

FREDERICK CROWTHER AND SON LTD

CROMAR

EST 1955



Advantages

- ✓ Plug and play solution
- ✓ Compact design
- ✓ Reduced heat build-up
- ✓ Easy access for cleaning
- ✓ Energy Efficient
- ✓ HYFRA FlexX technology

HYFRA Chillers

Gamma Range - Immersion Chiller

Powerful, easily integrated immersion chillers
for water, oil and emulsions

www.cromar.co.uk

HYFRA Chillers

Gamma Range - Immersion Chiller



How it works

The HYFRA Gamma series consists of fully integrable immersion chillers for water, oil and emulsions. As plug & play solutions, they cover a wide power range of 5 to 160 kW (1 to 45 Tons).

Power levels of up to 28 kW (8 Tons) are possible on bases of only 0.5 m² (5.4 sq.ft) – thanks to the compact design. This results in significant flexibility advantages when planning production area layouts and boosts productivity since facilities can accommodate more machines. Thanks to their horizontally installed compressors, the compact HYFRA Gamma models also significantly reduce heat build-up. The internal components are unaffected by waste heat.

All the models in the series contain a robust agitator, ensuring a uniform medium temperature in the lubricant tank. The HYFRA Gamma series is equipped with fixed crane lugs so the devices can easily be lifted out of the tank for cleaning at regular intervals.

FleXX technology for demand-based operation and 70 % refrigerant savings with microchannel.

Thanks to sector-leading HYFRA microchannel technology, these devices use up to 70 % less refrigerant in comparison to conventional chillers. HYFRA Gamma models are also available with the innovative HYFRA FleXX technology that ensures energy-efficient, extremely precise operation with demand-based controls.



Key data

- ✓ **Power range:** 5 – 160 kW (1 - 45 Tons)
- ✓ **Medium:** Water, oil and emulsion
- ✓ **Footprint:** 5 – 28 kW on footprint of 0.5 m²; (1 - 8 Tons on 5.4 sq.ft)
Up to 80 kW power in only 1 m (23 Tons on 10.8 sq.ft)
- ✓ **Optimized:** Equipped with HYFRA FleXX technology and various control options
- ✓ **Application:** Filtration and mechanical engineering

HYFRA FleXX technology

With its FleXX technology, HYFRA is reacting to the various market requirements of machine manufacturers and operators.

Thanks to its high level of flexibility and adaptability, the technology ensures a decisive competitive advantage. Due to the demand-based operation of various components, chillers with FleXX technology are not only highly energy-efficient, economical, and quiet; they also operate with very little wear, greatly reducing life cycle costs.

Optional controllers

The chillers in the HYFRA Gamma series are equipped with FreeSmart controllers – and with a cooling capacity of 160 kW (45 Tons), they come with FreeEvolution controllers. The two variants are freely programmable and have both analog and digital inputs and outputs, an external display (FreeEvolution) and an FDO (fast digital output) interface for quickly reading out operating data.

FreeEvolution is available in three design variants: basic, professional and expert. For example, they offer menu navigation in multiple languages or remote maintenance linkup. Of course we can flexibly integrate special customer requirements into each of the variants.

Easily integrated. Customized. Powerful.

HYFRA chillers in comparison

	HYFRA Alpha Circulating chillers	HYFRA Gamma Immersion chillers	HYFRA Sigma Recooling systems	HYFRA eChilly Recooling systems
Reduced footprint	✓	✓	✓	
Compact version	✓		✓	
FleXX technology	✓	✓	✓	
Medium	Water	✓	✓	✓
	Oil	✓	✓	
	Emulsion	✓	✓	
Cooling capacity	5 – 80 kW / 1 - 23 Tons	5 – 160 kW / 1 - 45 Tons	5 – 320 kW / 1 - 91 Tons	1 – 6 kW / 0.3 - 2 Tons

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