

SUBMITTAL DATA SHEET

MODEL: Heat Recovery 50Hz - REYQ28TAY1

TROJECT NAME.	
Location:	Approval:
Engineer:	Date
Submitted to:	Construction:
Submitted by:	Unit #:
Reference:	Drawing #:

FEATURES AND BENEFITS

DROJECT NAME

The new VRV R series enables simultaneous operation of cooling and heating within a single refrigerant piping circuit by controlling the BS unit. This series also substantially improves energy efficiency by recycling exhaust heat.

Modern office buildings are highly airtight and subject to an increasing heat load due to the use of computers, lighting equipment and other office equipment. In these buildings some rooms may require artificial cooling even in winter, depending on the amount of sunshine received and the number of people in the room. In order to meet such requirements the Heat Recovery Series enables the simultaneous operation of cooling and heating by controlling the BS unit that switches cooling and heating. This series also substantially improves energy efficiency by recycling waste heat.

Development of a highly efficient heat exchanger utilizing of a two-split structure in a conventional system, two heat exchanger panels are utilized: one is used as an evaporator; while the other is used as a condenser. In the newly developed system, a two-split structure is utilized, with one panel split into two parts (top and bottom) at an optimal ratio depending on the capacity required for simultaneous cooling and heating operation. Heat radiation loss has been minimized, and the heat recovery efficiency and partial load characteristics have been improved.

VRT Smart Control optimally supply only for the needed capacity of indoor units Daikin developed VRT smart control by combining air volume control (VAV: Variable Air Volume) for indoor units with conventional VRT control, which optimizes compressor speed by calculating the required load for the entire system and optimal target refrigerant temperature based on data sent from each indoor unit. Coordination with the air volume control reduces compressor load and minimizes operation loss based on detailed control. VRT smart control ensures energy savings and comfortable air conditioning to meet actual operating conditions.

Comfort low operation sound night time quiet operation function for areas with stringent restrictions placed on outdoor sound levels, the outdoor unit can be set for low operation sound during the nighttime to meet sound restrictions. Large airflow, high static pressure and quiet technology.

Compact design with high performance highly integrated heat exchanger, optimized inner design to ensure smooth airflow, electric components were downsized and positioned in the dead space of the bell mouth side to decrease airflow resistance. Sufficient cooling for electrical components

High reliability at high ambient temperatures it is possible to keep operation stable even at high ambient temperatures by cooling the inverter power module.

Outer Rotor DC Motor (ODM) Only Daikin has adapted an ODM with the feature of stable rotation and volumetric efficiency.

Easy maintenance the electrical components are strategically located on the top which eases the maintenance process. Moreover, the heat exchanger on the front side can be used effectively to improve its performance. Without affecting the fan volume, the electric components are designed to be at the top and this utilizes dead space. This eliminates the problem of suction resistance.

Long piping length provides more design flexibility, which can match even large-sized buildings.

EXTERNAL APPEARANCE





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SPECIFICATIONS

MODEL: Heat Recovery 50Hz - REYQ28TAY1

Model Name			REYQ28TAY1 (REYQ12TAY1+REYQ16TAY1)		
Power supply			3 phase, 380-415 V, 50 Hz		
		kcal/h	67.500		
*1 Cooling capacity		Btu/h	268.000		
		kW	78,5		
		kcal/h	75.300		
		Btu/h	299.000		
		kW	87,5		
		1	Ivory white (5Y7.5/1)		
Dimensions: (H	×W×D)	mm	(1,657×930×765)+(1,657×1,240×765)		
Heat exchange	,	1	Cross fin coil		
3_			Hermetically sealed scroll type		
Compressor	Motor output× Number of units	kW	$(4.9 \times 1) + (3.4 \times 1) + (3.7 \times 1)$		
	Starting method		Soft start		
	Туре		Propeller fan		
	Motor output	kW	(0.50×1)+(0.60×2)		
F	Airflow rate	m³/min	180+239		
Fan		l/s	3,000+3,983		
		cfm	6,354+8,437		
	Drive		Direct drive		
	Liquid pipe	mm	f19.1 C1220T (Brazing connection)		
Connecting	Gas pipe	mm	f34.9 C1220T (Brazing connection)		
pipes	High and low pressure gas pipe	mm	f28.6 C1220T (Brazing connection)		
Mass		kg	230+310		
*3 Sound press	ure level	dB(A)	63		
Sound power le	evel	dB(A)	84		
Safety devices			High pressure switch, Fan driver overload protector, Over current relay, Inverter overload protector		
Capacity contro	bl	%	6-100		
Refrigerant	Refrigerant name		R410A		
	Charge kg		9.9+11.8		
	Control		Electronic expansion valve		
Refrigerator oil			Refer to the nameplate of compressor		
Standard access			Installation manual, Operation manual, Connection pipes, Clamps		
Drawing No. Specifications			—		
	Sound level		_		

Notes:

*1. Indoor temp.: 27°CDB, 19°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5 m, level difference: 0 m.

*2. Indoor temp.: 20°CDB, 15°CWB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length: 7.5 m, level difference: 0 m.

During actual operation, these values are normally somewhat higher as a result of ambient conditions and oil recovery mode.

When there is concern for noise the surrounding area such as residences, we recommend investigating the

installation location and taking soundproofing measures.

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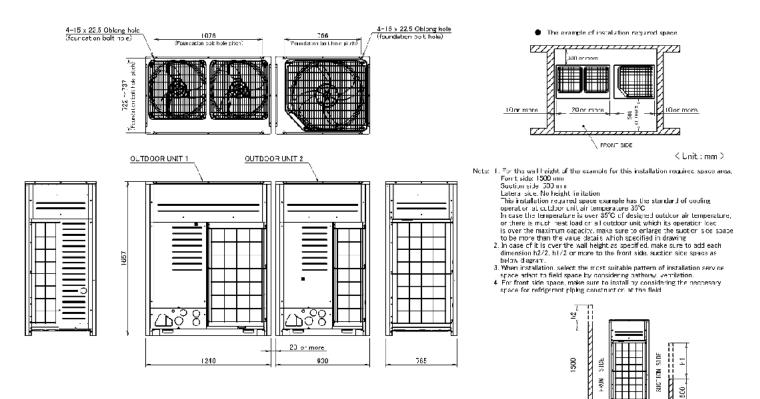
^{*3.} Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.



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DIMENSIONS

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SYSTEM NAME	CUTDOOR LINET1	DWG No	OUTDOOR UNIT2	DWG No
REY026T/TA	REYQ14T/TA	3D091006	RENG12T/TA	2D091883
REY928T/TA	REYO16T/TA	00091306	RENG12T/TA	30091093
REY230T/TA	REY018T/TA	30091306	RENG12T/TA	3D0\$1888

Unit: mm 3D091908B

