

Multi outdoor unit specification

Technical Specifications		2x1	2x1	3x1	3x1	4x1	5x1	
Model No.		DOSM-14KDT	DOSM-18KDT-3	DOSM-21KDT	DOSM-27KDT-3	DOSM-32KDT	DOSM-42KDT	
Standard indoor combination under Eip		7+7	09+09	07+07+07	09+09+09	09+09+09+09	09+09+09+09+09	
One unit		07,09,12	09,12,18	/	/	/	/	
Two units		09+09,09+12	09+09,09+12,09+18,12+12	09+09,09+12,12+12,09+18,12+18	09+09,09+12,12+12,09+18,12+18,18+18	09+09,09+12,12+12,09+18,12+18,18+18	09+09,09+12,12+12,09+18,12+18,18+18	
Three units		None	None	09+09+09,09+09+12	09+09+09,09+12+12,09+18,12+12+18	09+09+09,09+09+12,09+12+12,12+12+18,09+18+18	09+09+09,09+09+12,09+12+12,12+12+18,18+18,18+18,09+18+18	
Four units		None	None	None	None	9+9+9+9,9+9+9+12,9+9+9+18,9+9+12+12,9+12+12+12	09+09+09+09,09+09+09+12,09+09+09+18,09+09+12+12,09+09+12+18,09+09+12+12+12,09+12+18,09+12+18+18,09+18+18,12+12+12+12,12+12+12+18,12+12+18+18	
Five units		None	None	None	None	None	09+09+09+09+09,09+09+09+09+12,09+09+09+09+18,09+09+09+12+12,09+09+09+12+18,09+09+09+12+12+12,09+12+18,09+12+18+18,12+12+12+12,12+12+12+18,12+12+18+18	
Control type		Remote Controller		Remote Controller	Remote Controller	Remote Controller	Remote Controller	
Cooling capacity		Btu/h	14000(4000-16500)	17400(4200-19100)	21000(9500-22500)	27000(9500-30000)	32000(10600-35000)	42000(11300-44700)
		W	4100(1200-4850)	5100(1230-5600)	6200(2800-6600)	7900(2800-8800)	9400(3100-10200)	12200(3300-13100)
Heating capacity		Btu/h	15350(4300-17800)	18000(4400-19600)	22000(8350-23200)	27000(8350-30000)	32000(8700-35000)	42000(11300-44700)
		W	4500(1250-5200)	5200(1290-5750)	6500(2450-6800)	7960(2450-8800)	9450(2650-10200)	12200(3300-13100)
Phdesighc		Btu/h	14000	18000	21000	27000	32000	42000
		W	4100	5100	6200	7900	9300	12200
Phdesighh		Btu/h	12300	13650	20500	19100	25000	32400
		W	3600	4000	5400	5600	7300	9500
SEER (Class)		W/W	6.1(A++)	6.1(A++)	6.1(A++)	6.1(A++)	6.1(A++)	6.1(A++)
SCOP (Class)		W/W	4.0(A+)	4.0(A+)	4.0(A+)	4.0(A+)	4.0(A+)	4.0(A+)
EER		W/W	3.29	3.30	3.23	3.23	3.40	3.20
COP		W/W	3.71	3.90	3.71	3.71	3.71	3.31
Declare capacity(-10℃)		W	3200	3800	5100	5200	6800	9300
Eibu (Backup electrical capacity)		W	400	200	300	400	500	200
Outdoor sound power level		dB(A)	64	65	67	67	70	70
Phdesighh warmer		W	3900	4000	5600	5700	7500	9700
SCOP warmer (Class)		W/W	4.6(A++)	4.6(A++)	4.6(A++)	4.6(A++)	4.6(A++)	4.6(A++)
Declare capacity(2℃)		W	3900	4000	5600	5700	7500	9700
Eibu (Backup electrical capacity)		W	0	0	0	0	0	0
Phdesighh Colder		W	3400	4500	4300	6000	5400	9000
SCOP Colder (Class)		W/W	3.6(A)	3.4(A)	3.6(A)	3.4(A)	3.6(A)	3.1(B)
Declare capacity(-22℃)		W	3100	4000	4000	5100	4600	8000
Eibu (Backup electrical capacity)		W	300	500	300	900	800	1000
Electrical Data								
Power supply		220-240V~50HZ						220-240V~50HZ
Voltage Range		V	165-265	165-265	165-265	165-265	165-265	165-265
Power input		Cooling	W 1269(250-1660)	1545(280-2050)	1920(340-2580)	2445(350-2850)	2765(410-3500)	3812(730-5400)
		Heating	W 1212(230-1660)	1333(280-2050)	1752(400-2580)	2145(420-2850)	2547(510-3500)	3686(800-5400)
Operating Current		Cooling	A 6.3(1.2-9.0)	7.5(1.3-10.5)	9.8(1.5-13.2)	11.7(1.6-14.0)	14.1(1.8-17.0)	16.8(3.2-24.0)
		Heating	A 5.9(1.1-9.0)	6.2(1.3-10.5)	9.0(1.7-13.2)	10.1(1.9-14.0)	13.0(2.3-17.0)	15.8(3.5-24.0)
Annual electricity consumption		Cooling	KWh 235	#VALOR!	#VALOR!	#VALOR!	#VALOR!	#VALOR!
		Average	KWh 1260	#VALOR!	#VALOR!	#VALOR!	#VALOR!	3325
		Warmer	KWh #VALOR!	#VALOR!	#VALOR!	#VALOR!	#VALOR!	2953
		Colder	KWh #VALOR!	#VALOR!	#VALOR!	#VALOR!	#VALOR!	6097
Refrigerating System								
Refrigerant/Charge		Gram	R32/830g	R32/1100g	R32/1500g	R32/2200g	R32/3000g	
CO2 equivalent		Tonnes	0.561	0.743	1.013	1.485	2.025	
Compressor type		Rotary		Rotary	Twin Rotary	Twin Rotary	Twin Rotary	
Compressor brand&model		GMCC KSK103D33UEZC3		GMCC KSK103D33UEZC3	SANYO C-6RZ146H3DBF	SANYO C-6RZ146H3DBF	SANYO C-6RZ210H3AAF	GMCC KTF310D43UMT
Fan System								
Outdoor fan type		axial-flow		axial-flow	axial-flow	axial-flow	axial-flow	
Outdoor fan motor model		22001-000493		22001-000493	22001-000147	22001-000147	SIC-71FW-F1120-9	25001-000242
Outdoor fan speed		rpm	1000	1000	850	850	900	
Outdoor fan motor output		W	≤33	≤33	≤85	≤85	≤120	≤200
Outdoor coil								
Number of rows		/	1	2	2	2	3	
Number of U tube		/	11	26	30	30	42	62
Tube outside dia		mm	9	7	7	7	7	
Tube type		/	Rifled tube	Rifled tube	Rifled tube	Rifled tube	Rifled tube	
Fin spacing		mm	1,2	1,4	1,4	1,4	1,6	
Fin type		Corrugated sheet		Corrugated sheet	Corrugated sheet	Corrugated sheet	Window	
Tube pitch(a)x row pitch(b)		mm	25.4x19.05	18.2x21	18.2x21	18.2x21	12.7x21	
Connections								
Refrigerant coupling		Flare		Flare	Flare	Flare	Flare	
High & low pressure valve		Liquid	inches 1/4"	1/4"	1/4"	1/4"	1/4"	
		Gas	inches 3/8"	3/8" should use 1/2" pipe for 18K duct	3/8" should use 1/2" pipe for 18K duct	3/8" should use 1/2" pipe for 18K duct	3/8" should use 1/2" pipe for 18K duct	
Others								
Net dimensions (W x H x D)		mm	853*602*349	853*602*349	920*699*380	920*699*380	990*910*340	990*910*340
Net weight		kg	29	31	42	42	68	73
Packing dimensions (W x H x D)		mm	890*628*385	890*628*385	960*732*400	960*732*400	1030*950*430	1030*950*430
Gross weight		kg	31	33	45	45	80	85
Outdoor sound pressure level		dB(A)	54	55	57	57	60	60
Outdoor air circulation		m3/h	2600	2600	3000	3000	4000	4000
Ambient temperature range		Outdoor	℃ Cooling:15-53/Heating:-20-30	Cooling:15-53/Heating:-20-30	Cooling:15-53/Heating:-20-30	Cooling:15-53/Heating:-20-30	Cooling:15-53/Heating:-20-30	Cooling:15-53/Heating:-20-30
		Indoor	℃ Cooling:17-32/Heating:0-30	Cooling:17-32/Heating:0-30	Cooling:17-32/Heating:0-30	Cooling:17-32/Heating:0-30	Cooling:17-32/Heating:0-30	Cooling:17-32/Heating:0-30
Standard precharge total pipe length(Without adding refrigerant)		m	10	10	15	15	20	25
Maximum total distance between indoor and outdoor unit		m	30	30	45	45	60	75
Maximum single distance between indoor and outdoor unit		m	25	25	25	25	25	25
Max. diff. in level between indoor and outdoor unit		m	10	10	10	10	10	10
Additional refrigerant charge		g/m	15	15	15	15	15	15
Simultaneity coefficient		50%(one indoor unit)-150%		50%(one indoor unit)-150%	33%(one indoor unit)-150%	33%(one indoor unit)-150%	25%(one indoor unit)-150%	20%(one indoor unit)-150%