LONGWELL®
Turn to Experts - HVAC&R

Roof-Mounted Centrifugal Fan

Professional HVAC Fan &Motors Manufacturer



Ningbo Longwell Electric Technology CO, LTD
https://www.longwellfans.com Email:sales@zjlongwell.com

Type Code

LW CRF 360 - 10

- LW — Longwell
- CRF — CRF-Centrifugal Roof Fan; NPRF-No Power Roof Fan; ARF-Axial Roof Fan
- 360 — Impeller diameter
- 10 — Series number

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Aluminum Centrifugal Roof Fan

Product Characteristic



- Impeller material: Aluminum
- Power supply: 3 Phase/380V/50Hz
- Humidity: <90%
- Operation temperature: -20℃～+40℃

Medium condition:

- Regular type: Non-corrosive, non-flammable, explosive gas (dust content not exceeding 100mg/m³)
- Explosion-proof type: Non-corrosive, containing flammable and explosive gases (with dust content not exceeding 100mg/m³)
- Application: Fans can be mainly used for roof exhaust and ventilation in large workshops factories, power plants, and high-end civil buildings

Parameter table

Model	Speed (r/min)	Air volume (m³/h)	Static pressure (Pa)	Motor power (kW)	Noise [dB(A)]	Weight (kg)
LWCRF300-01	1730	3200	30	0.37	68	34
LWCRF300-02	1730	3000	120	0.37	68	34
LWCRF300-03	1730	2600	235	0.37	68	34
LWCRF300-04	1450	2700	20	0.25	66	34
LWCRF300-05	1450	2500	90	0.25	66	34
LWCRF300-06	1450	2100	185	0.25	66	34
LWCRF300-07	1254	2300	20	0.18	61	33
LWCRF300-08	1254	2100	85	0.18	61	33
LWCRF300-09	1254	1800	150	0.18	61	33
LWCRF300-10	960	1700	30	0.18	54	33
LWCRF300-11	960	1600	50	0.18	54	33
LWCRF300-12	960	1400	80	0.18	54	33
LWCRF300-13	720	1300	25	0.12	52	33
LWCRF300-14	720	1100	40	0.12	52	33
LWCRF300-15	720	900	60	0.12	52	33
LWCRF400-02	1450	7500	80	1.1	74	55
LWCRF400-03	1450	6700	280	1.1	74	55
LWCRF400-04	1450	6000	365	1.1	74	55
LWCRF400-05	1235	6500	30	0.75	70	50
LWCRF400-06	1235	6000	140	0.75	70	50
LWCRF400-07	1235	5200	250	0.75	70	50
LWCRF400-08	1128	5900	25	0.55	68	49
LWCRF400-09	1128	5500	115	0.55	68	49
LWCRF400-10	1128	4700	210	0.55	68	49
LWCRF400-11	960	5000	25	0.25	65	49
LWCRF400-12	960	4500	110	0.25	65	49
LWCRF400-13	960	4000	150	0.25	65	49
LWCRF400-14	720	3700	20	0.18	56	48
LWCRF400-15	720	3300	70	0.18	56	48
LWCRF400-16	720	2800	100	0.18	56	48
LWCRF500-02	1200	10200	55	1.5	76	63
LWCRF500-03	1200	9300	200	1.5	76	63
LWCRF500-04	1200	8500	310	1.5	76	63
LWCRF500-05	1080	9300	50	1.1	73	63
LWCRF500-06	1080	8400	160	1.1	73	63
LWCRF500-07	1080	7400	260	1.1	73	63
LWCRF500-08	960	8200	45	0.75	69	61
LWCRF500-09	960	7300	100	0.75	69	61
LWCRF500-10	960	6500	220	0.75	69	61
LWCRF500-11	840	7000	45	0.55	66	56
LWCRF500-12	840	6600	95	0.55	66	56
LWCRF500-13	840	6000	145	0.55	66	56
LWCRF500-14	720	5800	40	0.25	62	55
LWCRF500-15	720	5100	120	0.25	62	55
LWCRF500-16	720	4500	130	0.25	62	55
LWCRF560-01	960	12500	50	1.5	75	20
LWCRF560-02	960	11000	205	1.5	75	20
LWCRF560-03	960	10000	280	1.5	75	20
LWCRF560-04	894	11100	45	1.5	73	70
LWCRF560-05	894	10200	190	1.5	73	70
LWCRF560-06	894	9500	235	1.5	73	70
LWCRF560-07	827	10700	40	1.1	70	68
LWCRF560-08	827	9400	160	1.1	70	68
LWCRF560-09	827	8500	220	1.1	70	68
LWCRF560-10	720	9200	40	0.75	68	63
LWCRF560-11	720	8000	135	0.75	68	63
LWCRF560-12	720	7000	180	0.75	68	63
LWCRF560-13	662	8200	40	0.55	64	62
LWCRF560-14	662	7500	95	0.55	64	62
LWCRF560-15	662	6500	135	0.55	64	62
LWCRF630-01	840	17500	65	2.2	75	112
LWCRF630-02	840	16000	190	2.2	75	112
LWCRF630-03	840	14000	300	2.2	75	112

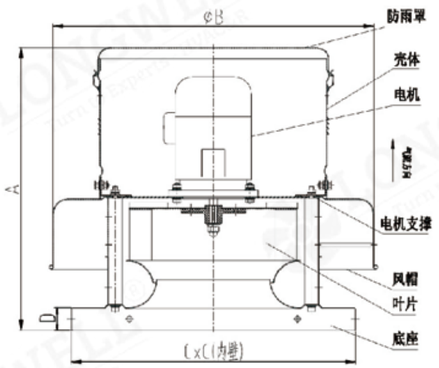
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Model	Speed (r/min)	Air volume (m³/h)	Static pressure (Pa)	Motor power (kW)	Noise [dB(A)]	Weight (kg)
LWCRF630-04	781	16300	45	2.2	73	110
LWCRF630-05	781	14500	185	2.2	73	110
LWCRF630-06	781	13000	265	2.2	73	110
LWCRF630-07	720	15000	40	1.5	72	100
LWCRF630-08	720	13500	155	1.5	72	100
LWCRF630-09	720	12000	230	1.5	72	100
LWCRF630-10	634	13200	40	1.1	68	100
LWCRF630-11	634	12100	115	1.1	68	100
LWCRF630-12	634	10500	175	1.1	68	100
LWCRF630-13	575	12000	30	0.75	66	98
LWCRF630-14	575	11000	85	0.75	66	98
LWCRF630-15	575	9200	150	0.75	66	98
LWCRF630-16	516	10600	35	0.55	65	93
LWCRF630-17	516	9000	105	0.55	65	93
LWCRF630-18	516	7500	145	0.55	65	93
LWCRF710-01	840	24000	75	4	79	123
LWCRF710-02	840	22000	235	4	79	123
LWCRF710-03	840	19000	380	4	79	123
LWCRF710-04	720	20700	50	3	75	117
LWCRF710-05	720	18000	217	3	75	117
LWCRF710-06	720	16000	290	3	75	117
LWCRF710-07	654	18300	50	2.2	70	117
LWCRF710-08	654	16500	170	2.2	70	117
LWCRF710-09	654	15000	230	2.2	70	117
LWCRF710-10	592	16800	45	1.5	67	113
LWCRF710-11	592	14600	155	1.5	67	113
LWCRF710-12	592	13000	205	1.5	67	113
LWCRF710-13	529	14900	45	1.1	66	105
LWCRF710-14	529	13300	120	1.1	66	105
LWCRF710-15	529	12000	150	1.1	66	105
LWCRF710-16	467	13000	40	0.75	64	103
LWCRF710-17	467	11000	120	0.75	64	103
LWCRF710-18	467	9000	150	0.75	64	103
LWCRF900-01	720	35500	80	5.5	76	168
LWCRF900-02	720	32000	280	5.5	76	168
LWCRF900-03	720	28500	400	5.5	76	168
LWCRF900-04	621	31000	55	4	72	166
LWCRF900-05	621	27000	230	4	72	166
LWCRF900-06	621	24000	310	4	72	166
LWCRF900-07	572	28000	50	3	68	157
LWCRF900-08	572	25500	170	3	68	157
LWCRF900-09	572	22500	250	3	68	157

Model	Speed (r/min)	Air volume (m³/h)	Static pressure (Pa)	Motor power (kW)	Noise [dB(A)]	Weight (kg)
LWCRF900-10	497	24600	50	2.2	66	135
LWCRF900-11	497	22300	125	2.2	66	135
LWCRF900-12	497	19500	190	2.2	66	135
LWCRF900-13	448	22000	40	1.5	65	126
LWCRF900-14	448	19600	120	1.5	65	126
LWCRF900-15	448	16500	175	1.5	65	126
LWCRF900-16	398	19000	40	1.1	63	118
LWCRF900-17	398	17200	85	1.1	63	118
LWCRF900-18	398	15000	130	1.1	63	118
LWCRF1000-02	720	48500	100	11	78	222
LWCRF1000-03	720	44000	330	11	78	222
LWCRF1000-04	720	40000	465	11	78	222
LWCRF1000-05	621	42000	70	7.5	73	222
LWCRF1000-06	621	38000	245	7.5	73	222
LWCRF1000-07	621	34000	350	7.5	73	222
LWCRF1000-08	572	38200	70	5.5	72	185
LWCRF1000-09	572	35000	205	5.5	72	185
LWCRF1000-10	572	32000	285	5.5	72	185
LWCRF1000-11	522	35500	50	4	70	176
LWCRF1000-12	522	31000	195	4	70	176
LWCRF1000-13	522	28000	260	4	70	176
LWCRF1000-14	473	31500	50	3	68	167
LWCRF1000-15	473	29000	140	3	68	167
LWCRF1000-16	473	26000	210	3	68	167
LWCRF1000-17	398	26500	45	2.2	65	145
LWCRF1000-18	398	24000	110	2.2	65	145
LWCRF1000-19	398	20000	170	2.2	65	145

Installation dimensions table

Model	A(mm)	B(mm)	C(mm)	D(mm)
LWCRF-300	600	540	505	40
LWCRF-425	690	720	605	40
LWCRF-500	770	830	705	50
LWCRF-575	840	940	755	50
LWCRF-675	890	1100	875	50
LWCRF-750	1030	1180	905	60
LWCRF-900	1200	1440	1100	70
LWCRF-1000	1260	1540	1200	70



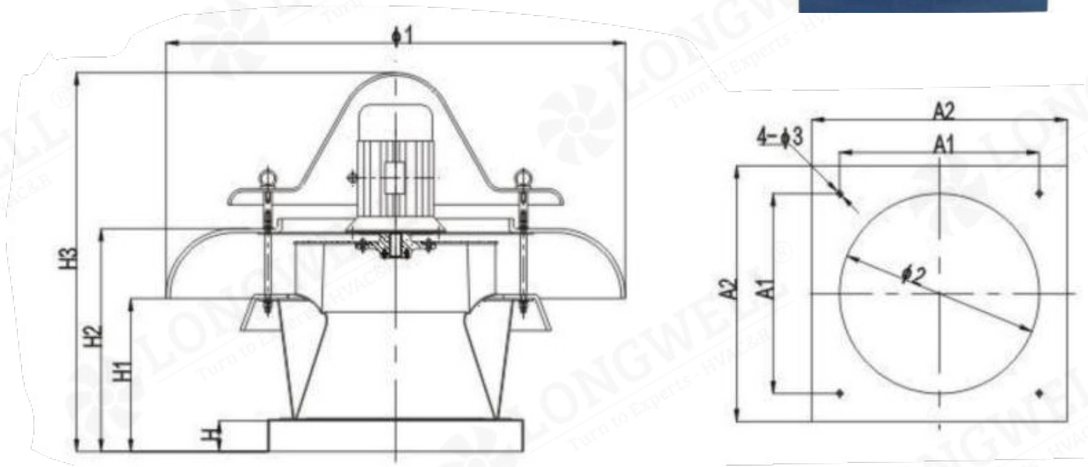
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Centrifugal Roof Fan

Product Characteristic

This series of roof fan adopts special design for high pressure requirements. It is widely used for ventilating and air exchanging for petroleum, chemical, textile, metallurgy,casting and mechanical plant, office.laboratory, warehouse etc.It is installed directly on the roof, very convenient to operate.





Installation dimensions table

Model	A1	A2	H	H1	H2	H3	Φ1	Φ2	Φ3
LWCRF360-01	400	480	80	215	465	710	Φ830	Φ360	Φ16
LWCRF400-01	420	520	80	311	440	790	Φ920	Φ400	Φ16
LWCRF450-01	470	570	80	330	415	850	Φ920	Φ450	Φ16
LWCRF500-01	500	640	80	273	440	940	Φ1035	Φ500	Φ16
LWCRF600-01	650	820	80	330	520	1040	Φ1220	Φ600	Φ20
LWCRF800-01	800	1050	80	535	806	1280	Φ1610	Φ800	Φ20
LWCRF1000-01	1000	1300	80	710	975	1560	Φ1830	Φ1000	Φ20

Parameter table

Model	Rotational speed (r/min)	Matching motor (kw-p)	Air volume (m^3/h)	Total pressure (Pa)
LWCRF360-01	1450	1.1-4	1332-2634	393-347
LWCRF400-01	1450	1.1-4	2006-3709	501-329
LWCRF450-01	1450	1.1-4	2856-5281	634-416
LWCRF500-01	1450	2.2-4	3864-7728	790-502
LWCRF600-01	1450/960	4-4/1.5-6	6677-13353/4420-8841	1139-724/498-317
LWCRF700-01	960	3-6	8390-13580	680-510
LWCRF800-01	960	5.5-6	10478-19428	887-651
LWCRF1000-01	730	7.5-8	20350-28497	805-637

No Power Roof Fan



Product Characteristic

No Power Roof Fan developed per the energy saving policy to make use of the natural sources. Its top feature is no need power, only use the air flow as driven power. With much sensible, can run all time, no need power, no need to repair, energy saving, no operation cost after installation. It is make of stainless steel materials with features as antirust, anticorrosive, resistance to acid and alkali. It is widely used for workshops, painting plants, plating workshops, tooling workshops,warehouse, die casting workshops, generator rooms, warehouses, etc.

Parameter table

Model	Outer diameter (mm)	Throat diameter (mm)	Wind speed (m/s)	Air volume (m^3/h)
LWNPRF300-01	420	300	3.2-16	298-1100
LWNPRF500-01	620	500	3.2-16	824-3047
LWNPRF600-01	750	600	3.2-16	1188-4393
LWNPRF800-01	880	680	3.2-16	1526-5643