

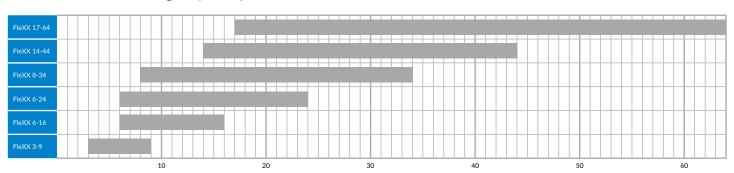
- Energy efficiency: up to 30% energy savings
- High operational reliability through PLC control
- Flexible power supply
- Temperature precision of up to ±0.1 K
- Made in Germany

FleXXTechnology

Flexibility and adaptability to different market requirements and operating conditions make the new FleXX Technology into a key competitive advantage for machine manufacturers and operators. Due to the demand-based operation of various components, the chillers not only are highly energy-efficient, economical, and quiet; they also operate with very little wear, greatly reducing lifecycle costs. Series with six models in each case and different cooling capacities for different media are available for flexible use in various industrial applications.



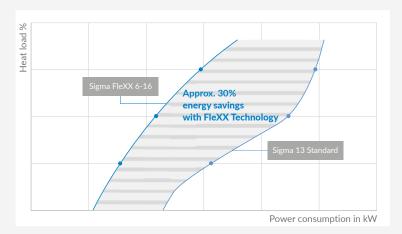
Overview of cooling capacity



Chillers with innovative technology

The flexibility, efficiency, and reliability of HYFRA chillers are the result of unique technical innovation. With demand-based operation and the microchannel condenser, HYFRA offers intelligent answers to the challenges of tomorrow.

- Low operating costs
- Reduced use of refrigerants
- Temperature precision of up to ±0.1 K
- Operational reliability
- Operating data acquisition and evaluation
- High transparency of service times and costs





Efficiency through speed control

The demand-based operation of the EC compressor, the EC fan, and the electronic expansion valve considerably reduce the power consumption of the chiller compared to unregulated technology. For ideal chiller operation, the PLC reliably detects the heat load of the application and precisely adjusts the relevant components. Machine manufacturers and operators can be sure that the cooling is always operating with the ideal efficiency.



Safety and trouble-free operation

Continuously variable, smooth starting or braking of the compressor avoids high stresses on the components, preventing wear. Continuous recording of operating data enables establishment of preventive maintenance and fault rectification. If required, the control system can also be accessed using remote maintenance. The service cost is significantly reduced and downtime of the system is effectively prevented.



Flexibility for international use

HYFRA chillers are prepared for international use. Their inclusion of a frequency converter enables easy changeover of the power supply. The chiller does not need to be retrofitted in such a case. Warehousing and model diversity is reduced considerably for machine manufacturers, simplifying distribution and logistics.

The displays of the chillers are multilingual and can be intuitively switched on and changed. The operator can choose from seven languages.







HYFRA Sigma FleXX HYFRA Alpha FleXX HYFRA Gamma FleXX

FleXX Technology overview of models

Models	3-9	6-16	6-24	8-34	14-44	17-64
Cooling capacity (kW), T _U 32°C	9.9	16.5	24.5	34.6	44.7	64.0
Refrigerant	R410A					
Max. ambient temp. (°C)	42					
Max. temperature (°C)	40					
Power consumption (kW) ^{a)}	2.77	5.47	7.22	12.46	14.39	17.8
Sound pressure level (dBA)	66.4	67.1	69.3	70.1	72.6	74.4
Voltage	$3 \times 380 - 480 \text{ V} + 6/-10\% 50/60 \text{ Hz}$ (depending on the pump)					

HYFRA Sigma FleXX	Re-chillers for water 20°C						
Air flow rate (m³/h)	5600		8000		12,000	16,200	
Max. temperature (°C)			40				
Tank capacity (I)	12	120 300					
Flow rate (m³/h)	1.6	2.6	4.6	5.1	8.0	10.5	
Pump pressure (bar)	2.8	3.0	2.8	2.5	2.5	3.5	
Weight (kg)	200	210	350	370	380	480	
Length (mm)	85	855		1160			
Width (mm)	71	715		1000			
Height (mm)	15	555		20	2055		

HYFRA Gamma FleXX	Immersion chiller for emulsion 25°C or oil 30°C							
Air flow rate (m³/h)	5600		8000		12,000	16,200		
Weight (kg)	160/170 b)	170/190 b)	290/340 b)	310/390 b)	320/420 b)	500/500 b)		
Length (mm)	8	890		1210				
Width (mm)	7	785		1085				
Height (mm)	14	1420		2000				

HYFRA Alpha FleXX	Circulating chiller fo	Circulating chiller for emulsion 25°C or oil 30°C						
Air flow rate (m³/h)	560	5600		8000		16,200		
Flow rate (m³/h)	3.5/5	5.0 ^{b)}	6.5/10.0 ^{b)}			13.0 /20.0 ^{b)}		
Pump pressure (bar)		1.0						
Weight (kg)	190	210	290	310	320	390		
Length (mm)	85	855		1160				
Width (mm)	71	715		1000				
Height (mm)	155	1555		2055				

 $^{^{\}text{a})}$ Without pump/stirrer. Nominal conditions $T_{\text{U}}/T_{\text{Med}}$: 32°C/20°C water; 32°C/25°C emulsion; 32°C/30°C oil

Technical changes reserved.

Options:

Numerous options and accessories for the HYFRA series are available on request.

More information and your contact persons for further questions can be found online at: www.hyfra.com



b) Values for medium oil 30°C