

ACCL Minimum Requirement Catalog Template - Standard 550/590 (I-P) 1, 2, 3, 4, 5

General Information

Manufacturer's Name:	Chiltrix Inc
Model Designation:	C34
Refrigerant Designation:	R410A
Electrical Connection (V/Phase/Hz):	230V/1/60HZ
Catalog Name and Version:	ChiltrixCI V2.4 (20240224)
Date Catalog was Created:	24-Feb-24

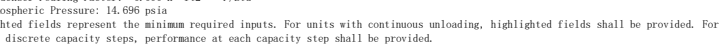
Published Performance	Evaporator Leaving Water Temperature, ° F	100% Load Performance Map										75% Load Performance Map					50% Load Performance Map					25%																
		Condenser Entering Air Dry Bulb, ° F and % Load																																				
		55.0	57.2	62.6	68	73.4	78.8	84.2	89.6	95.0	100.4	105.1	77.0	80.6	84.2	87.8	91.4	95.0	100.4	105.1	77.0	80.6	84.2	87.8	91.4	95.0	100.4	105.1	77.0	80.6	84.2	87.8	91.4	95.0	100.4	105.1		
Capacity, kBTU	28.92	28.52	27.53	26.54	25.54	24.55	23.56	22.56	21.57	20.58	19.72	16.92	16.18	15.43	11.28	10.79	10.29	5.390																				
Total Power, kW	1.524	1.570	1.684	1.798	1.912	2.026	2.141	2.255	2.369	2.483	2.582	1.145	1.148	1.216	0.4536	0.4781	0.5564	0.1866																				
Fan Power, W	48.10	52.90	79.40	88.30	110.0	115.9	120.0	121.0	125.0	125.3	127.0	117.0	119.0	120.0	75.00	81.00	87.00	49.00																				
Efficiency, EER or kBTU/kWh	18.98	18.17	16.35	14.76	13.36	12.12	11.00	10.00	9.110	8.290	7.640	14.78	14.10	12.69	24.87	22.57	21.50	28.88																				
Evaporator Water Pressure Drop, Ft H2O	8.71	8.71	8.71	8.71	8.71	8.71	8.71	8.71	8.71	8.71	8.71	8.71	8.71	8.71	8.71	8.71	8.71	8.71	8.71																			
Evaporator Entering Water Temperature, ° F	53.03	52.86	52.45	52.03	51.62	51.21	50.80	50.38	49.97	49.56	49.20	47.98	47.68	47.28	45.65	45.45	45.19	43.23																				
Evaporator Water Flow Rate, gpm	4.800	4.800	4.800	4.800	4.800	4.800	4.800	4.800	4.800	4.800	4.800	4.800	4.800	4.800	4.800	4.800	4.800	4.800	4.800																			

Published Performance	Evaporator Leaving Water Temperature, ° F	Condenser Entering Air Dry Bulb, ° F and % Load				
		95, 100%	80.6, 75%	66.2, 50%	55.4, 25%	
		26.12	19.59	13.06	6.530	0.1880
Capacity, kBTU	44.60	2.364	1.150	0.4722	0.1880	
Total Power, kW	11.05	17.03	27.66	34.73		
Efficiency, EER or kBTU/kWh	23.87	14.80	10.10	6.13	11.63	

Published Performance	Evaporator Leaving Water Temperature, ° F	Condenser Entering Air Dry Bulb, ° F and % Load				
		95, 100%	80.6, 75%	66.2, 50%	55.4, 25%	
		30.05	22.54	15.03	7.510	0.1633
Capacity, kBTU	55.40	12.24	6.12	3.06	1.53	
Total Power, kW	12.24	16.4	21.88	28.88	37.84	
Efficiency, EER or kBTU/kWh	30.88	19.81	13.45	8.57	11.63	

Proper claims to AHRI Certification and AHRI Mark

Certified in accordance with the AHRI Air-Cooled Water-Chilling Packages Certification Program, which is based on AHRI Standard 550/590 (I-P) and AHRI Standard 551/591 (SI). Certified units may be found in the AHRI Directory at www.ahridirectory.org



- Notes**
- The following apply to all ratings shown above:
 Evaporator Fouling Factor: 0.000100 hpf12° F/Btu
 Condenser Fouling Factor: 0.000 h • ft2 • ° F/Btu
 Atmospheric Pressure: 14.696 psia
 - Highlighted fields represent the minimum required inputs. For units with continuous unloading, highlighted fields shall be provided. For units with discrete capacity steps, performance at each capacity step shall be provided.
 - All interpolated data within a unit's published performance is subject to AHRI testing.
 - All Published ratings for this unit shall be included in the values shown above. Performance at different conditions (i.e. different air and water temperatures, water flow rates, atmospheric pressures, fouling factors, etc.) shall not be published.
 - All values shall have the correct significant figures as in Table 8 of AHRI 550/590.
 - Full-Load Evaporator Water Temperature Change: 10.00° F.
 - Evaporator flow rates are to be held constant at full-load values for all part-load conditions.

ACCL Minimum Requirement Catalog Template – Standard 551/591 (SI) 1,2,3,4,5

General Information

Manufacturer's Name:	Chiltrix Inc
Model Number:	CK50
Refrigerant Designation:	R32
Electrical Connection (V/Phase/Hz):	230V/1/60HZ
Catalog Name and Version:	ChiltrixCX V2.4 (20240224)
Date Catalog was Created:	24-Feb-24

Published Performance	Evaporator Leaving Water Temperature, ° C	100% Load Performance Map												75% Load Performance Map			50% Load Performance Map			25%
		Condenser Entering Air Dry Bulb, ° C															Condenser Entering Air Dry Bulb, ° C			
		12.8	14.0	17.0	20.0	23.0	26.0	29.0	32.0	35.0	38.0	40.6	25.0	27.0	29.0	17.0	19.0	21.0	13.0	
7.00	Refrigeration Capacity, kW	14.93	14.73	14.24	13.75	13.26	12.77	12.28	11.79	11.30	10.81	10.39	8.843	8.475	8.108	5.895	5.650	5.405	2.825	
	Total Power, kW	2.508	2.593	2.804	3.015	3.227	3.438	3.650	3.861	4.072	4.284	4.467	2.118	2.209	2.265	0.8982	0.9528	1.047	0.3554	
	Fan Power [optional], W	82.00	82.00	124.0	180.0	252.0	250.0	247.0	245.0	242.0	240.0	238.0	240.0	238.0	240.0	237.0	235.0	240.0	235.0	182.0
	Efficiency, Cooling COP, kW/kW	5.952	5.681	5.079	4.561	4.109	3.714	3.364	3.054	2.775	2.523	2.325	4.175	3.836	3.579	6.563	5.930	5.162	7.949	
	Evaporator Water Pressure Drop, kPa	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
9.00	Refrigeration Capacity, kW	11.59	11.50	11.29	11.07	10.85	10.64	10.42	10.21	9.99	9.77	9.58	8.90	8.74	8.58	7.60	7.49	7.39	6.25	
	Total Power, kW	0.5410	0.5410	0.5410	0.5410	0.5410	0.5410	0.5410	0.5410	0.5410	0.5410	0.5410	0.5410	0.5410	0.5410	0.5410	0.5410	0.5410	0.5410	
	Fan Power [optional], W	15.82	15.62	15.12	14.61	14.11	13.61	13.11	12.60	12.10	11.48	10.95	9.452	9.075	8.613	6.302	6.050	5.742	3.025	
	Efficiency, Cooling COP, kW/kW	2.499	2.581	2.787	2.992	3.198	3.403	3.609	3.814	4.020	4.263	4.473	2.015	2.060	2.153	0.8239	0.8660	0.9464	0.3066	
	Evaporator Water Pressure Drop, kPa	6.330	6.051	5.423	4.894	4.412	3.999	3.631	3.304	3.010	2.694	2.448	4.690	4.405	4.000	7.648	6.986	6.067	9.866	
11.00	Refrigeration Capacity, kW	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	
	Total Power, kW	13.51	13.43	13.22	13.02	12.81	12.60	12.40	12.19	11.98	11.73	11.51	10.89	10.74	10.55	9.59	9.49	9.36	8.25	
	Fan Power [optional], W	0.5800	0.5800	0.5800	0.5800	0.5800	0.5800	0.5800	0.5800	0.5800	0.5800	0.5800	0.5800	0.5800	0.5800	0.5800	0.5800	0.5800	0.5800	
	Efficiency, Cooling COP, kW/kW	16.33	16.15	15.73	15.30	14.87	14.36	13.86	13.35	12.84	12.22	11.68	10.01	9.633	9.164	6.675	6.422	6.109	3.211	
	Evaporator Water Pressure Drop, kPa	2.544	2.618	2.804	2.990	3.176	3.395	3.613	3.832	4.050	4.303	4.523	1.924	2.006	2.074	0.7645	0.8061	0.8762	0.2766	
13.00	Refrigeration Capacity, kW	6.417	6.170	5.608	5.116	4.681	4.230	3.835	3.484	3.171	2.839	2.581	5.204	4.802	4.419	8.731	7.967	6.972	11.61	
	Total Power, kW	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	
	Fan Power [optional], W	15.34	15.27	15.11	14.94	14.77	14.58	14.38	14.18	13.99	13.75	13.53	12.89	12.74	12.56	11.59	11.49	11.37	10.25	
	Efficiency, Cooling COP, kW/kW	0.6150	0.6150	0.6150	0.6150	0.6150	0.6150	0.6150	0.6150	0.6150	0.6150	0.6150	0.6150	0.6150	0.6150	0.6150	0.6150	0.6150	0.6150	
	Evaporator Water Pressure Drop, kPa	16.83	16.69	16.34	15.98	15.62	15.11	14.61	14.10	13.59	12.95	12.40	10.57	10.19	9.715	7.049	6.794	6.477	3.397	
15.00	Refrigeration Capacity, kW	2.589	2.654	2.822	2.984	3.153	3.385	3.617	3.848	4.080	4.344	4.572	1.850	1.929	2.008	0.7184	0.7566	0.8225	0.2529	
	Total Power, kW	82.00	82.00	124.0	180.0	252.0	250.0	247.0	245.0	242.0	240.0	238.0	240.0	238.0	240.0	237.0	235.0	240.0	235.0	182.0
	Fan Power [optional], W	6.502	6.290	5.790	5.355	4.955	4.465	4.038	3.663	3.330	2.982	2.713	5.715	5.282	4.837	9.812	8.980	7.874	13.43	
	Efficiency, Cooling COP, kW/kW	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4
	Evaporator Water Pressure Drop, kPa	17.18	17.12	16.99	16.86	16.73	16.55	16.36	16.17	15.99	15.75	15.55	14.88	14.74	14.56	13.59	13.49	13.38	12.25	
17.00	Refrigeration Capacity, kW	0.6510	0.6510	0.6510	0.6510	0.6510	0.6510	0.6510	0.6510	0.6510	0.6510	0.6510	0.6510	0.6510	0.6510	0.6510	0.6510	0.6510	0.6510	
	Total Power, kW	17.34	17.23	16.95	16.66	16.38	15.87	15.36	14.85	14.33	13.69	13.13	11.13	10.75	10.27	7.423	7.167	6.844	3.583	
	Fan Power [optional], W	2.634	2.690	2.840	2.980	3.131	3.376	3.621	3.866	4.111	4.385	4.622	1.786	1.863	1.952	0.6810	0.7091	0.7787	0.2347	
	Efficiency, Cooling COP, kW/kW	6.584	6.405	5.968	5.591	5.232	4.700	4.241	3.840	3.486	3.121	2.840	6.233	5.769	5.259	10.90	10.11	8.788	15.27	
	Evaporator Water Pressure Drop, kPa	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6
19.00	Refrigeration Capacity, kW	18.38	18.21	17.80	17.38	16.97	16.55	16.13	15.72	15.30	14.58	13.95	11.79	11.48	10.93	7.858	7.650	7.289	3.8225	
	Total Power, kW	2.535	2.610	2.780	2.960	3.138	3.391	3.644	3.897	4.150	4.407	4.630	1.709	1.795	1.884	0.6385	0.6753	0.7317	0.2171	
	Fan Power [optional], W	82.00	82.00	124.0	180.0	252.0	250.0	247.0	245.0	242.0	240.0	238.0	240.0	238.0	240.0	237.0	235.0	240.0	235.0	182.0
	Efficiency, Cooling COP, kW/kW	7.250	6.977	6.403	5.872	5.406	4.880	4.427	4.033	3.687	3.308	3.013	6.899	6.392	5.804	12.31	11.33	9.961	17.62	
	Evaporator Water Pressure Drop, kPa	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2

IPLV, SI Calculation

Published Performance	Evaporator Leaving Water Temperature, ° C	Condenser Entering Air Dry Bulb, ° C and % Load			
		35.0, 100%	27.0, 75%	19.0, 50%	13.0, 25%
7.00	Refrigeration Capacity, kW	12.10	9.075	6.050	3.025
	Total Power, kW	4.020	2.060	0.8660	0.3066
	Efficiency, Cooling COP (kW/kW)	3.010	4.405	6.986	9.867
	IPLV, SI	6.208 [kW/kW]			
13.00	Capacity, kW	14.33	10.75	7.165	3.583
	Total Power, kW	4.111	1.863	0.7090	0.2347
	Efficiency, COP (W/W)	3.486	5.769	10.11	15.27
	NPLV, SI	8.837 [kW/kW]			

Certified in accordance with the AHRI Air-Cooled Water-Chilling Packages Certification Program, which is based on AHRI Standard 550/590 (I-P) and AHRI Standard 551/591 (SI). Certified units may be found in the AHRI Directory at www.ahridirectory.org

AHRI Mark



Notes

- The following apply to all ratings shown above:
 Evaporator Fouling Factor: 0.0180 m² · K/kW
 Condenser Fouling Factor: 0.000 m² · K/kW
 Atmospheric Pressure: 101.33 kPa
- Highlighted fields represent the minimum required inputs. For units with continuous unloading, highlighted fields shall be provided. For units with discrete capacity steps, performance at each capacity step shall be provided.
- All interpolated data within a unit published performance is subject to AHRI testing.
- All Published ratings for this unit shall be included in the values shown above. Performance at different conditions (i.e. different air and water temperatures, water flow rates, atmospheric pressures, fouling factors, etc.) shall not be published.
- All values shall have the correct significant figures as in Table 8 of AHRI 551/591.
- Full-Load Evaporator Water Temperature Change: 5.00° C
- Evaporator flow rates are to be held constant at full-load values for all part-load conditions.

ACCL Minimum Requirement Catalog Template – Standard 551/591 (SI)^{1,2,3,4,5}

General Information	
Manufacturer's Name:	Chiltrip Inc
Model Number:	CK35
Refrigerant Designation:	R32
Electrical Connection (V/Phase/Hz):	230V/1/60HZ
Catalog Name and Version:	Chiltrip V2.4 (20240224)
Date Catalog was Created:	24-Feb-24

Published Performance	Evaporator Leaving Water Temperature, °C	100% Load Performance Map															75% Load Performance Map					50% Load Performance Map					25% Load Performance Map																																																				
		Condenser Entering Air Dry Bulb, °C															Condenser Entering Air Dry Bulb, °C					Condenser Entering Air Dry Bulb, °C					Condenser Entering Air Dry Bulb, °C																																																				
		12.8	14.0	17.0	20.0	23.0	25.0	29.0	32.0	35.0	38.0	40.6	25.0	27.0	29.0	17.0	19.0	21.0	13.0	12.8	14.0	17.0	20.0	23.0	25.0	29.0	32.0	35.0	38.0	40.6																																																	
5.00	Refrigeration Capacity, kW	9.146	9.007	8.660	8.313	7.966	7.619	7.271	6.924	6.625	6.230	5.929	5.193	4.969	4.673	3.462	3.313	3.115	1.656	7.00	Refrigeration Capacity, kW	9.807	9.665	9.310	8.956	8.601	8.212	7.823	7.434	7.045	6.759	6.511	5.576	5.284	5.069	3.717	3.523	3.380	1.761	9.00	Refrigeration Capacity, kW	10.56	10.41	10.04	9.662	9.288	8.898	8.508	8.118	7.728	7.425	7.113	6.089	5.796	5.569	4.059	3.864	3.713	1.932	11.00	Refrigeration Capacity, kW	11.31	11.16	10.76	10.37	9.976	9.585	9.193	8.802	8.410	8.038	7.715	6.602	6.308	6.029	4.401	4.205	4.019	2.103
	Total Power, kW	1.468	1.523	1.659	1.795	1.932	2.068	2.205	2.341	2.431	2.614	2.732	1.260	1.261	1.279	0.4384	0.4813	0.4997	0.1734		Total Power, kW	1.459	1.513	1.646	1.780	1.914	2.022	2.130	2.237	2.345	2.572	2.769	1.213	1.171	1.264	0.4218	0.4637	0.4813	0.1733		Total Power, kW	1.454	1.510	1.649	1.789	1.928	2.051	2.173	2.296	2.418	2.682	2.823	1.196	1.218	1.276	0.4161	0.4416	0.4718	0.1635		Total Power, kW	1.444	1.500	1.650	1.810	1.966	2.108	2.261	2.413	2.619	2.762	2.932	1.158	1.185	1.284	0.4050	0.4163	0.4474	0.1383
	Fan Power [optional], W	51.00	57.00	88.00	97.00	114.0	117.0	120.0	121.0	125.0	125.3	127.0	117.0	119.0	120.0	73.00	79.00	84.00	43.00		Fan Power [optional], W	51.00	57.00	88.00	97.00	114.0	117.0	120.0	121.0	125.0	125.3	127.0	117.0	119.0	120.0	73.00	79.00	84.00	43.00		Fan Power [optional], W	51.00	57.00	88.00	97.00	114.0	117.0	120.0	121.0	125.0	125.3	127.0	117.0	119.0	120.0	73.00	79.00	84.00	43.00		Fan Power [optional], W	51.00	57.00	88.00	97.00	114.0	117.0	120.0	121.0	125.0	125.3	127.0	117.0	119.0	120.0	73.00	79.00	84.00	43.00
	Efficiency, Cooling COP, kW/kW	6.230	5.914	5.220	4.631	4.123	3.684	3.298	2.958	2.725	2.383	2.170	4.120	3.940	3.652	7.897	6.882	6.234	9.549		Efficiency, Cooling COP, kW/kW	6.722	6.388	5.656	5.031	4.494	4.061	3.673	3.323	3.004	2.628	2.351	4.595	4.512	4.009	8.813	7.597	7.022	10.16		Efficiency, Cooling COP, kW/kW	7.262	6.893	6.086	5.401	4.748	4.338	3.915	3.536	3.196	2.768	2.520	5.090	4.758	4.363	9.755	8.750	7.869	11.82		Efficiency, Cooling COP, kW/kW	8.354	7.933	6.964	6.116	5.451	4.872	4.369	3.921	3.442	3.142	2.837	6.146	5.705	5.069	11.71	10.83	9.697	16.30
	Evaporator Water Pressure Drop, kPa	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2		Evaporator Water Pressure Drop, kPa	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7		Evaporator Water Pressure Drop, kPa	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7		Evaporator Water Pressure Drop, kPa	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8
	Evaporator Entering Water Temperature, °C	11.83	11.72	11.46	11.20	10.95	10.62	10.43	10.17	9.94	9.65	9.43	8.88	8.71	8.49	7.58	7.47	7.33	6.24		Evaporator Entering Water Temperature, °C	14.09	13.98	13.73	13.47	13.21	12.93	12.65	12.37	12.09	11.88	11.70	11.03	10.82	10.66	9.69	9.55	9.44	8.27		Evaporator Entering Water Temperature, °C	15.82	15.72	15.48	15.24	15.00	14.74	14.49	14.24	13.99	13.79	13.59	12.93	12.74	12.59	11.62	11.49	11.40	10.25		Evaporator Entering Water Temperature, °C	17.0	17.0	17.38	17.14	16.91	16.68	16.45	16.22	15.98	15.76	15.57	14.91	14.74	14.57	13.61	13.49	13.38	12.25
Evaporator Water Flow Rate, L/s	0.3200	0.3200	0.3200	0.3200	0.3200	0.3200	0.3200	0.3200	0.3200	0.3200	0.3200	0.3200	0.3200	0.3200	0.3200	0.3200	0.3200	0.3200	Evaporator Water Flow Rate, L/s	0.3306	0.3306	0.3306	0.3306	0.3306	0.3306	0.3306	0.3306	0.3306	0.3306	0.3306	0.3306	0.3306	0.3306	0.3306	0.3306	0.3306	0.3306	Evaporator Water Flow Rate, L/s	0.3700	0.3700	0.3700	0.3700	0.3700	0.3700	0.3700	0.3700	0.3700	0.3700	0.3700	0.3700	0.3700	0.3700	0.3700	0.3700	0.3700	0.3700	Evaporator Water Flow Rate, L/s	0.4030	0.4030	0.4030	0.4030	0.4030	0.4030	0.4030	0.4030	0.4030	0.4030	0.4030	0.4030	0.4030	0.4030	0.4030	0.4030	0.4030	0.4030				

IPLV SI Calculation					
Published Performance	Evaporator Leaving Water Temperature, °C	Condenser Entering Air Dry Bulb, °C and % Load			
		35.0, 100%	27.0, 75%	19.0, 50%	13.0, 25%
7.00	Refrigeration Capacity, kW	7.045	5.284	3.523	1.761
	Total Power, kW	2.345	1.171	0.4636	0.1733
	Efficiency, Cooling COP (kW/kW)	3.004	4.512	7.597	10.16
IPLV SI		6.564[kW/kW]			

Published Performance	Evaporator Leaving Water Temperature, °C	Condenser Entering Air Dry Bulb, °C and % Load			
		35.0, 100%	27.75%	19.50%	13.25%
13.00	Capacity, kW	9.014	6.761	4.507	2.254
	Total Power, kW	2.619	1.185	0.4163	0.1383
	Efficiency, COP (W/W)	3.442	5.705	10.83	16.30
NPLV SI		9.258[kW/kW]			

Proper claims to AHRI Certification

Certified in accordance with the AHRI Air-Cooled Water-Chilling Packages Certification Program, which is based on AHRI Standard 550/590 (I-P) and AHRI Standard 551/591 (SI). Certified units may be found in the AHRI Directory at www.ahridirectory.org



- Notes**
- The following apply to all ratings shown above:
Evaporator Fouling Factor: 0.0180 m²·K/kW
Condenser Fouling Factor: 0.000 m²·K/kW
Atmospheric Pressure: 101.33 kPa
 - Highlighted fields represent the minimum required inputs. For units with continuous unloading, highlighted fields shall be provided. For units with discrete capacity steps, performance at each capacity step shall be provided.
 - All interpolated data within a unit's published performance is subject to AHRI testing.
 - All Published ratings for this unit shall be included in the values shown above. Performance at different conditions (i.e. different air and water temperatures, water flow rates, atmospheric pressures, fouling factors, etc.) shall not be published.
 - All values shall have the correct significant figures as in Table 8 of AHRI 551/591.
 - Full-Load Evaporator Water Temperature Change: 5.00° C.
 - Evaporator flow rates are to be held constant at full-load values for all part-load conditions.

