ELECRO ENGINEERING

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MADE IN BRITAIN

G2C SEMI-COMMERCIAL HEAT EXCHANGER

Cutting-edge design for large volume pools, ensuring optimal heat transfer rates, and maximising efficiency while minimising operational costs. G2C helps reduce energy consumption and CO2 emissions for heating and cooling applications, including central boilers, heat pumps, chillers, and thermal solar panels.

Commercial Pools

FEATURES

- Available in four models with a vast capacity range from 170-kW to 320-kW
- Optimised design using Computational Fluid Dynamics (CFD) analysis
- Grade 1 Titanium tube bundle for maximum corrosion resistance and anti-fouling, thus reducing maintenance and operation cost
- Twisted tube design promotes turbulence on both shell and tube sides, improving heat transfer coefficients compared to traditional straight tubes
- Suitable for seawater and marine applications
- Up to 4 bar pressure tolerance
- Reduced operation pressure drops at high flow rates
- Compact design with greater heat transfer for the same footprint
- Temperature and flow sensor ports
- Optional integration of controller
- Suitable for cooling applications with a water-glycol mixture
- Floor or wall mountable

MODELS & PERFORMACE

MODEL	Length (L) (mm)	PRIMARY FLOW (m^3/h)	PRIMARY PRESSURE LOSS (kPa)	SECONDARY FLOW (m^3/h)	SECONDARY PRESSURE LOSS (kPa)	ΔT 15°C (kW)	ΔT 30°C (kW)	ΔT 65°C (kW)
G2C-HE-170T	560	10	12	28	20	32	69	170
G2C-HE-220T	710	10	16	28	26	42	91	220
G2C-HE-270T	860	10	20	28	30	56	117	270
G2C-HE-320T	960	10	23	28	32	65	136	320

SPECIFICATIONS

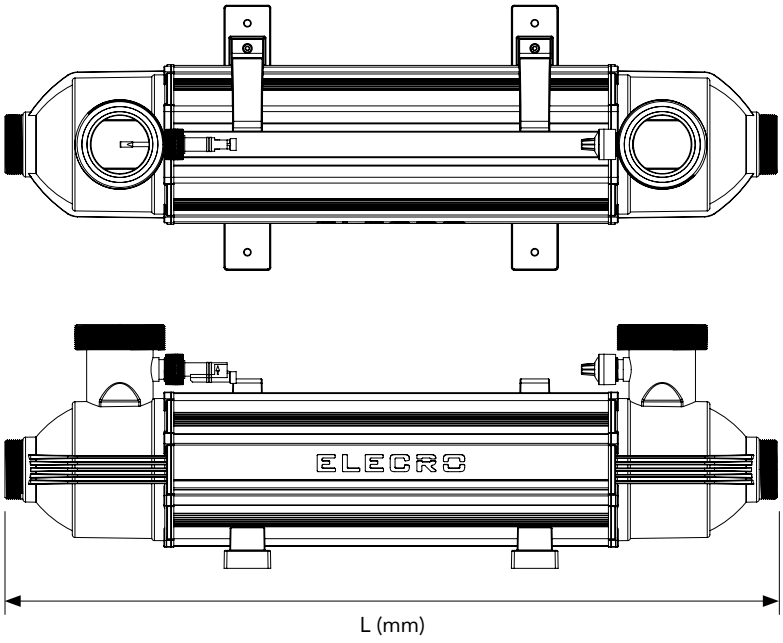
PRIMARY CIRCUIT

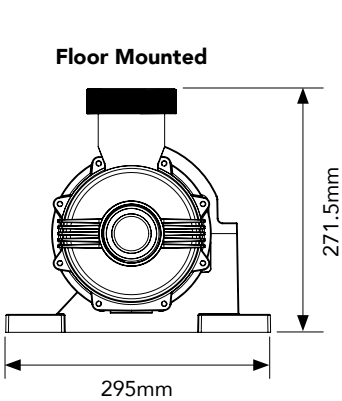
Flow tube: Titanium
Water connections: 1.5" BSP male
Working pressure: 4 bar maximum

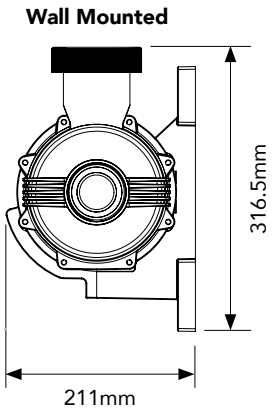
SECONDARY CIRCUIT

Flow tube: Bundle of 85 twisted titanium tubes
Water connections: 2.5" / 75mm PVC unions for rigid pipe connection
Working pressure: 4 bar maximum

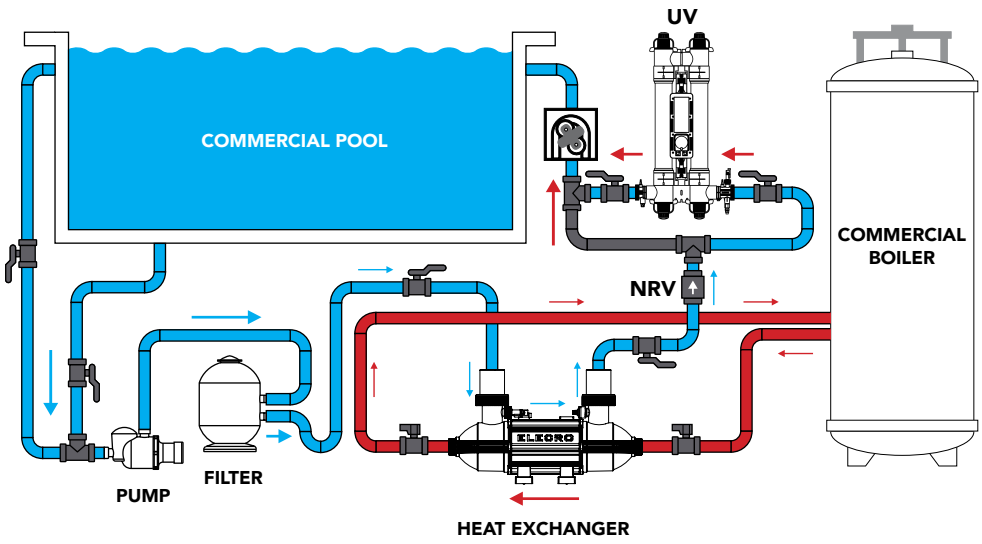
DIMENSIONS





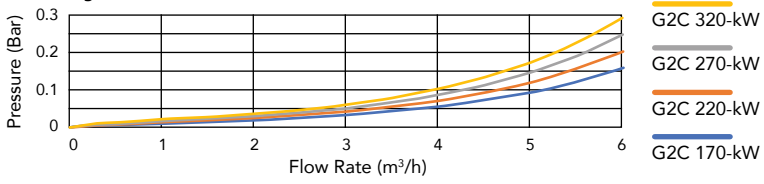


SYSTEM SETUP

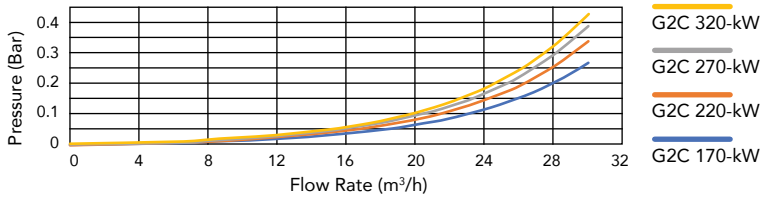


PRESSURE DROP

Primary Circuit



Secondary Circuit



KEY FEATURES