

Water - cooled condensing unit

WCUX080DZV(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	90.2	91.9	93.7	95.5	97.2	99.1	100.9	102.8	104.7	106.6	108.6
	Btuh	1,082,776	1,103,362	1,124,250	1,145,445	1,166,948	1,188,762	1,210,891	1,233,337	1,256,103	1,279,192	1,302,606
	W	46,975	46,982	46,988	46,991	46,993	46,992	46,990	46,985	46,978	46,969	46,958
	EER	23.1	23.5	23.9	24.4	24.8	25.3	25.8	26.2	26.7	27.2	27.7
	THR - Btuh	1,243,194	1,263,805	1,284,712	1,305,919	1,327,428	1,349,241	1,371,361	1,393,791	1,416,534	1,439,591	1,462,967
70	Tons	88.1	89.8	91.5	93.2	95.0	96.7	98.6	100.4	102.2	104.1	106.0
	Btuh	1,057,092	1,077,267	1,097,739	1,118,512	1,139,587	1,160,968	1,182,658	1,204,659	1,226,975	1,249,608	1,272,561
	W	49,955	49,970	49,983	49,995	50,005	50,013	50,020	50,025	50,027	50,028	50,027
	EER	21.2	21.6	22.0	22.4	22.8	23.2	23.6	24.1	24.5	25.0	25.4
	THR - Btuh	1,227,688	1,247,914	1,268,431	1,289,244	1,310,353	1,331,763	1,353,475	1,375,492	1,397,818	1,420,454	1,443,403
75	Tons	85.8	87.5	89.2	90.8	92.6	94.3	96.1	97.9	99.7	101.5	103.4
	Btuh	1,030,084	1,049,821	1,069,850	1,090,174	1,110,795	1,131,716	1,152,940	1,174,470	1,196,309	1,218,459	1,240,924
	W	53,094	53,114	53,134	53,152	53,169	53,185	53,199	53,212	53,223	53,232	53,240
	EER	19.4	19.8	20.1	20.5	20.9	21.3	21.7	22.1	22.5	22.9	23.3
	THR - Btuh	1,211,398	1,231,207	1,251,303	1,271,689	1,292,368	1,313,342	1,334,614	1,356,187	1,378,064	1,400,246	1,422,737
80	Tons	83.5	85.1	86.7	88.4	90.1	91.8	93.5	95.2	97.0	98.8	100.6
	Btuh	1,001,783	1,021,056	1,040,615	1,060,463	1,080,603	1,101,037	1,121,769	1,142,800	1,164,136	1,185,777	1,207,727
	W	56,419	56,444	56,469	56,492	56,515	56,536	56,556	56,575	56,593	56,609	56,624
	EER	17.8	18.1	18.4	18.8	19.1	19.5	19.8	20.2	20.6	20.9	21.3
	THR - Btuh	1,194,453	1,213,813	1,233,455	1,253,384	1,273,600	1,294,107	1,314,908	1,336,005	1,357,400	1,379,097	1,401,098
85	Tons	81.0	82.6	84.2	85.8	87.4	89.1	90.8	92.5	94.2	96.0	97.8
	Btuh	972,221	991,003	1,010,066	1,029,411	1,049,043	1,068,963	1,089,175	1,109,683	1,130,487	1,151,592	1,173,001
	W	59,959	59,988	60,016	60,043	60,069	60,095	60,120	60,144	60,167	60,189	60,210
	EER	16.2	16.5	16.8	17.1	17.5	17.8	18.1	18.5	18.8	19.1	19.5
	THR - Btuh	1,176,981	1,195,861	1,215,018	1,234,457	1,254,179	1,274,188	1,294,485	1,315,074	1,335,957	1,357,137	1,378,616
90	Tons	78.5	80.0	81.5	83.1	84.7	86.3	87.9	89.6	91.3	93.0	94.7
	Btuh	941,430	959,694	978,232	997,049	1,016,146	1,035,526	1,055,192	1,075,147	1,095,395	1,115,937	1,136,777
	W	63,743	63,773	63,803	63,833	63,862	63,891	63,919	63,946	63,973	63,999	64,024
	EER	14.8	15.0	15.3	15.6	15.9	16.2	16.5	16.8	17.1	17.4	17.8
	THR - Btuh	1,159,112	1,177,479	1,196,120	1,215,038	1,234,234	1,253,712	1,273,474	1,293,523	1,313,862	1,334,493	1,355,419
95	Tons	75.8	77.3	78.8	80.3	81.8	83.4	85.0	86.6	88.2	89.9	91.6
	Btuh	909,440	927,159	945,147	963,408	981,943	1,000,756	1,019,850	1,039,227	1,058,890	1,078,843	1,099,088
	W	67,800	67,830	67,860	67,891	67,921	67,951	67,981	68,010	68,040	68,068	68,096
	EER	13.4	13.7	13.9	14.2	14.5	14.7	15.0	15.3	15.6	15.8	16.1
	THR - Btuh	1,140,974	1,158,798	1,176,890	1,195,254	1,213,893	1,232,809	1,252,004	1,271,482	1,291,244	1,311,295	1,331,635
100	Tons	73.0	74.5	75.9	77.4	78.9	80.4	81.9	83.5	85.1	86.7	88.3
	Btuh	876,283	893,431	910,842	928,520	946,467	964,686	983,180	1,001,952	1,021,004	1,040,341	1,059,963
	W	72,157	72,186	72,215	72,245	72,275	72,305	72,335	72,365	72,395	72,425	72,454
	EER	12.1	12.4	12.6	12.9	13.1	13.3	13.6	13.8	14.1	14.4	14.6
	THR - Btuh	1,122,697	1,139,945	1,157,457	1,175,236	1,193,285	1,211,607	1,230,204	1,249,078	1,268,233	1,287,671	1,307,395

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:

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