



HYFRA eChilly

Compact, trouble-free cooling water recooling system

Customized. Cooling. Solutions.

 **HYFRA**

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.

Cooling water recooling HYFRA eChilly

The HYFRA eChilly series stands for high performance in a small space. Its compact design allows the models to be integrated into almost any machine layout. HYFRA eChilly coolers are available at any time, even at short notice, and can be supplied with different equipment options, for example also in water-cooled versions.

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.

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.



Key data HYFRA eChilly

- ✓ **Power range:**
1 – 6 kW
- ✓ **Medium:**
Water
- ✓ **Footprint:**
1.4 kW on footprint of 0.4 m²;
(0.4 Tons on 4.3 sq.ft.)
up to 6,0kW power in only 0,6m²
(up to 23500 btu/hr on 6,3 sq.ft)
- ✓ **Application:**
Welding devices, milling technology,
drill stations, tool changeover and
laboratory technology



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- AND eChilly+ -coolers offer numerous options for almost any configuration required.

HYFRA chillers in comparison

		 HYFRA Alpha Circulating chiller	 HYFRA Gamma Immersion chiller	 HYFRA Sigma Recooling systems	 HYFRA eChilly, eChilly+ Recooling systems
	Reduced footprint	✓	✓	✓	
	Compact version	✓		✓	
	Flex technology	✓	✓	✓	
	Water	✓	✓	✓	✓
	Oil	✓	✓		
	Emulsion	✓	✓		
	Cooling capacity	5 – 320* kW / 1 - 91 Tons 	5 – 160 kW / 1 - 45 Tons 	5 – 320 kW / 1 - 91 Tons 	1 – 6 kW / 1 - 2 Tons 

* Emulsion/Oil 5-160kW / 1-45 Tons

Technical data: HYFRA eChilly, eChilly+

HYFRA eChilly, eChilly+	eChilly+				eChilly	
model no. (kW)	1	2	3*	4*	5*	6**

230V/50Hz					400V/50Hz	
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Performance data

Ambient °C	Refrigerant °C	Cooling capacity kW					
	Water						
32	15	0.8	1.1	2.3	3.4	4.6	5.7
	20	1.0	1.5	2.7	4.0	5.5	6.8

Technical data

Refrigerant		R134A					
Max. power consumption	kW	0.8	1.3	1.7	2.7	3.1	4.6
Max. airflow rate	m³/h	800	1290		2390		

model no. (kW)	1	2	3	4	5	6
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230V/60Hz					460V/60Hz	
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Performance data

Ambient °C / °F	Refrigerant °C / °F	Cooling capacity W / BTU/h					
	Water						
32 / 90	15 / 59	880 / 3003	1380 / 4709	2760 / 9418	3950 / 13478	4870 / 16617	5620 / 19176
	20 / 68	1060 / 3617	1710 / 5835	3360 / 11465	4800 / 16378	5900 / 20132	6770 / 23100

Technical data

Refrigerant		R134A					
Max. power consumption	kW	0.9	1.4	2.2	3.1	2.9	4.9
Max. airflow rate	m³/h / cfm	800 / 471	1290 / 759		2390 / 1407		

Dimensions and weight

Length	mm / in	580 / 22.8	720 / 28.3		770 / 30.3	
Width	mm / in	570 / 22.4	640 / 25.2		765 / 30.1	
Height	mm / in	370 / 14.6	465 / 18.3		515 / 20.3	
Empty weight	kg / lbs	49 / 108	59 / 130	63 / 139	69 / 152	90 / 198

*Also available with three-phase connection
 **Only available with three-phase connection
 For detailed technical data, see: www.hyfra.com

We are HYFRA

- ✔ *HYFRA is your partner for individual process cooling. Our range extends from ready-to-connect compact units to customised systems with comprehensive services.*



The name HYFRA stands for long-term and sustainable partnership. We aim to always offer our customers the best solutions for process cooling. With every consultation, with every move, with every system delivered and commissioned, and with our service available at all times, we support our customers in achieving lasting success.

Made in Germany since 1981

Our highly efficient chillers and air heat exchangers are decisive for the reliable protection of processes. With over 40 years of experience, highly trained employees and our own production at our production in Krunkel, Rhineland-Palatinate, we guarantee the highest quality „Made in Germany“ for all HYFRA systems.

Worldwide service availability

Whether remote diagnosis via data transmission or on-site repair: The HYFRA service is available worldwide and always finds a quick solution in case of malfunctions. In addition, we support our customers with regular maintenance and servicing. Qualified service teams take over the complete installation of our refrigeration systems, if required.

Customized service solutions for all requirements



Turnkey Solutions

Rely on security and leave the entire project management to our experienced experts - from plant planning to acceptance. We take care of the material supply for you during plant construction and carry out the complete installation with our technicians. With our help, you will receive an operational cooling system from a single source in the shortest possible time.



Training

In order for a cooling system to develop its full potential and operate trouble-free at all times, it must be optimally operated and maintained. We offer customised training for your operating personnel and maintenance technicians. We train you thoroughly in the use of our systems so that your company benefits from perfect production results in the long term.



Maintenance & Service

In order to deliver the best performance over the long term, cooling systems need to be maintained regularly. This effectively avoids costly repairs and unexpected production downtimes. The life cycle of the system can also be significantly extended through maintenance measures. At HYFRA you can choose between various service packages with a one-year term, which in addition to maintenance also include services such as commissioning and training.



Repair & Maintenance

To ensure that we can guarantee 100% system availability again as quickly as possible in the event of malfunctions, HYFRA Service is there for you worldwide. Our own service team and experienced refrigeration technicians from our local partners provide a quick solution in case of breakdowns. We inform you transparently about the costs and duration of the maintenance measures at any time.



Modification & Customization

HYFRA standard models can be individually adapted to your specific needs. A wide range of equipment and control options are available for this purpose. On request, we can also put together modification kits for changed operating conditions.

The HYFRA Service promise

Competent

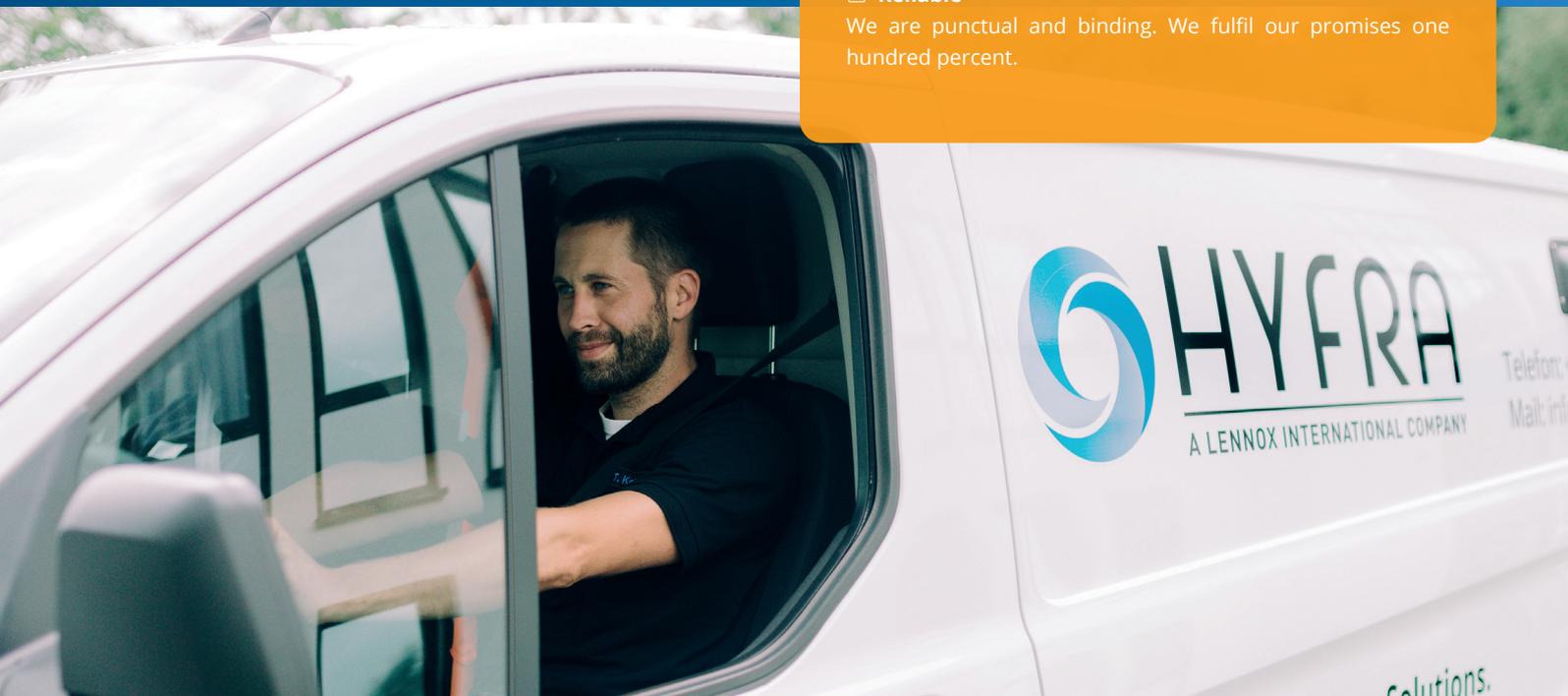
Our service team and the staff of our local partners are highly trained and regularly attend training courses.

Economical

Commissioned work is carried out quickly to enable the fastest possible system availability.

Reliable

We are punctual and binding. We fulfil our promises one hundred percent.



Customized. Cooling. Solutions.

HYFRA is one of the most experienced suppliers of individual refrigeration solutions. We cover the entire range of industrial process cooling; from the ready-to-connect unit to the customised system with comprehensive services. Our highly efficient and reliable machines are crucial for the success of our customers.

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