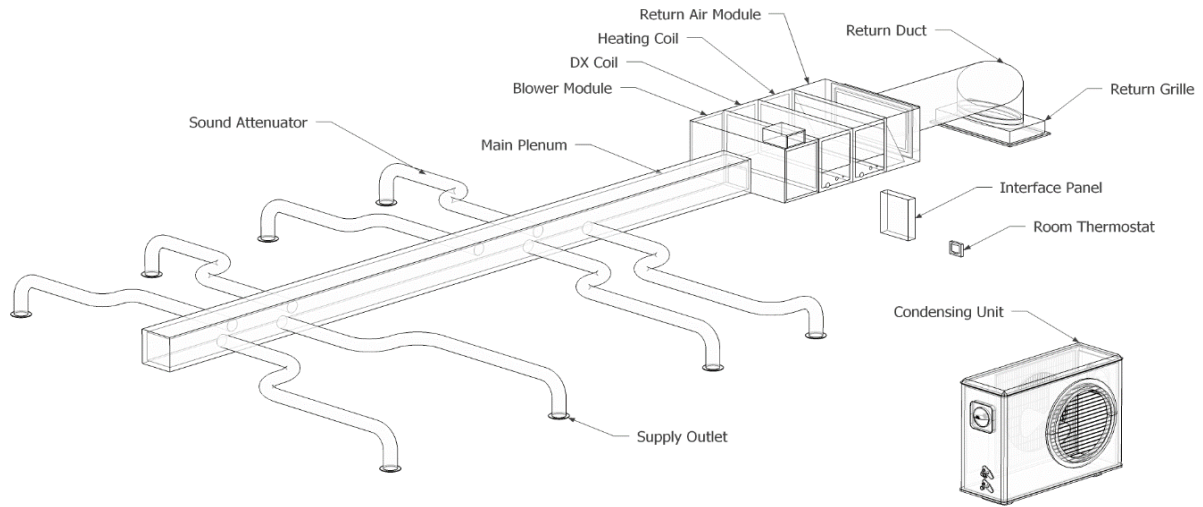


The Unico System

Small Duct Heating, Cooling and Ventilation



System Components

Manufacturer	Parts
Unico	Air Handling Unit
	Sound Attenuator
	Supply Outlet
	Main Plenum - Round
	Return Ducting
	Return Grilles
Mitsubishi Electric	Condensing Unit
	Interface Panel
Climaver Neto	Main Plenum - Rectangular
	Main Plenum - Square
Jackson Systems	Thermostat
	Zone Damper
	Zone Control Panel
Ecobee	Thermostat

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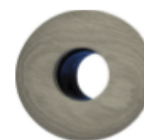


Air Handling Units

Indoor Unit			1218	2430	3642	4860
Blower Module						
Dimensions	Length	mm	965	349	349	349
	Width	mm	508	635	965	965
	Height	mm	305	445	445	445
Weight		kg	42	28	33	34
Airflow Data	Minimum	l/s	47	94	141	188
	Maximum	l/s	236	353	566	707
	Default	l/s	189	294	412	590
Specific Fan Power			1.27	1.03	0.86	0.83
External Static Pressure	Max	Pa	375	475	575	425
	Default	Pa	300	300	300	300
Noise Rating		NR	40	45	45	45
Electrical Details	Power Supply		1ph	1ph	1ph	1ph
	Fuse Rating	A	13A	13A	13A	13A
DX Coil						
Dimensions	Length	mm	-	349	349	609
	Width	mm	-	635	965	965
	Height	mm	-	445	445	445
Weight		kg	-	28	36	40
Total Capacity	Heating	kW	5.64	8.69	13.31	17.43
	Cooling	kW	5.53	9.37	13.58	17.18
	Sensible Heat Ratio		0.6	0.6	0.6	0.6
*Heating Capacity - Return air 20°C Dry bulb, R410A 75°C entering, 46°C condensing, 5°C subcooling						
*Cooling Capacity - Return air 27°C Dry bulb, 19°C Wet bulb, R410A 6°C Entering, 5°C Superheat						
Chilled Water Coil						
Dimensions	Length	mm	-	349	349	445
	Width	mm	-	635	965	965
	Height	mm	-	445	445	445
Weight		kg	-	27	36	48
Total Capacity	Heating	kW	5.41	9.7	14.2	17.7
	Cooling	kW	5.14	9.3	13.5	17
	Sensible Heat Ratio		0.66	0.64	0.64	0.65
*Heating Capacity - Return air 21°C Dry bulb, HW Supply at 48.9°C (See Manual for Flow Rates)						
*Cooling Capacity - Return air 27°C Dry bulb, 19°C Wet bulb, CW Supply at 7.2°C (See Manual for Flow Rates)						
Hot Water Coil						
Dimensions	Length	mm	-	305	305	305
	Width	mm	-	635	965	965
	Height	mm	-	445	445	445
Weight		kg	-	25	35	35
Total Capacity	Heating	kW	7.45	11.6	19	22.3
*Heating Capacity - Return air 20°C Dry bulb, HW Supply at 60°C (See Manual for Flow Rates)						
Secondary Drain Pan						
Dimensions	Length (2 Module)	mm	1016	749	749	1060
	Length (3 Module)	mm	-	1060	1060	1372
	Width	mm	559	686	1016	1016
	Height	mm	25	25	25	25

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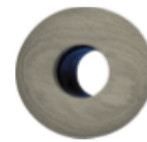


Supply and Return Air Components

Indoor Unit			1218	2430	3642	4860
Default Airflow		l/s	189	294	412	590
Main Plenum - Round						
Dimensions	Internal Diameter	mm	180	230	230	250
	External Diameter	mm	230	280	280	300
Velocity		m/s	7.5	7.1	9.9	12.0
Resistance		Pa/m	4	3	5.5	7
Main Plenum - Rectangular						
Internal Dimensions	Width	mm	250	400	400	500
	Height	mm	100	100	100	100
External Dimensions	Width	mm	300	450	450	550
	Height	mm	150	150	150	150
Velocity		m/s	7.4	7.4	10.3	11.8
Resistance		Pa/m	6	5	9	12
Main Plenum - Square						
Internal Dimensions	Width	mm	160	200	200	230
	Height	mm	160	200	200	230
External Dimensions	Width	mm	210	250	250	280
	Height	mm	210	250	250	280
Velocity		m/s	7.4	7.4	10.3	11.2
Resistance		Pa/m	5	4	7	7
Return Duct						
Dimensions	Diameter	mm	300	350	450	508
Return Grille						
Dimensions	Length	mm	515	642	769	769
	Width	mm	362	362	362	616
Sound Attenuator						
Dimensions	Internal Diameter	mm	50			
	External Diameter	mm	89			
	Standard Length	m	3.6			
	Minimum Length	m	1			
	Maximum Length	m	9			
Airflow per attenuator		l/s	14			
Velocity		m/s	7.1			
Resistance (Standard Length)		Pa	220			
Supply Outlets						
Airflow per outlet		l/s	14			
Outlet Velocity		m/s	7.1			
Noise Rating - Round Outlet		NR	20			
Noise Rating - 90° Slotted Outlet		NR	35			

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Small Duct Heating, Cooling and Ventilation



Condensing Units

Outdoor Unit		60S1	60P1	10S1	10S3	10P1	10P3
Indoor Unit		1218		2430			
Inverter	Standard	x		x	x		
	Power		x			x	x
Dimensions	Width	mm	840	950	950	950	1050
	Depth	mm	330	330	330	330	330
	Height	mm	880	630	943	943	1338
Weight		kg	50	67	75	77	116
Sound Pressure Level		dB(A)	55	48	54	54	52
Electrical Details	Power Supply		1ph	1ph	1ph	3ph	1ph
	Fuse Rating	A	20	25	32	16	32
Pipework	Gas Line	Inches	5/8"	5/8"	5/8"	5/8"	5/8"
	Liquid Line	Inches	1/4"	3/8"	3/8"	3/8"	3/8"
	Max Length	m	30	50	50	50	75

Outdoor Unit		14S1	14S3	14P1	14P3	20P3
Indoor Unit		3642				4860
Inverter	Standard	x	x			
	Power			x	x	x
Dimensions	Width	mm	950	950	1050	1050
	Depth	mm	330	330	330	330
	Height	mm	1350	1350	1338	1338
Weight		kg	99	101	119	132
Sound Pressure Level		dB(A)	56	56	52	52
Electrical Details	Power Supply		1ph	3ph	1ph	3ph
	Fuse Rating	A	40	16	40	16
Pipework	Gas Line	Inches	5/8"	5/8"	5/8"	5/8"
	Liquid Line	Inches	3/8"	3/8"	3/8"	3/8"
	Max Length	m	50	50	75	75