

# Wiring diagram 99DA-SEI-EC01

## Content

[2-pipe units](#)

[2-pipe units change over](#)

[4-pipe units](#)

[2-pipe units with electric heater](#)

[Connecting multiple fan coil units](#)

Page

2

3




4

5

6



Various settings are possible with this type of thermostat. Read the installation manual carefully before installation. For proper operation, check the parameters indicated per system and adjust them if necessary.

To access the configuration menu, simultaneously press the “” and “” buttons for a few seconds until “CO<sub>n</sub>” (configuration) appears on the display. Once entered in configuration menu, pressing “” scrolls through the various parameters, identified with P and the parameter number, from P01 to P25.

When scrolling the parameters pressing button “” or “” or “” displays its current value.

To change the value, when it is displayed, press button “” or “”.

The configuration end is displayed with “End”. Press “” again to save the configuration and return to normal operation.

The extended parameters C01-C23 allow an advanced thermostat configuration. When the display shows “CO<sub>n</sub>” at configuration start or “End” at configuration end, press the “” button to access the extended parameters.

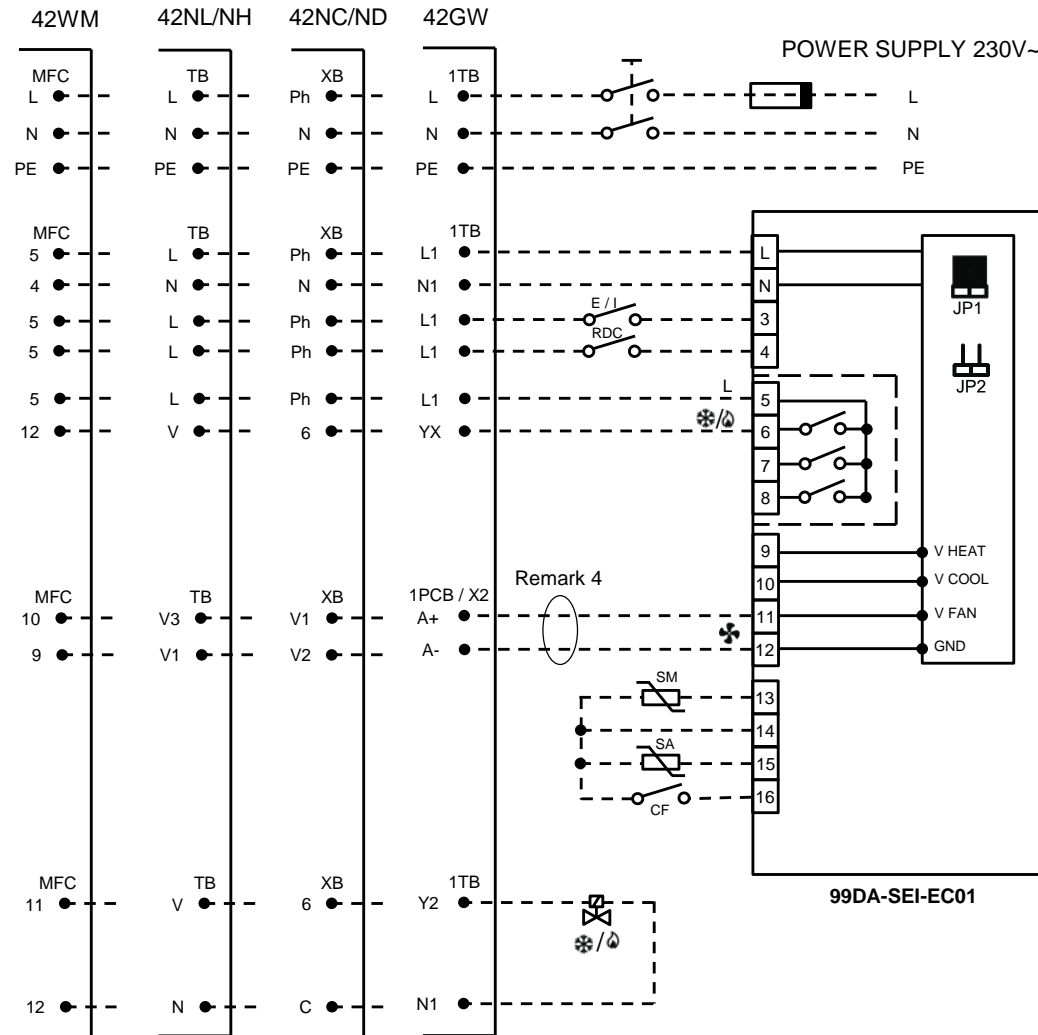
### REMARKS

- 1: All electrical connections must be made in accordance with the local regulations
- 2: ----- External cables (not supplied by Carrier)
- 3: Minimum cable diameter 1,5 mm<sup>2</sup> (230V~)
- 4: Use shielded cable for 0-10V signal cable of the fan motor
- 5: For other connections/information, see the electrical wiring diagram of the relevant unit

### APPLICATION

Thermostat type: 99DA-SEI-EC01  
 Fan coil units with EC fan: 0-10V control  
 Actuators of the 2- or 3-way valves: 230V – on/off

# 2-PIPE FAN COIL UNITS



Various settings are possible with this type of thermostat. Read the installation manual carefully before installation. For proper operation, please check the parameters below and adjust if necessary:

- P01: 0 (system type)
- P02: 1 (manual change-over heat/cool) \*
- C15: 2 V (minimum fan speed)
- C16: Maximum fan speed (V) \*\*

\* Heating or cooling modes are selected by keeping the “” button depressed for some seconds, until the display shows one of the following texts which indicates the current mode:  
 HEA : Heating mode  
 COO : Cooling mode  
 Then, by pressing the arrow keys, the user can change the desired operating mode.

\*\* With 42NL, 42NH, 42ND: the capacity (air volume) depends on the resistance in the duct and the grilles. In most cases, the maximum speed should be set between 5V and 8V.

**Explanations:**

- E/I = Change-over contact heating/cooling \*
- RDC = Contact to activate the “Economy” function (set P18) \*
- SM = Supply water sensor \*\*
- SA = Room sensor (if applied P11 = 1) \*\*
- CF = Window contact \* and \*\*
- XB, TB, 1TB, MFC, 1PCB / X2 = terminals fan coil unit

\* The functions of these outputs can be changed with parameters C17, C18 en C19. See for more information the installation manual.

\*\* Use a separate shielded cable (see for more information the installation manual)

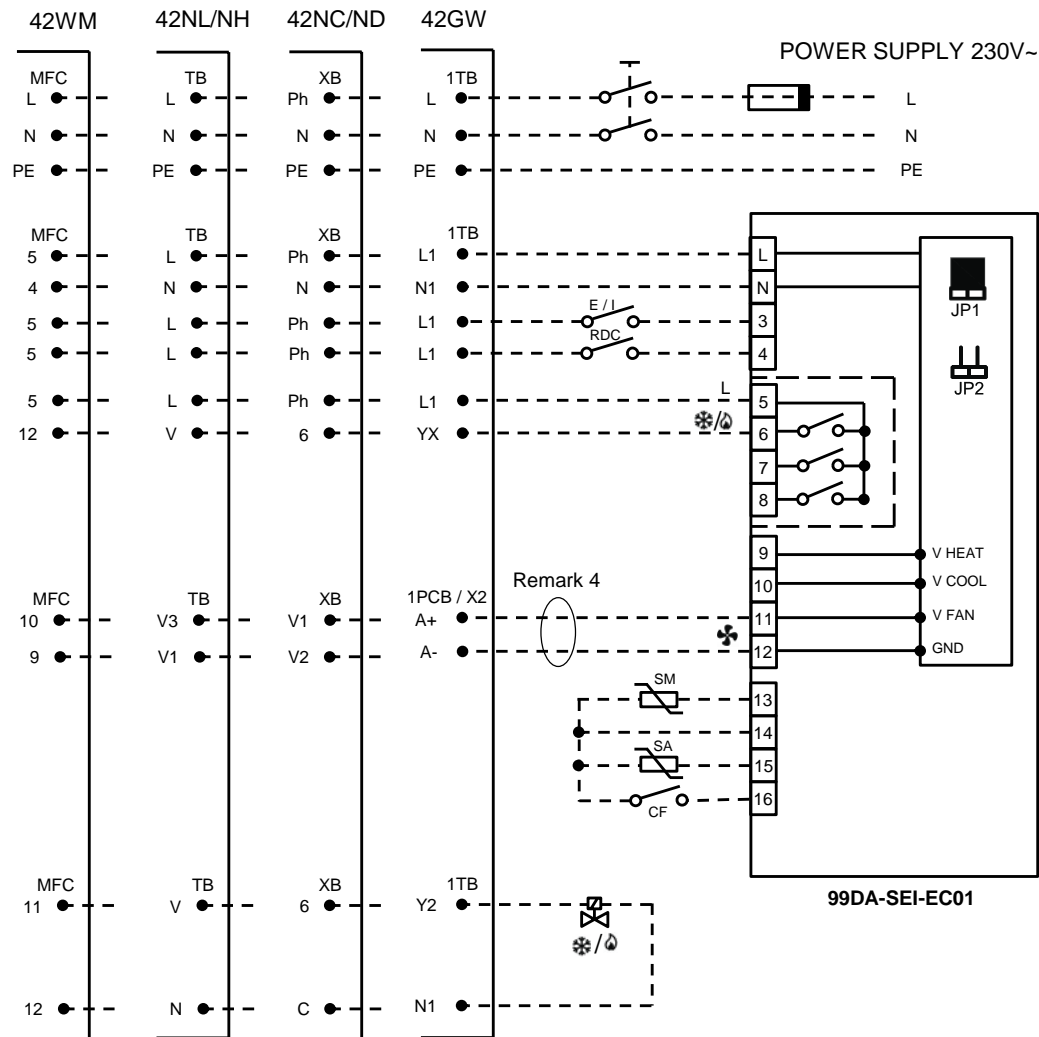
**REMARKS**

- 1: All electrical connections must be made in accordance with the local regulations
- 2: ----- External cables (not supplied by Carrier)
- 3: Minimum cable diameter 1,5 mm<sup>2</sup> (230V~)
- 4: Use shielded cable for 0-10V signal cable of the fan motor
- 5: For other connections/information, see the electrical wiring diagram of the relevant unit

**APPLICATION**

Thermostat type: 99DA-SEI-EC01  
 Fan coil units with EC fan: 0-10V control  
 Actuators of the 2- or 3-way valves: 230V – on/off

## 2-PIPE FAN COIL UNITS CHANGE-OVER HEAT/COOL WITH WATER SENSOR



Various settings are possible with this type of thermostat. Read the installation manual carefully before installation. For proper operation, please check the parameters below and adjust if necessary:

**P01: 0 (system type)**

**P02: 1 (automatic change-over heat/cool)**

**C01: 17 (if water temp. lower than this value → cool) \***

**C02: 30 (if water temp. higher than this value → heat) \***

**C15: 2 V (minimum fan speed)**

**C16: Maximum fan speed (V) \*\***

\* Install a water temperature sensor (SM \*\*\*) on a pipe where the water supply can be measured and connect it to terminals 13 and 14.

\*\* With 42NL, 42NH, 42ND: the capacity (air volume) depends on the resistance in the duct and the grilles. In most cases, the maximum speed should be set between 5V and 8V.

\*\*\* Accessory, 99DA-SEI-SEN01

### Explanations:

E/I = N/A \*

RDC = Contact to activate the "Economy" function (set P18) \*

SM = Supply water sensor (change-over based on C01 and C02) \*\*

SA = Room sensor (if applied P11 = 1) \*\*

CF = Window contact \* and \*\*

XB, TB, 1TB, MFC, 1PCB / X2 = terminals fan coil unit

\* The functions of these outputs can be changed with parameters C17, C18 en C19. See for more information the installation manual.

\*\* Use a separate shielded cable (see for more information the installation manual)

### REMARKS

- 1: All electrical connections must be made in accordance with the local regulations
- 2: ----- External cables (not supplied by Carrier)
- 3: Minimum cable diameter 1,5 mm<sup>2</sup> (230V~)
- 4: Use shielded cable for 0-10V signal cable of the fan motor
- 5: For other connections/information, see the electrical wiring diagram of the relevant unit

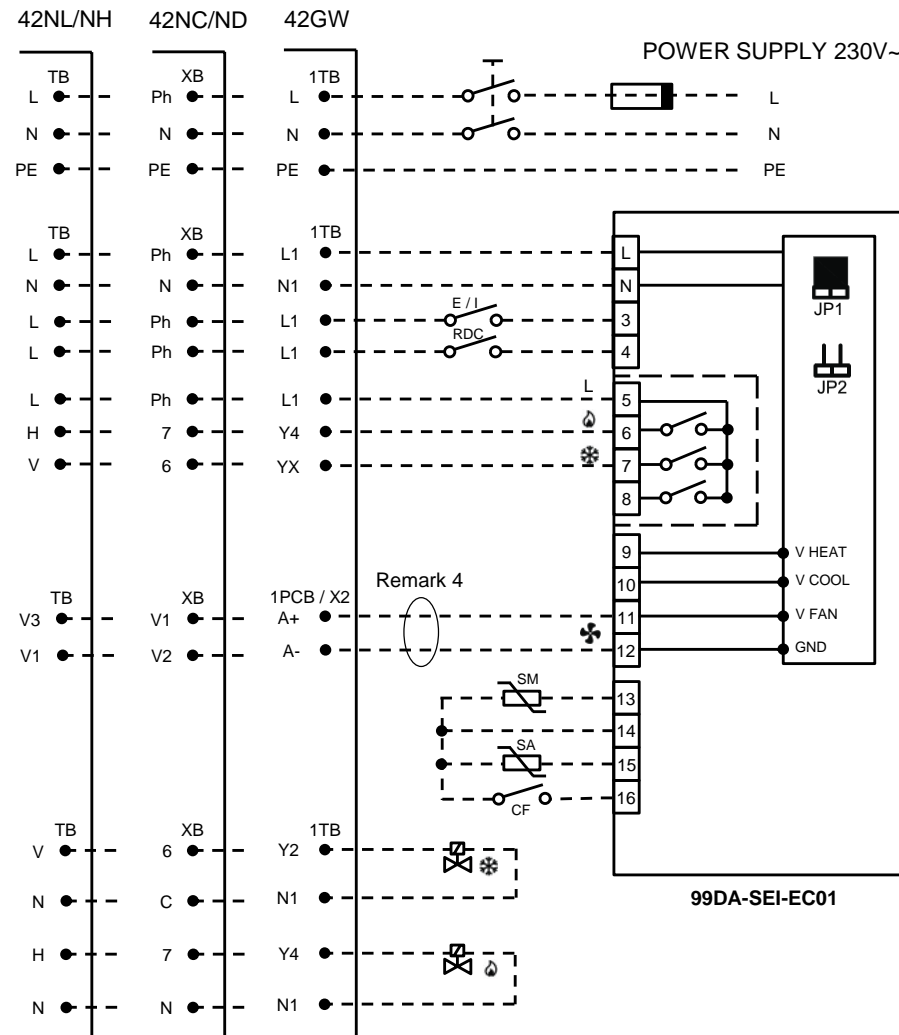
### APPLICATION

Thermostat type: 99DA-SEI-EC01

Fan coil units with EC fan: 0-10V control

Actuators of the 2- or 3-way valves: 230V – on/off

# 4-PIPE FAN COIL UNITS



Various settings are possible with this type of thermostat. Read the installation manual carefully before installation. For proper operation, please check the parameters below and adjust if necessary:

- P01: 1 (system type)
- P02: 0 or 1 (1 = automatic change-over heat/cool)
- C15: 2 V (minimum fan speed)
- C16: Maximum fan speed (V) \*

\* With 42NL, 42NH, 42ND: the capacity (air volume) depends on the resistance in the duct and the grilles. In most cases, the maximum speed should be set between 5V and 8V.

### Explanations:

- E/I = N/A \*
- RDC = Contact to activate the "Economy" function (set P18) \*
- SM = Supply water sensor \*\*
- SA = Room sensor (if applied P11 = 1) \*\*
- CF = Window contact \* and \*\*
- XB, TB, 1TB, 1PCB / X2 = terminals fan coil unit

\* The functions of these outputs can be changed with parameters C17, C18 en C19. See for more information the installation manual.

\*\* Use a separate shielded cable (see for more information the installation manual)

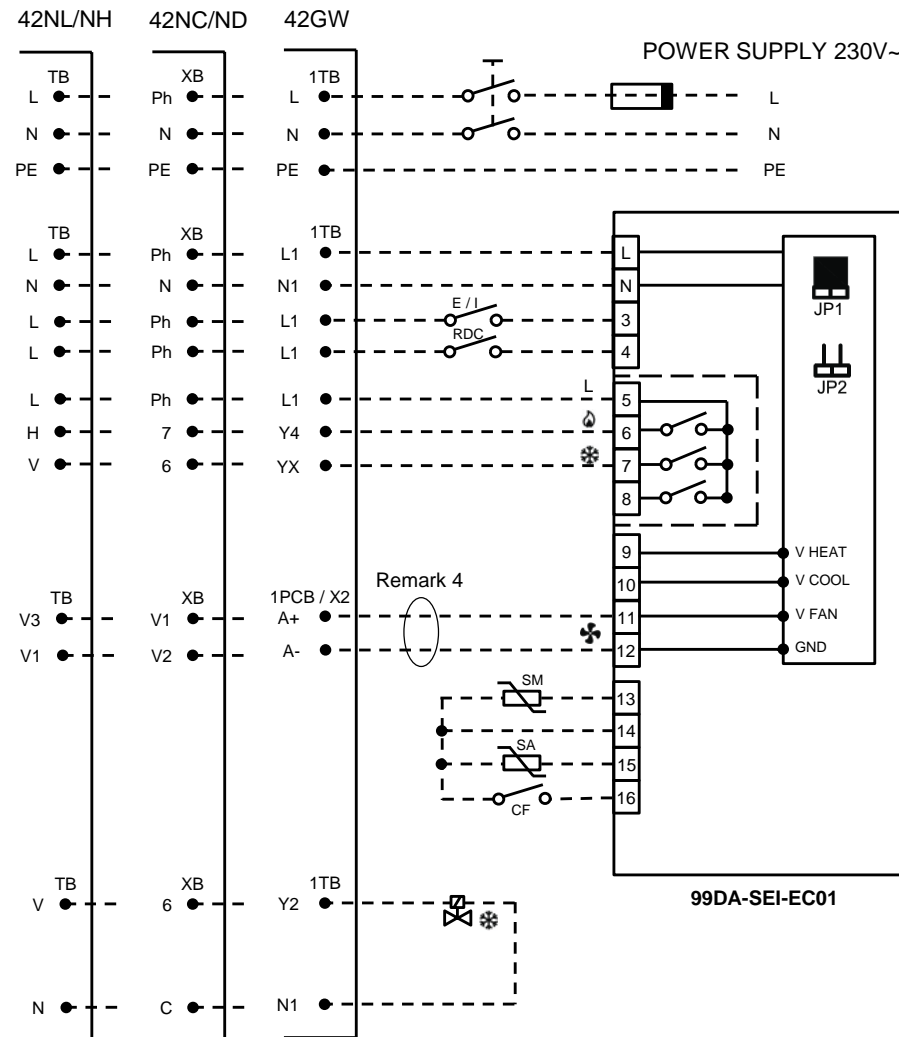
### REMARKS

- 1: All electrical connections must be made in accordance with the local regulations
- 2: ----- External cables (not supplied by Carrier)
- 3: Minimum cable diameter 1,5 mm<sup>2</sup> (230V~)
- 4: Use shielded cable for 0-10V signal cable of the fan motor
- 5: For other connections/information, see the electrical wiring diagram of the relevant unit

### APPLICATION

Thermostat type: 99DA-SEI-EC01  
 Fan coil units with EC fan: 0-10V control  
 Actuators of the 2- or 3-way valves: 230V – on/off

## 2-PIPE FAN COIL UNITS WITH ELECTRIC HEATER(S)



Various settings are possible with this type of thermostat. Read the installation manual carefully before installation. For proper operation, please check the parameters below and adjust if necessary:

**P01: 2 (system type)**

**P02: 0 or 1 (1 = automatic change-over heat/cool)**

**C14: 30 % (minimum fan speed when the electric heater is switched on) \***

**C15: 2 V (minimum fan speed)**

**C16: Maximum fan speed (V) \*\***

\* With 42NL, 42NH, 42ND: check minimum airflow, see installation manual of the relevant unit.

\*\* With 42NL, 42NH, 42ND: the capacity (air volume) depends on the resistance in the duct and the grilles. In most cases, the maximum speed should be set between 5V and 8V.

### Explanations:

E/I = N/A \*

RDC = Contact to activate the "Economy" function (set P18) \*

SM = Supply water sensor \*\*

SA = Room sensor (if applied P11 = 1) \*\*

CF = Window contact \* and \*\*

XB, TB, 1TB, 1PCB / X2 = terminals fan coil unit

\* The functions of these outputs can be changed with parameters C17, C18 en C19. See for more information the installation manual.

\*\* Use a separate shielded cable (see for more information the installation manual)

### REMARKS

- 1: All electrical connections must be made in accordance with the local regulations
- 2: ----- External cables (not supplied by Carrier)
- 3: Minimum cable diameter 1,5 mm<sup>2</sup> (230V~)
- 4: Use shielded cable for 0-10V signal cable of the fan motor
- 5: For other connections/information, see the electrical wiring diagram of the relevant unit

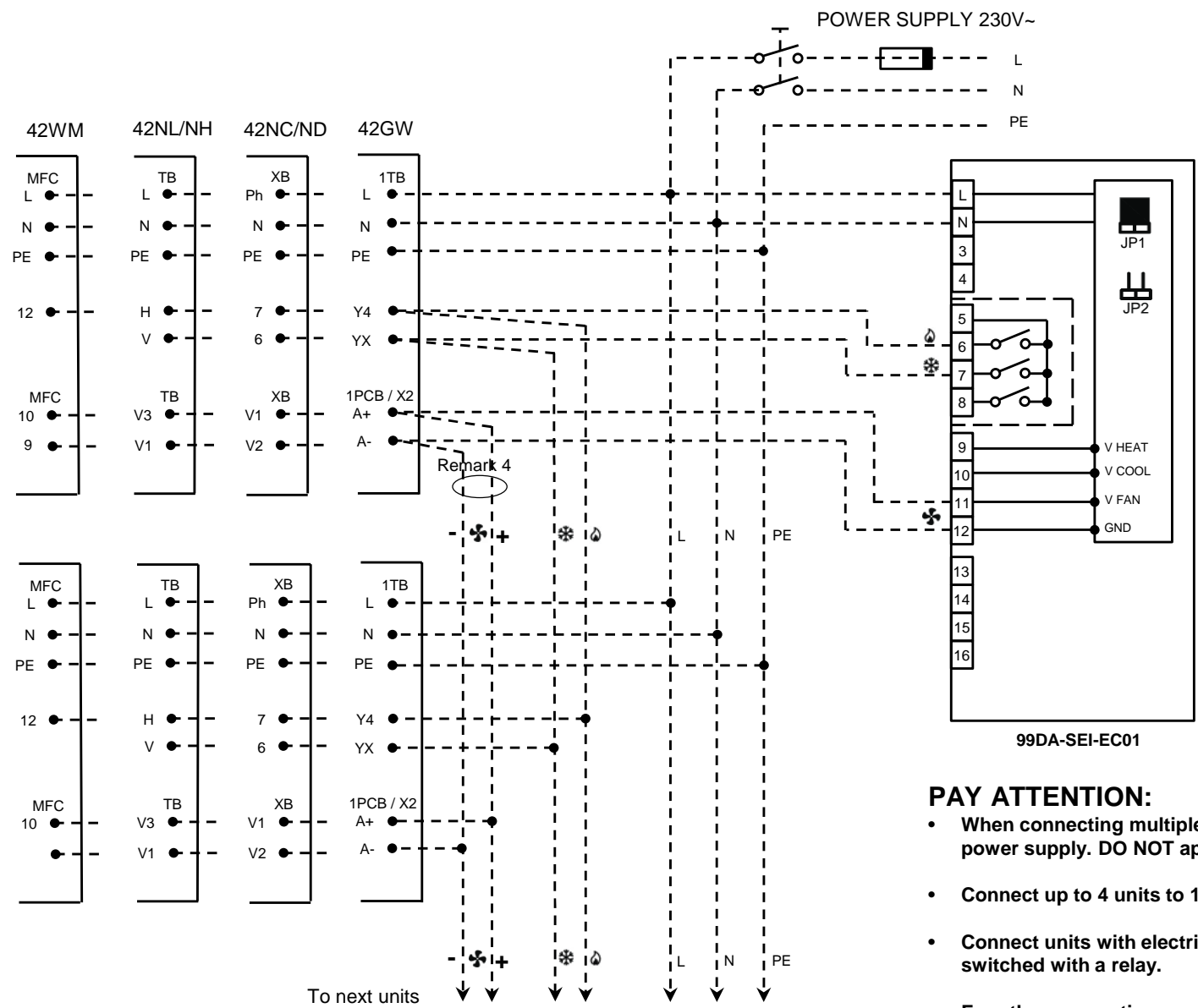
### APPLICATION

Thermostat type: 99DA-SEI-EC01

Fan coil units with EC fan: 0-10V control

Actuators of the 2- or 3-way valves: 230V – on/off

# Connecting multiple fan coil units



Connect up to 4 units to 1 thermostat



### PAY ATTENTION:

- When connecting multiple units to 1 thermostat, apply 1 central power supply. DO NOT apply a separate power supply per unit.
- Connect up to 4 units to 1 thermostat
- Connect units with electric heating ONLY if the electric heating is switched with a relay.
- For other connections, see the unit electrical wiring diagram

### REMARKS

- 1: All electrical connections must be made in accordance with the local regulations
- 2: ----- External cables (not supplied by Carrier)
- 3: Minimum cable diameter 1,5 mm<sup>2</sup> (230V~)
- 4: Use shielded cable for 0-10V signal cable of the fan motor
- 5: For other connections/information, see the electrical wiring diagram of the relevant unit

### APPLICATION

Thermostat type: 99DA-SEI-EC01  
 Fan coil units with EC fan: 0-10V control  
 Actuators of the 2- or 3-way valves: 230V – on/off