

**WITHOUT  
A BUILT-  
IN TANK**

# AIR-COOLED CHILLER OF LARGE CAPACITY

## UNIT COOLER RKL SERIES

COOLING CAPACITY : 7.9/8.5kW ~ 25.0/27.1kW

**ORION**

### THE OUTLINE

Circulation Pump

Digital Controller

Signal Terminals

Condenser Filter

IPX3 Equivalent

Multi Functions

HFC  
407C

### FEATURES

1. Coil type heat exchanger which is hardly clogged and can be disassembled.

Foreign matters may enter the chiller without a built-in tank from the outside tank. Orion's unique heat exchanger of coil type is hardly clogged by them and easy to be disassembled for cleaning, if it should be necessary.

2. Space conscious designing.

Slim and upright structure, the space conscious design to save the installation space, allows the chillers to be installed even in front of a wall.



RKL-2200-D RKL-3750-D (picture)  
RKL-5500-D RKL-7500-D

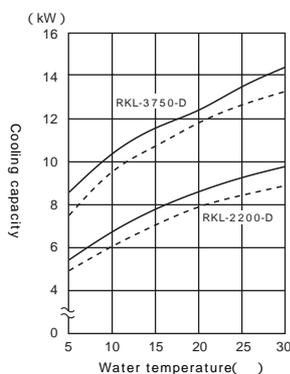
### SPECIFICATIONS

Item	Model	Air cooled type					
		RKL-2200-D	RKL-3750-D	RKL-5500-D	RKL-7500-D		
Performance	Cooling capacity *1, 2	kW	7.9/8.5	11.6/12.2	18.7/20.3	25.0/27.1	
	Ambient temperature range		5 to 43				
	Water temperature range		5 to 30				
Power source	Power source		3 phase 200V ± 10% 50/60Hz, 220V ± 10% 60Hz				
	Power consumption *2	kW	3/4, 4	5/6, 6	7/8, 8	10/12, 12	
	Electric current *2	A	11/13, 13	18/20, 20	24/27, 27	33/37, 37	
	Power capacity	kVA	5.5	8.3	11.8	18.7	
	Breaker capacity	A	20	30	40	60	
Equipment details	Condenser		Fin and tube type of air cooled				
	Heat exchanger		Shell and coil				
	Circulation pump	Output	W	150/180	400	750	750
		Flow rate	L/min	40 ~ 60/40 ~ 70	70 ~ 115/70 ~ 130	80 ~ 120/80 ~ 140	110 ~ 140/110 ~ 175
	Fan motor output *3	W	100 (Inverter driven)	200 (Inverter driven)	750 (Inverter driven)		
	Refrigerant control		Expansion valve				
	Refrigerant		R-407C				
Temperature controller		Digital electronic type (With alarm monitor)					
External dimensions (HxDxW)	mm	1400 x 677 x 860	1445 x 705 x 1025	1740 x 815 x 1287			
Product mass (Dry mass)	kg	Approx. 200	Approx. 270	Approx. 600	Approx. 650		
Protector	Compressor		Over current relay, Internal thermostat				
	Pump		Over current relay				
	Refrigerating cycle		High pressure switch, Temperature switch				
	Operation sound *4	dB	59/61	61/64	64/67	65/68	
Necessary tank capacity	L	200 or over	300 or over	450 or over	600 or over		

\*1 The cooling capacity is over 95% of the above indicated values. \*2 Based on the conditions of 20 °C of water temperature, 32 °C of ambient temperature.  
\*3 The static pressure of the pump is 20Pa. \*4 The sound level was measured 1m away from the front and 1m high.  
Note 1) Use clear water (tap water). Note 2) The exhaust heat quantity (kW) is about 1.3 times the cooling capacity.

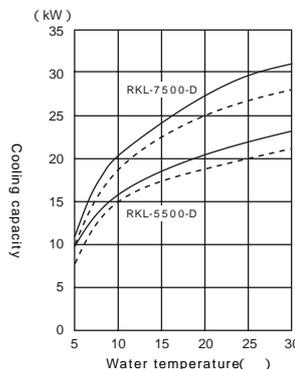
### COOLING CAPACITY

RKL-2200-D/3750-D



Conditions  
 • Room temperature : 32  
 • Liquid cooled : Clear water  
 • Circulating quantity : Maximum (Head 0m)

RKL-5500-D / 7500-D

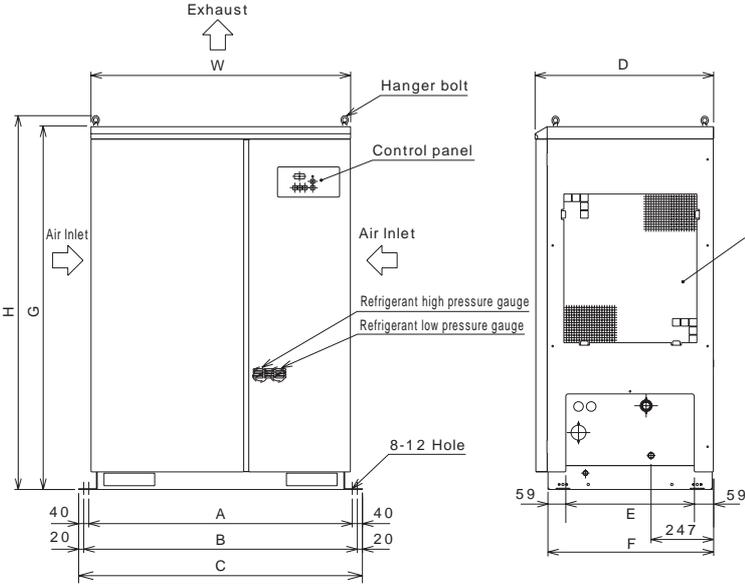


Conditions  
 • Room temperature : 32  
 • Liquid cooled : Clear water  
 • Circulating quantity : Maximum (Head 0m)

**EXTERNAL DIMENSIONS**

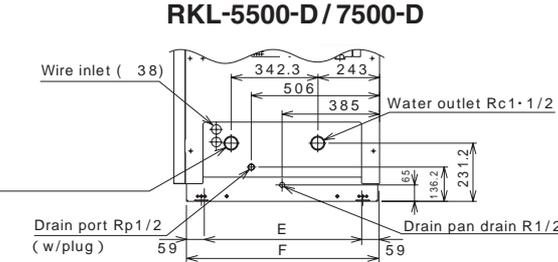
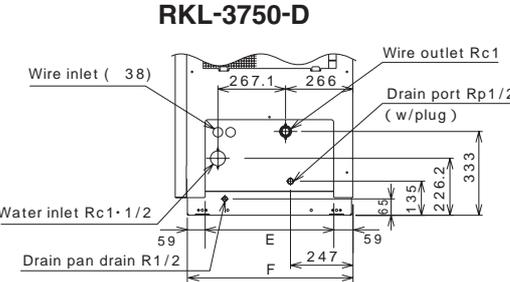
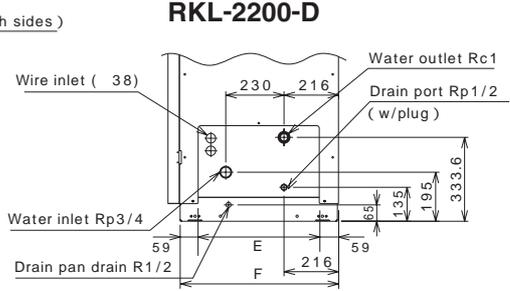
( Unit : mm )

⇨ Direction of suction/exhaust air



Model	Dimensions	W	D	H	A*	B	C	E	F	G
RKL-2200-D		860	677	1441	876.7	916.7	956.7	502.7	620.7	1400
RKL-3750-D		1025	705	1486	1040	1080	1120	530	648	1445
RKL-5500-D, 7500-D		1287	815	1800	1305	1345	1385	637	755	1740

\*Pitch is compatible with RKL-B1 series. Use them if replacing B1serie.



Water Pipes Arrangement

**PUMP CHARACTERISTICS CURVES**

— 60Hz  
- - - 50Hz

