



FERRO CHILLERS

Industrial Refrigeration & Temperature Control



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**OUR POLICY
FLEXIBILITY**
in *Design*

ABOUT US

Ferro Chillers built its experience in the water cooling systems for industrial and commercial process cooling applications, achieving levels of know-how which today make it one of the leading firms in the sector.

The Mission of our company is to provide energy efficient, environment friendly, innovative products and solutions for commercial and industrial refrigeration, HVAC, process cooling, automotive, plastic and energy industry.

To be the reference point for excellence in the field of thermoregulation and cooling management. To be the most innovative company, offering the best products.

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**FERRO
CHILLERS**



FERRO CHILLERS
Process Water Cooling

Air Cooled Chiller - Scroll

Technical Information			FRA - 10	FRA - 20	FRA - 40	FRA - 60	FRA - 80
Cooling Capacity *	kCal		11.370	21.380	32.325	41.510	64.650
	kW		13,22	24,86	37,59	48,27	75,18
Water Outlet Temp. Range	°C		-5/+30				
Refrigerant			R410A (R407C, R134A)				
Nominal Compressor Efficiency			3,72	3,81	3,86	3,9	3,86
Nominal Compressor Power	kW		3,55	6,53	9,74	12,37	2x9,74
Fan Power	kW		1 X 0,72	2 X 0,72	2 X 0,72	3 X 0,72	4 X 0,72
Fan Number/ Diameter	pcs/mm		1 X 500	2 X 500	2 X 500	3 X 500	4 X 500
Inner Pump	Flow	m³/h	-	-	-	-	12,9
	Pressure	Bar	-	-	-	-	1,2
	Power	kW	-	-	-	-	1,1
Outer Pump	Flow	m³/h	3	4	6,5	13	16,8
	Pressure	Bar	2,9	3,7	3,7	3	3,4
	Power	kW	0,9	1,5	1,5	1,8	2,2
Tank Volume	L		90	144	144	210	205
Operating Voltage (Standart)	V/Hz/Ph		400/50/3				
Nominal Total Power Consumption	kW		5,17	9,47	12,68	16,33	25,66
Connections	Inlet-Outlet		1" / 1"	1" / 1"	1-1/2" / 1-1/2"	1-1/2" / 1-1/2"	2" / 2"
Dimensions	mm		1.000x1.330x1.350	1.000x1.730x1.325	1.000x1850x1.750	1.100x2.330x1.450	1.505x2.585x2.300
Net Weight	Kg		264	370	555	852	914
Color	RAL		7012-7035				

*Water Inlet / Outlet Temperature: 20°C / 15°C It is a valid capacity at 35°C ambient temperature conditions. FERRO CHILLERS reserves the right to change design values without notice.





FERRO CHILLERS
Process Water Cooling

Air Cooled Chiller - Scroll

FRA - 110	FRA - 150	FRA - 200	FRA - 350	FRA - 500	FRA - 600	FRA - 800
83.020	223.875	343.243	444.790	514.860	667.180	667.180
96,54	260,32	399,12	517,2	598,68	775,8	798,24
-5/+30						
R410A (R407C, R134A)						
3,9	3,83	3,86	3,97	3,86	3,97	3,86
2x12,37	4x17	4x25,87	4x32,6	6x25,87	6x32,6	8x25,87
6 X 0,72	4 X 1,4	6 X 1,4	8 X 1,4	10x1,4	12x1,4	12x1,4
6 X 500	4 X 800	6 X 800	8 X 800	10X800	12X800	12X800
16,6	45	69	89	103	134	160
1,2	1,2	1,2	1,2	1,2	1,2	1,2
1,1	2,2	3,3	5,5	5,5	7,5	7,5
16,8	-	-	-	-	-	-
3,4	-	-	-	-	-	-
2,2	-	-	-	-	-	-
340	-	-	-	-	-	-
400/50/3						
32,36	80,32	112,38	147,1	174,72	219,9	231,26
2" / 2"	2-1/2" / 2-1/2"	3" / 3"	4" / 4"	5"/5"	6"/6"	8"/8"
1.505x2.780x2.300	2.300x2.450x2.450	2.300x4.200x2.450	2.300x5.320x2.450	2.300x6.750x2.450	2.300x7.750x2.450	2.300x7.750x2.450
1.155	1.460	3.050	4.300	5.450	6.000	6.300
7012-7035						

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FERRO CHILLERS
Process Water Cooling

Air Cooled Chiller - Screw

Technical Information		FRA - 260	FRA - 350	FRA - 400	FRA - 450
Cooling Capacity	kCal	248.072	366.360	416.240	476.440
	kW	288,4	426	484	554
Water Outlet Temp. Range	°C	-5/30			
Refrigerant		R407C (R134A)			
Compressor Efficiency		4,15	4,3	4,17	4,29
Nominal Compressor Power	kW	2 X 34,8	2 X 49,6	2 X 58	2 X 64,5
Fan Power	kW	6 X1,94	8 X1,94	12 X1,94	12 X1,94
Fan Number/ Diameter	pcs/mm	6 X800	8 X800	12 X800	12 X800
Inner Pump	Flow	m³/h	53,1	79,1	90
	Pressure	Bar	1,4	1,4	1,5
	Power	kW	2,2	4	5,5
Operating Voltage (Standart)	V/Hz/Ph	400 / 50 / 3			
Nominal Total Power Consumption	kW	83,44	118,72	144,78	157,78
Connections	Inlet-Outlet	3" / 3"	3" / 3"	4" / 4"	5" / 5"
Dimensions	mm	2.260x4.500x2.560	2.260x6.000x2.560	2.260x9.000x2.560	2.260x9.000x2.560
Net Weight	Kg	3.450	3.870	6.300	6.600
Color	RAL				

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FERRO CHILLERS
Process Water Cooling

Air Cooled Chiller - Screw

FRA - 500	FRA - 650	FRA - 750	FRA - 800	FRA - 900	FRA - 1000
552.120	775.720	930.520	1.035.440	1.231.520	1.406.960
642	902	1.082	1.204	1.432	1.636
-5/30					
R407C (R134A)					
4,29	4,34	4,64	4,69	4,71	4,75
2 X 74,8	2 X 122,7	2 X 137,4	2 X 151,9	2 X 177,4	2 X 202
12 X1,94	16 X1,94	16 X1,94	18 X1,94	20 X1,94	24 X1,94
12 X800	16 X800	16 X800	18 X800	20 X800	24 X800
119	155	180	207	240	270
1,58	1,48	1,39	1,2	1,48	1,28
7,5	11	11	11	15	15
400 / 50 / 3					
180,38	287,44	318,34	349,72	408,6	465,56
5" / 5"	6" / 6"	8" / 8"	8" / 8"	10" / 10"	10" / 10"
2.400x9.000x2.850	2.400x11.700x2.850	2.400x11.700x2.850	2.400x12.700x2.850	2.400x12.700x2.850	2.400x12.700x2.850
7.800	10.100	10.250	11.500	12.350	13.550
7012-7035					

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FERRO CHILLERS
Process Water Cooling

Temperature Controller

Technical Information			FRT	FRT-20DC	FRT-20PW	FRT-30PW	FRT-20W	FRT-50W
Heating Capacity	Oil	kW	-	-	-	-	-	-
	Water		10	20	20	30	20	50
Cooling			✓	✓	✓	✓	✓	✓
Heat Transfer Fluid	Oil		X	X	X	X	X	X
	Water		✓	✓	✓	✓	✓	✓
Pump	Max Flow	l/Min	60	60	60	90	120	210
	Max Pressure	Bar	4	4	4	8	3	3
	Power	kW	1	1	1	1,5	1,5	2,2
Operating Voltage		V/Hz/Ph	400 / 50 / 3					
Connections	Inlet-Outlet		1/2"-1/2"	1/2"-1/2"	1/2"-1/2"	3/4"-3/4"	1" / 1"	1-1/4"-1-1/4"
Operating Range	Oil	°C	-	-	-	-	-	-
	Water	°C	95	95	140	140	95	95
Total Power Consumption		kW	14	21	21	31,5	21,5	52,2
Dimensions		mm	250 X 600 X 540	250 X 600 X 540	450 X 1.050 X 1.100	600 X 1.200 X 1.250	600 X 1.000 X 900	800 X 1.250 X 1.220
Net Weight		Kg	45	50	180	190	157	220
Color		RAL	7012-7035					

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FERRO CHILLERS
Process Water Cooling

Temperature Controller

	FRT - 6.O	FRT - 220.O	FRT - 240.O	FRT - 260.O	FRT - 220X2.O	FRT - 240X2.O
3	6	20	40	60	20X2	40X2
-	-	-	-	-	-	-
✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓
X	X	X	X	X	X	X
60	60	90	90	200	90X2	90X2
4	4	8	8	8	8	8
1	1	2,2	2,2	4	2,2X2	2,2X2
400 / 50 / 3						
1/2"-1/2"	1/2"-1/2"	3/4"-3/4"	3/4"-3/4"	1-1/4"-1-1/4"	(3/4"-3/4")X2	(3/4"-3/4")X2
150	150	300	300	300	300	300
-	-	-	-	-	-	-
4	7	22,2	42,2	64	44,4	84,4
250 X 600 X 540	250 X 600 X 540	500 X 1.400 X 1.160	500 X 1.400 X 1.460	600 X 1.400 X 1.460	900X1.400X1.160	900X1.400X1.460
45	50	265	345	530	500	630
7012-7035						

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FERRO CHILLERS
Process Water Cooling

Dry Cooler

Technical Information		FRD-50	FRD-100	FRD-150	FRD-200	FRD-250	FRD-300	FRD-350
Cooling Capacity	kW	50	100	150	200	250	300	350
Water Outlet Temp. Range	°C	+5/+65						
Fan Power	kW	3 X 0,72	3 X 1,94	4 X 1,94	6 X 1,94	6 X 1,94	6 X 1,94	8 X 1,94
Fan Number/ Diameter	pcs/mm	3 X 800	3 X 800	4 X 800	6 X 800	6 X 800	6 X 800	8 X 800
Operating Voltage	V/Hz/Ph	400 / 50 / 3						
Nominal Total Power Consumption	KW	2,61	5,82	7,76	11,64	11,64	11,64	15,52
Connections	Inlet - Outlet	2" / 2"	2-1/2" - 2-1/2"	3" / 3"	3" / 3"	4" / 4"	4" / 4"	4" / 4"
Dimensions	mm	350 X 2.486 X 860	750 X 3.705 X 1.270	750 X 4.680 X 1.270	1.230 X 4.335 X 2.310	2.390 X 4.500 X 860	2.390 X 4.650 X 860	2.260 X 4.280 X 1.975
Color	RAL	7012-7035						

* Water Inlet / Outlet Temperature: 45°C / 40°C, Ambient Temperature: 32 °C It is a valid capacity at indicated design conditions.

Technical Information		FRD-400	FRD-450	FRD-500	FRD-600	FRD-700	FRD-800	FRD-900	FRD-1000
Cooling Capacity	kW	400	450	500	600	700	800	900	1.000
Water Outlet Temp. Range	°C	+5/+65							
Fan Power	KW	8 X 1,94	10 X 1,94	10 X 1,94	10 X 1,94	12 X 1,94	12 X 1,94	14 X 1,9	16 X 1,9
Fan Number/ Diameter	pcs/mm	8 X 800	10 X 800	10 X 800	10 X 800	12 X 800	12 X 800	14 X 800	16 X 800
Operating Voltage	V/Hz/Ph	400 / 50 / 3							
Nominal Total Power Consumption	kW	15,52	19,4	19,4	19,4	23,28	23,29	27,16	31,04
Connections	Inlet - Outlet	2" / 2"	2-1/2" - 2-1/2"	3" / 3"	3" / 3"	4" / 4"	4" / 4"	4" / 4"	5" / 5"
Dimensions	mm	2.260 X 4.500 X 1.980	2.260 X 5.570 X 2.000	2.260 X 6.075 X 2.160	2.260 X 6.585 X 2.280	2.260 X 7.090 X 2.280	2.260 X 8.480 X 2.280	2.260 X 9.280 X 2.460	2.260 X 10.080 X 2.460
Color	RAL	7012-7035							

*Water Inlet / Outlet Temperature: 45°C / 40°C, Ambient Temperature: 32°C It is a valid capacity at indicated design conditions.

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FERRO CHILLERS
Process Water Cooling

Enclosure Cooler Heat Exchanger

Technical Information		EC-1-HE	EC-2-HE	EC-3-HE	EC-5-HE	EC-7-HE2	EC-10-HE	EC-15-HE
Cooling Capacity	Watt	1.000	2.000	3.000	5.000	7.000	10.000	15.000
Water Outlet Temp. Range	°C	+5/+60						
Fan Flow	m³/h	560	560	850	1.500	1.900	2.800	4.250
Operating Voltage	V/Hz/Ph	400 / 50 / 3						
Connections	Inlet - Outlet	1/2"-1/2"	1/2"-1/2"	1/2"-1/2"	1" / 1"	1" / 1"	1" / 1"	1" / 1"
Dimensions	mm	710 X 400 X 200	850 X 400 X 140	850 X 400 X 190	1.350 X 445 X 165	1.350 X 445 X 165	1.350 X 600 X 200	1.350 X 660 X 250
Color	RAL	7012-7035						
Refrigerant		Water						

Enclosure Cooler Air Conditioner

Technical Information		EC-1-AC	EC-2-AC	EC-3-AC	EC-5-AC	EC-7-AC	EC-10-AC	EC-15-AC
Cooling Capacity	Watt	1.000	2.000	3.000	5.000	7.000	10.000	15.000
Air Outlet Temp. Range	°C	+15/+50						
Fan Flow	m³/h	560	560	850	1.500	1.900	2.800	4.250
Operating Voltage	V/Hz/Ph	400 / 50 / 3						
Connections	Inlet-Outlet	1/2"-1/2"	1/2"-1/2"	1/2"-1/2"	1" / 1"	1" / 1"	1" / 1"	1" / 1"
Dimensions	mm	750 X 350 X 210	950 X 400 X 235	950 X 400 X 255	1.050 X 450 X 285	1.200 X 480 X 380	1.200 X 660 X 380	1.350 X 660 X 400
Color	RAL	7012-7035						
Refrigerant		R134A						

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Blown Film Air Cooler

Model		BAC-15	BAC-20	BAC-30	BAC-45	BAC-60	BAC-80	BAC-100
Cooling Capacity	kW	18,86	21,7	38	55,7	74	80	90
Air Flow	m³/h	1.500	2.000	3.000	4.000	5.000	5.500	6.500
Refrigerant		Water						
Water Inlet / Outlet Temperature	°C	12 / 7						
Fluid Control		2 way, Electric Actuator, proportional control valve						
Cooling Battery		Aluminum Laminated Copper Tube						
Air Inlet / Outlet Temperature	°C	35 / 15						
Water Flow	m³/h	3,2	3,7	6,5	9,6	13,4	14,4	16,2
Air Filter		Replaceable F4 Cartridge Filter						
Drip Holder		PVC-Capped						
Temperature Control		Microprocessor Based Digital Thermostat						
Operating Voltage / Frequency / Phase	V/Hz/Ph	220 / 50 / 1						
Connections	Inlet-Outlet	1-1/4" / 1-1/4"						
Air Side Outlet Diameter	mm	220						
Color	RAL	7012-7035						

FERRO CHILLERS reserves the right to change specifications without notice.





FERRO CHILLERS
Process Water Cooling

Chemical Air Dryer

MODEL	CONNECTION DIAMETERS	CAPACITY LT/MIN	VOLTAGE	MAX. BAR	DIMENSIONS Width x Length x Height	WEIGHT kg
CHAD-12.AL	1"	1200	230 V / 1 PH / 50 HZ	16	394*388*774	30
CHAD-18.AL	1"	1800	230 V / 1 PH / 50 HZ	16	394*388*784	35
CHAD-22.AL	1"	2200	230 V / 1 PH / 50 HZ	16	394*388*1109	40
CHAD-26.AL	1"	2600	230 V / 1 PH / 50 HZ	16	394*388*1209	50
CHAD-31.AL	1"	3100	230 V / 1 PH / 50 HZ	16	394*388*1470	55
CHAD-37.AL	1"	3700	230 V / 1 PH / 50 HZ	16	394*388*1570	75
CHAD-45.AL	1-1/2"	4500	230 V / 1 PH / 50 HZ	16	394*588*1450	100
CHAD-55.AL	1-1/2"	5500	230 V / 1 PH / 50 HZ	16	394*588*1450	150
CHAD-65.AL	1-1/2"	6500	230 V / 1 PH / 50 HZ	16	394*588*1450	180

Note: Maximum ambient temperature: 45 °

* Maximum inlet temperature: 50 °

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FERRO CHILLERS
Process Water Cooling

Pressure Air Dryer

MODEL	CONNECTION DIAMETERS	CAPACITY LT/MIN	VOLTAGE	GAS	MAX. BAR	DIMENSIONS Width x Length x Height	WEIGHT kg
CAD-9	3/4"	900	230 V / 1 PH / 50 HZ	R134A	16	390*430*710	32
CAD-12	3/4"	1200	230 V / 1 PH / 50 HZ	R134A	16	390*430*710	33
CAD-18	3/4"	1800	230 V / 1 PH / 50 HZ	R134A	16	390*430*710	35
CAD-22	3/4"	2200	230 V / 1 PH / 50 HZ	R134A	16	390*430*710	40
CAD-26	3/4"	2600	230 V / 1 PH / 50 HZ	R134A	16	390*430*710	43
CAD-31	1"	3100	230 V / 1 PH / 50 HZ	R134A	16	410*460*820	47
CAD-37	1"	3700	230 V / 1 PH / 50 HZ	R134A	16	410*460*820	48
CAD-45	1"	4500	230 V / 1 PH / 50 HZ	R134A	16	410*460*820	50
CAD-55	1-1/2"	5500	230 V / 1 PH / 50 HZ	R134A	16	490*500*970	60
CAD-65	1-1/2"	6500	230 V / 1 PH / 50 HZ	R134A	16	490*500*970	62
CAD-85	1-1/2"	8500	230 V / 1 PH / 50 HZ	R134A	16	580*680*1120	88
CAD-110	2"	11,000	380 V / 3 PH / 50 HZ	R134A	16	660*680*1150	134
CAD-130	2"	13,000	380 V / 3 PH / 50 HZ	R134A	16	660*680*1150	164
CAD-170	2"	17,000	380 V / 3 PH / 50 HZ	R134A	16	660*680*1150	165
CAD-200	2"	20,000	380 V / 3 PH / 50 HZ	R134A	16	660*680*1150	190
CAD-250	2"	25,000	380 V / 3 PH / 50 HZ	R134A	16	850*900*1420	210
CAD-300	3"	30,000	380 V / 3 PH / 50 HZ	R134A	16	850*1050*1420	244
CAD-350	3"	35,000	380 V / 3 PH / 50 HZ	R134A	16	850*1050*1420	274
CAD-400	3"	40,000	380 V / 3 PH / 50 HZ	R134A	16	950*1700*1400	300
CAD-450	3"	45,000	380 V / 3 PH / 50 HZ	R134A	16	950*1700*1400	310
CAD-500	3"	50,000	380 V / 3 PH / 50 HZ	R134A	16	950*1700*1400	400
CAD-600	3"	60,000	380 V / 3 PH / 50 HZ	R134A	16	950*1700*1400	430
CAD-F700	DN100	70,000	400 V / 3 PH / 50 HZ	R407C	16	1600*1010*1980	480
CAD-F800	DN100	80,000	400 V / 3 PH / 50 HZ	R407C	16	1600*1010*1980	510
CAD-F900	DN150	90,000	400 V / 3 PH / 50 HZ	R407C	16	1600*1010*1980	705
CAD-F1050	DN150	105,000	400 V / 3 PH / 50 HZ	R407C	16	2200*1200*2090	755
CAD-F1200	DN150	120,000	400 V / 3 PH / 50 HZ	R407C	16	2200*1200*2090	810
CAD-F1400	DN200	140,000	400 V / 3 PH / 50 HZ	R407C	16	2400*1400*2300	920
CAD-F1600	DN200	160,000	400 V / 3 PH / 50 HZ	R407C	16	2400*1400*2300	970

Note: Maximum ambient temperature: 45 °

* Maximum inlet temperature: 50 °

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PLASTIC INDUSTRY



AUTOMOTIVE INDUSTRY



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CASTING PLANTS



METAL PROCESSING PLANTS



MEDICAL & PHARMACEUTICAL INDUSTRY



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CONCRETE BATCH PLANTS



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