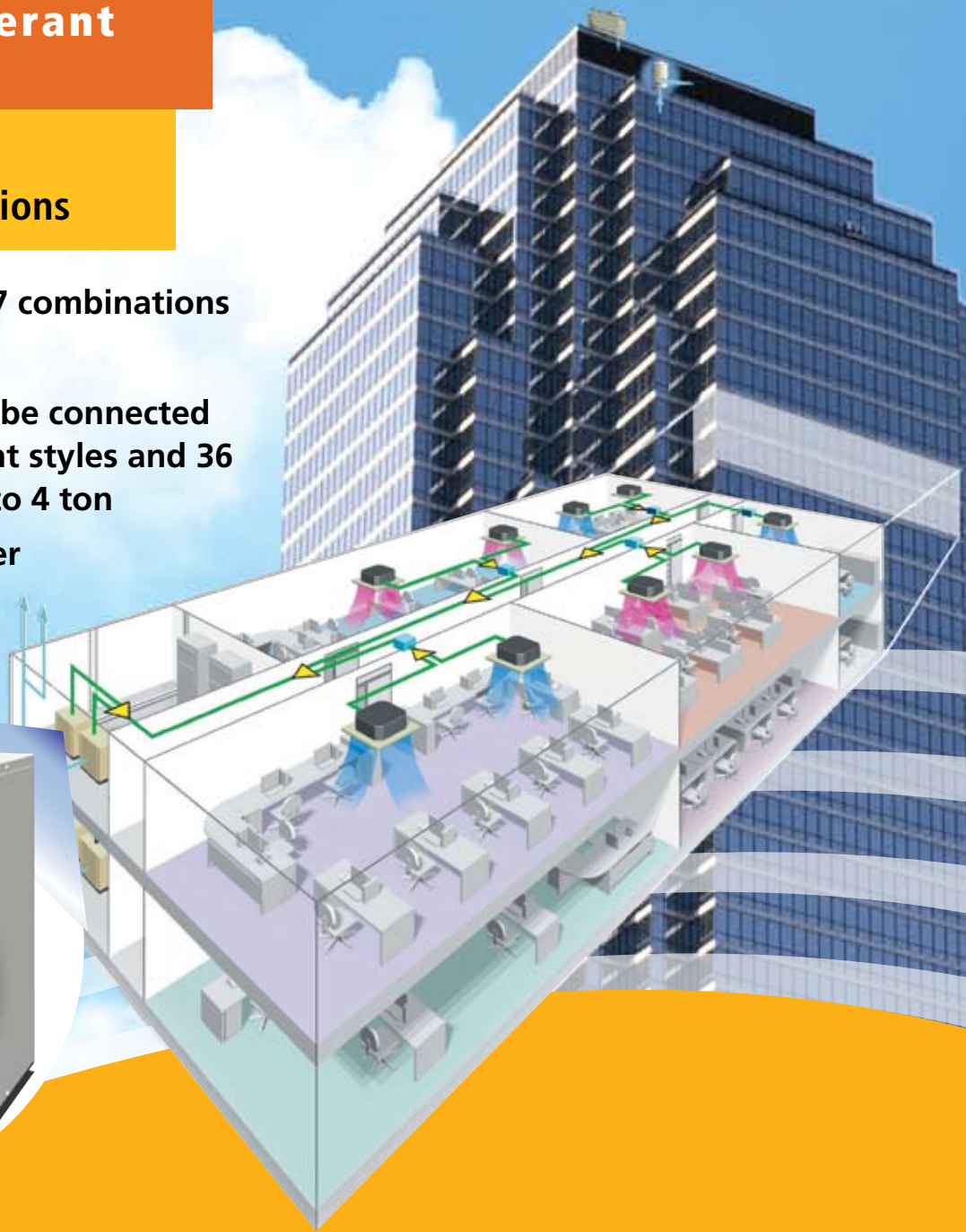


Variable Refrigerant Volume

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 8 different styles and 36 models ranging from 0.5 to 4 ton
- Connect to a cooling tower (closed loop) and boiler system



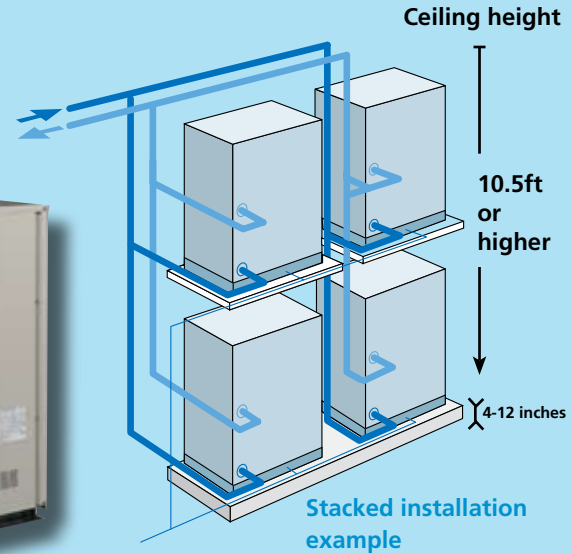
- Unified heat recovery or heat pump condensing units
- Stacked installation possible
- Cold climate capability delivering comfortable heating performance with no defrost
- 2-stage heat recovery operation substantially improving energy efficiency
- Long refrigerant piping length
- Quiet operation
- Fully 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.




Inverter Heat Recovery*


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


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) outdoor 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 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	<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 Water Pressure Resistance of the condensing unit BPHE is 285 psi (640 ft. of head). Optimum water flow rates of 16 gpm or greater (operable range 13.2 ~ 39.6 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 1/2 (7MBH) 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. 2-stage heat recovery operation substantially improving energy efficiency.
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 outdoor 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).


		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	Contact Daikin for further details	Contact Daikin for further details	Contact Daikin for further details	Contact Daikin for further details	Contact Daikin for further details


		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 - 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	Contact Daikin for further details	Contact Daikin for further details	Contact Daikin for further details	Contact Daikin for further details	Contact Daikin for further details

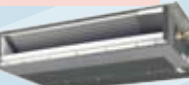
		0.5 Ton	0.75 Ton	1.0 Ton	1.5 Ton	2.0 Ton	2.5 Ton	3.0 Ton	4.0 Ton
INDOOR UNITS - FXFQ 4 Way Ceiling Mounted Cassette Unit (208 - 230V / 1Ph / 60Hz)									
	Model		FXFQ07MVJU	FXFQ09MVJU	FXFQ12MVJU	FXFQ18MVJU	FXFQ24MVJU	FXFQ30MVJU	FXFQ36MVJU
	Cooling Capacity	Btu/h			12,000	18,000	24,000	30,000	36,000
	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


		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 - 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	Contact Daikin for further details	Contact Daikin for further details	Contact Daikin for further details	Contact Daikin for further details	Contact Daikin for further details

		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 - 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	Contact Daikin for further details	Contact Daikin for further details	Contact Daikin for further details	Contact Daikin for further details	Contact Daikin for further details







		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 - 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	Contact Daikin for further details	Contact Daikin for further details	Contact Daikin for further details	Contact Daikin for further details	Contact Daikin for further details

		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 - 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	Contact Daikin for further details	Contact Daikin for further details	Contact Daikin for further details	Contact Daikin for further details	Contact Daikin for further details

		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 - 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 9/16 x 24 7/16	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		
				Contact Daikin for further details	Contact Daikin for further details	Contact Daikin for further details	Contact Daikin for further details	Contact Daikin for further details	Contact Daikin for further details

		5 Ton		6 Ton		7 Ton		12 Ton		14 Ton		18 Ton		21 Ton		
OUTDOOR UNIT - Unified Heat Pump and Heat Recovery																
 Refrigerant Side Water side	Model	Name		RWEYQ60MTJU	RWEYQ72MTJU	RWEYQ84MTJU	RWEYQ144MTJU	RWEYQ168MTJU	RWEYQ216MTJU	RWEYQ252MTJU						
	Performance	Combination			208-230/3/60	208-230/3/60	208-230/3/60	208-230/3/60	2x RWEYQ216MTJU	2x RWEYQ84MTJU	3x RWEYQ216MTJU	3x RWEYQ84MTJU				
		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	208-230/3/60	208-230/3/60	208-230/3/60	208-230/3/60	208-230/3/60	208-230/3/60
		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		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)					
	Refrigerant Side	Sound Pressure Level @3ft	dB(A)		50	50	51	53	54	56	57					
		Liquid Pipe	inch		3/8	3/8	3/8	1/2	5/8	5/8	3/4					
		Suction Gas Pipe	inch		3/4	3/4	7/8	1-1/8	1-1/8	1-1/8	1-1/4					
		Discharge Gas Pipe	inch		5/8	5/8	3/4	7/8	7/8	1	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)	164 (130)				
		Actual Pipe Length (Equivalent Length)	ft.		390 (459)	390 (459)	390 (459)	390 (459)	390 (459)	390 (459)	390 (459)	390 (459)				
	Water Side	Total Pipe Length	ft.		980	980	980	980	980	980	980					
		BPHE Inlet Pipe (Female Thread)	inch		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)	inch		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)		inch		1/2FPS	1/2FPS	1/2FPS	(1/2FPS)x2	(1/2FPS)x2	(1/2FPS)x3	(1/2FPS)x3						
BPHE Water Pressure Resistance		psi		285	285	285	285	285	285	285						
Weight		lbs		330	330	330	330x2	330x2	330x3	330x3						
Dimensions (H x W x D)		inch		← 39-3/8x30-3/4x21-11/16 →				← (39-3/8x30-3/4x21-11/16)x2 →		← (39-3/8x30-3/4x21-11/16)x3 →						

Ratings based upon:		Operating Ranges		Continuous Operating Ranges		(For use with RWEYQ-Heat Recovery Configurations)		
Cooling Operation	85°F Inlet Water Temperature & 25.4gpm Water Volume	Cooling	Heating	Cooling	Heating	Model	BSVQ36MVJU	
Heating Operation	67°F WB Indoor Air Temperature	50 ~ 112	50 ~ 112	60 ~ 112	60 ~ 112	Connection Capacity	60,000 Btu/h	
	Equivalent Pipe Length 25ft, level difference 0ft	Inlet Water Temperature (°F)	Inlet Water Temperature (°F)	Inlet Water Temperature (°F)	Inlet Water Temperature (°F)	Pipe Work Connections	Outdoor Unit Side	
	70°F Inlet Water Temperature & 25.4gpm Water Volume	Indoor Temperature (°FDB)	Indoor Temperature (°FDB)	Indoor Temperature (°FDB)	Indoor Temperature (°FDB)		5/8" Flare (Suction Gas)	5/8" Flare (Suction Gas)
	70°F DB Indoor Air Temperature	55 ~ 80	55 ~ 80	55 ~ 80	55 ~ 80		3/8" Flare (Liquid)	3/8" Flare (Liquid)
	Equivalent Pipe Length 25ft, level difference 0ft	Indoor Temperature (°FWB)	Indoor Temperature (°FWB)	Indoor Temperature (°FWB)	Indoor Temperature (°FWB)	Weight (lbs)	18	
		55 ~ 80	55 ~ 80	55 ~ 80	55 ~ 80	Dimensions (H x W x D)	7 1/4 x 12 1/4 x 11	

		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.



Daikin AC (Americas), Inc.
1645 Wallace Drive, Suite 110
Carrollton, TX 75006

Tel: 866-4DAIKIN
Visit us at www.daikinac.com