

## 21. OUTDOOR UNIT LOW NOISE OPERATION

The OUTDOOR UNIT LOW NOISE Operation functions by pressing OUTDOOR UNIT LOW NOISE button on the remote controller.

This operation stops the PFC control, and changes the Current release operation/release value.

OUTDOOR UNIT LOW NOISE Operation mode can be used during cooling, heating and automatic operation.

It can not be used in Fan and Dry mode

( Table 22 )

	Control / Release
Current release operation/release value	3.5A / 3.0A

## 22. POWERFUL OPERATION

The POWERFUL OPERATION functions by pressing POWERFUL button on the remote controller.

The indoor unit & outdoor unit will operate at maximum power as shown in Table23.

(Table23)

	Powerful operation
COMPRESSOR FREQUENCY	Maximum
FAN CONT. MODE	Powerful
SETTING LOUVER	Cooling/ Dry : 3, Heating : 5

Release Condition is as follows.

[Cooling / Dry]

- Room temperature < Setting temperature - 1.5°C or Operation time has passed 20 minutes.

[Heating]

- Room temperature > Setting temperature +1.5°C or Operation time has passed 20 minutes.

## 23. DEFROST OPERATION CONTROL

## 1. CONDITION OF STARTING THE DEFROST OPERATION

The defrost operation starts as shown in the following Table 24.

(Table 24 : Condition of starting Defrost Operation)

Normal defrost	Compressor integrating operation time	
	Less than 25 minutes	More than 25 minutes
	Does not operate	<p>Outdoor heat exchanger temp. <math>\leq -17^{\circ}\text{C}</math> (at outside air temp. <math>\geq -10^{\circ}\text{C}</math>)</p> <hr/> <p>Outdoor heat exchanger temp. <math>\leq</math> Outside air temp. <math>- 7^{\circ}\text{C}</math>  or Outdoor heat exchanger temp. <math>\leq - 20^{\circ}\text{C}</math> (LUCA)  <math>- 25^{\circ}\text{C}</math> (LTCA)  (at outside air temp. <math>&lt; -10^{\circ}\text{C}</math>)</p>

Integrating defrost	Compressor integrating operation time		
	More than 240 minutes (For continuous operation)	More than 213 minutes (For continuous operation)	Less than 10 minutes* ( For intermittent operation )
	Outdoor heat exchanger temperature below -3°C	Outdoor heat exchanger temperature below -5°C	OFF count of the compressor 40 times

\* If the compressor continuous operation time is less than 10 minutes, the OFF number of the compressor is counted.  
If any defrost operated, the compressor OFF count is cleared.

## 2. CONDITION OF THE DEFROST OPERATION COMPLETION

Defrost operation is released when the conditions become as shown in Table 25.

(Table 25 : Defrost Release Condition)

Release Condition
Outdoor heat exchanger temperature sensor value is higher than +16°C or Compressor operation time has passed 15 minutes.