

**LREQ-BY1**

## Condensing unit

Item	Standard for use	
Refrigerant	R410A	
Refrigerant oil	Daphne FVC68D	
Range of evaporating temperature (Te)	-45°C ~ +10°C (3)	
Range of outdoor temperature	-20°C ~ +43°C	
Suction gas superheated degree	10K or higher	
Suction gas temperature	20°C or lower	
Power supply	Voltage regulation	Within ±10% of rated voltage
	Voltage imbalance rate	Within ±2% of rated voltage
	Frequency regulation	Within ±2% of rated frequency
Compressor on/off frequency	6 times or less/hour	
Connection piping length (equivalent piping length (1))	130m or lower (Te= -20°C ~ +10°C)	
	100m or lower (Te= -45°C ~ -20°C)	
Maximum difference in height between indoor unit and outdoor units	35m or lower (When the condensing unit is installed higher than the refrigeration-side) (4)	
	10m or lower (When the condensing unit is installed lower than the refrigeration-side)	
Installation space	According to the installation service space	

## Restrictions for the indoor unit (showcase, unit cooler, etc.)

Connectable minimum load capacity	2.0kW or higher (Te= -20°C ~ +10°C) 1.6kW or higher (Te= -45°C ~ -20°C)
Liquid solenoid valve installed upstream of expansion valve	For R410A, maximum operating pressure difference: 3.5MPa or higher
	It is necessary to control the solenoid valves in indoor unit using 'Operate output' of outdoor unit
Defrost method	Hot gas defrost not possible
	After defrosting ends, resume operation of the refrigeration-side blower within 3 minutes or less
Restrictor	Use a thermal expansion valve for R410A (A thermal expansion valve for R22 or R404A can not be used)

**NOTES**

1. Connection piping length differs according to set value of evaporating temperature.
2. The total internal volume of evaporator (Refrigeration/Freezer) connected to the condensing unit is kept the following volume  
LREQ5, 6BY1: 22L or lower  
LREQ8, 10, 12BY1: 33L or lower  
LREQ15, 20BY1: 42L or lower
3. When the outdoor temperature is lower than evaporating temperature, evaporating temperature is lower than set evaporating temperature.
4. Trap is required at 5m intervals from outdoor unit.