



ELECTROSTATIC AIR CLEANERS

For Commercial & Industrial Applications



www.artimuhendislik.az

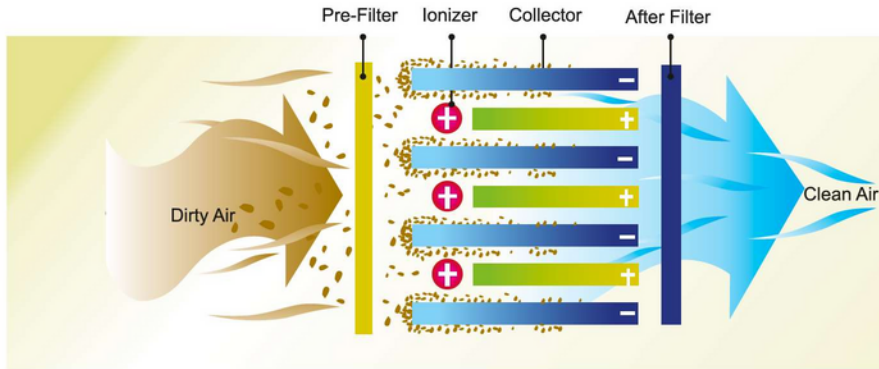


info@artimuhendislik.az



+994 51 400 43 21

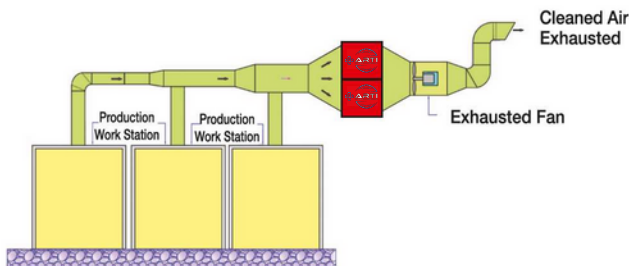
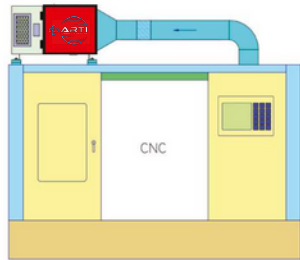
HOW IT WORKS



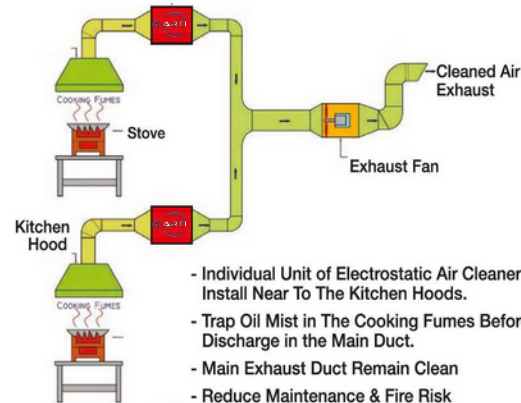
Contaminated air is drawn by the blower (external) through a washable metal mesh pre-filter which traps large dust particles. The remaining particles, some as small as 0.01micron, pass through a strong electrical field (ionizing section) where the particulates receive an electrical charge. The charged particles then pass into the collector plates section made up of equally spaced parallel plates. Each alternate plate is charged with the same polarity as the particles, which repel, while the interleaving plates are grounded, which attract and collect the contaminants.

TYPICAL APPLICATIONS

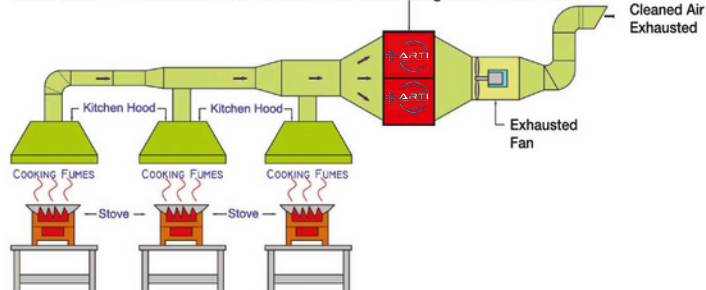
INDUSTRIAL / CNC APPLICATIONS



KITCHEN EXHAUST APPLICATIONS



Multi Units of Electrostatic Air Cleaners To Handle Higher Air Flow Rate



+994 51 400 43 21

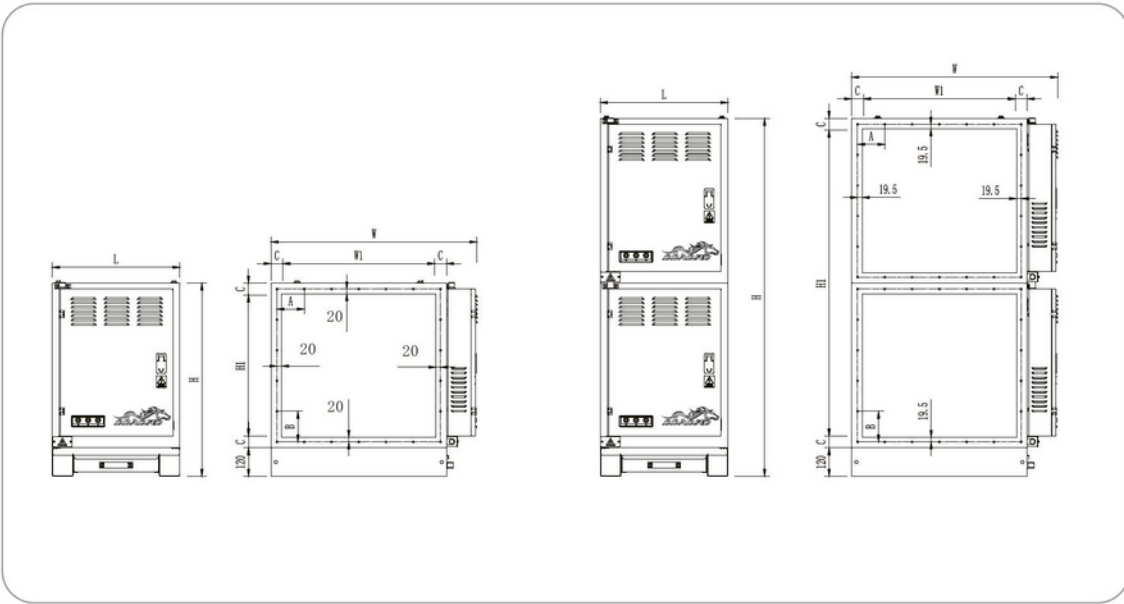
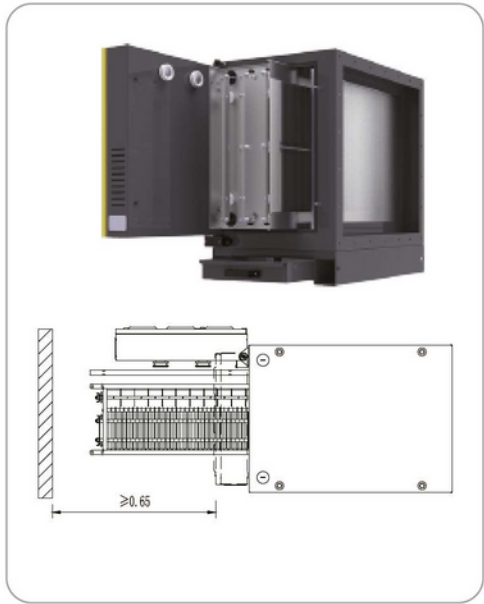
info@artimuhendislik.az

www.artimuhendislik.az

LKE1Series



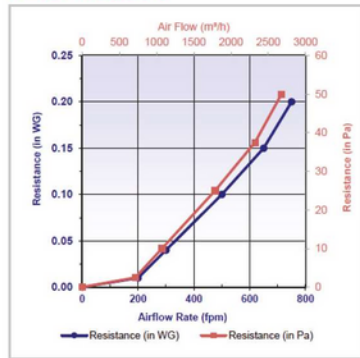
Model	LK30E1	LK40E1	LK50E1	LK60E1	LK80E1	LK100E1	LK120E1	LK160E1	LK200E1	LK240E1
Voltage	220V/50Hz	220V/50Hz	220V/50Hz	220V/50Hz	220V/50Hz	220V/50Hz	220V/50Hz	220V/50Hz	220V/50Hz	220V/50Hz
Air flow (m3/h)	3000	4000	5000	6000	8000	10000	12000	16000	20000	24000
Efficiency	95%	95%	95%	95%	95%	95%	95%	95%	95%	95%
Pressure drop (Pa)	23	23	23	23	23	23	23	23	23	23
Power pack / Cell quantity	1/1	1/1	1/1	1/2	1/2	1/2	1/3	2/4	2/4	2/6
Dimension L×W×H (mm)	538×650×815	538×825×815	538×875×815	538×1155×815	538×1500×815	538×1605×815	538×2180×815	538×1500×1510	538×1605×1510	538×2180×1510
Flange size W1×H1 (mm)	426×606	600×606	650×606	930×606	1276×606	1380×606	1955×606	1276×1300	1380×1300	1955×1300
Hole distance A/B/C (mm)	116.3/129/45	127.6/129/45	115/129/45	121.3/129/45	131.6/129/45	142/129/45	133/129/45	131.6/129/45	142/129/45	133/129/45
Rated Power (w)	56	77	91	112	154	182	231	308	364	462
Machine weight (kg)	63	73	78	92	119	129	165	218	236	300



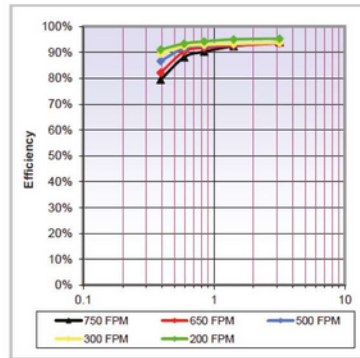
ARTI
MUHENDISLIK VE DANISMANLIK

+994 51 400 43 21

TEST Report

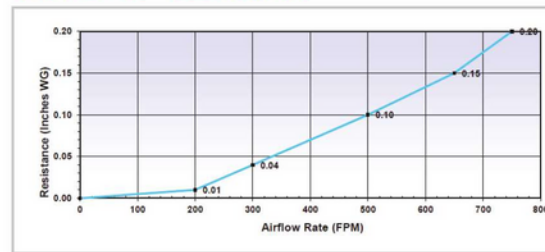


Air Flow vs Resistant Clean Device

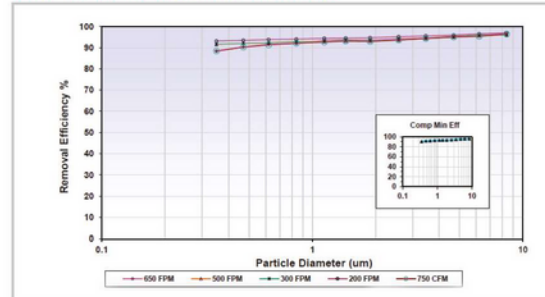


Efficiency vs Particle Size

EN779 DOP Test Report



Air Flow vs Resistant Clean Device



Particle Size Removal Efficiency

Particle Removal Efficiency %					
AVERAGE PARTICLE SIZE	200 FPM	300 FPM	500 FPM	650 FPM	750 FPM
0.30 - 0.50um	91.1	89.5	86.6	82.2	79.5
0.50 - 0.70 um	93.4	92.4	91.7	90.3	88.1
0.70 - 1.0 um	94.3	93	92.6	91.8	90.3
1.00 - 2.00 um	95.1	93.4	93.2	92.6	92.4
2.00 - 5.00 um	95.4	93.8	93.8	93.5	94
Resistance (in W.G.)	0.01	0.04	0.1	0.15	0.2

Particle Removal Efficiency %					
AVERAGE PARTICLE SIZE	200 FPM	300 FPM	500 FPM	650 FPM	750 FPM
0.30 - 1.0 um	94	92	92	91	91
1.0 - 3.0um	95	93	93	94	93
3.0 - 10.0 um	96	95	95	96	95
Resistance (in W.G)	0.01	0.04	0.1	0.15	0.2

Standard 52.2 Minimum Efficiency Reporting Value (MERV)	Composite Average Particle Size Efficiency, % in Size Range, µm			
	Range 1 (0.3-1.0)	Range 2 (1.0-3.0)	Range 3 (3.0-10.0)	Average Arrestance, %
1	n/a	n/a	E3 < 20	Aavg < 65
2	n/a	n/a	E3 < 20	65 ≤ Aavg < 70
3	n/a	n/a	E3 < 20	70 ≤ Aavg < 75
4	n/a	n/a	E3 < 20	75 ≤ Aavg
5	n/a	n/a	20 ≤ E3 < 35	n/a
6	n/a	n/a	35 ≤ E3 < 50	n/a
7	n/a	n/a	50 ≤ E3 < 70	n/a
8	n/a	20 ≤ E2	70 ≤ E3	n/a
9	n/a	35 ≤ E2	75 ≤ E3	n/a
10	n/a	50 ≤ E2 < 65	80 ≤ E3	n/a
11	20 ≤ E1	65 ≤ E2 < 80	85 ≤ E3	n/a
12	35 ≤ E1	80 ≤ E2	90 ≤ E3	n/a
13	50 ≤ E1	85 ≤ E2	90 ≤ E3	n/a
14	75 ≤ E1 < 85	90 ≤ E2	95 ≤ E3	n/a
15	85 ≤ E1 < 95	90 ≤ E2	95 ≤ E3	n/a
16	95 ≤ E1	95 ≤ E2	95 ≤ E3	n/a



+994 51 400 43 21

info@artimuhendislik.az

www.artimuhendislik.az