

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 1.4 to 45.5 Tons, the HYFRA Gamma models are perfect for a range of filtration and mechanical engineering applications.



Key data HYFRA Gamma

- ✓ **Power range:**
1.4 to 45.5 Tons
- ✓ **Medium:**
Water, oil and emulsion
- ✓ **Footprint:**
1.4 – 8 Tons 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.		5	7	9	13	16	18	22	28	34	42	52	56	67	80	104	134	160			
Performance data																					
Ambient °F	Refrigerant °F	Cooling capacity Tons ^{c)}																			
	Oil																				
89.6	59	1.0	1.6	2.0	2.9	3.5	4.2	5.0	6.3	7.5	9.1	11.3	12.6	15.0	18.3	22.0	29.3	35.7			
	68	1.3	1.9	2.3	3.4	4.1	4.9	5.9	7.4	8.7	10.7	13.1	14.8	17.4	21.5	25.6	34.0	41.9			
98.6	59	0.9	1.6	1.8	2.7	3.2	3.9	4.9	4.9	7.0	8.6	10.2	11.9	14.0	17.2	19.9	27.3	33.6			
	68	1.1	1.8	2.2	3.2	3.8	4.7	5.9	7.0	8.2	10.1	12.2	14.0	16.5	20.2	23.7	32.1	39.5			
107.6	59	1.0	1.5	1.8	2.6	2.7	3.9	4.6	5.8	6.7	7.3	9.7	11.6	13.4	14.6	18.9	26.2	28.5			
	68	1.1	1.7	2.1	3.0	3.4	4.6	5.5	6.9	8.0	9.0	11.6	13.8	16.0	18.0	22.7	31.2	35.1			
Technical data																					
Refrigerant		R134a							R410A												
Refrigerant charge	lbs	3.3		3.5	3.7	4.2	7.1	7.7	8.2	10.1	10.4	14.8	18.3	22.9	24.7	28.9	45.9	51.4			
Sound pressure level ^{a)} user side	B	6.8				6.6				6.4	7.1				7.2	7.4	7.7				
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	gpm	19813.0							24215.9		44028.8	47551.1	68244.7			95102.2	132086.4				
Dimensions and weight																					
Length	inch	30.9							42.7			63.2				82.1					
Width	inch	30.9							42.7												
Height	inch	52.0			55.9						76.4										
Height of machinery top	inch	32.3							50.4												
Length of immersion part	inch	28.1							1000												
Width of immersion part	inch	28.1							39.4			59.6				78.7					
Immersion depth	inch	19.7			23.6						26.0										
Minimum coolant level	inch	4.3	5.9		7.9		11.4	13.2	15.0	16.1	20.5	9.4	13.4	16.1	20.5	17.7	19.7	19.7			
Empty weight	lbs	308.6		330.7	352.7	374.8	396.8	418.9		793.7	859.8	903.9	925.9	970.0	1014.1	1807.8	1940.1	2028.3			

a) Sound pressure level measured in free field at 1 m distance and 1.2 m (tolerance +/- 0.1 B)
incl. compressor operation without start / stop phase

b) at 107.6 °F ambient temperature and 68 °F 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 °F	Refrigerant °F	Cooling capacity Tons ^{c)}																			
	Emulsion																				
89.6	59	1.3	1.9	2.3	3.4	4.1	4.9	5.9	7.4	8.7	10.7	13.1	14.8	17.4	21.5	25.6	34.0	41.9			
	68	1.4	2.1	2.6	3.7	4.5	5.4	6.4	8.2	9.7	12.0	14.9	16.3	19.5	24.0	29.1	38.0	46.9			
98.6	59	1.1	1.8	2.2	3.2	3.8	4.7	5.9	7.0	8.2	10.1	12.2	14.0	16.5	20.2	23.7	32.1	39.5			
	68	1.3	2.0	2.4	3.5	4.2	5.1	6.4	7.5	9.0	11.0	14.1	15.0	18.1	22.1	27.6	35.4	43.1			
107.6	59	1.1	1.7	2.1	3.0	3.4	4.6	5.5	6.9	8.0	9.0	11.7	13.8	16.0	18.0	22.7	31.2	35.1			
	68	1.2	1.9	2.4	3.3	3.8	5.0	6.0	7.5	8.8	10.2	13.6	15.0	17.6	20.3	26.6	34.4	39.6			
Technical data																					
Refrigerant		R134a							R410A												
Refrigerant charge	lbs	2.9			3.1	3.5	5.5		5.7	6.6	7.3	10.6	13.2	16.5	18.7	26.5	33.1	37.5			
Sound pressure level ^{a)} user side	B	6.8/7.1				6.6/7.1				6.4	7.1				7.2	7.4	7.7				
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			
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	31.5	32.1	42.3	47.5	63.2	84.7	95.1			
Condenser		1					2			1			2			4					
Max. airflow rate	gpm	19813							24215.8		44028.8	47551.1	68244.7			95102.2	132086.4				
Dimensions and weight																					
Length	inch	30.9							42.7					82.1							
Width	inch	30.9							42.7												
Height	inch	52	55.9						76.4												
Height of machinery top	inch	32.3							50.4												
Length of immersion part	inch	28.1							39.4												
Width of immersion part	inch	28.1							39.4					78.7							
Immersion depth	inch	19.7	23.6						26												
Minimum coolant level	inch	2.4	3.1	4.3	7.9	9.6	7.5	9.1	11.8	13.4	142	11.8	13.4	14.2							

a) Sound pressure level measured in free field at 1 m distance and 1.2 m (tolerance +/- 0.1 B)
incl. compressor operation without start / stop phase

b) at 107.6 °F ambient temperature and 68 °F medium temperature

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