



Model		MD20-14HDN1		MD20-18HDN1			
Indoor unit combination		Single	Double	Single	Double		
Power supply		Ph-V-Hz	1Ph, 220-240V~, 50Hz				
Cooling	Capacity	Btu/h	7000~12000	14000	7000~12000	18000	
	Input	W	1000~1200	1270	1000-1200	1645	
	Rated current	A	4.5~5.4	5.7	4.5~5.0	7.5	
	EER	W/W	-----	3.21	-----	3,21	
Heating	Capacity	Btu/h	9000~14000	15000	10000~14000	21000	
	Input	W	1050~1250	1220	1050-1250	1705	
	Rated current	A	4.7~5.6	5.5	5.0~6.0	7.6	
	COP	W/W	-----	3.61	-----	3,61	
Max. input consumption		W	1700		2150		
Max. current		A	8.0		10.5		
Starting current		A	-----		----		
Compressor	Model		DA108X1C-20FZ3		DA130M1C-31FZ		
	Type		ROTARY		ROTARY		
	Brand		GMCC		GMCC		
	Capacity	Btu/h	10918		13443		
	Input	W	855		1005		
	Rated current(RLA)	A	5,3		3.95		
	Locked rotor Amp(LRA)	A	10		----		
	Thermal protector		INT01L-4639 / CS-74		----		
	Thermal protector position		EXTERNAL		INTERNAL		
	Capacitor	uF	45		--		
	Refrigerant oil/oil charge	ml	ESTER OIL VG74 / 480		ESTER OIL VG74/480		
Outdoor fan motor	Model		YDK24-6G		YDK53-6F		
	Brand		Welling		Welling		
	Input	W	67/48		126/106		
	Capacitor	uF	2.5		2.5		
	Speed	r/min	800/550		760 / -- / 600		
Outdoor coil	a.Number of rows		2		1.5		
	b.Tube pitch(a)x row pitch(b)	mm	21x13.37		21x13.37		
	c.Fin spacing	mm	1,4		1.4		
	d.Fin type (code)		Hydrophilic aluminium		Hydrophilic aluminium		
	e.Tube outside dia.and type	mm	Φ7, innergroove tube		Φ7,innergroove tube		
	f.Coil length x height x width	mm	655x546x26.74		785x651x13.37+461x651x13.37		
	g.Number of circuits		3		4		
Outdoor air flow		m3/h	2000		2500		
Outdoor noise level		dB(A)	57.6		57		
Outdoor unit	Dimension(W*D*H)	mm	760x285x590		845x320x700		
	Packing (W*D*H)	mm	887x355x645		965x395x755		
	Net/Gross weight	Kg	39/41		45 / 48		
Refrigerant type		g	R410A/1350g		R410A/1450g		
Refrigerant piping	Liquid side/ Gas side	mm(inch)	2 X Φ6.35/Φ9.52(1/4"/3/8")		2 X Φ6.35/Φ9.52(1/4"/3/8")		
	Max. length for all rooms	m	30		30		
	Max. length for one indoor unit	m	20		20		
	Max. height difference IU and OU	OU higher than IU	m	10		10	
		OU lower than IU	m	15		15	
Max. height difference between indoor units		m	10		10		
Connection wiring			NO		NO		
Operation temperature	cooling	°C	0~50		0~50		
	heating	°C	-15~24		-15~24		

Model		MD30-21HDN1				
Indoor unit combination		Single	Double	Triple		
Power supply		Ph-V-Hz	220-240V~ 50Hz, 1Ph			
Cooling	Capacity	Btu/h	7000~12000	14000~1800	21000	
	Input	W	1000~1300	1500~1780	1920	
	Rated current	A	4.5~5.8	6.7~8.0	8.6	
	EER	W/W	-----	-----	3.21	
Heating	Capacity	Btu/h	9000~14000	17000~20000	23000	
	Input	W	1100~1450	1650~1880	1870	
	Rated current	A	4.9~6.5	7.4~8.4	8.4	
	COP	W/W	-----	-----	3.60	
Max. input consumption		W	3335			
Max. current		A	14.0			
Starting current		A	----			
Compressor	Model		DA130M1C-31FZ			
	Type		ROTARY			
	Brand		GMCC			
	Capacity	Btu/h	13443			
	Input	W	1005			
	Rated current(RLA)	A	3.95			
	Locked rotor Amp(LRA)	A	----			
	Thermal protector		----			
	Thermal protector position		INTERNAL			
	Capacitor	uF	--			
	Refrigerant oil/oil charge	ml	ESTER OIL VG74/480			
Outdoor fan motor	Model		YDK53-6F			
	Brand		Welling			
	Input	W	126/106			
	Capacitor	uF	2.5			
	Speed	r/min	760 / -- / 600			
Outdoor coil	a.Number of rows		1.5			
	b.Tube pitch(a)x row pitch(b)	mm	21x13.37			
	c.Fin spacing	mm	1.4			
	d.Fin type (code)		Hydrophilic aluminium			
	e.Tube outside dia.and type	mm	Φ7,innergroove tube			
	f.Coil length x height x width	mm	785x651x13.37+461x651x13.37			
	g.Number of circuits		4			
Outdoor air flow		m <sup>3</sup> /h	2700			
Outdoor noise level		dB(A)	58			
Outdoor unit	Dimension(W*D*H)	mm	845x320x700			
	Packing (W*D*H)	mm	965x395x755			
	Net/Gross weight	Kg	45 / 48			
Refrigerant type		g	R410A/1500g			
Refrigerant piping	Liquid side/ Gas side	mm(inch)	3 X Φ6.35/Φ9.52(1/4"/3/8")			
	Max. length for all rooms	m	45			
	Max. length for one indoor unit	m	25			
	Max. height difference IU and OU	OU higher than IU	m	10		
		OU lower than IU	m	15		
Max. height difference between indoor units		m	10			
Connection wiring			NO			
Operation temperature	cooling	°C	0~50			
	heating	°C	-15~24			

Model		MD30-27HDN1				
Indoor unit combination		Single	Double	Triple		
Power supply		Ph-V-Hz	220-240V~ 50Hz, 1Ph			
Cooling	Capacity	Btu/h	7000~12000	16000~19000	27000	
	Input	W	1000~1300	1550~1800	2100	
	Rated current	A	4.6~6.0	7.2~8.4	9.6	
	EER	W/W	-----	-----	3.21	
Heating	Capacity	Btu/h	10000~14000	20000~24000	30000	
	Input	W	1150~1450	1650~1950	2020	
	Rated current	A	5.3~6.7	7.5~9.0	9.2	
	COP	W/W	-----	-----	3.63	
Max. input consumption		W	3100			
Max. current		A	16.0			
Starting current		A	----			
Compressor	Model		DA150S1C-20FZ			
	Type		Twin-rotary			
	Brand		GMCC			
	Capacity	Btu/h	15286			
	Input	W	1150			
	Rated current(RLA)	A	9.7			
	Locked rotor Amp(LRA)	A	----			
	Thermal protector		KSD301			
	Thermal protector position		EXTERNAL			
	Capacitor	uF	--			
	Refrigerant oil/oil charge	ml	ESTER OIL VG74/500			
Outdoor fan motor	Model		YDK53-6F			
	Brand		Welling			
	Input	W	126/106			
	Capacitor	uF	2.5			
	Speed	r/min	760 / -- / 600			
Outdoor coil	a.Number of rows		2			
	b.Tube pitch(a)x row pitch(b)	mm	21x13.37			
	c.Fin spacing	mm	1.4			
	d.Fin type (code)		Hydrophilic aluminium			
	e.Tube outside dia.and type	mm	Φ7,innergroove tube			
	f.Coil length x height x width	mm	779x651x26.74			
	g.Number of circuits		4			
Outdoor air flow		m <sup>3</sup> /h	2700			
Outdoor noise level		dB(A)	58			
Outdoor unit	Dimension(W*D*H)	mm	845x320x700			
	Packing (W*D*H)	mm	965x395x755			
	Net/Gross weight	Kg	48/51			
Refrigerant type		g	R410A/2000g			
Refrigerant piping	Liquid side/ Gas side	mm(inch)	3 X Φ6.35/Φ9.52(1/4"/3/8")			
	Max. length for all rooms	m	45			
	Max. length for one indoor unit	m	25			
	Max. height difference IU and OU	OU higher than IU	m	10		
		OU lower than IU	m	15		
Max. height difference between indoor units		m	10			
Connection wiring			NO			
Operation temperature	cooling	°C	0~50			
	heating	°C	-15~24			

Model			MD50-36HDN1					
Indoor unit combination			Single	Double	Triple	Quadplex	Quintuple	
Power supply		Ph-V-Hz	220-240V~ 50Hz, 1Ph					
Cooling	Capacity	kBTU/h	7~18	14~36	21~42	28~47	36	
	Input	W	1330~1780	1730~3400	2230~3790	2350~3890	3420	
	Rated current	A	5.8~7.8	7.5~15.0	9.8~16.5	10.3~17.0	15.8	
	EER	W/W	-----	-----	-----	-----	3.1	
Heating	Capacity	Btu/h	7000~18000	14000~37000	21000~43000	28000~47000	41000	
	Input	W	1650~2500	2430~3420	2960~3520	3090~3650	3400	
	Rated current	A	7.2~11.0	10.6~15.1	12.9~15.6	13.4~16.0	15.8	
	COP	W/W	-----	-----	-----	-----	3.5	
Max. input consumption		W	4900					
Max. current		A	22.5					
Starting current		A	----					
Compressor	Model		TNB306FPGMC-L					
	Type		Twin-rotary					
	Brand		MITSUBISHI					
	Capacity	Btu/h	33711					
	Input	W	3010					
	Rated current(RLA)	A	13.5					
	Locked rotor Amp(LRA)	A	--					
	Thermal protector		--					
	Thermal protector position		--					
	Capacitor	uF	--					
Refrigerant oil/oil charge	ml	FV50S / 1070						
Outdoor fan motor	Model		YDK250-6C					
	Brand		Welling					
	Input	W	320/-/240					
	Capacitor	uF	10					
	Speed	r/min	760 / -- / 625					
Outdoor coil	a.Number of rows		2					
	b.Tube pitch(a)x row pitch(b)	mm	22x19.05					
	c.Fin spacing	mm	1,5					
	d.Fin type (code)		Hydrophilic aluminium					
	e.Tube outside dia.and type	mm	Φ7.94,inner groove tube					
	f.Coil length x height x width	mm	895x902x38.1					
	g.Number of circuits		8					
Outdoor air flow		m3/h	3800					
Outdoor noise level		dB(A)	65					
Outdoor unit	Dimension(W*D*H)	mm	990x345x965					
	Packing (W*D*H)	mm	1120x435x1100					
	Net/Gross weight	Kg	80/91					
Refrigerant type		g	R410A/3000g					
Refrigerant piping	Liquid side/ Gas side	mm(inch)	5X Φ6.35/Φ9.52(1/4"/3/8")					
	Max. length for all rooms	m	75					
	Max. length for one IU	m	30					
	Max. height difference IU and OU	OU > IU	m	10				
		OU < IU	m	15				
Max. height difference between IU	m	10						
Connection wiring			NO					
Operation temperature	cooling	°C	0~50					
	heating	°C	-15~24					

Model		MD40-36HDN1					
Indoor unit combination		Single	Double	Triple	Quadplex		
Power supply		Ph-V-Hz	1Ph, 220-240V~, 50Hz				
Cooling	Capacity	Btu/h	7000~18000	14000~36000	21000~42000	36000	
	Input	W	1334~1784	1730~3403	2234~3790	3450	
	Rated current	A	5.8~7.8	7.5~15.0	7.5~15.0	15.5	
	EER	W/W	-----	-----	-----	3.05	
Heating	Capacity	Btu/h	9000~18000	16000~37000	24000~43000	38000	
	Input	W	1656~2520	2131~3419	2959~3515	3380	
	Rated current	A	7.2~11.0	9.3~15.1	12.9~15.6	15.2	
	COP	W/W	-----	-----	-----	3.29	
Max. input consumption		W	4900				
Max. current		A	22.5				
Starting current		A	-----				
Compressor	Model		TNB306FPGMC-L				
	Type		Twin-rotary				
	Brand		MITSUBISHI				
	Capacity	Btu/h	33711				
	Input	W	3010				
	Rated current(RLA)	A	13.5				
	Locked rotor Amp(LRA)	A	--				
	Thermal protector		--				
	Thermal protector position		--				
	Capacitor	uF	--				
Refrigerant oil/oil charge	ml	FV50S / 1070					
Outdoor fan motor	Model		YDK250-6C				
	Brand		Welling				
	Input	W	320/240				
	Capacitor	uF	10				
	Speed	r/min	760/625				
Outdoor coil	a.Number of rows		2				
	b.Tube pitch(a)x row pitch(b)	mm	22x19.05				
	c.Fin spacing	mm	1.5				
	d.Fin type (code)		Hydrophilic aluminium				
	e.Tube outside dia.and type	mm	Φ7.94, innergroove tube				
	f.Coil length x height x width	mm	895x902x38.1				
	g.Number of circuits		8				
Outdoor air flow		m3/h	3800				
Outdoor noise level		dB(A)	61				
Outdoor unit	Dimension(W*D*H)	mm	990x345x965				
	Packing (W*D*H)	mm	1120x435x1100				
	Net/Gross weight	Kg	79/90				
Refrigerant type		g	R410A/2700g				
Refrigerant piping	Liquid side/ Gas side	mm(inch)	4 X Φ6.35/Φ9.52(1/4"/3/8")				
	Max. length for all rooms	m	60				
	Max. length for one indoor unit	m	30				
	Max. height difference IU and OU	OU higher than IU	m	10			
		OU lower than IU	m	15			
Max. height difference between indoor units	m	10					
Connection wiring			NO				
Operation temperature	cooling	°C	0~50				
	heating	°C	-15~24				