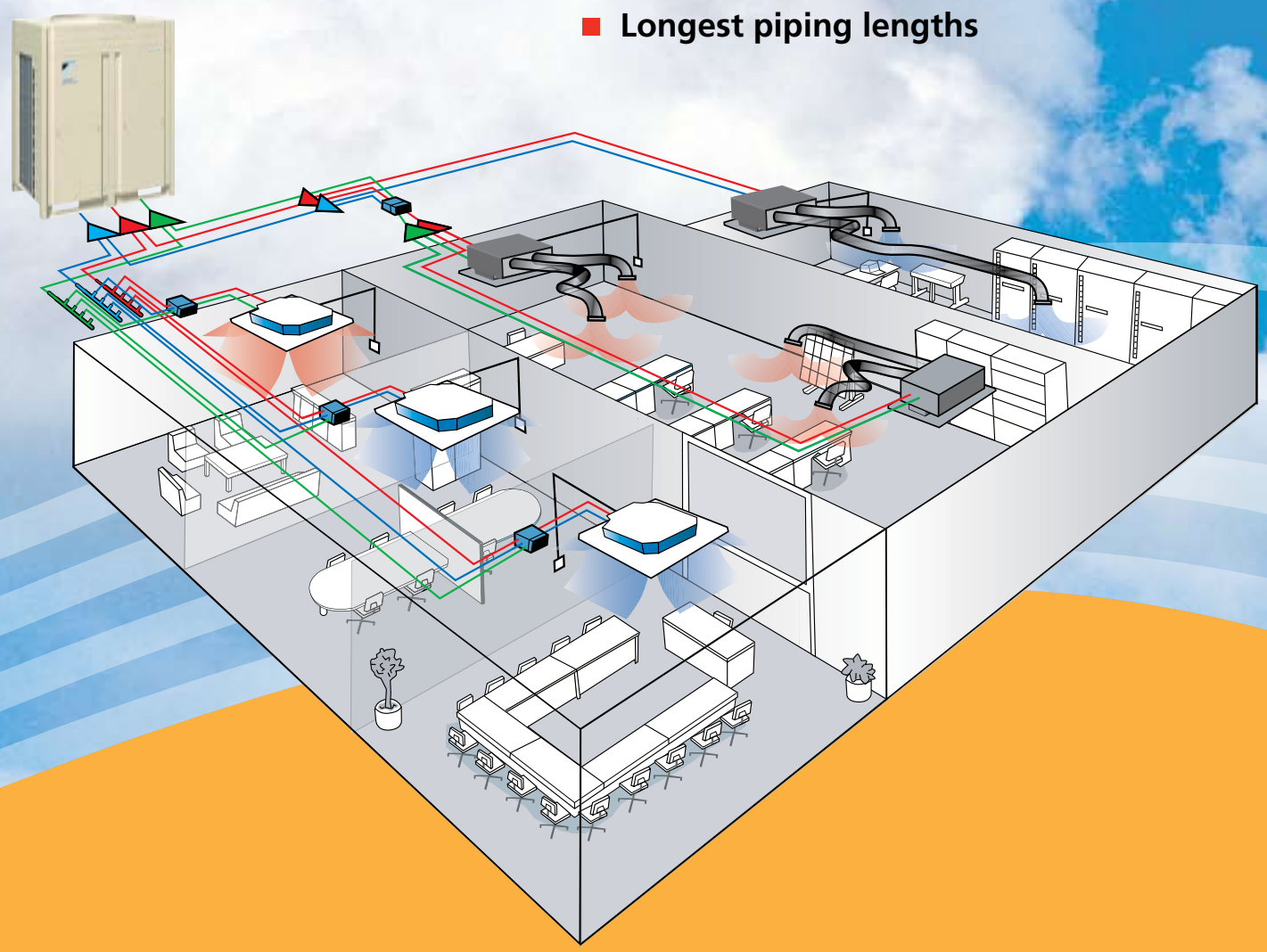


Variable Refrigerant Volume

Air-Cooled DX
Multizone System

- Three Phase
- Can operate up to 20 fan coils
- Simplicity of a DX system with outstanding flexibility and efficiency
- Longest piping lengths



- Advanced Zoning Capabilities
- Energy Efficiency
- Innovative Space-Saving Design
- Reliability
- Outstanding Warranties

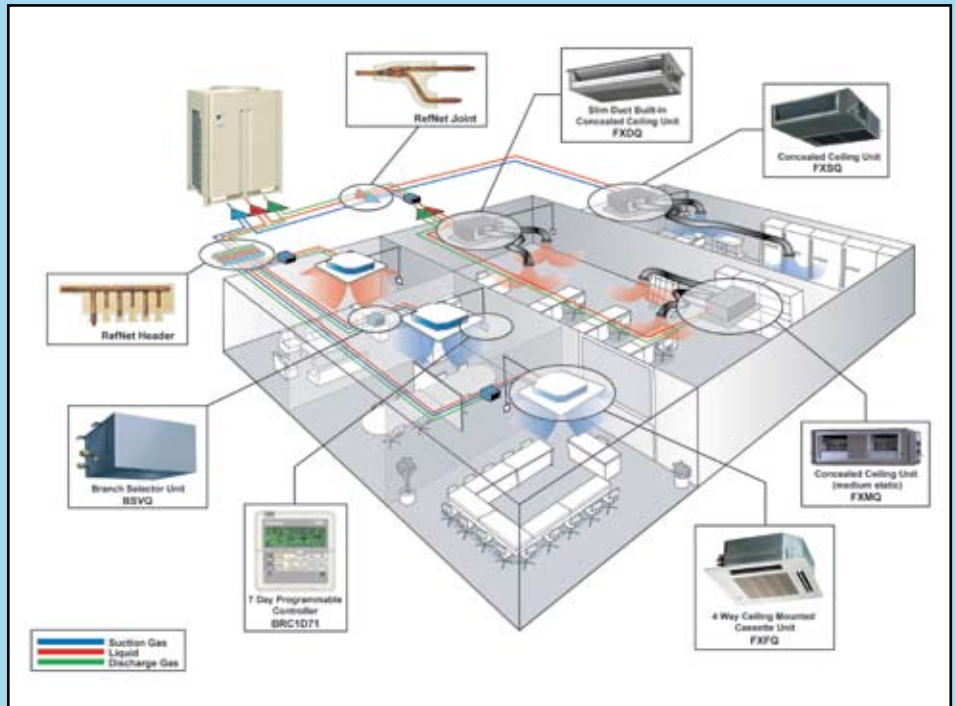
VRV. How Does It Work?

Daikin's Variable Refrigerant Volume (VRV) system changes the way you solve air conditioning problems.

At the heart of our system is a highly intelligent inverter-driven compressor. This advanced technology enables the output of the outdoor unit to be modulated by the cooling or heating demands of the zone that it controls. Available in both heat pump and heat recovery formats, this advanced system allows for individual control of up to 20 indoor units of varying capacities and types at a connection ratio of 50% - 130% (8 and 16 Ton) compared to outdoor unit capacity.

The heat recovery function is achieved by diverting exhausted heat from indoor units in cooling mode to areas requiring heating, and uses a Branch Selector (BS) unit to switch the indoor units from cooling to heating mode. The entire pipe network is also facilitated by the use of the RefNet tubing connectors, which reduces the installation time.


The VRV system keeps running costs at an absolute minimum by controlling each zone individually and being able to shut down completely in unoccupied areas.





Inverter Heat Recovery*


One system provides simultaneous cooling and heating
*Also available in Inverter Heat Pump


VRV Features & Benefits	
Choice	➤ 6, 8, 12, 14 & 16 Ton, 208 ~ 230V / 3-phase power for commercial applications.
Advanced Zoning	➤ Individual Zones of up to 20 zones from one system.
Independent Control	➤ Each fan coil has its own control from a single outdoor unit.
VFD/Capacity Control	<ul style="list-style-type: none"> ➤ Capacity is modulated automatically by varying refrigerant volume to deliver the precise amount of heating or cooling. ➤ Each zone independently controls its capacity by precise PID control to within + / - 1° F in conjunction with electronic expansion valve equipped indoor units. ➤ Variable speed compressor and fan motors on the condensing unit.
Optimized R-410A Design	➤ The industry benchmark is the world's first R-410A operated variable refrigerant volume (VRV) system and represents a considerable advance in efficiency over competitive systems.
Flexible Design	<ul style="list-style-type: none"> ➤ Continuous operation 0°F DB (-5°F WB) - 64°F DB (60°F WB) in heating mode and 23°F DB - 110°F DB in cooling mode. ➤ Long refrigerant lines, up to 1,000 feet of pipe (492 feet max. linear liquid piping length), 165 height difference. ➤ Modular units can be interconnected to make combinations of up to 16 Ton systems. ➤ 8 Ton condenser fan can be ducted with 0.25 ESP for indoor installation. ➤ Ability to interface with external heating system.
Indoor Units	<ul style="list-style-type: none"> ➤ A choice of ducted fan coils, 4-way cassette, ceiling suspended, wall mounted or floor console. ➤ Capacities from 1/2 (7MBH) to 4 (48 MBH) Ton.
Simple Wiring	➤ Daisy chain control wiring, 2 wire, non-shielded, non-polarized cable for simple installation.
Energy Efficiency	<ul style="list-style-type: none"> ➤ Energy Star rated with part load efficiency better than most conventional split systems. ➤ Superior heating capability with operation as low as -5°F WB (0°F DB).
Outside Air	➤ Outside air capability with ducted fan coils and ductless cassette units.
Space Saving	➤ 6 & 8 Ton unit with a 4' x 2-1/2' footprint. Modular cabinet enables multiple installations with limited space consumed.
Advanced Diagnostics	➤ The advanced, self-diagnostic, auto-check function will detect a malfunction and immediately display the type and location so it can be resolved quickly and effectively.
LCD Remote Control	➤ Controls up to 16 zones and provides a host of operational functions.
Quiet	➤ Indoor and outdoor units offer quiet operation. FXFQ indoor unit has a sound pressure level as low as 28dB(A).


			0.5 Ton	0.75 Ton	1.0 Ton	1.5 Ton	2.0 Ton	2.5 Ton	3.0 Ton	4.0 Ton
INDOOR UNITS - FXSQ Concealed Ceiling Unit (208 - 230V / 1Ph / 60Hz)										
	Model			FXSQ09MVJU	FXSQ12MVJU	FXSQ18MVJU	FXSQ24MVJU	FXSQ30MVJU	FXSQ36MVJU	FXSQ48MVJU
	Cooling Capacity	Btu/h			12,000	18,000	24,000	30,000	36,000	48,000
	Heating Capacity	Btu/h			13,500	20,000	27,000	34,000	40,000	54,000
	Sound Pressure Level	dB(A) H/L			41/35 ¹	44/38 ¹	44/38 ¹	45/39 ¹	45/39 ¹	48/43 ¹
	Airflow H/L	cfm			340/230	530/390	740/490	950/720	990/740	1300/950
	Weight	lbs.			69	73	95	119	119	122
	Dimensions (H x W x D)	in.			11 7/8 x 21 5/8 x 31 1/2	11 7/8 x 27 1/2 x 31 1/2	11 7/8 x 39 3/8 x 31 1/2	11 7/8 x 55 1/8 x 31 1/2	11 7/8 x 55 1/8 x 31 1/2	11 7/8 x 55 1/8 x 31 1/2
	Contact Daikin for further details									


INDOOR UNITS - FXMQ Concealed Ceiling Unit (medium static) (208 - 230V / 1Ph / 60Hz)										
	Model							FXMQ30MVJU	FXMQ36MVJU	FXMQ48MVJU
	Cooling Capacity	Btu/h						30,000	36,000	48,000
	Heating Capacity	Btu/h						34,000	40,000	54,000
	Sound Pressure Level	dB(A) H/L						45/41 ²	45/41 ²	48/45 ²
	Airflow H/L	cfm						690/565	1020/810	1270/1020
	Weight	lbs.						99	139	144
	Dimensions (H x W x D)	in.						15 3/8 x 28 3/8 x 27 1/8	15 3/8 x 43 3/4 x 27 1/8	15 3/8 x 43 3/4 x 27 1/8
	Contact Daikin for further details									


INDOOR UNITS - FXFQ 4 Way Ceiling Mounted Cassette Unit (208 - 230V / 1Ph / 60Hz)										
	Model		FXFQ07MVJU	FXFQ09MVJU	FXFQ12MVJU	FXFQ18MVJU	FXFQ24MVJU	FXFQ30MVJU	FXFQ36MVJU	
	Cooling Capacity	Btu/h			12,000	18,000	24,000	30,000	36,000	
	Heating Capacity	Btu/h			13,500	20,000	27,000	34,000	40,000	
	Sound Pressure Level	dB(A) H/L			31/28 ²	33/28 ²	34/29 ²	38/32 ²	40/33 ²	
	Airflow H/L	cfm			460/350	570/390	670/490	990/710	990/740	
	Weight	lbs.			55	55	55	66	66	
	Unit Dimensions (H x W x D)	in.			9 1/8 x 33 1/8 x 33 1/8	9 1/8 x 33 1/8 x 33 1/8	9 1/8 x 33 1/8 x 33 1/8	11 3/8 x 33 1/8 x 33 1/8	11 3/8 x 33 1/8 x 33 1/8	
	Panel Dimensions (H x W x D)	in.			1 5/8 x 37 3/8 x 37 3/8	1 5/8 x 37 3/8 x 37 3/8	1 5/8 x 37 3/8 x 37 3/8	1 5/8 x 37 3/8 x 37 3/8	1 5/8 x 37 3/8 x 37 3/8	


INDOOR UNITS - FXAQ Wall Mounted Unit (208 - 230V / 1Ph / 60Hz)										
	Model		FXAQ07MVJU	FXAQ09MVJU	FXAQ12MVJU	FXAQ18MVJU	FXAQ24MVJU			
	Cooling Capacity	Btu/h	7,500	9,500	12,000	18,000	24,000			
	Heating Capacity	Btu/h	8,500	10,500	13,500	20,000	27,000			
	Sound Pressure Level	dB(A) H/L	36/31 ³	37/31 ³	38/31 ³	43/37 ³	47/40 ³			
	Airflow H/L	cfm	265/160	285/175	300/180	500/400	635/470			
	Weight	lbs.	25	25	25	31	31			
	Dimensions (H x W x D)	in.	11 3/8 x 31 1/4 x 9	11 3/8 x 31 1/4 x 9	11 3/8 x 31 1/4 x 9	11 3/8 x 41 3/8 x 9	11 3/8 x 41 3/8 x 9			
	Contact Daikin for further details									


INDOOR UNITS - FXLQ Floor Console Unit (208 - 230V / 1Ph / 60Hz)										
	Model				FXLQ12MVJU	FXLQ18MVJU	FXLQ24MVJU			
	Cooling Capacity	Btu/h			12,000	18,000	24,000			
	Heating Capacity	Btu/h			13,500	20,000	27,000			
	Sound Pressure Level	dB(A) H/L			36/33 ⁴	40/35 ⁴	41/36 ⁴			
	Airflow H/L	cfm			280/210	490/380	560/420			
	Weight	lbs.			66	80	80			
	Dimensions (H x W x D)	in.			23 5/8 x 44 7/8 x 8 3/4	23 5/8 x 55 7/8 x 8 3/4	23 5/8 x 55 7/8 x 8 3/4			
	Contact Daikin for further details									







INDOOR UNITS - FXNQ Concealed Floor Console Unit (208 - 230V / 1Ph / 60Hz)										
	Model				FXNQ12MVJU	FXNQ18MVJU	FXNQ24MVJU			
	Cooling Capacity	Btu/h			12,000	18,000	24,000			
	Heating Capacity	Btu/h			13,500	20,000	27,000			
	Sound Pressure Level	dB(A) H/L			36/33 ⁴	40/35 ⁴	41/36 ⁴			
	Airflow H/L	cfm			280/210	490/380	560/420			
	Weight	lbs.			51	59	59			
	Dimensions (H x W x D)	in.			24 x 42 1/8 x 8 5/8	24 x 53 1/8 x 8 5/8	24 x 53 1/8 x 8 5/8			
	Contact Daikin for further details									

INDOOR UNITS - FXHQ Ceiling Suspended Cassette Unit (208 - 230V / 1Ph / 60Hz)										
	Model				FXHQ12MVJU		FXHQ24MVJU		FXHQ36MVJU	
	Cooling Capacity	Btu/h			12,000		24,000		36,000	
	Heating Capacity	Btu/h			13,500		27,000		40,000	
	Sound Pressure Level	dB(A) H/L			38/33 ³		44/36 ³		46/41 ³	
	Airflow H/L	cfm			410/340		710/600		830/670	
	Weight	lbs.			55		80		90	
	Dimensions (H x W x D)	in.			7 11/16 x 37 13/16 x 26 3/4		7 11/16 x 55 1/8 x 26 3/4		7 11/16 x 62 5/8 x 26 3/4	
	Contact Daikin for further details									

INDOOR UNITS - FXDQ Slim Duct Built-In Concealed Ceiling Unit (208 - 230V / 1Ph / 60Hz)										
	Model		FXDQ07MVJU	FXDQ09MVJU	FXDQ12MVJU	FXDQ18MVJU	FXDQ24MVJU			
	Cooling Capacity	Btu/h	7,500	9,500	12,000	18,000	24,000			
	Heating Capacity	Btu/h	8,500	10,500	13,500	20,000	27,000			
	Sound Pressure Level	dB(A) H/L	33/29 ²	33/29 ²	33/29 ²	35/31 ²	36/32 ²			
	Airflow H/L	cfm	280/226	280/226	280/226	440/350	580/460			
	Weight	lbs.	49	49	49	68	75			
	Dimensions (H x W x D)	in.	7 7/8 x 27 9/16 x 24 7/16	7 7/8 x 27 9 1/16 x 24 7/16	7 7/8 x 27 9 1/16 x 24 7/16	7 7/8 x 35 7/16 x 24 7/16	7 7/8 x 43 5/16 x 24 7/16			
	Contact Daikin for further details									

OUTDOOR UNITS - Heat Pump											
		6.0 Ton	8.0 Ton	12.0 Ton	14.0 Ton	16.0 Ton					
	Model	RXYQ72MTJU	RXYQ96MTJU	RXYQ144MTJU	RXYQ168MTJU	RXYQ192MTJU					
	Cooling Capacity	Btu/h	72,000	96,000	144,000	168,000	192,000				
	Cooling Input Power	kW	5.7	8.67	11.4	14.4	17.3				
	Heating Capacity	Btu/h	80,000	108,000	160,000	188,000	216,000				
	Heating Input Power	kW (Btu/h)	6.6 (22,519)	9.19 (31,356)	13.2 (45,038)	15.8 (53,910)	18.4 (62,781)				
	Operating Range - Cooling	°F DB	23 - 110	23 - 110	23 - 110	23 - 110	23 - 110				
	Operating Range - Heating	°F DB/°F WB	0 - 64/-5 - 60	0 - 64/-5 - 60	0 - 64/-5 - 60	0 - 64/-5 - 60	0 - 64/-5 - 60				
	Power	V/Ph/Hz	208-230/3/60	208-230/3/60	208-230/3/60	208-230/3/60	208-230/3/60				
	Sound Pressure Level @3ft	dB(A)	60	60	63	63	63				
	Airflow H/L	cfm	7,400	7,400	7,400 + 7,400	7,400 + 7,400	7,400 + 7,400				
	Vertical Pipe Length	ft.	164	164	164	164	164				
	Actual Pipe Length	ft.	492	492	492	492	492				
	Equivalent Pipe Length	ft.	575	575	575	575	575				
	Total Pipe Length	ft.	1,000	1,000	1,000	1,000	1,000				
	Weight	lbs.	666	666	666 + 666	666 + 666	666 + 666				
Dimensions (H x W x D)	in.	64 x 48 7/8 x 30 1/8	64 x 48 7/8 x 30 1/8	64 x 48 7/8 (x2) x 30 1/8	64 x 48 7/8 (x2) x 30 1/8	64 x 48 7/8 (x2) x 30 1/8					

OUTDOOR UNITS - Heat Recovery										
		6.0 Ton	8.0 Ton	12.0 Ton	14.0 Ton	16.0 Ton	Branch Selector	Up to 3.0 Ton	Up to 5.0 Ton	
	Model	REYQ72MTJU	REYQ96MTJU	REYQ144MTJU	REYQ168MTJU	REYQ192MTJU				
	Cooling Capacity	Btu/h	72,000	96,000	144,000	168,000	192,000			
	Cooling Input Power	kW	5.7	8.67	11.4	14.4	17.3			
	Heating Capacity	Btu/h	80,000	108,000	160,000	188,000	216,000			
	Heating Input Power	kW (Btu/h)	6.6 (22,519)	9.19 (31,356)	13.2 (45,038)	15.8 (53,910)	18.4 (62,781)			
	Operating Range - Cooling	°F DB	23 - 110	23 - 110	23 - 110	23 - 110	23 - 110			
	Operating Range - Heating	°F DB/°F WB	0 - 64/-5 - 60	0 - 64/-5 - 60	0 - 64/-5 - 60	0 - 64/-5 - 60	0 - 64/-5 - 60			
	Power	V/Ph/Hz	208-230/3/60	208-230/3/60	208-230/3/60	208-230/3/60	208-230/3/60			
	Sound Pressure Level @3ft	dB(A)	60	60	63	63	63			
	Airflow H/L	cfm	7,400	7,400	7,400 + 7,400	7,400 + 7,400	7,400 + 7,400			
	Vertical Pipe Length	ft.	164	164	164	164	164			
	Actual Pipe Length	ft.	492	492	492	492	492			
	Equivalent Pipe Length	ft.	575	575	575	575	575			
	Total Pipe Length	ft.	1,000	1,000	1,000	1,000	1,000			
	Weight	lbs.	666	666	666 + 666	666 + 666	666 + 666			
Dimensions (H x W x D)	in.	64 x 48 7/8 x 30 1/8	64 x 48 7/8 x 30 1/8	64 x 48 7/8 (x2) x 30 1/8	64 x 48 7/8 (x2) x 30 1/8	64 x 48 7/8 (x2) x 30 1/8				
Notes:		1 at 5 ft below bottom suction grill of unit		2 at 5 ft below the unit		3 at 3.3 ft below and from the unit		4 measured at 5 ft away, 5 ft high		

		Individual Zone Controllers			Multi-Zone Controllers		Time Clock Controllers
		7-Day Programmable Wired R/C BRC1D71	Simplified Wired R/C BRC2A71	Wireless R/C BRC7C812 BRC7E83 BRC4C82 BRC7E818	Unified On/Off R/C DSC301C71	Centralized R/C DSC302C71	Schedule DST301B61
Model							
No. of Units Controllable		← 1 Group/16 Units →			16 Groups	64 Groups	128 Groups
Operation	Start/Stop	✓	✓	✓	✓	✓	✓
	Operate Mode	✓	✓	✓		✓	
	Temperature Setting	✓	✓	✓		✓	
	Set-Point Range	60°-90°F	60°-90°F	60°-90°F		60°-90°F	
	Permit/Prohibit Selection	✓			✓	✓	✓
	Fan Speed	✓	✓	✓		✓	
	Airflow Direction	✓	✓	✓		✓	
Monitoring	Status	✓	✓	✓	✓	✓	✓
	Malfunction Flashing	✓	✓	✓	✓	✓	
	Malfunction Content	✓	✓	✓		✓	
	Filter Sign	✓				✓	
	Operation Mode	✓	✓	✓		✓	
	Temperature Setting	✓	✓	✓		✓	
	Permit/Prohibit Selection	✓	✓		✓		
	Fan Speed	✓	✓	✓		✓	
Airflow Direction	✓		✓		✓		
Scheduling	Weekly						✓
	Timed Starts/Stops Per Day						2
	No. of Weekly Schedules					8	
	Auto ON/OFF Timer	✓		✓			
Data	Error History					✓	
Control Management	Field Setting Mode	✓	✓	✓		✓	
	Group Setting	✓	✓	✓	✓	✓	✓
	7-Day Time Clock	✓					✓
	5-Temperature Setpoints Per Day	✓					
	Minimum Night Setting	✓					
	Maximum Day Setting	✓					
	Night Set-Back Function	✓					
	Home Leave Function	✓					
	Auto Restart	✓	✓			✓	✓

LONWORKS® NETWORKS COMPATIBLE GATEWAY

- Interface for connection to LONWORKS® networks
- Communication via LON® protocol (twisted pair wire)
- 64 units connectable per DMS-IF
- Unlimited site size
- Quick, easy installation



INTEGRATED CONTROL SYSTEM CONNECTING VRV SYSTEM WITH BMS SYSTEM

- Interface for BMS system
- Communication via BACnet® protocol (connection via ethernet)
- 256 units connectable per BACnet® gateway
- Unlimited site size
- Quick, easy installation



touch intelligent Controller



- 64 groups (128 indoor units) connectable
- Management of AC units, facilities, and ancillary equipment
- Touch screen display
- Built-in Ethernet port, Web enabled (optional)



Daikin's products are subject to continuous improvements. Daikin reserves the right to modify product design, specifications and information in this brochure without notice and without incurring any obligations.



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