

DAIKIN



ADDENDUM INSTALLATION AND OPERATION MANUAL

Option Inverter fans

INTRODUCTION

To achieve a lower noise level while running in cooling mode, the units are equipped with inverter fans. In addition, it is possible to run the unit in low noise mode during periods that the unit can be used with lower cooling capacity and cooling efficiency.

For EWYQ units only

The low noise mode is not possible while running in heating mode.

- When the unit is running in normal mode, the fans of the air cooled condenser will be controlled as to achieve a high pressure ranging from 18.9 up to 27.5 bar (EWAQ*/EWYQ*).
- When the unit is running in low noise mode, the fans of the air cooled condenser will be controlled as to achieve a high pressure ranging from 28.0 up to 35.0 bar (EWAQ*/EWYQ*).

NOTE

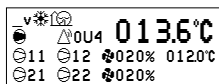



In case more cooling capacity is required during low noise mode, it is possible to lower the high pressure value range, via the service menu. In this case however, noise reduction will be less.

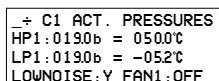
ADVANCED FEATURES OF THE DIGITAL CONTROLLER

This chapter gives an overview and a brief functional description of the screens provided by the different menus. Please add this information to the information mentioned in the operation manual.

Readout menu

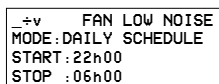


To consult actual operational information about the status of the pump, the compressor, the fans, the temperature setpoint (depending on active mode) and to check if the fans are running in low noise mode ().



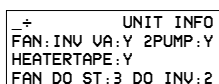
To consult information about the actual pressures and the fans of circuit 1 and to check if the fans are running in low noise mode.

Usersettings menu , submenu FAN



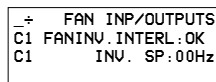
To define the schedule timer by entering the start and stop times.

Info menu

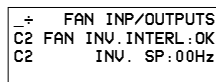


To consult additional information about the unit such as the fan type, Volt Ampere option, presence of a second pump and presence of a heatertape.

Input/output menu



To check the status of the fan inverter interlock and to check the inverter frequency setpoint (Hz) of circuit 1.



To check the status of the fan inverter interlock and to check the inverter frequency setpoint (Hz) of circuit 2 (only EWAQ130~260 and EWYQ130~250).

SOFTWARE STRUCTURE

The software structures mentioned in the operation manual delivered with the unit, must be replaced by the software structures shown in this manual.

- For EWAQ units, refer to [page 3](#).
- For EWYQ units, refer to [page 5](#).

SELECTING INSTALLATION SITE


This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

ADDITIONAL SAFETY MESSAGES

CIRCUIT 1 SAFETY	153:FAN INV ERR
CIRCUIT 2 SAFETY	253:FAN INV ERR

Refer to "Troubleshooting of inverter with the Status display panel" on [page 2](#).

DEFINING THE LOW NOISE MODE

The low noise mode can be selected in the usersettings menu , sub menu **FAN**.

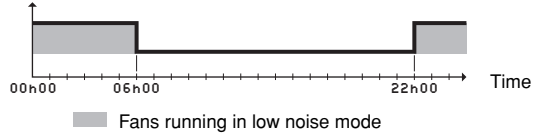
The low noise mode can be activated in 3 different ways:

1. Through the schedule timer: **MODE : DAILY SCHEDULE**.

Example:

1 : **START : 22h00**
2 : **STOP : 06h00**

Low noise



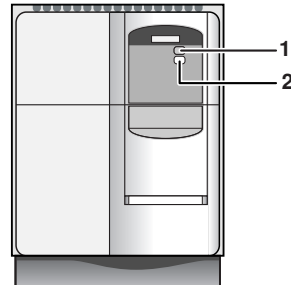
2. Through a field installed low noise mode switch.
In this case the low noise mode activation is depending on a changeable digital input: **MODE : CHANG . DIG . INP** .
Refer to "Customization in the service menu", chapter "Setting of the changeable digital inputs and outputs" in the installation manual.
The changeable digital input must be configured as low noise by selecting **LOW NOISE** to activate or de-activate the low noise mode.
Example: (service menu)
DI1 : LOW NOISE
3. Through manual selection: **MODE : ACTIVE** or **MODE : NOT ACTIVE**.

TROUBLESHOOTING OF INVERTER WITH THE STATUS DISPLAY PANEL



Only a licensed electrician is allowed to carry out an inspection on the status display panel as this inspection requires the switch box to be opened.

The operating status of the inverter is indicated by the green and yellow LEDs on the status display panel. These LEDs indicate the following warnings and fault states. Contact your local dealer in case any faults occur.



- 1 Green LED
- 2 Yellow LED

Green LED	Yellow LED	Priority Display	Drive Status Definitions
OFF	OFF	1	Mains not present
OFF	ON	8	Inverter fault - other than the ones listed below
ON	OFF	13	Inverter running
ON	ON	14	Ready to run - standby
OFF	Flashing -R1	4	Fault overcurrent
Flashing -R1	OFF	5	Fault overvoltage
Flashing -R1	ON	7	Fault motor overtemperature
ON	Flashing -R1	8	Fault inverter overtemperature
Flashing -R1	Flashing -R1	9	Warning current limit - Both LEDs are flashing at the same time
Flashing -R1	Flashing -R1	11	Other warnings - Both LEDs are flashing alternately
Flashing -R1	Flashing -R2	6/10	Undervoltage trip/undervoltage warning
Flashing -R2	Flashing -R1	12	Drive is not ready - Display state >0
Flashing -R2	Flashing -R2	2	ROM failure - Both LEDs are flashing at the same time
Flashing -R2	Flashing -R2	3	RAM failure - Both LEDs are flashing alternately

R1 - On time 900 msec.
R2 - On time 300 msec.

