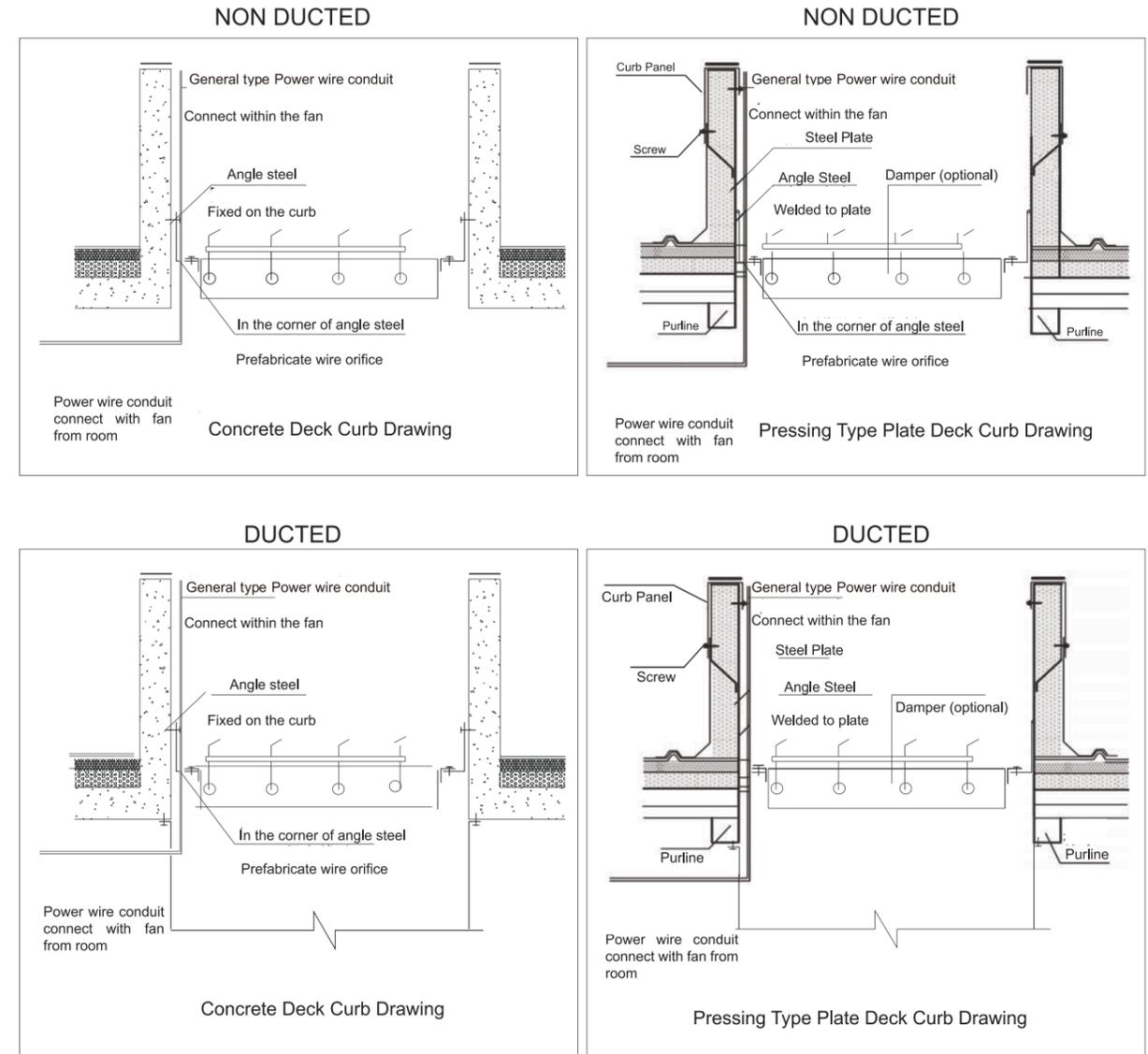
The weight in the above table does not include that of motor. Refer motor weight to the table below.

(kW)	(poles)	Motor Weigh (kg)											
		2P	4P	6P	8P	10P	12P	14P	16P				
0.09	5.5	5			10								
0.12	5.5	6			10	11	13	15	18				
0.18	14	13.5	14	16	10	15	17	21	21				
0.25	14.5	14	14.5	17	14	16	20	23	23				
0.37	15	14.5	16	24	17	18	21	30	30				
0.55	15.5	17	17	28	20	21	30	37	37				
0.75	16	18	23	33	23	24	36	41	41				
1.1	17	22	25	38	30	30	42	48	48				
1.5	22	27	33	45	38	42	35	58	58				
2.2	25	34	45	63	39	45	52	62	62				
3	33	38	63	79	40	50	62	67	67				
4	45	43	73	110	56	60	68	70	70				
5.5	64	68	84	121									
7.5	70	81	121	147									
11	118	124	146	182									

The below dimensions apply to all RUC types

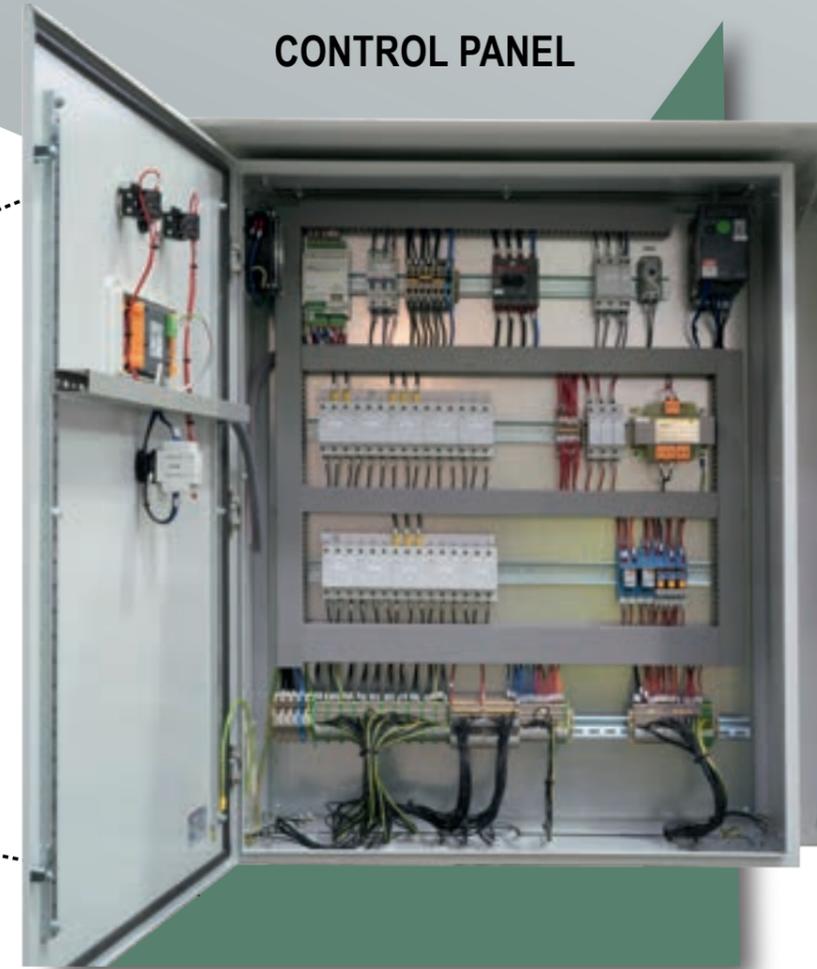
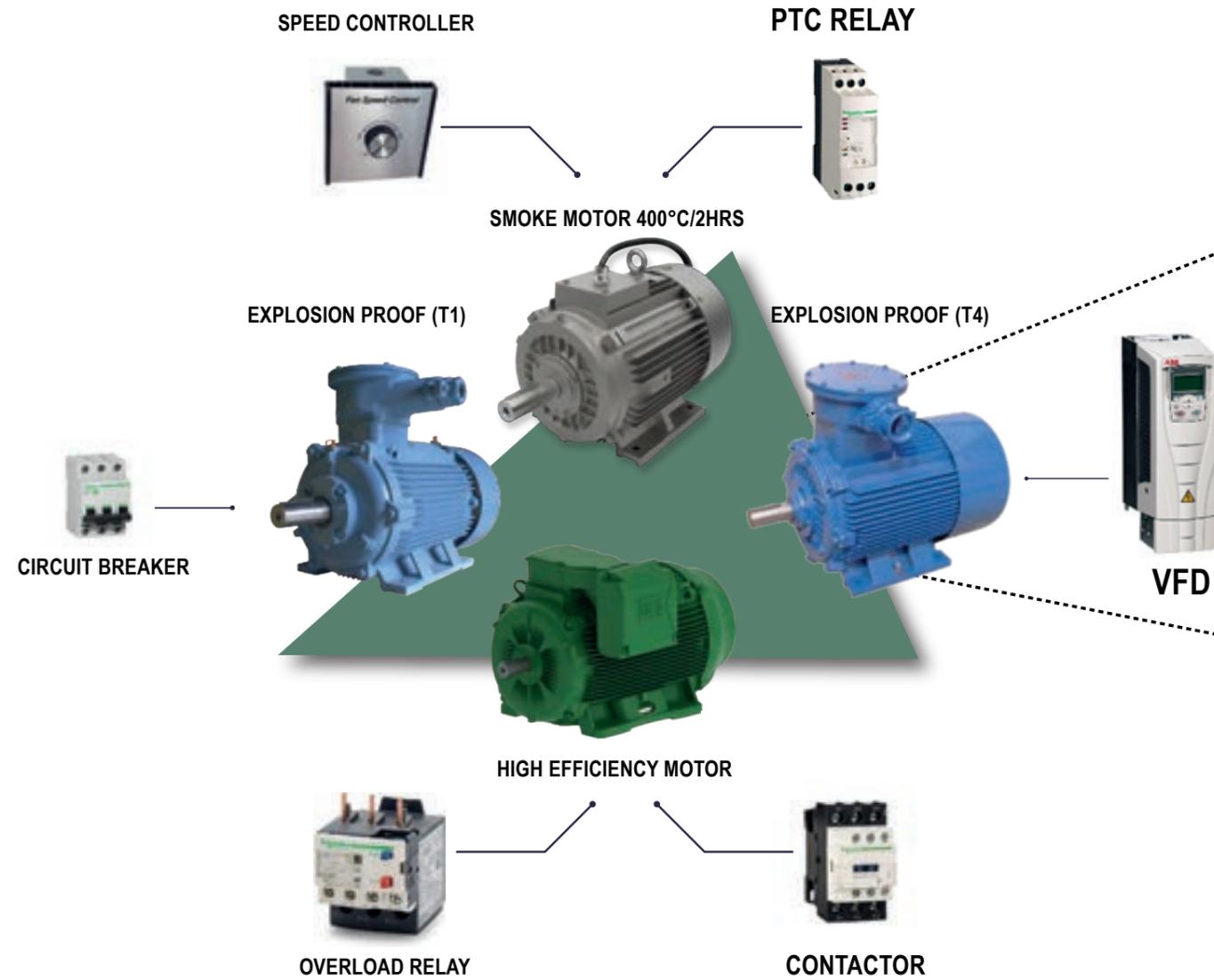
Model	(mm) Curb Edge Size	(mm) Roof Opening Size	(mm) Damper Size	(mm) Fire Resistant Damper Size
RUC_300	490	370	300x300	420x420
RUC_425	590	470	400x400	520x520
RUC_500	740	620	550x550	670x670
RUC_575	740	620	550x550	670x670
RUC_675	890	730	650x650	780x780
RUC_750	890	730	650x650	780x780
RUC_900	1090	930	800x800	980x980
RUC_1000	1190	1030	900x900	1080x1080

Roof Curb Fabrication Detail



Used on the slope for water diversion, protect curb from direct rain damage.

# ACCESSORIES



INFINAIR ARABIA supplies many options along with the fan to help the customers select the best optimization and homogeneity. There are Electrical, Mechanical and Controller accessories like:

- \* Control Panels
- \* Electric Parts
- \* Duct Accessories
- \* Vibration Isolators
- \* Acoustic Media

The options will support easier operation, less time consuming for our clients to search the availability and granting the quality.

