



Air comfort for all

ireo+ ULTRA



Indoor Unit

MODELS:

VIRU30HP230V1AH
VIRU36HP230V1AH

Outdoor Unit

MODELS:

VIRU30HP230V1AO
VIRU36HP230V1AO

Thank you for choosing our product.
Please go through this Extended Ratings to design
your project and retain it for future reference.

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EXTENDED RATINGS

VIRU30HP230V1AH / VIRU30HP230V1AO

COOLING PERFORMANCE

Outdoor Ambient Temperature (DB)	Return Air Temperature																	
	70°F (DB) / 59°F (WB)			75°F (DB) / 63°F (WB)			80°F (DB) / 67°F (WB)			90°F (DB) / 73°F (WB)								
	TC (Btu/h)	SC (Btu/h)	SHR	Power Input (W)	EER	EER (Btu/(h·W))	TC (Btu/h)	SC (Btu/h)	SHR	Power Input (W)	EER (Btu/(h·W))	TC (Btu/h)	SC (Btu/h)	SHR	Power Input (W)	EER (Btu/(h·W))		
-20°F	10360	7356	71%	1382	2.20	2.31	11480	8151	71%	1455	12040	8548	71%	1532	13720	9741	71%	1689
-15°F	12040	8669	72%	1430	2.47	2.56	13160	9475	72%	1505	13720	9878	72%	1585	15400	11088	72%	1747
-10°F	13440	9677	72%	1478	2.67	2.74	14560	10483	72%	1556	15120	10886	72%	1637	16800	12096	72%	1805
-5°F	15120	10962	73%	1549	2.86	2.92	16240	11774	73%	1631	16800	12180	73%	1717	18480	13398	73%	1893
0°F	16520	11977	73%	1621	2.99	3.03	17640	12789	73%	1706	18200	13195	73%	1796	19880	14413	73%	1980
5°F	17920	13082	73%	1692	3.10	3.13	19040	13899	73%	1781	19600	14308	73%	1875	21280	15534	73%	2067
10°F	18200	13377	74%	1740	3.07	3.09	19320	14200	74%	1832	19880	14612	74%	1928	21560	15847	74%	2126
15°F	18480	13583	74%	1764	3.07	3.09	19600	14406	74%	1857	20160	14818	74%	1954	21840	16052	74%	2155
20°F	19040	14090	74%	1788	3.12	3.14	20160	14918	74%	1882	20720	15333	74%	1981	22400	16576	74%	2184
25°F	19320	14297	74%	1835	3.09	3.10	20440	15126	74%	1932	21000	15540	74%	2034	22680	16783	74%	2242
30°F	19880	14811	75%	1907	3.06	3.07	21000	15645	75%	2007	21560	16062	75%	2113	23240	17314	75%	2329
35°F	20720	15540	75%	1954	3.11	3.11	21840	16380	75%	2057	22400	16800	75%	2166	24080	18060	75%	2388
40°F	21280	15960	75%	1978	3.15	3.15	22400	16800	75%	2082	22960	17220	75%	2192	24640	18480	75%	2417
45°F	21560	16278	76%	2026	3.12	3.12	22680	17123	76%	2133	23240	17546	76%	2245	24920	18815	76%	2475
50°F	22120	16701	76%	2050	3.16	3.16	23240	17546	76%	2158	23800	17969	76%	2271	25480	19237	76%	2504
55°F	23520	17875	76%	2121	3.25	3.23	24640	18726	76%	2233	25200	19152	76%	2350	26880	20429	76%	2591
60°F	24080	18421	77%	2169	3.25	3.23	25200	19278	77%	2283	25760	19706	77%	2403	27440	20992	77%	2650
65°F	24920	19064	77%	2193	3.33	3.31	26040	19921	77%	2308	26600	20349	77%	2430	28280	21634	77%	2679
70°F	26040	20051	77%	2217	3.44	3.41	27160	20913	77%	2333	27720	21344	77%	2456	29400	22638	77%	2708
75°F	27160	20913	77%	2264	3.52	3.48	28280	21776	77%	2384	28840	22207	77%	2509	30520	23500	77%	2766
80°F	27720	21483	78%	2312	3.51	3.47	28840	22351	78%	2434	29400	22785	78%	2562	31080	24087	78%	2824
85°F	28000	21700	78%	2336	3.51	3.47	29120	22568	78%	2459	29680	23002	78%	2588	31360	24304	78%	2853
90°F	27160	21185	78%	2360	3.37	3.34	28280	22058	78%	2484	28840	22495	78%	2615	30520	23806	78%	2883
95°F	26320	20530	78%	2384	3.24	3.21	27440	21403	78%	2509	28000	21840	78%	2641	29680	23150	78%	2912
100°F	25760	20222	79%	2455	3.08	3.05	26880	21101	79%	2584	27440	21540	79%	2720	29120	22859	79%	2999
105°F	24920	19562	79%	2503	2.92	2.90	26040	20441	79%	2634	26600	20881	79%	2773	28280	22200	79%	3057
110°F	24360	19244	79%	2574	2.77	2.76	25480	20129	79%	2710	26040	20572	79%	2852	27720	21899	79%	3145
115°F	24080	19023	79%	2622	2.69	2.68	25200	19908	79%	2760	25760	20350	79%	2905	27440	21678	79%	3203
120°F	22960	18253	80%	2670	2.52	2.51	24080	19144	80%	2810	24640	19589	80%	2958	26320	20924	80%	3261
122°F	22120	17585	80%	2741	2.37	2.36	23240	18476	80%	2885	23800	18921	80%	3037	25480	20257	80%	3348
125°F	21560	17140	80%	2789	2.27	2.26	22680	18031	80%	2935	23240	18476	80%	3090	24920	19811	80%	3407
129°F	20720	16576	80%	2860	2.12	2.13	21840	17472	80%	3011	22400	17920	80%	3169	24080	19264	80%	3494

MAX OUTPUT*

*Maximum Output values are not based on AHRI test conditions

- LEGEND:** W - Watts
 DB - Dry Bulb
 TC - Total Capacity
 SC - Total Capacity
 SHR - Sensible Heat Ratio
 COP - Coefficient of Performance

HEATING PERFORMANCE

Outdoor Ambient Temperature		Return Air Temperature								
		70°F (DB)			75°F (DB)			80°F (DB)		
		TC (Btu/h)	COP(W/W)	Power Input (W)	TC (Btu/h)	COP(W/W)	Power Input (W)	TC (Btu/h)	COP(W/W)	Power Input (W)
DB	WB									
-22°F	-22.5°F	15840	2.19	2119	16416	2.23	2161	17568	2.29	2248
-20°F	-20.5°F	16416	2.26	2133	16992	2.29	2176	18144	2.35	2264
-15°F	-16°F	16704	2.26	2162	17280	2.30	2205	18432	2.35	2294
-10°F	-11°F	17856	2.39	2187	18432	2.42	2231	19584	2.47	2321
-5°F	-6°F	18720	2.49	2206	19296	2.51	2250	20448	2.56	2341
0°F	-1°F	19584	2.55	2251	20160	2.57	2296	21312	2.61	2389
5°F	3°F	20448	2.61	2297	21024	2.63	2343	22176	2.67	2438
10°F	8°F	21600	2.70	2344	22176	2.72	2391	23328	2.75	2487
15°F	13°F	21888	2.70	2376	22464	2.72	2424	23616	2.75	2521
17°F	15°F	22464	2.75	2392	23040	2.77	2440	24192	2.79	2538
20°F	17°F	23616	2.84	2441	24192	2.85	2489	25344	2.87	2590
25°F	22°F	24480	2.88	2490	25056	2.89	2540	26208	2.91	2643
30°F	27°F	25344	2.92	2541	25920	2.93	2592	27072	2.94	2697
35°F	33°F	26496	3.13	2484	27072	3.13	2534	28224	3.14	2636
40°F	36°F	27360	3.09	2593	27936	3.10	2645	29088	3.10	2752
45°F	41°F	28224	3.13	2646	28800	3.13	2699	29952	3.13	2808
47°F	43°F	28800	3.13	2700	29376	3.13	2754	30528	3.12	2865
50°F	46°F	29088	3.13	2727	29664	3.13	2782	30816	3.12	2894
55°F	50°F	29376	3.16	2727	29952	3.16	2782	31104	3.15	2894
60°F	55°F	29664	3.16	2754	30240	3.16	2809	31392	3.15	2923
65°F	60°F	28512	3.16	2646	29088	3.16	2699	30240	3.16	2808
70°F	64°F	26784	3.00	2619	27360	3.00	2671	28512	3.01	2779
75°F	69°F	25344	2.93	2538	25920	2.93	2589	27072	2.95	2693
80°F	74°F	24480	2.89	2484	25056	2.90	2534	26208	2.91	2636
86°F	80°F	23904	2.88	2430	24480	2.89	2479	25632	2.91	2579

MAX OUTPUT*

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LEGEND: W - Watts

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EXTENDED RATINGS

VIRU36HP230V1AH / VIRU36HP230V1AO

COOLING PERFORMANCE

Return Air Temperature

Outdoor Ambient Temperature (DB)	70°F (DB) / 59°F (WB)				75°F (DB) / 63°F (WB)				80°F (DB) / 67°F (WB)				90°F (DB) / 73°F (WB)							
	TC (Btu/h)	SC (Btu/h)	SHR	EER	Power Input (W)	TC (Btu/h)	SC (Btu/h)	SHR	EER(Btu/(h·W))	Power Input (W)	TC (Btu/h)	SC (Btu/h)	SHR	EER(Btu/(h·W))	Power Input (W)	TC (Btu/h)	SC (Btu/h)	SHR	EER(Btu/(h·W))	Power Input (W)
-20°F	12210	8669	71%	2.12	1686	13530	9606	71%	2.24	1774	14190	10075	71%	2.23	1868	16170	11481	71%	2.30	2059
-15°F	14190	10217	72%	2.39	1744	15510	11167	72%	2.48	1835	16170	11642	72%	2.45	1932	18150	13068	72%	2.50	2130
-10°F	15840	11405	72%	2.58	1802	17160	12355	72%	2.65	1897	17820	12830	72%	2.62	1996	19800	14256	72%	2.64	2201
-5°F	17820	12920	73%	2.76	1889	19140	13877	73%	2.82	1988	19800	14355	73%	2.77	2093	21780	15791	73%	2.77	2308
0°F	19470	14116	73%	2.89	1976	20790	15073	73%	2.93	2080	21450	15551	73%	2.87	2190	23430	16987	73%	2.84	2414
5°F	21120	15418	73%	3.00	2063	22440	16381	73%	3.03	2172	23100	16863	73%	2.96	2286	25080	18308	73%	2.92	2521
10°F	21450	15766	74%	2.96	2121	22770	16736	74%	2.99	2233	23430	17221	74%	2.92	2351	25410	18676	74%	2.87	2592
15°F	21780	16008	74%	2.97	2150	23100	16979	74%	2.99	2264	23760	17464	74%	2.92	2383	25740	18919	74%	2.87	2627
20°F	22440	16606	74%	3.02	2180	23760	17582	74%	3.04	2294	24420	18071	74%	2.96	2415	26400	19536	74%	2.91	2663
25°F	22770	16850	74%	2.98	2238	24090	17827	74%	3.00	2355	24750	18315	74%	2.93	2479	26730	19780	74%	2.87	2734
30°F	23430	17455	75%	2.95	2325	24750	18439	75%	2.96	2447	25410	18930	75%	2.89	2576	27390	20406	75%	2.83	2840
35°F	24420	18315	75%	3.00	2383	25740	19305	75%	3.01	2508	26400	19800	75%	2.93	2640	28380	21285	75%	2.86	2911
40°F	25080	18810	75%	3.05	2412	26400	19800	75%	3.05	2539	27060	20295	75%	2.97	2673	29040	21780	75%	2.89	2947
45°F	25410	19185	76%	3.01	2470	26730	20181	76%	3.01	2600	27390	20679	76%	2.93	2737	29370	22174	76%	2.85	3018
50°F	26070	19683	76%	3.06	2499	27390	20679	76%	3.05	2631	28050	21178	76%	2.97	2769	30030	22673	76%	2.88	3053
55°F	27720	21067	76%	3.14	2586	29040	22070	76%	3.13	2723	29700	22572	76%	3.04	2866	31680	24077	76%	2.94	3160
60°F	28380	21711	77%	3.15	2645	29700	22721	77%	3.13	2784	30360	23225	77%	3.04	2930	32340	24740	77%	2.93	3231
65°F	29370	22468	77%	3.22	2674	30690	23478	77%	3.20	2814	31350	23983	77%	3.10	2962	33330	25497	77%	2.99	3266
70°F	30690	23631	77%	3.33	2703	32010	24648	77%	3.30	2845	32670	25156	77%	3.20	2995	34650	26681	77%	3.08	3302
75°F	32010	24648	77%	3.40	2761	33330	25664	77%	3.36	2906	33990	26172	77%	3.26	3059	35970	27697	77%	3.13	3373
80°F	32670	25319	78%	3.40	2819	33990	26342	78%	3.36	2967	34650	26854	78%	3.25	3123	36630	28388	78%	3.12	3444
85°F	33000	25575	78%	3.40	2848	34320	26598	78%	3.36	2998	34980	27110	78%	3.25	3156	36960	28644	78%	3.11	3479
90°F	32010	24968	78%	3.26	2877	33330	25997	78%	3.23	3028	33990	26512	78%	3.13	3188	35970	28057	78%	3.00	3515
95°F	31020	24196	78%	3.13	2906	32340	25225	78%	3.10	3059	33000	25740	78%	3.00	3220	34980	27284	78%	2.89	3550
100°F	30360	23833	79%	2.97	2993	31680	24869	79%	2.95	3151	32340	25387	79%	2.86	3317	34320	26941	79%	2.75	3657
105°F	29370	23055	79%	2.82	3051	30690	24092	79%	2.80	3212	31350	24610	79%	2.72	3381	33330	26164	79%	2.62	3728
110°F	28710	22681	79%	2.68	3139	30030	23724	79%	2.66	3304	30690	24245	79%	2.59	3478	32670	25809	79%	2.50	3834
115°F	28380	22420	79%	2.60	3197	29700	23463	79%	2.59	3365	30360	23984	79%	2.51	3542	32340	25549	79%	2.43	3905
120°F	27060	21513	80%	2.44	3255	28380	22562	80%	2.43	3426	29040	23087	80%	2.36	3606	31020	24661	80%	2.29	3976
122°F	26070	20726	80%	2.29	3342	27390	21775	80%	2.28	3518	28050	22300	80%	2.22	3703	30030	23874	80%	2.16	4083
125°F	25410	20201	80%	2.19	3400	26730	21250	80%	2.19	3579	27390	21775	80%	2.13	3767	29370	23349	80%	2.07	4154
129°F	24420	19536	80%	2.05	3487	25740	20592	80%	2.06	3671	26400	21120	80%	2.00	3864	28380	22704	80%	1.95	4260

MAX OUTPUT*

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HEATING PERFORMANCE

Outdoor Ambient Temperature			Return Air Temperature								
			70°F (DB)			75°F (DB)			80°F (DB)		
			TC (Btu/h)	COP(W/W)	Power Input (W)	TC (Btu/h)	COP(W/W)	Power Input (W)	TC (Btu/h)	COP(W/W)	Power Input (W)
MAX OUTPUT*	DB	WB									
	-22°F		19030	2.22	2511	19722	2.26	2561	21106	2.32	2665
	-20°F		19722	2.29	2528	20414	2.32	2579	21798	2.38	2683
	-15°F		20068	2.30	2562	20760	2.33	2614	22144	2.39	2719
	-10°F		21452	2.43	2592	22144	2.45	2644	23528	2.51	2751
	-5°F		22490	2.52	2615	23182	2.55	2667	24566	2.59	2775
	0°F		23528	2.58	2668	24220	2.61	2721	25604	2.65	2831
	5°F		24566	2.64	2722	25258	2.67	2777	26642	2.70	2889
	10°F		25950	2.74	2778	26642	2.76	2834	28026	2.79	2948
	15°F		26296	2.74	2816	26988	2.75	2872	28372	2.78	2988
	17°F		26988	2.79	2835	27680	2.81	2891	29064	2.83	3008
	20°F		28372	2.87	2893	29064	2.89	2950	30448	2.91	3070
	25°F		29410	2.92	2952	30102	2.93	3011	31486	2.95	3132
	30°F		30448	2.96	3012	31140	2.97	3072	32524	2.98	3196
	35°F		31832	3.17	2944	32524	3.17	3003	33908	3.18	3124
	40°F		32870	3.13	3073	33562	3.14	3135	34946	3.14	3261
	45°F		33908	3.17	3136	34600	3.17	3199	35984	3.17	3328
	47°F		34600	3.17	3200	35292	3.17	3264	36676	3.17	3396
	50°F		34946	3.17	3232	35638	3.17	3297	37022	3.16	3430
	55°F		35292	3.20	3232	35984	3.20	3297	37368	3.19	3430
60°F		35638	3.20	3264	36330	3.20	3329	37714	3.19	3464	
65°F		34254	3.20	3136	34946	3.20	3199	36330	3.20	3328	
70°F		32178	3.04	3104	32870	3.04	3166	34254	3.05	3294	
75°F		30448	2.97	3008	31140	2.97	3068	32524	2.99	3192	
80°F		29410	2.93	2944	30102	2.94	3003	31486	2.95	3124	
86°F		28718	2.92	2880	29410	2.93	2938	30794	2.95	3056	

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