

Immersion chillers HYFRA Gamma

Easily integrated. Customized. Powerful.

The HYFRA Gamma series is easy to integrate into machines and production layouts. With cooling capacities of 5 to 160 kW, the HYFRA Gamma models are perfect for a range of filtration and mechanical engineering applications.



Key data HYFRA Gamma

- ✓ **Power range:**
5 – 160 kW
- ✓ **Medium:**
Water, oil and emulsion
- ✓ **Footprint:**
5 – 28 kW on footprint of 0.5 m²
Up to 80 kW power in only 1 m²
- ✓ **Optimized:**
Equipped with HYFRA FleXX Technology
and various control options
- ✓ **Application:**
Filtration and mechanical engineering

Technical data HYFRA Gamma Oil

HYFRA Gamma model no. (kW)		5	7	9	13	16	18	22	28	34	42	52	56	67	80	104	134	160	
Performance data																			
Ambient °C	Refrigerant °C	Cooling capacity kW ^{c)}																	
	Oil																		
32	15	3.6	5.6	7.0	10.1	12.2	14.8	17.6	22.1	26.4	32.1	39.6	44.3	52.8	64.3	77.2	103.0	125.4	
	20	4.4	6.6	8.2	11.9	14.3	17.3	20.7	26.0	30.6	37.7	46.2	52.1	61.3	75.5	90.1	119.5	147.2	
37	15	3.2	5.5	6.4	9.5	11.3	13.8	17.4	20.9	24.6	30.3	35.9	41.9	49.3	60.6	70.0	96.1	118.2	
	20	4.0	6.5	7.6	11.1	13.4	16.4	20.7	24.6	28.9	35.6	42.8	49.2	57.9	71.2	83.5	112.9	138.8	
42	15	3.6	5.1	6.3	9.1	9.5	13.6	16.3	20.3	23.6	25.7	34.0	40.7	47.2	51.4	66.3	92.0	100.2	
	20	3.8	6.1	7.5	10.6	11.8	16.1	19.2	24.2	28.1	31.6	40.9	48.5	56.3	63.3	79.8	109.8	123.4	

Technical data																					
Refrigerant		R134a								R410A											
Refrigerant charge	kg	1.5		1.6	1.7	1.9	3.2	3.5	3.7	4.6	4.7	6.7	8.3	10.4	11.2	13.1	20.8	23.3			
Sound pressure level ^{a)} user side	dB(A)	68				66				64	71				72	74	77				
Power consumption max. ^{b)}	kW	3.0	4.0	4.6	5.8	6.7	6.7	8.4	11.2	12.5	16.7	18.4	18.8	25.2	29.0	36.4	50.0	57.6			
Current consumption max. ^{b)}	A	5.6	7.4	7.7	10.1	12.4	12.4	17.1	19.0	20.6	27.5	31.7	32.3	42.5	47.7	63.2	84.7	95.1			
Condenser		1				2				1				2				4			
Max. airflow rate	m ³ /h	4500								5500	10000	10800	15500				21600	30000			
Dimensions and weight																					
Length	mm	785								1085				1605				2085			
Width	mm	785								1085											
Height	mm	1320				1420				1940											
Height of machinery top	mm	820								1280											
Length of immersion part	mm	715								1000											
Width of immersion part	mm	715								1000				1515				2000			
Immersion depth	mm	500				600				660											
Minimum coolant level	mm	110	150	200		290	335	380	410	520	240	340	410	520	450	500	500				
Empty weight	kg	140	150	160	170	180	190		360	390	410	420	440	460	820	880	920				

a) Sound pressure level measured in free field at 1 m distance and 1.2 m (tolerance +/- 1 dB (A))
incl. compressor operation without start / stop phase

b) at 42 °C ambient temperature and 20 °C medium temperature

c) Cooling capacity determined using ISO-VG 5;
Max. viscosity ISO-VG 32/Options available upon request

Technical data HYFRA Gamma Emulsion

HYFRA Gamma model no. (kW)		5	7	9	13	16	18	22	28	34	42	52	56	67	80	104	134	160	
Performance data																			
Ambient °C	Refrigerant °C	Cooling capacity kW ^{c)}																	
	Emulsion																		
32	15	4.4	6.6	8.2	11.9	14.3	17.3	20.7	26.0	30.6	37.7	46.2	52.1	61.3	75.5	90.1	119.5	147.2	
	20	4.9	7.3	9.1	13.0	15.8	19.0	22.4	28.7	34.2	42.2	52.5	57.4	68.5	84.5	102.4	133.6	164.8	
37	15	4.0	6.5	7.6	11.1	13.4	16.4	20.7	24.6	28.9	35.6	42.8	49.2	57.9	71.2	83.5	112.9	138.8	
	20	4.5	7.1	8.3	12.2	14.8	17.9	22.4	26.3	31.8	38.6	49.7	52.7	63.8	77.8	96.9	124.4	151.7	
42	15	3.8	6.1	7.5	10.6	11.8	16.1	19.2	24.2	28.1	31.6	40.9	48.5	56.3	63.3	79.8	109.8	123.4	
	20	4.3	6.8	8.3	11.6	13.4	17.7	21.1	26.3	30.9	35.7	48.0	52.7	62.0	71.4	93.6	120.9	139.2	

Technical data																					
Refrigerant		R134a								R410A											
Refrigerant charge	kg	1.3				1.4	1.6	2.5		2.6	3.0	3.3	4.8	6.0	7.5	8.5	12.0	15.0	17.0		
Sound pressure level ^{a)} user side	dB(A)	68/71					66/71				64	71				72	74	77			
Power consumption max. ^{b)}	kW	3.0	4.0	4.6	5.8	6.7	6.7	8.4	11.2	12.5	16.7	18.4	18.7	25.1	28.9	36.4	50.0	57.6			
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Condenser		1					2				1				2				4		
Max. airflow rate	m ³ /h	4500								5500	10000	10800	15500				21600	30000			

Dimensions and weight																					
Length	mm	785								1085								2085			
Width	mm	785								1085											
Height	mm	1320				1420				1940											
Height of machinery top	mm	820								1280											
Length of immersion part	mm	715								1000											
Width of immersion part	mm	715								1000								2000			
Immersion depth	mm	500				600				660											
Minimum coolant level	mm	60	80			110	200		245	190	230	300	340		360	300	340	360			
Empty weight	kg	130	140	150	160	170		180	280	290	320	330	340	350	640	680	700				

a) Sound pressure level measured in free field at 1 m distance and 1.2 m (tolerance +/- 1 dB (A))
incl. compressor operation without start / stop phase

b) at 42 °C ambient temperature and 20 °C medium temperature

c) Cooling capacity determined using ISO-VG 5;
Max. viscosity ISO-VG 32/Options available upon request