

The HYDAC logo is a red rounded rectangle with the word "HYDAC" in white, bold, sans-serif capital letters.

# INTERNATIONAL

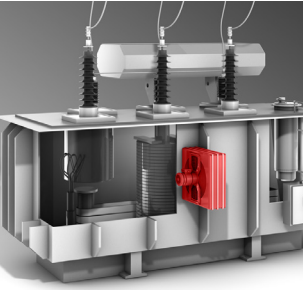
The background of the entire page is a photograph of a refrigerated fluid chiller system. It shows a large, industrial-looking unit with a complex network of pipes and components. The most striking feature is a dense spray of bright orange and yellow sparks or particles emanating from a central point, creating a dramatic contrast against the cool, blue-toned background of the chiller. The overall aesthetic is technical and industrial, emphasizing the cooling and precision capabilities of the equipment.

**Refrigerated  
Fluid Chiller Systems  
RFCS**  
Rack-Mount Cooler

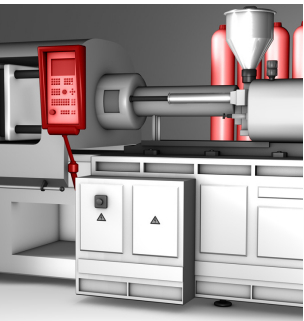
## Your Partner for Expertise in Cooling Systems.



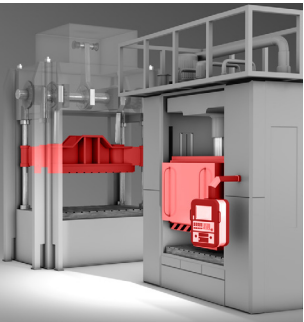
Machine tools



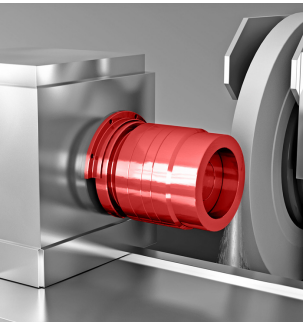
Thermal power plants



Plastic injection moulding machines



Presses



Lathes



Automotive Industry

### All the requirements...

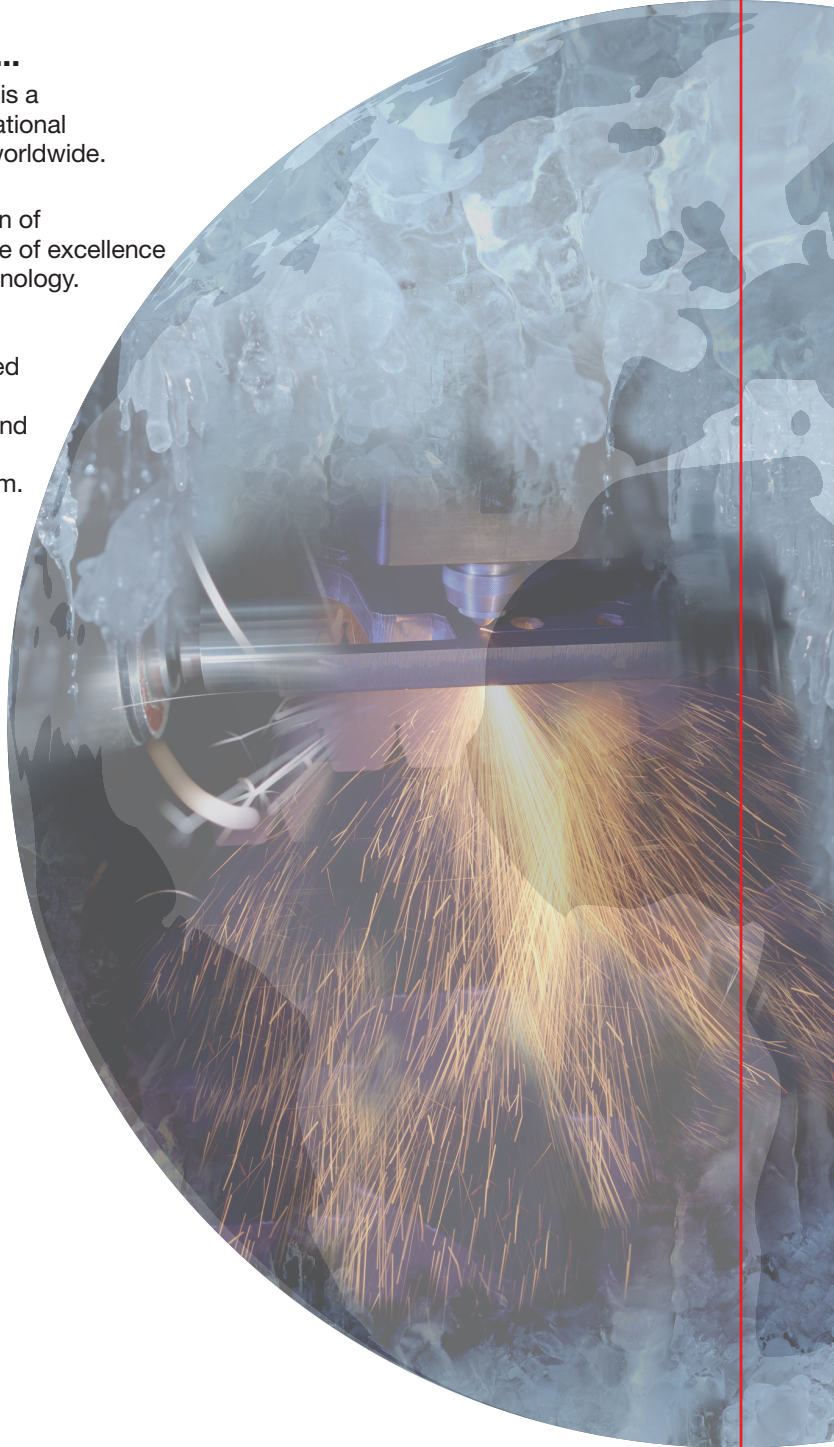
H.I.B Systemtechnik GmbH is a subsidiary of HYDAC International which employs over 7,500 worldwide.

Located in the Bavarian town of Friedberg, H.I.B. is the centre of excellence for refrigeration cooling technology. Innovative cooling systems for the machine tool and laser industries are developed and manufactured here. All machines are designed and developed in-house by our highly experienced R&D team.

### ...for efficient cooling solutions

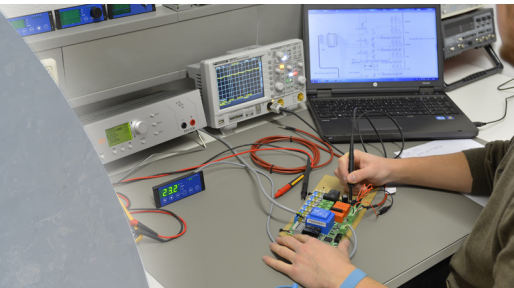
The RFCS Refrigerated Fluid Chiller System cools various fluids such as water, water/glycol or oil down to, or below, the ambient temperature.

The cooling system, which consists of a chiller, pump, tank and electronic control, operates independently and highly accurately to a specific setpoint.



## From the prototype to series production.

Planning and advice from our specialists on site. We tailor the solution to your individual requirements.



Our own development centre produces market-driven, energy efficient and cutting-edge solutions, to stay one step ahead of the "state of the art".

ISO 9001  
CERTIFIED  
QUALITY

The coolers are produced in the Bavarian town of Friedberg and rightly deserve the "Made in Germany" seal of quality!



In order to provide a consistently high level of quality, all equipment must undergo a function and performance test.



For Service you can call on a comprehensive network of service engineers. Whether it is for repair at H.I.B or on site. We are at your service worldwide.



## RFCS-HE Rack-mount cooling system

### Compact, low-noise and high-performance

In the standard versions, these cooling systems are designed as active coolers complete with compressor, air cooled condenser, pump and electronic control.



RFCS-HE



Rack-mount cooler for cooling applications up to approx. 3000 watts. Also available as a passive cooler on request, with cooling capacities of up to 18 kW.

### Temperature control / remote maintenance



H.I.B Control unit



## RFCS-HE Rack-mount cooling system

### Technical data

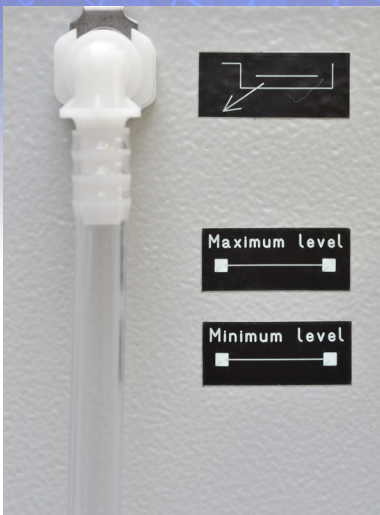


Series	Cooling capacity <sup>1)</sup> [W]	Condenser		Coolant			Pump capacity/ flow rate	Electrical supply <sup>5)</sup>	Dimensions LxDxH [mm]	Weight [kg]
		air-cooled	water-cooled	DI <sup>2)</sup>	IW <sup>3)</sup>	Direct <sup>4)</sup> (without tank)				
<b>3HE</b>	300	●	●	●	●	●	3 l/min @ 3 bar	100–240V – 50Hz	19" x 550 x 133	28
<b>4HE</b>	300	●	●	●	●	●	4.5 l/min @ 3 bar	230V – 50/60Hz	19" x 560 x 178	30
<b>5HE</b>	500	●	●	●	●	●	4.5 l/min @ 3 bar	230V – 50/60Hz	19" x 565 x 223	42
<b>6HE</b>	800	●	●	●	●	●	4.5 l/min @ 3 bar	230V – 50/60Hz	19" x 565 x 267	48
<b>7HE</b>	1500	●	●	●	●	●	4.5 l/min @ 3 bar	230V – 50/60Hz	19" x 640 x 312	57
<b>9HE</b>	2300	●	●	●	●	●	4.5 l/min @ 3 bar	230V – 50/60Hz	19" x 640 x 401	59
<b>11HE</b>	3000	●	●	●	●	●	4.5 l/min @ 3 bar	230V – 50/60Hz	19" x 640 x 490	68

1) Cooling capacity based on 35°C ambient air / water to condenser and 20°C process fluid supply temperature  
 2) DI = deionised water  
 3) IW = industrial water

4) Direct = Direct vaporisation without refrigerant  
 5) Standard, additional voltages on request

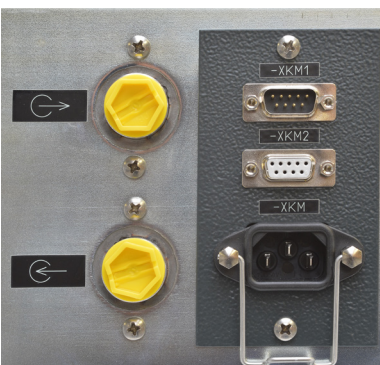
## Features



Visual fill-level display



Front filling and drainage



Rapid commissioning and straightforward connection to higher-level measurement and control technology

## Accessories

- Conductance regulation and monitoring
- Speed-controlled compressor and condenser fan
- High-pressure pump
- Several parallel circuits
- Ambient-dependent temperature control using separate temperature sensor
- Serial interfaces for system monitoring
- Filtration units for the refrigerant circuit
- Flow rate display and monitoring
- Extremely accurate control  $\pm 0.1$  K
- Devices also available in DC supply voltage
- Water-cooled condenser variant also available



- Low noise
- High level of operating reliability
- Compact
- Precise temperature control
- Easy maintenance and operation – all connections on front panel

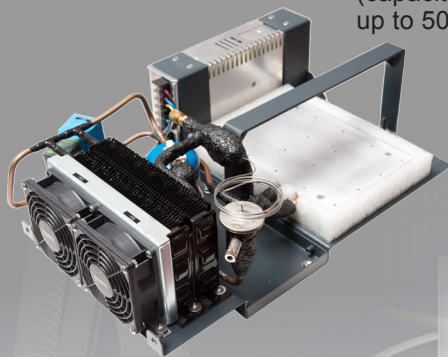


## Special solutions in medical and laser technology

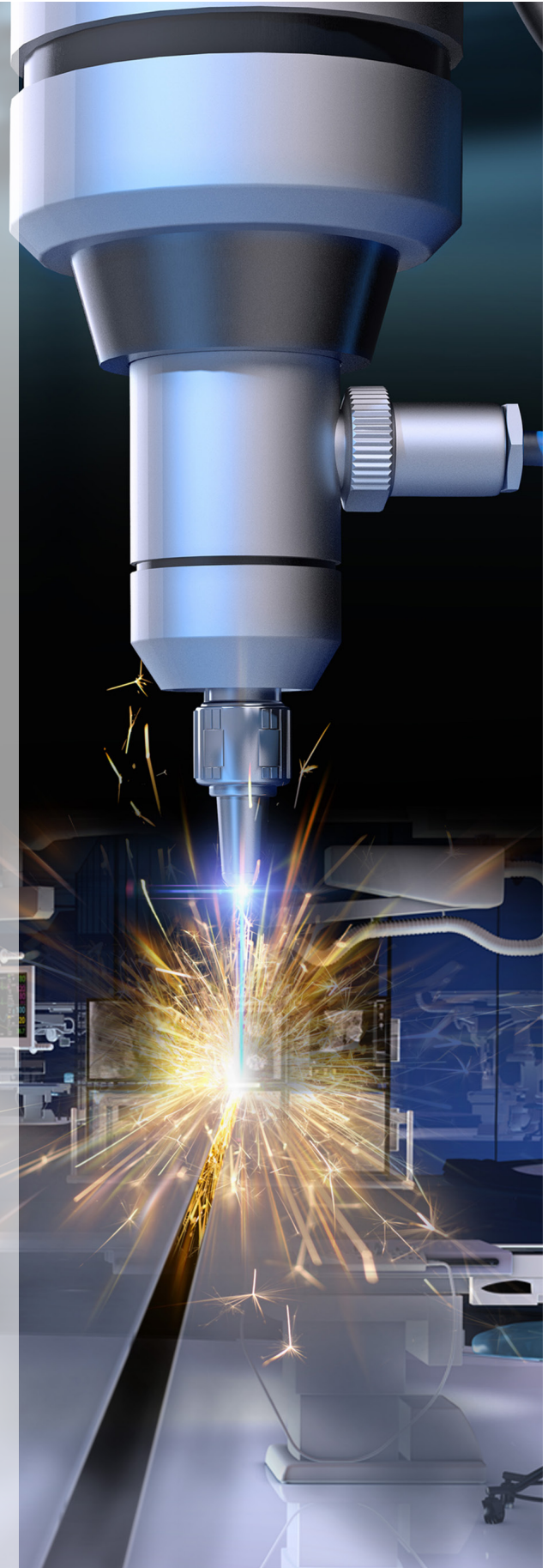


**RFCS-Mini cooler**  
(capacities  
up to 500 watts)

- Transportable
- Ideal for calibrating laser systems



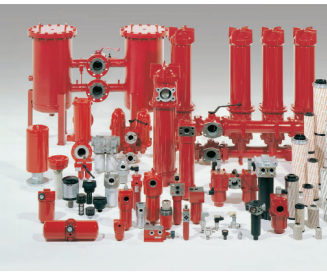
**RFCS-Coldplate**  
(capacities  
up to 500 watts)



The RFCS-Mini cooler and RFCS-Coldplate can also be customised to suit your particular specifications on request.



Accumulators 30.000



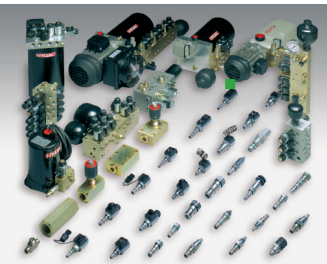
Fluid Filters 70.000



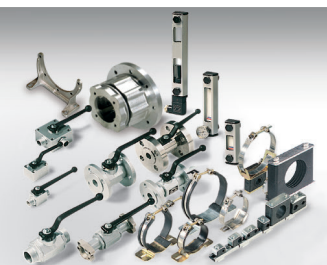
Process Technology 77.000



Filter Systems 79.000



Compact Hydraulics 53.000



Accessories 61.000

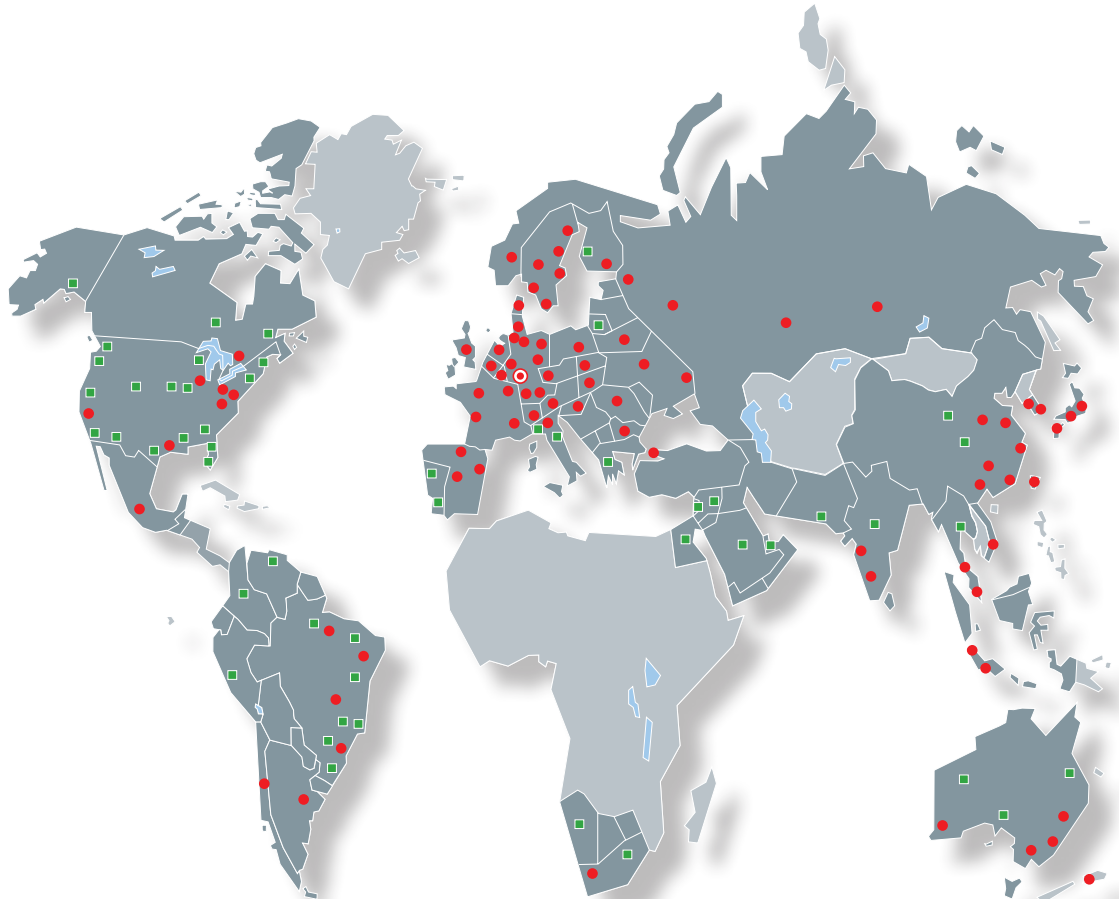





Electronics 180.000



Cooling Systems 5.700

# Global Presence. Local Expertise. [www.hydac.com](http://www.hydac.com)



-  HYDAC Head Office
-  HYDAC Companies
-  HYDAC Sales and Service Partners

## H.I.B. HYDAC INTERNATIONAL

**H.I.B Systemtechnik GmbH**  
 Winterbrückenweg 30  
**D-86316 Friedberg-Derching**  
 Tel.: +49 (0) 821/747 71-4  
 Fax: +49 (0) 821/747 71-5594  
 Internet: [www.h-i-b.de](http://www.h-i-b.de)  
 E-mail: [vertrieb@h-i-b.de](mailto:vertrieb@h-i-b.de)

**HYDAC COOLING GMBH**  
 Industriegebiet  
**D-66280 Sulzbach / Saar**  
 Tel.: +49 (0) 6897/509-01  
 Fax: +49 (0) 6897/509-454  
 Internet: [www.hydac.com](http://www.hydac.com)  
 E-mail: [cooling@hydac.com](mailto:cooling@hydac.com)