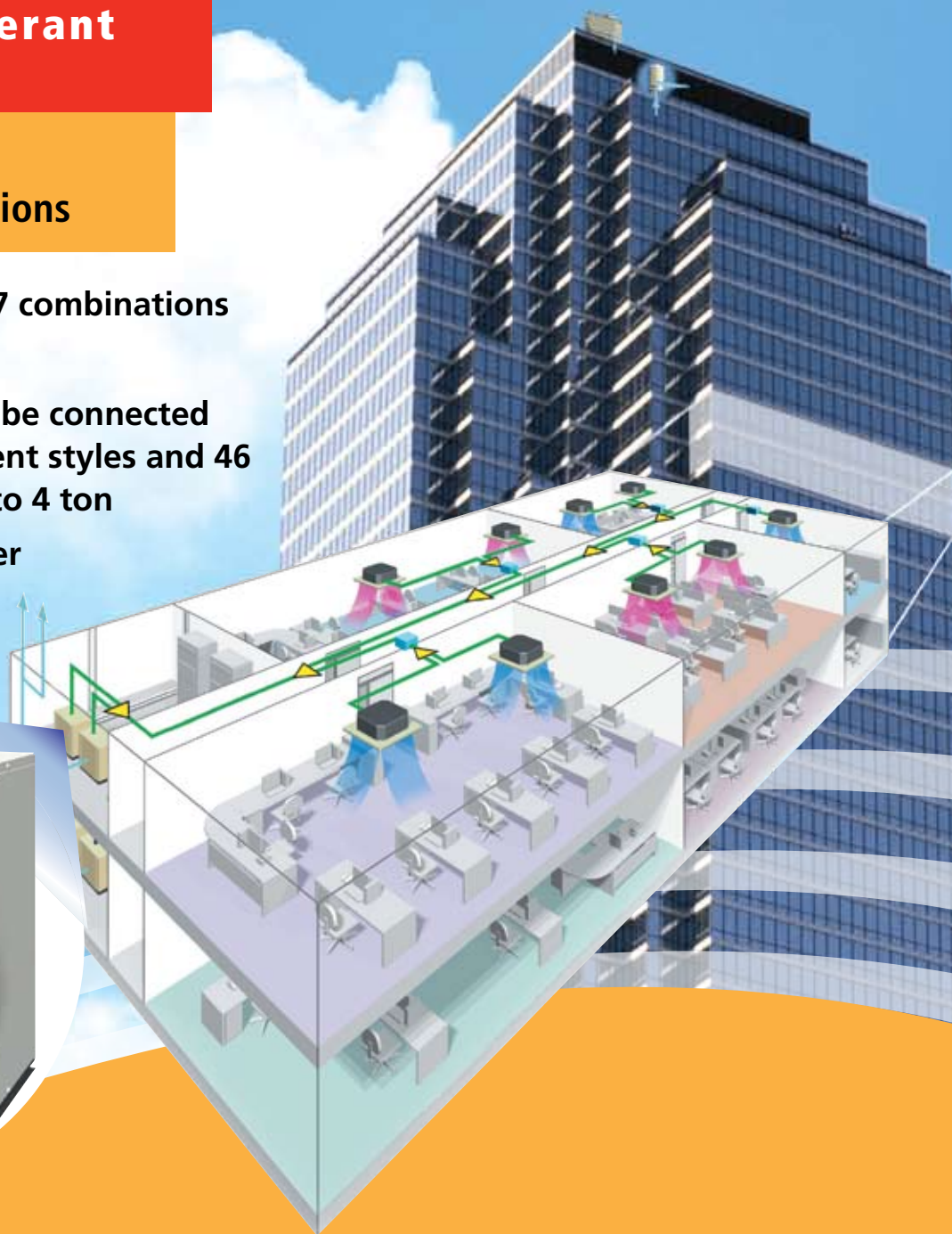


Variable Refrigerant Volume

Water Cooled
Commercial Applications

- Available up to 21 ton in 7 combinations
- Individual zone control
- Up to 32 indoor units can be connected with a choice of 10 different styles and 46 models ranging from 0.5 to 4 ton
- Connect to a cooling tower (closed loop) and boiler system

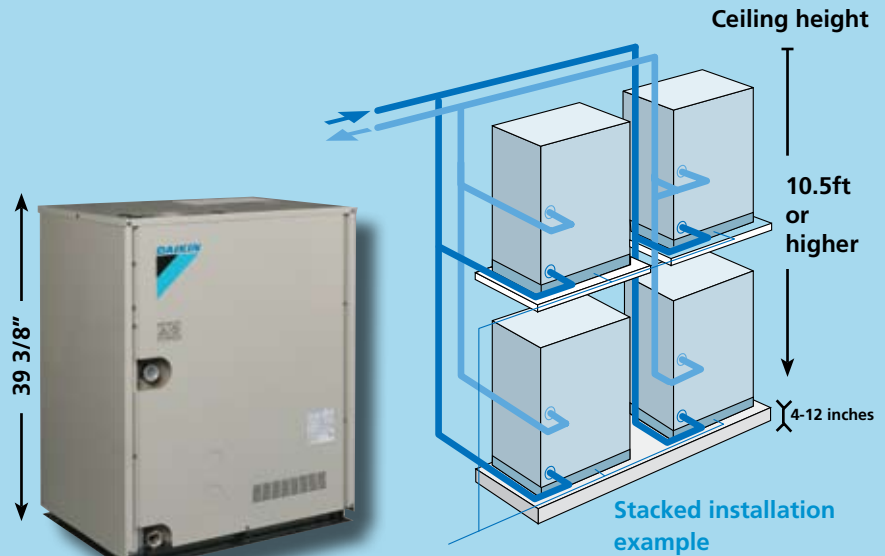


- Unified heat recovery or heat pump condensing units
- Cold climate capability delivering comfortable heating performance with no defrost
- Long refrigerant piping length
- Fully integrated control suite

Water Cooled VRV - The Next Generation of VRV

Daikin's water cooled VRV[®] offers an energy saving alternative to traditional centralized equipment. Its remarkable compact and lightweight structure makes installation of VRV technology in large buildings possible. At only 330 lbs. and less than 40" high, the VRV[®]-WII can take a ride up the elevator to be installed in a machine room. Offering state of the art comfort for hotels, offices and large commercial applications, the engineer solution toolbox just got bigger.

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.



VRV-WII Features & Benefits	
Choice	<ul style="list-style-type: none"> ➤ 5, 6, 7, 12, 14, 18 and 21 ton, 208 ~ 230V / 3-phase power for commercial applications. ➤ Unified heat pump or heat recovery (simultaneous operation) condensing unit.
Advanced Zoning	<ul style="list-style-type: none"> ➤ 7 combinations of condensing unit, up to 21-ton serving up to 32 indoor units.
Independent Control	<ul style="list-style-type: none"> ➤ Each fan coil has its own control from a single condensing 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. ➤ Indoor units use an Electronic Expansion Valve (EEV) to control the cooling or heating performance, with PID logic taking priority when the room temperature to set-point is +/-3 °F, to deliver a comfortable temperature condition.
Optimized R-410A Design	<ul style="list-style-type: none"> ➤ The industry benchmark is the world's first R-410A operated Water Cooled variable refrigerant volume (VRV-WII) system and represents a considerable technological advances over comparable systems.
Flexible Design	<ul style="list-style-type: none"> ➤ Continuous operation allows for cold climate capability delivering comfortable heating performance with no defrost. ➤ Long refrigerant lines, up to 980 feet of pipe (390 feet max. linear liquid piping length), 164 feet height difference. ➤ The System (Braze Plate Heat Exchanger) can tolerate water pressure up to 285 psi (or 640 ft. of Head). ➤ Optimum water flow rates per module of 16 gpm or greater (operable range 13.2 ~ 39.5 gpm). ➤ Modular units can be interconnected to make combinations of up to 21 tons systems. ➤ Operates with closed loop cooling tower, dry cooler and boiler solutions. ➤ System diversity up to 130% connectivity of nominal capacity.
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 0.6 (7 MBH) to 4 (48 MBH) Ton.
Simple Wiring	<ul style="list-style-type: none"> ➤ Daisy chain control wiring, 2 wire, non-shielded, non-polarized cable for simple installation.
Energy Efficiency	<ul style="list-style-type: none"> ➤ VFD Inverter Scroll Compressor & Fan Coil Unit EEV Technology helps boost operational efficiency levels.
Outside Air	<ul style="list-style-type: none"> ➤ Outside air capability with ducted fan coils and ductless cassette units.
Space Saving	<ul style="list-style-type: none"> ➤ Compact size, 39-3/8" in height, 30-3/4" wide and just 330lbs. Modular cabinet enables stacked multiple installation.
Advanced Diagnostics	<ul style="list-style-type: none"> ➤ 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.
Advanced Controls	<ul style="list-style-type: none"> ➤ Zone LCD Remote Controller for up to 16 zones and provides a host of operational functions, including 7-Day Programmability. ➤ Connects to the full suite of advanced Daikin Control Solutions including I-Touch Controller and I-Manager. ➤ Can be intergrated to Open Protocol Building Management Systems via the Daikin BACnet and LONworks Gateways.
Quiet	<ul style="list-style-type: none"> ➤ Indoor and condensing units offer quiet operation. FXFQ indoor unit has a sound pressure level as low as 28dB(A) and the RWEYQ condensing unit as low as 50dB(A).

A wide variety of ducted and duct-free indoor fan coil units

			0.6 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)											
 <p>Condensate Pump Standard</p>	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 H/L	dB(A)			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			
					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 H/L	dB(A)						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			
INDOOR UNITS - FXDQ Slim Duct Built-In Concealed Ceiling Unit (208 - 230V / 1Ph / 60Hz)											
 <p>Condensate Pump Standard</p>	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 H/L	dB(A)	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.	51	51	51	63	71				
	Dimensions (H x W x D)	in.	7 7/8 x 27 9/16 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					
INDOOR UNITS - FXOQ Vertical Air Handling Unit (FXOQ42MVJU model also available) (208 V / 1Ph / 60Hz)											
 <p>The FXOQ + BEQ unit cannot be installed on the same system as that containing Indoor Units from another VRV Indoor Unit family</p>	Model				FXOQ12MVJU	FXOQ18MVJU	FXOQ24MVJU	FXOQ30MVJU	FXOQ36MVJU	FXOQ48MVJU	
	Cooling Capacity	Btu/h			12,000	18,000	24,000	30,000	36,000	48,000	
	Heating Capacity	Btu/h			12,000	18,000	24,000	30,000	40,000	54,000	
	Sound Pressure Level H/L	dB(A)			N/A	N/A	N/A	N/A	N/A	N/A	
	Airflow H/L	cfm			400	600	800	1000	1200	1600	
	Weight	lbs.			120	120	120	140	210	210	
	Dimensions (H x W x D)	in.			44 x 22 x 15	44 x 22 x 15	44 x 22 x 15	48 x 22 x 18.5	49 x 26 x 20	49 x 26 x 20	
	BEQ box model				BEQ12MVJLR1	BEQ18MVJLR1	BEQ24MVJLR1	BEQ30MVJLR1	BEQ36MVJLR1	BEQ48MVJLR1	
INDOOR UNITS - FXFQ 4 Way Ceiling Mounted Cassette Unit (3'x3') (208 - 230V / 1Ph / 60Hz)											
 <p>Condensate Pump Standard</p>	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 H/L	dB(A)			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 (panel weight)	lbs.			55 (11)	55 (11)	55 (11)	66 (11)	66 (11)		
	Unit Dimensions (H x W x D)	in.			9 1/8 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						
INDOOR UNITS - FXZQ 4 Way Ceiling Mounted Cassette Unit (2'x2') (208 - 230V / 1Ph / 60Hz)											
 <p>Condensate Pump Standard</p>	Model		FXZQ07M7VJU	FXZQ09M7VJU	FXZQ12M7VJU	FXZQ18M7VJU					
	Cooling Capacity	Btu/h	7,500	9,500	12,000	18,000					
	Heating Capacity	Btu/h	8,700	11,100	14,000	21,000					
	Sound Pressure Level H/L	dB(A)	31/29 ²	31/29 ²	33/29 ²	41/34 ²					
	Airflow H/L	cfm	320/247	320/247	335/265	495/353					
	Weight	lbs.	42	42	42	42					
	Dimensions (H x W x D)	in.	11 1/4 x 22 5/8 x 22 5/8								
	Panel Dimensions (H x W x D)	in.	2 5/32 x 27 9/16 x 27 9/16								
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 H/L	dB(A)			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		
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 H/L	dB(A)	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 41 3/8 x 9					
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 H/L	dB(A)			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					
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 H/L	dB(A)			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					
Branch Selector - BSVQ (For use with RWEYQ - MTJU)											
	Model		BSVQ36MVJU	BSVQ60MVJU							
	Power Supply		1 phase 208-230V 60Hz								
	Dimensions (H x W x D)	in.	7 1/4 x 12 1/4 x 11								
	Weight	lbs.	18								
	Piping Connections	Indoor Unit	Liquid in.	3/8 (flare)							
			Gas in.	5/8 (flare)							
			Liquid in.	3/8 (flare)							
		Outdoor Unit	Liquid in.	3/8 (flare)							
Suction Gas in.			5/8 (flare)								
HP/LP Gas in.			1/2 (flare)								

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

(208-230V/3Ph/60Hz)

CONDENSING UNIT - Unified Heat Pump and Heat Recovery		5 Ton		6 Ton		7 Ton		12 Ton		14 Ton		18 Ton		21 Ton		
	Model Name	RWEYQ60MTJU		RWEYQ72MTJU		RWEYQ84MTJU		RWEYQ144MTJU		RWEYQ168MTJU		RWEYQ216MTJU		RWEYQ252MTJU		
	Combination							2x RWEYQ72MTJU		2x RWEYQ84MTJU		3x RWEYQ72MTJU		3x RWEYQ84MTJU		
	Cooling Capacity	Btu/h	60,000	72,000	84,000	144,000	168,000	216,000	252,000							
	Cooling Input Power	kW	3.41	4.2	5.6	8.4	11.2	12.6	16.8							
	Heating Capacity	Btu/h	67,500	81,000	94,500	162,000	189,000	243,000	283,500							
	Heating Input Power	kW (Btu/h)	3.2 (10,918)	4.0 (13,648)	5.4 (18,425)	8.0 (27,296)	10.8 (36,850)	12.0 (40,944)	16.2 (55,274)							
	Power Supply	V/Ph/Hz	208-230/3/60		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)	50		50		51		53		54		56		57	
	System Configuration		Heat Pump	Heat Recovery	Heat Pump	Heat Recovery	Heat Pump	Heat Recovery	Heat Pump	Heat Recovery	Heat Pump	Heat Recovery	Heat Pump	Heat Recovery	Heat Pump	Heat Recovery
	Liquid Pipe (Main Line)	in.	3/8	3/8	3/8	3/8	3/8	3/8	1/2	1/2	5/8	5/8	5/8	5/8	3/4	3/4
Suction Gas Pipe (Main Line)	in.	3/4	3/4	3/4	3/4	7/8	7/8	1-1/8	1-1/8	1-1/8	1-1/8	1-3/8	1-3/8	1-3/8	1-3/8	
Discharge Gas Pipe (Main Line)	in.	N/A	5/8	N/A	5/8	N/A	3/4	N/A	7/8	N/A	7/8	N/A	1-1/8	N/A	1-1/8	
Vertical Pipe Length (If unit below FCU)	ft.	164 (130)		164 (130)		164 (130)		164 (130)		164 (130)		164 (130)		164 (130)		
Actual Pipe Length (Equivalent Length)	ft.	390 (459)		390 (459)		390 (459)		390 (459)		390 (459)		390 (459)		390 (459)		
Total Pipe Length	ft.	980		980		980		980		980		980		980		
BPHE Inlet Pipe (Female Thread)	in.	1-1/4FPT		1-1/4FPT		1-1/4FPT		(1-1/4FPT)x2		(1-1/4FPT)x2		(1-1/4FPT)x3		(1-1/4FPT)x3		
BPHE Outlet Pipe (Female Thread)	in.	1-1/4FPT		1-1/4FPT		1-1/4FPT		(1-1/4FPT)x2		(1-1/4FPT)x2		(1-1/4FPT)x3		(1-1/4FPT)x3		
Drain Pipe (Female Thread)	in.	1/2FPS		1/2FPS		1/2FPS		(1/2FPS)x2		(1/2FPS)x2		(1/2FPS)x3		(1/2FPS)x3		
Max. System Water Pressure (BPHE)	psi	285		285		285		285		285		285		285		
Weight	lbs.	330		330		330		330x2		330x2		330x3		330x3		
Dimensions (H x W x D)	in.	← 39-3/8x30-3/4x21-11/16 →														

Ratings based upon:
 Cooling Operation
 85°F Inlet Water Temperature & 25.4gpm Water Volume per Module
 67°F WB Indoor Air Temperature
 Equivalent Pipe Length 25ft, level difference 0ft
 Heating Operation
 70°F Inlet Water Temperature & 25.4gpm Water Volume per Module
 70°F DB Indoor Air Temperature
 Equivalent Pipe Length 25ft, level difference 0ft

	Operating Ranges		Continuous Operating Ranges	
	Cooling	Heating	Cooling	Heating
Inlet Water Temperature (°F)	50 - 113	50 - 113	Inlet Water Temperature (°F)	60 - 113
Indoor Temperature (°FDB)	-----	50 - 80	Indoor Temperature (°FDB)	-----
Indoor Temperature (°FWB)	55 - 80	-----	Indoor Temperature (°FWB)	55 - 80

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 Timer DST301B61

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 with optional expander board
- Unlimited site size
- Quick, easy installation



Intelligent Manager III



- 200 groups (1,024 groups) connectable
- Management of AC units, facilities, and ancillary equipment
- Operation on 1 master PC and 1 sub PC
- Remote monitoring via the web

Intelligent Touch 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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