

# PROPELLERS – ALUMINUM

## FREE AIR TYPE

### Universal Replacement Propellers with Interchangeable Hubs

#### TYPICAL APPLICATIONS

These quality Lau propellers are designed for such free air and low pressure applications as:

- Pedestal Fans
- Wall and Roof Exhausters
- Air Circulators
- Window Fans
- Commercial Ventilating Equipment
- Agricultural Ventilating Equipment
- Unit Heaters
- General Cooling/Heating Applications



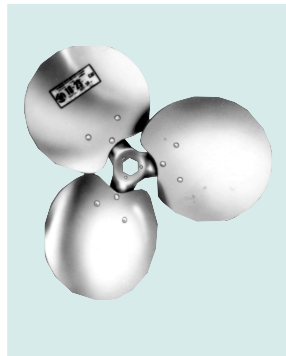
#### FEATURES

Lau free air type propellers give you these important features:

- 3- and 4-blade designs with pitches to interchange with most field applications
- Rounded blade design for maximum free air delivery with minimum noise levels
- Pitches available for most common horsepower and motor speeds up to 1725 RPM ... in both CW and CCW rotations
- High quality aluminum blades
- Interchangeable hubs from 1/4" through 3/4" bore ... may be attached on either intake or discharge side
- Each propeller clearly identified as to pitch, diameter, rotation and maximum RPM
- Available for immediate delivery from stock

## SPECIFICATIONS AND PERFORMANCE CHARTS – FREE AIR TYPE

### 3-BLADE



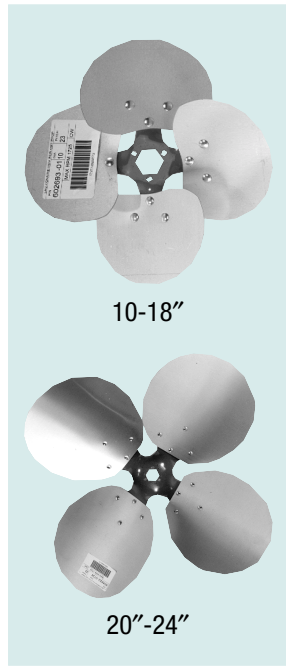
Same propellers as shown under Heavy Duty Condenser Type. See Page 9.

Part Number	LAU Model Number	Rot.	Dia. (ins.)	Pitch	FREE AIR RATINGS						Std. Pack		
					1050 RPM		1140 RPM		1550 RPM			1725 RPM	
					CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	
60-2652-01	3F1027CW	CW	10	27°	415	.005	456	.006	620	.016	690	.022	2
60-2653-01	3F1027CCW	CCW	10	27°	415	.005	456	.006	620	.016	690	.022	2
60-2654-01	3F1223CW	CW	12	23°	460	.005	490	.0064	675	.016	750	.022	2
60-2655-01	3F1223CCW	CCW	12	23°	460	.005	490	.0064	675	.016	750	.022	2
60-2658-01	3F1423CW	CW	14	23°	730	.010	790	.012	1070	.031	1200	.043	2
60-2659-01	3F1423CCW	CCW	14	23°	730	.010	790	.012	1070	.031	1200	.043	2
60-2662-01	3F1623CW	CW	16	23°	1200	.016	1330	.021	1780	.052	2000	.072	2
60-2663-01	3F1623CCW	CCW	16	23°	1200	.016	1330	.021	1780	.052	2000	.072	2
60-5559-01	3F1823CW	CW	18	23°	1575	.035	1725	.044	2330	.110	2600	.150	2
60-5560-01	3F1823CCW	CCW	18	23°	1575	.035	1725	.044	2330	.110	2600	.150	2
60-2670-01	3F2023CW	CW	20	23°	2120	.076	2300	.097	3120	.244	3500	.340	2
60-2671-01	3F2023CCW	CCW	20	23°	2120	.076	2300	.097	3120	.244	3500	.340	2
60-2676-01	3F2418CW	CW	24	18°	3300	.102	3600	.130	4800	.320	5400	.525	2



**SAFETY TIP:** Do not exceed RPM and HP ratings shown in charts. Interchangeable hubs for all propellers are listed on page 13. Order separately.

### 4-BLADE



Part Number	LAU Model Number	Rot.	Dia. (ins.)	Pitch	FREE AIR RATINGS						Std. Pack		
					1050 RPM		1140 RPM		1550 RPM			1725 RPM	
					CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	
60-2693-01	4F1023CW	CW	10	23°	298	.0025	322	.005	429	.006	470	.012	2
60-2694-01	4F1023CCW	CCW	10	23°	298	.0025	322	.005	429	.006	470	.012	2
60-2622-01	4F1223CW	CW	12	23°	460	.006	500	.007	680	.019	760	.026	2
60-2623-01	4F1223CCW	CCW	12	23°	460	.006	500	.007	680	.019	760	.026	2
60-2628-01	4F1427CW	CW	14	27°	880	.021	960	.027	1300	.068	1450	.095	2
60-2629-01	4F1427CCW	CCW	14	27°	880	.021	960	.027	1300	.068	1450	.095	2
60-5553-01	4F1823CW	CW	18	23°	1650	.042	1780	.054	2425	.135	2700	.185	2
60-5554-01	4F1823CCW	CCW	18	23°	1650	.042	1780	.054	2425	.135	2700	.185	2
60-5555-01	4F1827CW	CW	18	27°	1950	.063	2110	.087	2875	.220	3170	.300	2
60-5556-01	4F1827CCW	CCW	18	27°	1950	.063	2110	.087	2875	.220	3170	.300	2
60-2638-01	4F2023CW	CW	20	23°	2140	.070	2310	.090	3170	.226	3500	.320	2
60-2639-01	4F2023CCW	CCW	20	23°	2140	.070	2310	.090	3170	.226	3500	.320	2
60-2640-01	4F2027CW	CW	20	27°	2540	.102	2750	.131	3750	.330	4170	.455	2
60-2641-01	4F2027CCW	CCW	20	27°	2540	.102	2750	.131	3750	.330	4170	.455	2
60-2853-01	4F2033CW	CW	20	33°	2950	.182	3210	.230	4300	.570	Not Recommended		2
60-2854-01	4F2033CCW	CCW	20	33°	2950	.182	3210	.230	4300	.570	Not Recommended		2
60-5621-01	4F2418CW	CW	24	18°	3689	.142	3952	.193	5029	.484	5373	.657	2
60-5622-01	4F2418CCW	CCW	24	18°	3689	.142	3952	.193	5029	.484	5373	.657	2
60-5623-01	4F2423CW	CW	24	23°	4456	.229	4789	.293	6217	.742	6736	1.00	2
60-5624-01	4F2423CCW	CCW	24	23°	4456	.229	4789	.293	6217	.742	6736	1.00	2
60-5625-01	4F2427CW	CW	24	27°	5087	.313	5438	.400	7027	.969	7638	1.29	2
60-5626-01	4F2427CCW	CCW	24	27°	5087	.313	5438	.400	7027	.969	7638	1.29	2



**TECHNICAL TIP:** Determine rotation facing air discharge side of propeller.

HEAVY DUTY CONDENSER TYPE

FEATURES

Lau Condenser Type Propellers give you these important features:

- 3-, 4-, and 5-blade designs with pitches to interchange with most field applications
- Versatile application
- High quality aluminum blades
- Interchangeable hubs available from 1/4" through 3/4" bore ... may be attached on either intake or discharge side
- Pitches available for most common horsepower and motor speeds up to 1725 RPM in both CW and CCW rotations
- Each propeller clearly labeled as to pitch, diameter, rotation and maximum RPM
- Available for immediate delivery from stock
- Order hubs separately (see page 13)

TYPICAL APPLICATIONS

Condenser type propellers utilize square pressure-type blades required for most condenser applications.

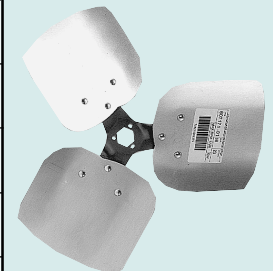
The 3-blade configuration is normally used in low pressure applications. 4- and 5-bladed configurations are suited for higher static pressures.

These propellers are designed for use in:

- Air Conditioning Condensers
- Power Roof Ventilators
- Heat Pumps
- Heat Exchangers
- Roof Top Air Conditioners
- Commercial and Industrial Equipment
- Unit Heaters
- Agricultural Ventilation Equipment
- Walk-in Refrigeration Units
- General Cooling/Heating Applications

HEAVY DUTY CONDENSER TYPE 3-BLADE SPECIFICATIONS AND PERFORMANCE CHART

Part Number	LAU Model Number	Rot.	Dia. (ins.)	Pitch	RPM	STATIC PRESSURE (INCHES W.C.)								Std. Pack
						.0		.1		.2		.3		
						CFM	HP	CFM	HP	CFM	HP	CFM	HP	
60-2652-01 60-2653-01	3C1027CW 3C1027CCW	CW CCW	10	27°	1140	456	.006	296	.008	120	.018			2
					1550	620	.016	504	.021	378	.027	250	.036	
					1725	690	.022	587	.027	476	.034	360	.041	
60-7161-01 60-7162-01	3C1219CW 3C1219CCW	CW CCW	12	19°	1140	735	.012	560	.014	260	.018			2
					1550	1000	.031	875	.033	730	.037	515	.042	
					1725	1113	.042	1000	.045	880	.048	723	.053	
60-7163-01 60-7164-01	3C1223CW 3C1223CCW	CW CCW	12	23°	1140	830	.018	650	.020	408	.023			2
					1550	1130	.045	1000	.047	855	.051	700	.058	
					1725	1257	.062	1140	.064	1012	.067	890	.072	
60-7165-01 60-7166-01	3C1423CW 3C1423CCW	CW CCW	14	23°	1140	1190	.03	941	.04	618	.05	300	.06	2
					1550	1620	.065	1470	.08	1235	.095	975	.105	
					1725	1800	.09	1680	.103	1470	.120	1269	.14	
60-7167-01 60-7168-01	3C1427CW 3C1427CCW	CW CCW	14	27°	1140	1360	.040	1130	.051	827	.065	500	.07	2
					1550	1850	.10	1675	.12	1490	.137	1300	.15	
					1725	2060	.138	1897	.158	1736	.179	1413	.192	
60-7169-01 60-7170-01	3C1619CW 3C1619CCW	CW CCW	16	19°	1140	1690	.04	1500	.055	1206	.063	850	.08	2
					1550	2300	.10	2160	.12	2020	.145	1820	.155	
					1725	2560	.137	2440	.158	2315	.186	2130	.206	
60-7171-01 60-7172-01	3C1623CW 3C1623CCW	CW CCW	16	23°	1140	1840	.051	1650	.067	1320	.071	945	.09	2
					1550	2500	.13	2370	.155	2220	.175	2030	.18	
					1725	2780	.18	2670	.200	2540	.227	2390	.248	
60-5561-01 60-5562-01	3C1827CW 3C1827CCW	CW CCW	18	27°	850	2050	.05	1740	.06	1130	.085	700	.102	2
					1000	2400	.08	2170	.09	1825	.110	1250	.140	
					1140	2740	.130	2550	.140	2250	.160	1900	.182	
60-5563-01 60-5564-01	3C1830CW 3C1830CCW	CW CCW	18	30°	850	2205	.065	1875	.074	1270	.095	890	.120	2
					1000	2600	.105	2340	.115	2000	.130	1430	.155	
					1140	2950	.150	2750	.161	2470	.180	2100	.210	
60-5565-01 60-5566-01	3C1833CW 3C1833CCW	CW CCW	18	33°	850	2440	.085	2025	.096	1500	.125	1025	.155	2
					1000	2860	.140	2530	.150	2080	.167	1700	.210	
					1140	3250	.200	3000	.210	2600	.220	2250	.235	
60-5567-01 60-5568-01	3C2027CW 3C2027CCW	CW CCW	20	27°	850	2500	.072	2100	.085	1460	.105	950	.122	2
					1000	2970	.115	2600	.135	2170	.155	1600	.175	
					1140	3360	.170	3070	.200	2700	.230	2280	.250	
60-5569-01 60-5570-01	3C2030CW 3C2030CCW	CW CCW	20	30°	850	2750	.100	2400	.110	1740	.125	1150	.150	2
					1000	3250	.140	3000	.157	2400	.190	1850	.210	
					1140	3700	.220	3480	.240	3150	.253	2660	.300	
60-5571-01 60-5572-01	3C2033CW 3C2033CCW	CW CCW	20	33°	850	2950	.110	2570	.120	1850	.140	1300	.170	2
					1000	3500	.175	3170	.190	2550	.217	2000	.240	
					1140	4000	.250	3700	.270	3400	.300	2860	.350	
60-5573-01 60-5574-01	3C2227CW 3C2227CCW	CW CCW	22	27°	850	3930	.200	3650	.220	3200	.240	2500	.275	2
					1000	4700	.340	4400	.360	4050	.380	3600	.400	
					1140	5330	.500	5100	.530	4800	.570	4500	.620	
60-5575-01 60-5576-01	3C2233CW 3C2233CCW	CW CCW	22	33°	850	4600	.300	4250	.330	3800	.360	3100	.380	2
					1000	5450	.490	5150	.510	4800	.522	4380	.553	
					1140	6200	.720	5950	.753	5600	.810	5300	.850	
60-5577-01 60-5578-01	3C2427CW 3C2427CCW	CW CCW	24	27°	850	5070	.230	4650	.240	4100	.265	3100	.300	2
					1000	5850	.380	5600	.400	5180	.420	4650	.440	
					1140	6750	.540	6500	.560	6200	.580	5780	.610	
60-5579-01 60-5580-01	3C2433CW 3C2433CCW	CW CCW	24	33°	850	5860	.330	5500	.370	4950	.385	3700	.415	2
					1000	6900	.570	6620	.593	6250	.608	5700	.615	
					1140	7980	.840	7680	.860	7350	.880	7000	.895	



**Technical Tip:** Determine rotation facing air discharge side of propeller (leading edge cuts the air), or use the "sandbox" method (see page 3).