Z-ULTRA Series | Central Heat Pump System

SET			24HDMB-USHH-SET	36HDMB-USHH-SET	48HDMB-USHH-SET	60HDMB-USHH-SET
ODU Model			ZSOVA-24HDMB-USHH	ZSOVA-36HDMB-US	ZSOVA-48HDMB-USHH	ZSOVA-60HDMB-USHH
IDU Model			ZAVA-24HDMB-US	ZAVA-36HDMB-US	ZAVA-48HDMB-US	ZAVA-60HDMB-US
Basic Parameter	IDU Power Supply(Volts; Hz; Phase)		115/208/230V,60Hz,1Ph	115/208/230V,60Hz,1Ph	115/208/230V,60Hz,1Ph	115/208/230V,60Hz,1Ph
	ODU Power Supply(Volts; Hz; Phase)		208/230V,60Hz,1Ph	208/230V,60Hz,1Ph	208/230V,60Hz,1Ph	208/230V,60Hz,1Ph
National Certification	Cooling Capacity	Btu/h	23000	36000	48000	54000
	Cooling Input	W	1965	3600	4690	5400
	Cooling Current	A	9	15.2	20	23.3
	SEER2	Btu/h/W	18.3	16.1	16.5	16
	EER2	Btu/h/W	11.7	10	10.5	10
	Cooling Capacity Range	Btu/h	7200~27000	8300~38900	15600~51000	11400~56300
	Cooling Input (range)	W	530 ~ 2870	710 ~ 4500	1345 ~ 5180	1540 ~ 6430
	Cooling Current(range)	A	3.4 ~12.6	4.7 ~18.3	6.4 ~22.9	7.2 ~28.4
	Heating Capacity	Btu/h	24000	36000	50000	56000
	Heating Input	W	2112	3100	4750	5300
	Heating Current	A	9.5	13.1	20.5	23.1
	HSPF2-4	Btu/h/W	10	8.7	9.5	9
	HSPF2-5	Btu/h/W	8	7	8	8
	COP	W/W	3.33	3.4	3.4	3.1
	Heating Capacity Range	Btu/h	7100~30000	6700~41300	15500~57300	8100~64500
	Heating Input(range)	W	440 ~2730	460 ~3550	1045 ~5200	725 ~5970
	Heating Current(range)	A	2.40 ~12.0	2.5 ~15.6	5.7 ~23.1	4.0 ~30.6
	Heating(H32) Rated capacity	Btu/h	20000	25600	37000	45000
	Heating(H32) COP	W/W	2.42	2.6	2.7	2.39
	Heating(H42) Rated capacity	Btu/h	21600	27000	46000	52000
	Heating(H42) COP	W/W	1.87	2	1.9	1.8
	Cooling at 109 F (43℃) Rated capacity	Btu/h	25000	31000	41200	50900
	Cooling at 5 F (-15℃)	Btu/h	25600	36000	52000	54000
	Heating at 17F (-8.33℃) Rated capacity	Btu/h	22000	30000	48000	50400
	Heating(H42) 5F(-15℃) Rated capacity	Btu/h	21600	27000	46000	52000
	Heating at -4F (-20℃) Rated capacity	Btu/h	17300	25000	40700	46700
	Heating at -13F (-25℃) Rated capacity	Btu/h	14400	20000	34200	41600
	Heating at -22F (-30℃) Rated capacity	Btu/h	12000	/	25900	30900
	Moisture removal	kg/h	2.05	3.62	3.85	5.87

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IDU Model			ZAVA-24HDMB-US	ZAVA-36HDMB-US	ZAVA-48HDMB-US	ZAVA-60HDMB-US
	Indoor MINIMUM CIRCUIT AMPACITY 115V(208/230V)	A	5.5/4.0	8.0/6.0	14.5/11.0	14.5/11.0
	Indoor MAX.FUSE	A	15	15	15	15
	Outdoor MINIMUM CIRCUIT AMPACITY	A	19	24	38	40
	Outdoor MAX.FUSE	A	20	30	40	40
	Communication Wiring		AWG 20-2	AWG 20-2	AWG 20-2	AWG 20-2
	Indoor Indoor fan motor RLA	A	3	4.5	7.8	8.3
	Outdoor Outdoor fan motor RLA	A	1	1.5	2	1.2
	Outdoor Compressor Rated current(RLA)	A	14	17.5	28	31
	Indoor Indoor air flow (Turbo/Hi/Mi/Lo/Si)	m^3/h	1400 / 1290 / 1180 / 1070 / /	2020 / 1840 / 1650 / 1470 / /	2720 / 2500 / 2180 / 1860 / /	3070 / 2690 / 2310 / 1930 / /
	Indoor Indoor air flow (Turbo/Hi/Mi/Lo/Si)	CFM	824.0 / 759.3 / 694.5 / 629.8 / /	1188.97 / 1083.02 / 971.19 / 865.24 / /	1601.0 / 1471.5 / 1283.1 / 1094.8 / /	1807.0 / 1583.3 / 1359.7 / 1136.0 / /
	Indoor noise level (Turbo/Hi/Mi/Lo/Si)	dB(A)	/ /44/42/28/ /	/ /48/45/28/ /	/ /52/50/34/ /	54.5/52/49.5/34.5/ /
	Outdoor Outdoor air flow	m^3/h	3000	4100	5160	4500
	Outdoor Outdoor air flow	CFM	1765.7	2413.2	3037.1	2648.6
	Outdoor noise level (Hi)	dB(A)	60	63	65	65
Basic Parameter(NC)	N.A. Design pressure	PSI	550 / 340	550 / 340	550 / 340	550 / 340
	Outdoor Refrigerant type		R454B	R454B	R454B	R454B
	Outdoor Refrigerant charge	kg	2.1	3.3	3.8	5.2
	Outdoor Refrigerant charge	oz	74.08	116.40	134.04	183.42
	Outdoor Additional charge per metre	g/m	65	65	65	65
	Outdoor Additional charge	oz/ft	0.7	0.7	0.7	0.7
	Outdoor Throttle type		EXV	EXV	EXV	EXV
	Liquid side	mm(inch)	9.52mm(3/8in)	9.52mm(3/8in)	9.52mm(3/8in)	9.52mm(3/8in)
	Gas side	mm(inch)	19mm(3/4in)	19mm(3/4in)	19mm(3/4in)	19mm(3/4in)
	Max. refrigerant pipe length	m	50	75	75	75
	Max. Piping Length	ft	164	246	246	246
	Max. difference in level	m	25	30	30	30
	Max. Height Difference	ft	82	98.4	98.4	98.4
	Room temperature_Indoor(cooling)	℃	16～32	16～32	16～32	16～32
	Room temperature_Outdoor(cooling)	℃	-30～50	-25～50	-30～50	-30～50
	Room temperature_Indoor(heating)	℃	0～30	0～30	0～30	0～30
	Room temperature_Outdoor(heating)	℃	-30～24	-25～24	-30～24	-30～24

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ODU Model			ZSOVA-24HDMB-USHH	ZSOVA-36HDMB-US	ZSOVA-48HDMB-USHH	ZSOVA-60HDMB-USHH
IDU Model			ZAVA-24HDMB-US	ZAVA-36HDMB-US	ZAVA-48HDMB-US	ZAVA-60HDMB-US
	Indoor Operating Temp. Range(Cooling)	℉	60~90	60~90	60~90	60~90
	Outdoor Operating Temp. Range(Cooling)	℉	-22~122	-13~122	-22~122	-22~122
	Indoor Operating Temp. Range(Heating)	℉	32-86	32-86	32-86	32-86
	Outdoor Operating Temp. Range(Heating)	℉	-22~75	-13~75	-22~75	-22~75
Size/ Weight	Indoor Item Net/Gross weight	kg	47.9/57.8	58.7/69.8	73.9/86.6	73.9/86.6
	Indoor Item Net/Gross weight	lb	105.60/127.43	129.41/153.88	162.92/190.92	162.92/190.92
	Indoor Unit Dimension WxDxH	inch	21.02 x 17.52 x 45.00	21.02 x 21.02 x 49.02	21.02 x 24.49 x 52.99	21.02 x 24.49 x 52.99
	Indoor Package Dimension WxDxH	inch	26.57 x 20.87 x 48.62	26.57 x 24.41 x 52.56	27.95 x 26.77 x 56.50	27.95 x 26.77 x 56.50
	Outdoor Item Net/Gross weight	kg	46.4/49.5	69.5/74.2	91.2/105.4	110.2/124.8
	Outdoor Item Net/Gross weight	lb	102.29/109.13	153.22/163.58	201.06/232.36	242.95/275.13
	Outdoor Unit Dimension WxDxH	inch	35.04 x 13.46 x 26.50	37.24 x 16.14 x 31.89	38.58 x 16.34 x 38.39	37.48 x 16.34 x 52.48
	Outdoor Package Dimension WxDxH	inch	39.17 x 15.67 x 29.13	42.91 x 19.68 x 34.84	45.08 x 19.68 x 42.52	43.11 x 19.49 x 58.27
Electrical Motor	Indoor Indoor Fan Motor Model		ZKFD-250-8-1	ZKFD-375-8-1-1	ZKFD-750-8-1-1	ZKFD-750-8-1-1
	Indoor Output	W	250	375	750	750
	Indoor Motor Speed(Hi/Mi/Lo)	r/min	/	/	/	/
Outdoor Electrical Motor	Outdoor Outdoor Fan Motor Model		ZKFN-80-8-3	ZKFN-120-10-1L	ZKFN-250-10-1	ZKFN-85-8-22-5
	Outdoor Outdoor Fan Motor Output	W	80	120	250	85
	Outdoor Outdoor Fan Motor Speed(Hi/Mid/Lo)	r/min	810/700/450	800/750/500	850/800/750/650	1000/900/750/650
Outdoor Electrica lMotor2	Outdoor Outdoor Fan Motor Model		/	/	/	ZKFN-85-8-22-5
	Outdoor Outdoor Fan Motor Output power2	W	/	/	/	85
	Outdoor Outdoor Fan Motor Speed(Hi/Mid/Lo)2	r/min	/	/	/	1000/900/750/650
Compressor	Outdoor Compressor Type		ROTARY	ROTARY	ROTARY	TWIN-ROTARY
	Outdoor Compressor Model		KTM240D46UKT2	KTF310D43UMT	MTH550UKPC8FU	ETPQ480D66UMU1
	Outdoor Compressor Brand		GMCC	GMCC	HIGHLY	GMCC
	Outdoor Compressor Capacity	W	4780/7600	10010	16250	13985
	Outdoor Compressor Input Power	W	805/2045	2765	4900	3665
	Outdoor Compressor Rated current	A	4.15/9.30	5.4	21	7.5
	Outdoor Refrigerant oil		VG74	VG74	HAF68D1C	VG75
	Outdoor Refrigerant oil charge	mL	620	1000	1800	1300
Basic Parameter(Indoor/Outdoor)	Indoor Loading quantity 40'HQ	set	148	114	51	51
	Outdoor Loading quantity 40'HQ	set	198	96	96	48