

# INVERTER SYSTEM

## ADV200 LC · ADVANCED LIQUID COOLED TECHNOLOGY



### ADV200 LC : a plus in the plastics sector

The ADV200 LC series is used in applications that demand robustness, long life, and maximum reliability.

Liquid cooling systems of electrical and mechanical units, widely used in plastic processing equipment, significantly reduces the size of the electrical drive.

Thanks to a very robust dissipation system, the ADV200 LC series supports the already available air-cooled line and integrates easily in existing systems.

### CHARACTERISTICS

- Considerably smaller than an air-cooled inverter
- Water or Oil heatsink with an innovative cooling system
- Excellent corrosion protection with aluminum cooling pipes and internal separation of electronics and cooling liquid
- Revolutionary installation system: drive installs in electrical panel and with external heatsink
- Simple and reliable installation
- Control, operation and programming is identical to air-cooled ADV200 series
- Integrated temperature control function to control external solenoid for drive and liquid-cooled motor
- Use of all options provided for ADV200 series
- Braking resistor installs directly on heatsink (for sizes up to 55kW)
- EMC filter standard for entire series and integrated input choke inductance up to 200kW.

Installation with heatsink in panel or external installation with push-through system



Wide cooling liquid has temperature range (up to +45°C)



Liquid cooling provides perfect heat dissipation and optimizes the drive in the electrical panel

SPECIFICATIONS



Detail of cooling liquid input: 4...35 l/min (based on drive size).

AC Power supply	380 Vac -15% ... 500 Vac +5%, 50/60 Hz, ± 2%
Power Range	30 ... 800kW, higher on request
Overload	High Duty & Low Duty
Ambient Temperature	-10° ... 50°C
Operating water Temperature	0 ... 35°C (35...45°C with derating / -8°C ... 0°C with 20% Glycol)
Flow Rate	4...35 l/min, depending on drive size
Standards	EN 60721-3-3, IEC/EN 61800-5-1, UL508C. Safety integrity level SIL3 according to EN 61508 and EN61800-5-2; PL e according to EN13849-1;
EMC Compatibility	EN61800-3 (EMC conducted: immunity and emissions) Immunity: environment 2, EN12016 Conducted emission: environment 2, categories C2 and C3, EN12015 Radiated emission: determined by cabinet of final application
Protection degree	IPO0 (IP54 External Heatsink on request)
Approvals	CE, UL, cULus (Sizes 4300 to 84000, parallel excluded)

RANGE

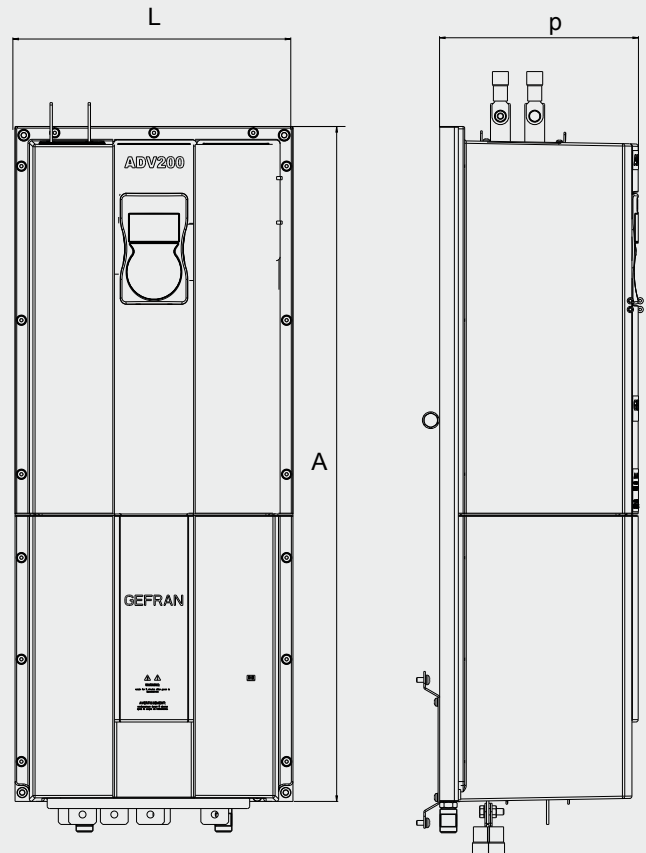
Models	Power (kW)															
	30	37	45	55	75	90	110	132	160	200	250	315	355	400	800	>
ADV200-4-LC	Size 4			Size 5			Size 6		Size 7		Size 8			(*)		

(\*) Parallel size 8. Inverters of over 800 kW comprise one master MASTER unit and one or more SLAVE units. Higher power ratings on request.

DIMENSIONS

	L Width		A Height		P Depth		Weight	
	(mm)	(inches)	(mm)	(inches)	(mm)	(inches)	(kg)	(lbs)
Size 4	200	7.9	570	22.4	286	11.3	30	66
Size 5	310	12.2	570	22.4	286	11.3	42	92
Size 6	310	12.2	920	36.2	270	10.6	60	132
Size 7	350	13.8	920	36.2	320	12.6	90	198
Size 8	350	13.8	1070	42.1	400	15.7	90	198
Size 4 -E54*	286	11.3	586	23.1	280	11.0	30	66
Size 5 -E54*	396	15.6	593	23.3	280	11.0	42	92
Size 6 -E54*	396	15.6	935.8	36.8	262.9	10.3	60	132
Size 7 -E54*	436	17.2	936	36.8	312.9	12.3	90	198
Size 8 -E54*	436	17.2	1086	42.7	389.5	15.3	90	198
800 kW -E54	882	34.7	1086	42.7	389.5	15.3	180	396

\* Version with mounting rear panel heat sink with IP54 protection rating.



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