

Water - cooled condensing unit

WCUX040DZV (B)

60 Hz Performance Data - English Units - Refrigerant R-410A

Suction		37	38	39	40	41	42	43	44	45	46	47
Temperature °F												
Entering Water												
Temperature °F												
65	Tons	47.6	48.5	49.5	50.4	51.4	52.3	53.3	54.3	55.3	56.3	57.4
	Btuh	571,539	582,509	593,639	604,931	616,388	628,009	639,797	651,753	663,879	676,176	688,646
	W	24,177	24,136	24,093	24,050	24,005	23,958	23,911	23,862	23,811	23,759	23,705
	EER	23.6	24.1	24.6	25.2	25.7	26.2	26.8	27.3	27.9	28.5	29.1
	THR - Btuh	654,102	664,931	675,917	687,061	698,363	709,826	721,452	733,240	745,193	757,313	769,600
70	Tons	46.4	47.3	48.3	49.2	50.1	51.1	52.0	53.0	54.0	55.0	56.0
	Btuh	557,358	568,113	579,026	590,098	601,330	612,725	624,284	636,007	647,898	659,957	672,186
	W	25,958	25,921	25,883	25,843	25,802	25,761	25,718	25,674	25,628	25,581	25,533
	EER	21.5	21.9	22.4	22.8	23.3	23.8	24.3	24.8	25.3	25.8	26.3
	THR - Btuh	646,005	656,633	667,414	678,351	689,445	700,698	712,110	723,682	735,418	747,317	759,381
75	Tons	45.2	46.1	47.0	47.9	48.8	49.7	50.7	51.6	52.6	53.6	54.6
	Btuh	542,533	553,060	563,742	574,580	585,576	596,731	608,047	619,525	631,167	642,975	654,950
	W	27,833	27,799	27,763	27,727	27,690	27,652	27,613	27,573	27,532	27,489	27,446
	EER	19.5	19.9	20.3	20.7	21.1	21.6	22.0	22.5	22.9	23.4	23.9
	THR - Btuh	637,582	647,992	658,553	669,268	680,137	691,162	702,345	713,686	725,187	736,850	748,676
80	Tons	43.9	44.8	45.6	46.5	47.4	48.3	49.3	50.2	51.1	52.1	53.1
	Btuh	527,069	537,355	547,793	558,384	569,129	580,031	591,091	602,311	613,691	625,234	636,941
	W	29,817	29,785	29,752	29,719	29,684	29,649	29,613	29,576	29,538	29,500	29,460
	EER	17.7	18.0	18.4	18.8	19.2	19.6	20.0	20.4	20.8	21.2	21.6
	THR - Btuh	628,896	639,071	649,396	659,872	670,501	681,283	692,220	703,313	714,564	725,975	737,546
85	Tons	42.6	43.4	44.3	45.1	46.0	46.9	47.8	48.7	49.6	50.6	51.5
	Btuh	510,971	521,002	531,182	541,513	551,995	562,631	573,422	584,369	595,474	606,739	618,165
	W	31,929	31,898	31,866	31,834	31,802	31,769	31,735	31,700	31,665	31,629	31,592
	EER	16.0	16.3	16.7	17.0	17.4	17.7	18.1	18.4	18.8	19.2	19.6
	THR - Btuh	620,007	629,932	640,005	650,227	660,598	671,121	681,796	692,625	703,610	714,752	726,052
90	Tons	41.2	42.0	42.8	43.7	44.5	45.4	46.3	47.1	48.0	49.0	49.9
	Btuh	494,242	504,006	513,915	523,972	534,178	544,534	555,043	565,705	576,522	587,495	598,627
	W	34,183	34,153	34,122	34,091	34,060	34,028	33,995	33,962	33,929	33,895	33,860
	EER	14.5	14.8	15.1	15.4	15.7	16.0	16.3	16.7	17.0	17.3	17.7
	THR - Btuh	610,978	620,638	630,442	640,393	650,491	660,738	671,136	681,685	692,388	703,245	714,258
95	Tons	39.7	40.5	41.3	42.1	43.0	43.8	44.7	45.5	46.4	47.3	48.2
	Btuh	476,889	486,372	495,997	505,767	515,683	525,747	535,960	546,323	556,838	567,507	578,332
	W	36,598	36,567	36,537	36,505	36,474	36,443	36,411	36,378	36,346	36,313	36,279
	EER	13.0	13.3	13.6	13.9	14.1	14.4	14.7	15.0	15.3	15.6	15.9
	THR - Btuh	601,872	611,250	620,769	630,433	640,242	650,198	660,302	670,555	680,959	691,515	702,226
100	Tons	38.2	39.0	39.8	40.6	41.4	42.2	43.0	43.9	44.7	45.6	46.4
	Btuh	458,916	468,105	477,433	486,903	496,515	506,273	516,177	526,228	536,428	546,780	557,283
	W	39,190	39,158	39,126	39,094	39,062	39,030	38,998	38,966	38,933	38,901	38,868
	EER	11.7	12.0	12.2	12.5	12.7	13.0	13.2	13.5	13.8	14.1	14.3
	THR - Btuh	592,751	601,829	611,049	620,409	629,913	639,561	649,355	659,296	669,386	679,625	690,016

W (Total Power Input in Watts) - Power input to unit, including controls

EER (Energy Efficiency Ratio) - Btuh / Total power input in Watts

THR (Total Heat Rejection in Btuh) - Btuh

Notes:

Shaded area rated in accordance with ARI Standard 550/590

- 1. Condenser: Flow 3.0 gpm / ton
Fouling factor 0.00025 h · ft² · °F/Btu
- 2. - Dual scroll compressor
- 3. - Refrigerant R-410A
- 4. - Sea Level
- 5. - Interpolation between points is acceptable
- 6. - Extrapolation is not acceptable