REYQ-T

VRV IV heat recovery

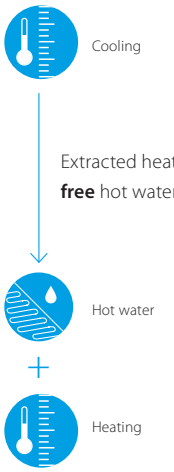
Best efficiency & comfort solution

- Fully integrated solution with heat recovery for maximum efficiency with COPs of up to 8 !
- Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, hot water, air handling units and Biddle air curtains
- „Free" heating and hot water production provided by transferring heat from areas requiring cooling to areas requiring heating or hot water
- The perfect personal comfort for guests/tenants via simultaneous cooling and heating
- Incorporates VRV IV standards & technologies: Variable Refrigerant Temperature, continuous heating, VRV configurator, 7 segment display and full inverter compressors, 4-side heat exchanger, refrigerant cooled PCB, new DC fan motor
- Free combination of outdoor units to meet installation space or efficiency requirements
- Possibility to extend the operation range in cooling down to -20°C for technical cooling operation such as server rooms
- Contains all standard VRV features

Outdoor system				REYQ	8T	10T	12T	14T	16T	18T	20T
Capacity range				HP	8	10	12	14	16	18	20
Cooling capacity	Nom.			kW	22.4 (1) / 22.4 (2)	28.0 (1) / 28.0 (2)	33.5 (1) / 33.5 (2)	40.0 (1) / 40.0 (2)	45.0 (1) / 45.0 (2)	50.4 (1)	56.0 (1)
Heating capacity	Nom.			kW	22.4 (3) / 22.40 (4)	28.0 (3) / 28.00 (4)	33.5 (3) / 33.5 (4)	40.0 (3) / 40.00 (4)	45.0 (3) / 45.00 (4)	50.4 (3)	56.0 (3)
	Max.			kW	25.0 (3)	31.5 (3)	37.5 (3)	45.0 (3)	50.0 (3)	56.5 (3)	63.0 (3)
Power input - 50Hz	Cooling	Nom.		kW	5.31 (1) / 4.56 (2)	7.15 (1) / 6.19 (2)	9.23 (1) / 8.31 (2)	10.7 (1) / 9.61 (2)	12.8 (1) / 11.9 (2)	15.2	18.6
	Heating	Nom.		kW	4.75 (3) / 4.47 (4)	6.29 (3) / 5.47 (4)	8.05 (3) / 6.83 (4)	9.60 (3) / 9.37 (4)	11.2 (3) / 9.88 (4)	12.3 (3)	14.9 (3)
		Max.		kW	5.51 (3)	7.38 (3)	9.43 (3)	11.3 (3)	12.9 (3)	14.3	17.5
EER				kW	4.22 (1) / 4.92 (2)	3.92 (1) / 4.52 (2)	3.63 (1) / 4.03 (2)	3.74 (1) / 4.16 (2)	3.52 (1) / 3.79 (2)	3.32	3.01
ESEER - Automatic					7.41	7.37	6.84	7.05	6.63	6.26	5.68
ESEER - Standard					6.25	5.78	5.36	5.45	5.14	4.84	4.39
COP at nominal capacity				kW	4.72 (3) / 5.01 (4)	4.45 (3) / 5.12 (4)	4.16 (3) / 4.90 (4)	4.17 (3) / 4.27 (4)	4.02 (3) / 4.56 (4)	4.10 (3)	3.76 (3)
COP at maximum capacity				kW	4.54 (3)	4.27 (3)	3.98 (3)		3.88 (3)	3.95	3.60
Maximum number of connectable indoor units					64 (5)						
Indoor index connection	Min.				100	125	150	175	200	225	250
	Nom.				200	250	300	350	400	450	500
	Max.				260	325	390	455	520	585	650
Dimensions	Unit	HeightxWidthxDepth		mm	1,685x930x765			1,685x1,240x765			
Weight	Unit			kg	210	218		304	305	337	
Fan	Air flow rate	Cooling	Nom.	m^3/min	162	175	185	223	260	251	261
Sound power level	Cooling	Nom.		dBA	78	79	81		86		88
Sound pressure level	Cooling	Nom.		dBA	58		61		64	65	66
Operation range	Cooling	Min.~Max.		°CDB	-5.0~43.0						
	Heating	Min.~Max.		°CWB	-20~15.5 (6)						
Refrigerant	Type				R-410A						
	Charge			kg	9.7	9.8	9.9	11.8			
				TCO_2eq	20.2	20.5	20.7	24.6			
	GWP				2,087.5						
Piping connections	Liquid	OD		mm	9.52		12.7			15.9	
	Gas	OD		mm	19.1	22.2	28.6				
	Discharge gas	OD		mm	15.9	19.1		22.2			28.6
	Total piping length	System	Actual	m	1,000						
Power supply	Phase/Frequency/Voltage			Hz/V	3N~/50/380-415						
Current - 50Hz	Maximum fuse amps (MFA)			A	20	25		32	40		50

Outdoor system				REYQ	10T	13T	16T	18T	20T	22T	24T	26T	28T	30T	32T
System	Outdoor unit module 1				REMQ5T		REYQ8T			REYQ10T	REYQ8T	REYQ12T			REYQ16T
	Outdoor unit module 2				REMQ5T	REYQ8T		REYQ10T	REYQ12T		REYQ16T	REYQ14T	REYQ16T	REYQ18T	REYQ16T
Capacity range				HP	10	13	16	18	20	22	24	26	28	30	32
Cooling capacity	Nom.			kW	28.0	36.4	44.8	50.4	55.9	61.5	67.4	73.5	78.5	83.9	90.0
Heating capacity	Nom.			kW	28.0	36.4	44.8	50.4	55.9	61.5	67.4	73.5	78.5	83.9	90.0
	Max.			kW	32.0	41.0	50.0	56.5	62.5	69.0	75.0	82.5	87.5	94.0	100.0
Power input - 50Hz	Cooling	Nom.		kW	6.34	8.48	10.62	12.46	14.54	16.38	18.11	19.93	22.03	24.43	25.6
	Heating	Nom.		kW	5.42	7.46	9.50	11.04	12.80	14.34	15.95	17.65	19.25	20.35	22.4
		Max.		kW	6.50	8.76	11.02	12.89	14.94	16.81	18.41	20.73	22.33	23.73	25.8
EER				kW	4.42	4.29	4.22	4.04	3.84	3.75	3.72	3.69	3.56	3.43	3.52
ESEER - Automatic					7.77	7.54	7.41	7.38	7.06	7.07	6.87	6.95	6.72	6.48	6.63
ESEER - Standard					6.55	6.36	6.25	5.98	5.68	5.54	5.46	5.41	5.23	5.03	5.14
COP at nominal capacity				kW	5.17	4.88	4.72	4.57	4.37	4.29	4.23	4.16	4.08	4.12	4.02
COP at maximum capacity				kW	4.92	4.68	4.54	4.38	4.18	4.10	4.07	3.98	3.92	3.96	3.88
Maximum number of connectable indoor units					64 (5)										
Indoor index connection	Min.				125	162.5	200	225	250	275	300	325	350	375	400
	Nom.				250	325.0	400	450	500	550	600	650	700	750	800
	Max.				325	422.5	520	585	650	715	780	845	910	975	1,040
Piping connections	Liquid	OD		mm	9.52	12.7		15.9				19.1			
	Gas	OD		mm	22.2	28.6					34.9				
	Discharge gas	OD		mm	19.1		22.2		28.6						
	Total piping length	System	Actual	m	500					1,000					
Current - 50Hz	Maximum fuse amps (MFA)			A	40					50	63				80
Continuous heating					v										

* Check engineering data for restrictions



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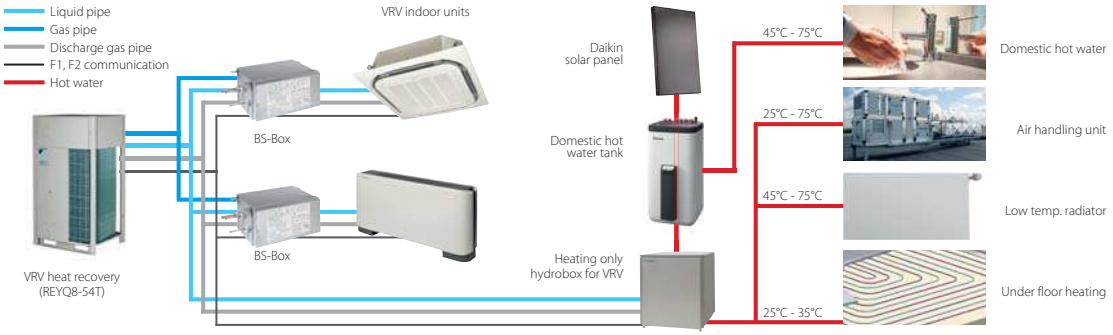

Outdoor system				REYQ	34T	36T	38T	40T	42T	44T	46T	48T	50T	52T	54T
System	Outdoor unit module 1				REYQ16T		REYQ8T	REYQ10T		REYQ12T	REYQ14T	REYQ16T			REYQ18T
	Outdoor unit module 2				REYQ18T	REYQ20T	REYQ12T		REYQ16T					REYQ18T	
	Outdoor unit module 3				-		REYQ18T		REYQ16T				REYQ18T		
Capacity range				HP	34	36	38	40	42	44	46	48	50	52	54
Cooling capacity	Nom.			kW	95.4	101.0	106.3	111.9	118.0	123.5	130.0	135.0	140.4	145.8	151.2
Heating capacity	Nom.			kW	95.4	101.0	106.3	111.9	118.0	123.5	130.0	135.0	140.4	145.8	151.2
	Max.			kW	106.5	113.0	119.0	125.5	131.5	137.5	145.0	150.0	156.5	163.0	169.5
Power input - 50Hz	Cooling	Nom.		kW	28.0	31.4	29.74	31.58	32.75	34.83	36.3	38.4	40.8	43.2	45.6
	Heating	Nom.		kW	23.5	26.1	25.10	26.64	28.69	30.45	32.00	33.6	34.7	35.8	36.9
		Max.		kW	27.2	30.4	29.24	31.11	33.18	35.23	37.1	38.7	40.1	41.5	42.9
EER				kW	3.41	3.22	3.57	3.54	3.60	3.55	3.58	3.52	3.44	3.38	3.32
ESEER - Automatic					6.43	6.06	6.66	6.68	6.79	6.68	6.75	6.63	6.49	6.37	6.26
ESEER - Standard					4.97	4.70	5.25	5.20	5.28	5.20	5.23	5.14	5.03	4.93	4.84
COP at nominal capacity				kW	4.06	3.87	4.24	4.20	4.11	4.06		4.02	4.05	4.07	4.10
COP at maximum capacity				kW	3.92	3.72	4.07	4.03	3.96	3.90	3.91	3.88	3.90	3.93	3.95
Maximum number of connectable indoor units					64 (5)										
Indoor index connection	Min.				425	450	475	500	525	550	575	600	625	650	675
	Nom.				850	900	950	1,000	1,050	1,100	1,150	1,200	1,250	1,300	1,350
	Max.				1,105	1,170	1,235	1,300	1,365	1,430	1,495	1,560	1,625	1,690	1,755
Piping connections	Liquid	OD		mm	19.1										
	Gas	OD		mm	34.9	41.3									
	Discharge gas	OD		mm	28.6		34.9								
	Total piping length	System	Actual	m	1,000										
Current - 50Hz	Maximum fuse amps (MFA)			A	80			100			125				
Continuous heating					v										

Outdoor unit module				REMQ	5T
Dimensions	Unit	Height/Width/Depth		mm	1,685/930/765
Weight	Unit			kg	210
Fan	Air flow rate	Cooling	Nom.	m^3/min	162
Sound power level	Cooling	Nom.		dBA	77
Sound pressure level	Cooling	Nom.		dBA	56
Operation range	Cooling	Min.~Max.		°CDB	-5.0~43.0
	Heating	Min.~Max.		°CWB	-20~15.5
Refrigerant	Type				R-410A
	Charge			kg	9.7
				TCO_2eq	20.2
	GWP				2,087.5
Power supply	Phase/Frequency/Voltage			Hz/V	3N~/50/380-415
Current - 50Hz	Maximum fuse amps (MFA)			A	20

(1) Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m. Data for standard efficiency series (2) Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m. Data for high efficiency series, Eurovent certified (3) Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m. Data for standard efficiency series (4) Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m. Data for high efficiency series, Eurovent certified (5) Actual number of connectable indoor units depends on the indoor unit type (VRV indoor, Hydrobox, RA indoor, etc.) and the connection ratio restriction for the system (50% <= CR <= 130%) (6) Technical cooling setting, refer to the installation manual for more information | Contains fluorinated greenhouse gases