



# HYFRA eChilly

Compact, trouble-free cooling water recooling system

Customized. Cooling. Solutions.



# Robust. Quiet. Compact.

The HYFRA eChilly series has a compact design that allows it to be integrated into almost any machine layout. Typical applications for HYFRA eChilly models are welding devices, milling technology, drill stations, tool changeover and laboratory technology.

## HYFRA eChilly cooling water recooling system

The HYFRA eChilly series stands for high performance in small spaces. Its compact design allows the models to be integrated into almost any machine layout. HYFRA eChilly cooling systems are available at short notice at any time and can be shipped with a variety of equipment options, including a water-cooled variant.

With sector-leading HYFRA microchannel technology, devices in the HYFRA eChilly series use up to 70 % less refrigerant. In combination with a powerful fan, this means genuine extra efficiency at high ambient temperatures.

*Trouble-free through a standard air filter and 70 % refrigerant reduction with microchannel technology*

All the models of the compact plug & play solution have an air filter as standard equipment. This prevents foreign particles from getting into the machine and causing malfunctions. A no-scratch stainless steel housing protects the cooling system.

### Key data: HYFRA eChilly

✓ **Power range:**  
1 – 6 kW

✓ **Medium:**  
Water

✓ **Footprint:**  
1.4 kW on footprint of 0.4 m<sup>2</sup>;  
up to 6 kW power in only 0.5 m<sup>2</sup>

✓ **Application:**  
Welding devices, milling technology,  
drill stations, tool changeover and  
laboratory technology





# Technical data: HYFRA eChilly



## 1 million ways to perfect cooling

*Precision manufacturing requires exact, constant and reliable general conditions. Whether it's a laser or milling head, all moving parts can only achieve the required level of precision within an exact temperature range. HYFRA eChilly chillers provide many options for almost any configuration required.*

HYFRA eChilly model no. (kW)	1	3	4	4*	5	6*
<b>Performance data</b>						
Ambient °C	Refrigerant °C		Cooling capacity W			
	Water					
32	10	530	2100	2740	3750	4690
	15	775	2450	3565	4525	5660
	20	1025	2810	4395	5480	6800

<b>Technical data</b>								
Refrigerant		R407C				R410A		
Power consumption	kW	1.4	2.8	7.4	7.7	11.8	7.7	
Max. airflow rate	m <sup>3</sup> /h	1290	2390					

<b>Dimensions and weight</b>								
Length	mm	710	760					
Width	mm	545	635					
Height	mm	455	450	500				
Empty weight	kg	55	90					

\* Also available with three-phase power  
For detailed technical data, see: [www.hyfra.com](http://www.hyfra.com)

## 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	5 – 160 kW	5 – 320 kW	1 – 6 kW



# We are HYFRA

✓ *HYFRA is your partner for customized process cooling. Our program ranges from plug & play compact devices to customized systems with extensive service options.*



The name HYFRA stands for long-term, sustainable partnership. We want to offer our customers the best solutions for process cooling. With each consultation, with each action, with each system we deliver and commission, and with our 24/7 service promise, we support our customers' efforts to be successful for the long term.

*Made in Germany since 1981*

Our highly efficient cooling systems and air heat exchangers are key for reliably safeguarding processes. With over 35 years of experience, highly qualified employees and our own production facilities at our location in Krunkel, Rhineland-Palatinate, HYFRA systems provide premium quality "Made in Germany."

*Worldwide service availability*

Whether its remote diagnostics via data transmission or on-site repairs, HYFRA Service is available worldwide and always finds the solution to malfunctions quickly. In addition, we provide customer support for regular maintenance and repair. Qualified service teams will install the entire HYFRA cooling system if necessary.

# Customized service solutions for all requirements

## Turnkey Solutions

Depend on reliability and leave the project management to our experienced experts – from system planning to acceptance. We will take on the responsibility for material procurement for system construction and carry out all of the installation work with our technicians. With our help, you will have an operational cooling system from a single source.

## Repair & Maintenance

HYFRA Service is available worldwide so we can guarantee 100% system availability as soon as possible if a malfunction occurs. In case of failure, our own service team and our local partner's experienced cooling system technician will find a quick solution. We will provide you with transparent information on the costs and duration of service measures at any time.

## Training

Optimal operation and maintenance enable a cooling system to develop its full potential and work perfectly at all times. We provide customized training for your operating personnel and maintenance technicians. We will thoroughly train them to use our systems properly so that your company reaps the long-term benefits of perfect production results.

## Modification & Customization

We can customize HYFRA standard models to satisfy your detailed requirements. A variety of equipment and control options are available. As required, we will also provide a modification kit if your conditions change.

## Maintenance & Service

In order to deliver top performance continuously, cooling systems must be serviced regularly. This also helps effectively avoid expensive repairs and unexpected production downtime. And maintenance measures can significantly extend your system's life cycle. At HYFRA, you can select one of several service packages with one-year terms. They include maintenance and services such as start up and training sessions as well.

### The HYFRA Service promise

- ✓ **Expert**  
Our service team and the employees of our local partners are thoroughly qualified and regularly attend training sessions.
- ✓ **Efficient**  
We carry out orders quickly in order to facilitate fast system availability.
- ✓ **Reliable**  
We meet deadlines and are reliable. We deliver what we promise.



Customized. Cooling. Solutions.

HYFRA is one of the most experienced suppliers of customized process cooling solutions. We cover the entire range of industrial process cooling solutions from plug & play compact machines to individually developed systems with extensive services. Our highly efficient, reliable machines are the key to our customers' success.

As a LENNOX International company, we help mechanical engineers in more than 50 countries to continually set new standards of performance.

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