

Circulating chillers

HYFRA Alpha

Reliable. Efficient. Stand-alone.

Our HYFRA Alpha series can be customized to satisfy specific customer requirements thanks to a variety of technological options. With cooling capacity of 1.4 to 22.7 Tons, HYFRA Alpha models provide broad coverage for the machine tooling sector – particularly for filtration technology.



Key data HYFRA Alpha

- ✓ **Power range:**
1.4 – 22.7 Tons
- ✓ **Medium:**
Water, oil and emulsion
- ✓ **Footprint:**
1.4 – 8 Tons on footprint of 0.5 m²
Up to 22.7 Tons power in only 1 m²
- ✓ **Optimized:**
Equipped with HYFRA FleXX Technology and various control options
- ✓ **Application:**
Mainly filtration

Technical data HYFRA Alpha Oil

HYFRA Alpha model no.		5	7	9	13	16	18	22	28	34	42	52	56	67	80	
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	11.1	12.2	14.6	17.3	
	68	1.3	1.9	2.3	3.4	4.1	4.9	5.9	7.4	8.7	10.7	12.9	14.4	17.0	20.3	
98.6	59	0.9	1.6	1.8	2.7	3.2	3.9	4.9	5.9	7.0	8.6	10.0	11.5	13.6	16.2	
	68	1.1	1.8	2.2	3.2	3.8	4.7	5.9	7.0	8.2	10.1	12.0	13.6	16.1	19.1	
107.6	59	1.0	1.5	1.8	2.6	2.7	3.9	4.6	5.8	6.7	7.3	9.5	11.2	13.0	13.8	
	68	1.1	1.7	2.1	3.0	3.4	4.6	5.5	6.9	8.0	9.0	11.4	13.0	15.6	17.0	
Technical data																
Refrigerant		R134a	R410A													
Refrigerant charge	lbs	3.3	2.4	2.6	3.1	4.6	4.9	5.1	6.0	6.6	9.9	12.1	13.2			
Sound pressure level ^{a)} user side	B	6.8					6.6			6.4	7.0		7.1		7.2	
Power consumption max. ^{b)}	kW	3.8	4.8	5.4	6.6	7.5	11.0	12.7	15.6	14.6	18.8	26.3	26.7	33.1	36.9	
Current consumption max. ^{b)}	A	7.6	9.4	9.7	12.1	14.4	21.6	26.3	28.2	25.1	32.1	47.8	48.3	58.5	63.7	
Condenser		1					2			1		2				
Max. airflow rate	gpm	19813					22014.4			24215.8	44028.8	47551.1	68244.7			
Medium pressure	psi	14.5					29.0			14.5		29.0				
Nominal fluid	gpm	22.0					44.0			66.0		88.1				
Fluid connection	inch	1 1/2					2			3						
Dimensions and weight																
Length	inch	28.1					39.4									
Width	inch	28.1					39.4									
Height	inch	61.2					78.7									
Empty weight	lbs	374.8			418.9	529.1	551.2	683.4	749.6	815.7	992.1	1058.2				

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

Technical data HYFRA Alpha Emulsion

HYFRA Alpha model no.		5	7	9	13	16	18	22	28	34	42	52	56	67	80	
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	12.9	14.4	17.0	20.3	
	68	1.4	2.1	2.6	3.7	4.5	5.4	6.4	8.2	9.7	12.0	14.7	15.9	19.1	22.7	
98.6	59	1.1	1.8	2.2	3.2	3.8	4.7	5.9	7.0	8.2	10.1	12.0	13.6	16.1	19.1	
	68	1.3	2.0	2.4	3.5	4.2	5.1	6.4	7.5	9.0	11.0	13.9	14.9	17.7	20.8	
107.6	59	1.1	1.7	2.1	3.0	3.4	4.6	5.5	6.9	8.0	9.0	11.4	13.0	15.6	17.0	
	68	1.2	1.9	2.4	3.3	3.8	5.0	6.0	7.5	8.8	10.2	13.4	14.6	17.2	19.2	
Technical data																
Refrigerant		R134a	R410A													
Refrigerant charge	lbs	3.3	2.4	2.6	3.1	4.6	4.9	5.1	6.0	6.6	9.9	12.1	13.2			
Sound pressure level ^{a)} user side	B	6.8					6.6			6.4	7.0		7.1		7.2	
Power consumption max. ^{b)}	kW	3.4	4.4	5.0	6.2	7.1	7.5	9.2	12.0	13.3	17.5	26.3	26.7	33.1	36.9	
Current consumption max. ^{b)}	A	6.6	8.4	8.7	11.1	13.4	14.4	19.1	21.0	22.6	29.6	47.8	48.3	58.5	63.7	
Condenser		1					2			1		2				
Max. airflow rate	gpm	19813							24215.8	44028.8	68244.7					
Medium pressure	psi	14.5														
Nominal water flow	gpm	15.4					28.6					48.4	57.2			
Fluid connection	inch	1 1/4					1 1/2					2				
Dimensions and weight																
Length	inch	28.1							39.4							
Width	inch	28.1							39.4							
Height	inch	61.2							78.7							
Empty weight	lbs	352.7	374.8	418.9	529.1	551.2	683.4	749.6	815.7	992.1	1058.2					

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

Circulating chillers HYFRA Alpha c

Compact. Cost-optimized. Plug-in.

Up to 40 % height reduction for improved integration into various plant layouts.



Key data HYFRA Alpha c

- ✓ **Power range:**
1.4 – 4.5 Tons
- ✓ **Medium:**
Water, oil and emulsion
- ✓ **Footprint:**
1.4 – 8 Tons on footprint of 0.5 m²
- ✓ **Optimized:**
Up to 40 % height reduction
- ✓ **Application:**
Mainly filtration

Technical data HYFRA Alpha c Oil/Emulsion

HYFRA Alpha c model no.		c 5	c 7	c 9	c 13	c 16
Performance data						
Ambient °F	Refrigerant °F	Cooling capacity Tons ^{c)}				
	Oil					
89.6	59	0.9	1.5	1.9	2.8	3.4
	68	1.1	1.8	2.2	3.3	4.0
98.6	59	0.8	1.5	1.7	2.6	3.1
	68	1.0	1.7	2.0	3.0	3.7
107.6	59	0.9	1.3	1.7	2.5	2.6
	68	1.0	1.6	2.0	2.9	3.2
Technical data						
Refrigerant		R134a	R410A			
Refrigerant charge	lbs	2.0			2.2	
Sound pressure level ^{a)} user side	B	7.1				7.4
Power consumption max. ^{b)}	kW	3.5	4.5	5.1	6.3	7.5
Current consumption max. ^{b)}	A	7.0	8.8	9.1	11.5	14.4
Condenser		1				
Max. airflow rate	gpm	14529.5				19813
Medium pressure	psi	14.5				
Nominal fluid	gpm	15.4				
Fluid connection	inch	1 1/2				
Dimensions and weight						
Length	inch	28.0				
Width	inch	32.3				
Height	inch	36.6				
Empty weight	lbs	262.4	257.9	262.4	275.6	

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

HYFRA Alpha c model no.		c 5	c 7	c 9	c 13	c 16
Performance data						
Ambient °F	Refrigerant °F	Cooling capacity Tons ^{c)}				
	Emulsion					
89.6	59	1.1	1.8	2.2	3.3	4.0
	68	1.3	2.0	2.5	3.6	4.4
98.6	59	1.0	1.7	2.0	3.0	3.7
	68	1.2	1.9	2.2	3.4	4.1
107.6	59	1.0	1.6	2.0	2.9	3.2
	68	1.1	1.8	2.2	3.2	3.7
Technical data						
Refrigerant		R134a	R410A			
Refrigerant charge	lbs	2.0			2.2	
Sound pressure level ^{a)} user side	B	7.1				7.4
Power consumption max. ^{b)}	kW	3.2	4.2	4.8	6.0	6.9
Current consumption max. ^{b)}	A	6.0	7.8	8.1	10.5	13.4
Condenser		1				
Max. airflow rate	gpm	14529.5				19813
Medium pressure	psi	14.5				
Nominal water flow	gpm	15.4				
Fluid connection	inch	1 1/4				
Dimensions and weight						
Length	inch	28.0				
Width	inch	32.3				
Height	inch	36.6				
Empty weight	lbs	262.4	257.9	262.4	275.6	