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**AHC-3000 Applications V5.0**

DATE 7/24/2019



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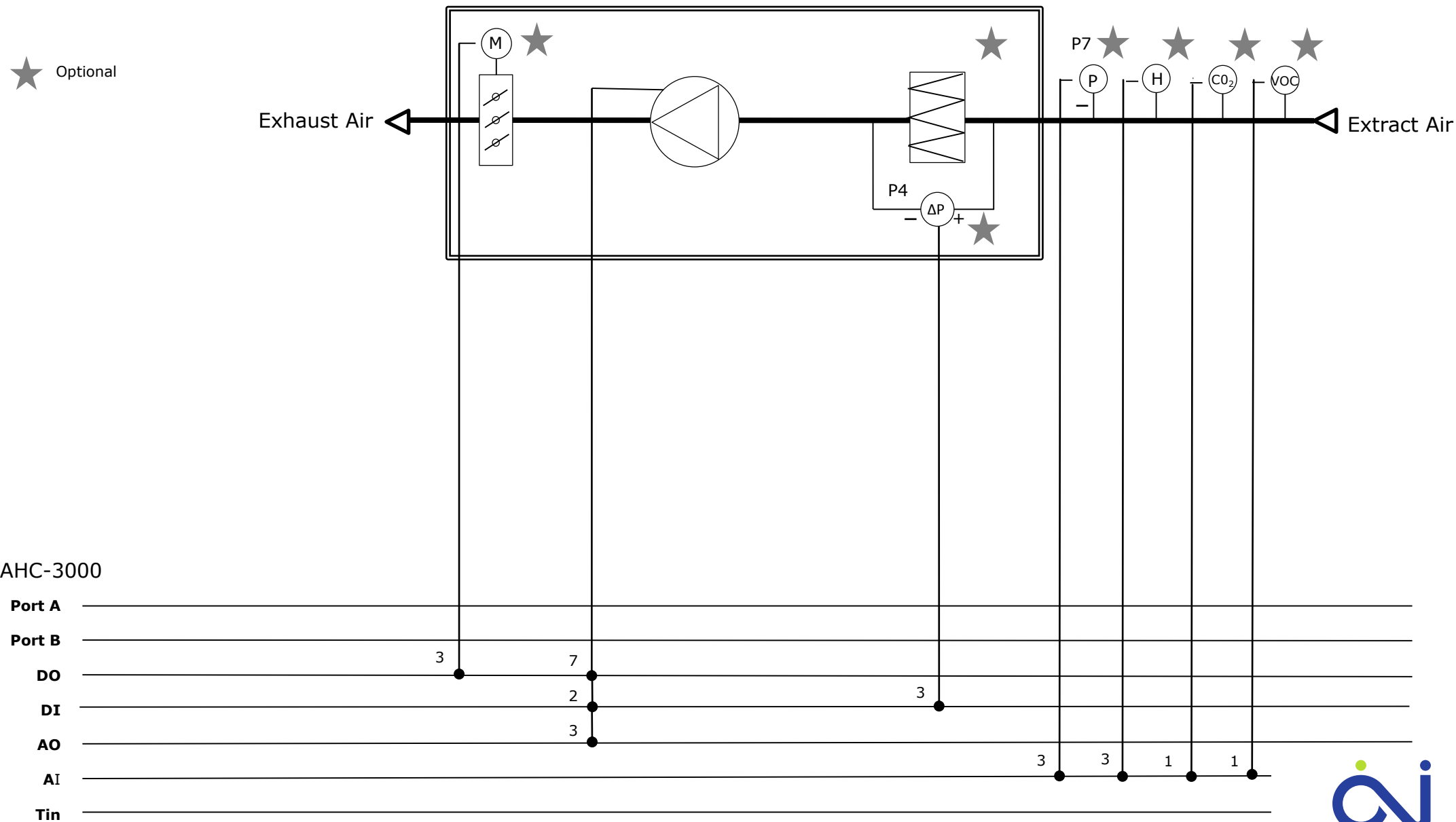
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# 001-A: Extract Fan (Traditional I/O controlled)



AHC-3000

|        |   |
|--------|---|
| Port A |   |
| Port B |   |
| DO     | 3 |
| DI     | 2 |
| AO     | 3 |
| AI     | 3 |
| Tin    | 1 |

# 001-A Parts list (Traditional I/O controlled)

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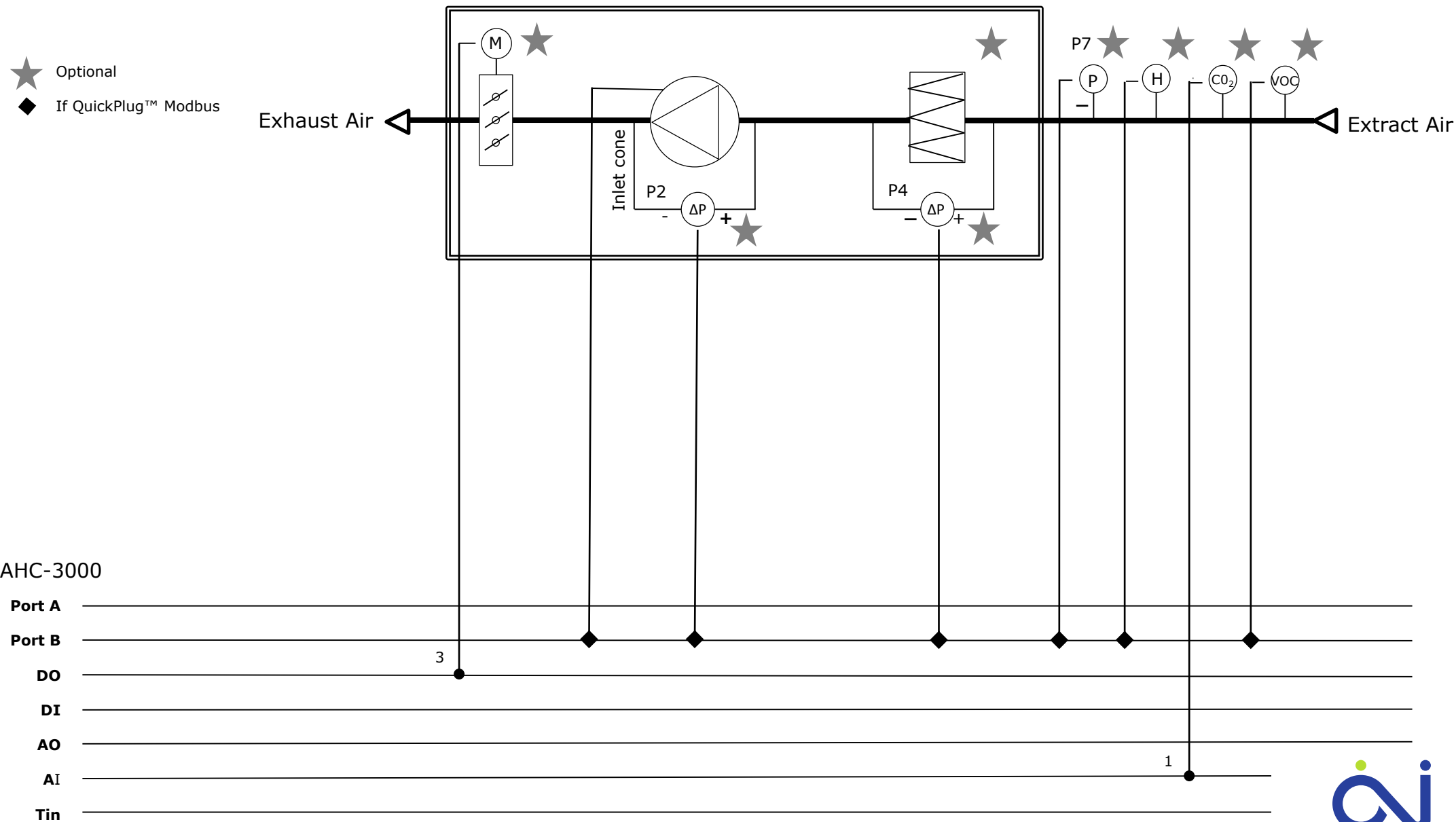
## OJ Electronics parts:

|                 |                         |                                                 |
|-----------------|-------------------------|-------------------------------------------------|
| AHU controller  | 1 Pcs. AHC-3000-T       | OJ-Air AHU controller TCP/IP                    |
| Connectors      | 1 Pcs. AHC-CONNECT-K1   | OJ-Air Mating connector kit                     |
| Touch Panel     | 1 Pcs. AHC-3000-HMI-35T | OJ-Air Touch HMI 3.5 inch                       |
| <u>Optional</u> |                         |                                                 |
| Fan drive       | 1 Pcs. OJ-DV-xxx        | VENTIDRIVE xx kW. Part. no. depends on fan size |
| Duct pressure   | 1 Pcs. PTH-3202         | PRESSURE TRANSMITTER,2500PA, 8 ranges, 0-10V    |

## 3rd. party parts

|                   |                   |                                             |
|-------------------|-------------------|---------------------------------------------|
| <u>Optional</u>   |                   |                                             |
| Fan               | 1 Pcs. 3rd. party | 0-10V controlled fan or On/Off.             |
| Filter monitoring | 1 Pcs. 3rd. party | Pressure switch                             |
| Humidity          | 1 Pcs. 3rd. party | Humidity sensor, room or duct 0-10V.        |
| CO <sub>2</sub>   | 1 Pcs. 3rd. party | CO <sub>2</sub> sensor, room or duct 0-10V. |
| VOC               | 1 Pcs. 3rd. party | VOC sensor, room or duct 0-10V.             |

# 001-B: Extract Fan (Modbus controlled)



# 001-B Parts list (Modbus controlled)

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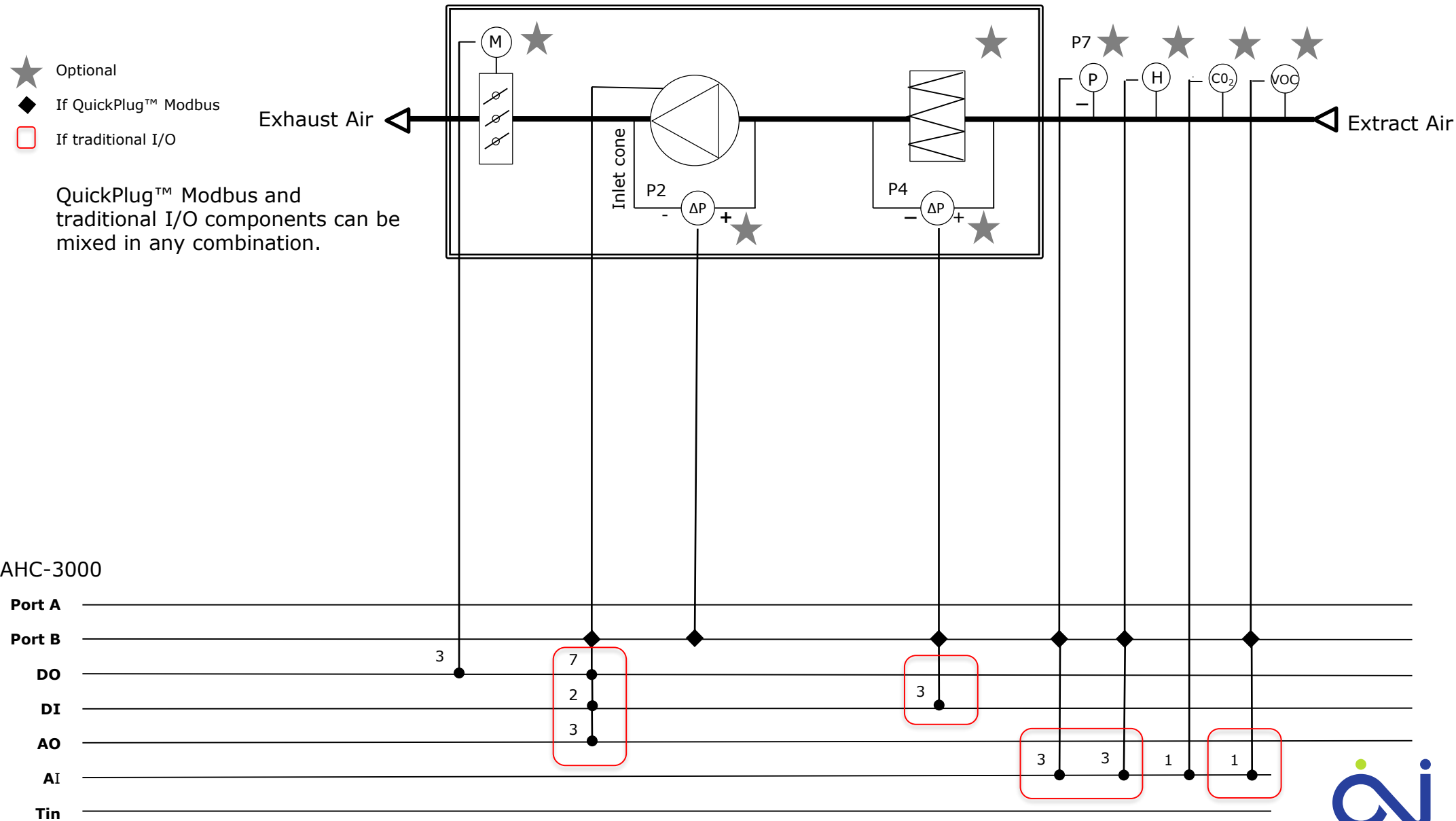
## OJ Electronics parts:

|                   |                         |                                                          |
|-------------------|-------------------------|----------------------------------------------------------|
| AHU controller    | 1 Pcs. AHC-3000-T       | OJ-Air AHU controller TCP/IP                             |
| Connectors        | 1 Pcs. AHC-CONNECT-K1   | OJ-Air Mating connector kit                              |
| Touch Panel       | 1 Pcs. AHC-3000-HMI-35T | OJ-Air Touch HMI 3.5 inch                                |
| Fan drive         | 1 Pcs. OJ-DV-xxx        | VENTIDRIVE xx kW. Part. no. depends on fan size          |
| <u>Optional</u>   |                         |                                                          |
| Flow measurement  | 1 Pcs. PTH-6202         | PRESSURE TRANSMITTER,2500PA,MODBUS                       |
| Filter monitoring | 1 Pcs. PTH-6202         | PRESSURE TRANSMITTER,2500PA,MODBUS                       |
| Duct pressure     | 1 Pcs. PTH-6202         | PRESSURE TRANSMITTER,2500PA,MODBUS                       |
| Humidity          | 1 Pcs. HTH-6202         | TEMP. HUMIDITY TRANSMITTER DUCT,7M,MODBUS,0x7A,-20 50° C |
| VOC               | 1 Pcs. VTH-6202         | VOC SENSOR , MODBUS                                      |

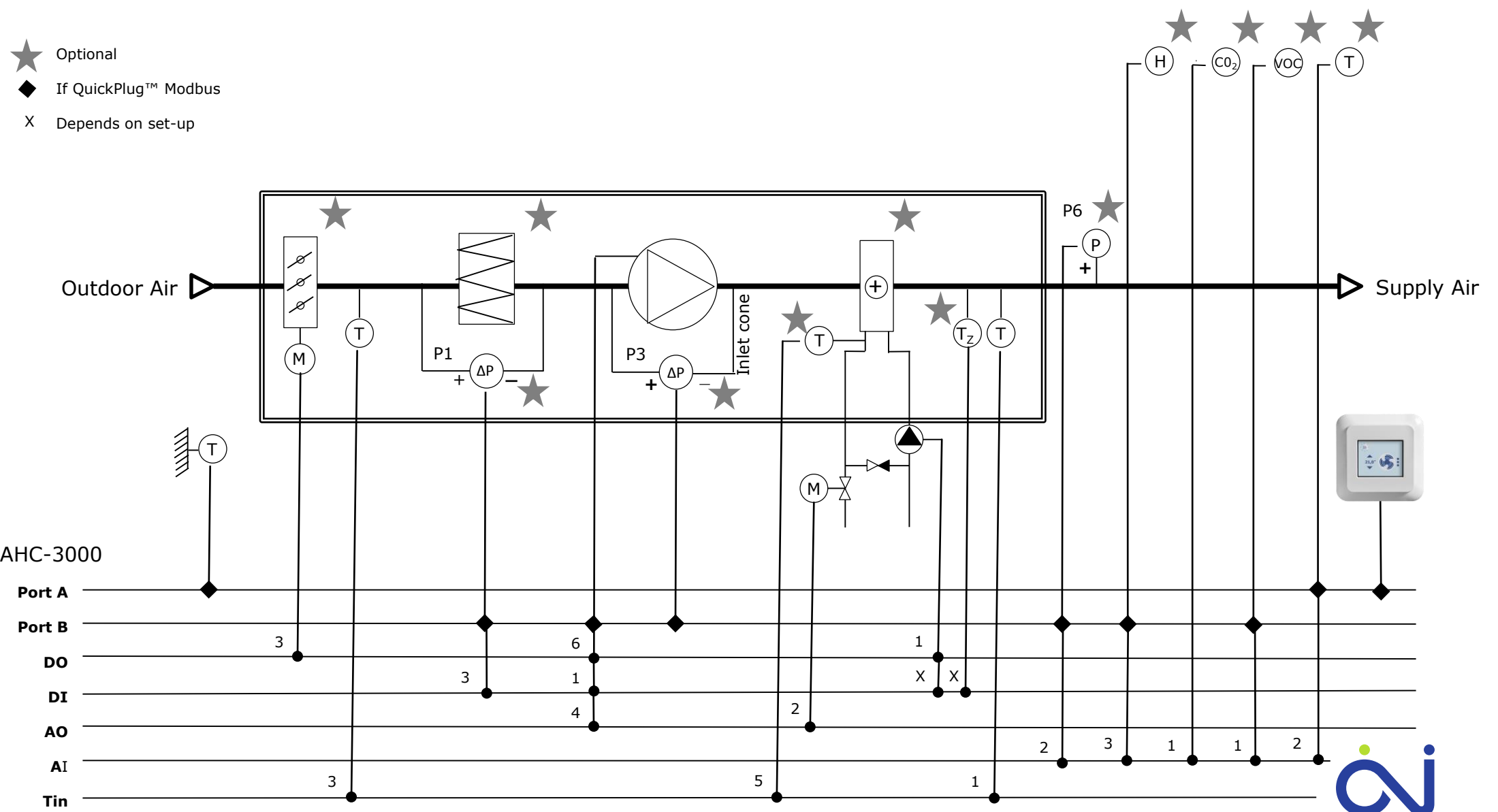
## 3rd. party parts

|                 |                   |                                             |
|-----------------|-------------------|---------------------------------------------|
| <u>Optional</u> |                   |                                             |
| CO <sub>2</sub> | 1 Pcs. 3rd. party | CO <sub>2</sub> sensor, room or duct 0-10V. |

# 001: Extract Fan (Mixed Modbus and Traditional I/O)



# 102: Supply air unit + After heating (Water)





# 102 to 105-2 Parts list (Traditional I/O controlled)

## OJ Electronics parts:

|                |                         |                                      |
|----------------|-------------------------|--------------------------------------|
| AHU controller | 1 Pcs. AHC-3000-T       | OJ-Air AHU controller TCP/IP         |
| Connectors     | 1 Pcs. AHC-CONNECT-K1   | OJ-Air Mating connector kit          |
| Touch Panel    | 1 Pcs. AHC-3000-HMI-35T | OJ-Air Touch HMI 3.5 inch            |
| Temp. sensors  | 2 Pcs. ETF-198B-5       | PT1000 SENSOR,5M,TPE,-40 150° C,BULB |

### Optional

|                        |                   |                                                 |
|------------------------|-------------------|-------------------------------------------------|
| Fan drive              | 1 Pcs. OJ-DV-xxx  | VENTIDRIVE xx kW. Part. no. depends on fan size |
| Watercoil return temp. | 1 Pcs. ETF-598B-5 | PT1000 SENSOR,5M,TPE,-40 150° C,STEEL           |
| Duct pressure          | 1 Pcs. PTH-3202   | PRESSURE TRANSMITTER,2500PA, 8 ranges, 0-10V    |

## 3rd. party parts

### Optional

|                   |                   |                                             |
|-------------------|-------------------|---------------------------------------------|
| Fan               | 1 Pcs. 3rd. party | 0-10V controlled fan or On/Off.             |
| Frost protection  | 1 Pcs. 3rd. party | Frost protection thermostat On/Off          |
| Filter monitoring | 1 Pcs. 3rd. party | Pressure switch                             |
| Humidity          | 1 Pcs. 3rd. party | Humidity sensor, room or duct 0-10V.        |
| CO <sub>2</sub>   | 1 Pcs. 3rd. party | CO <sub>2</sub> sensor, room or duct 0-10V. |
| VOC               | 1 Pcs. 3rd. party | VOC sensor, room or duct 0-10V.             |
| Room temperature  | 1 Pcs. 3rd. party | Temperature sensor 0 to 50° C, 0-10V        |

# 102 to 105 Parts list (Modbus controlled)

## OJ Electronics parts:

|                        |                         |                                                          |
|------------------------|-------------------------|----------------------------------------------------------|
| AHU controller         | 1 Pcs. AHC-3000-T       | OJ-Air AHU controller TCP/IP                             |
| Connectors             | 1 Pcs. AHC-CONNECT-K1   | OJ-Air Mating connector kit                              |
| Touch Panel            | 1 Pcs. AHC-3000-HMI-35T | OJ-Air Touch HMI 3.5 inch                                |
| Temp. sensors          | 2 Pcs. ETF-198B-5       | PT1000 SENSOR,5M,TPE,-40 150° C,BULB                     |
| Fan drive              | 1 Pcs. OJ-DV-xxx        | VENTIDRIVE xx kW. Part. no. depends on fan size          |
| <u>Optional</u>        |                         |                                                          |
| Watercoil return temp. | 1 Pcs. ETF-598B-5       | PT1000 SENSOR,5M,TPE,-40 150° C,STEEL                    |
| Flow measurement       | 1 Pcs. PTH-6202         | PRESSURE TRANSMITTER,2500PA,MODBUS                       |
| Filter monitoring      | 1 Pcs. PTH-6202         | PRESSURE TRANSMITTER,2500PA,MODBUS                       |
| Duct pressure          | 1 Pcs. PTH-6202         | PRESSURE TRANSMITTER,2500PA,MODBUS                       |
| Humidity               | 1 Pcs. HTH-6202         | TEMP. HUMIDITY TRANSMITTER DUCT,7M,MODBUS,0x7A,-20 50° C |
| VOC                    | 1 Pcs. VTH-6202         | VOC SENSOR , MODBUS                                      |
| Room temperature       | 1 Pcs. TTH-6040-W       | ROOM TEMPERATURE SENSOR MODBUS                           |
| Outdoor temperature    | 1 Pcs. TTH-6040-O       | OUTDOOR TEMPERATURE SENSOR MODBUS                        |
| Touch panel            | 1 Pcs. OJ-AIR2-HMI-20T  | 2" COLOUR TOUCH SCREEN CONTROL INTERFACE FOR HMI OJAIR2  |

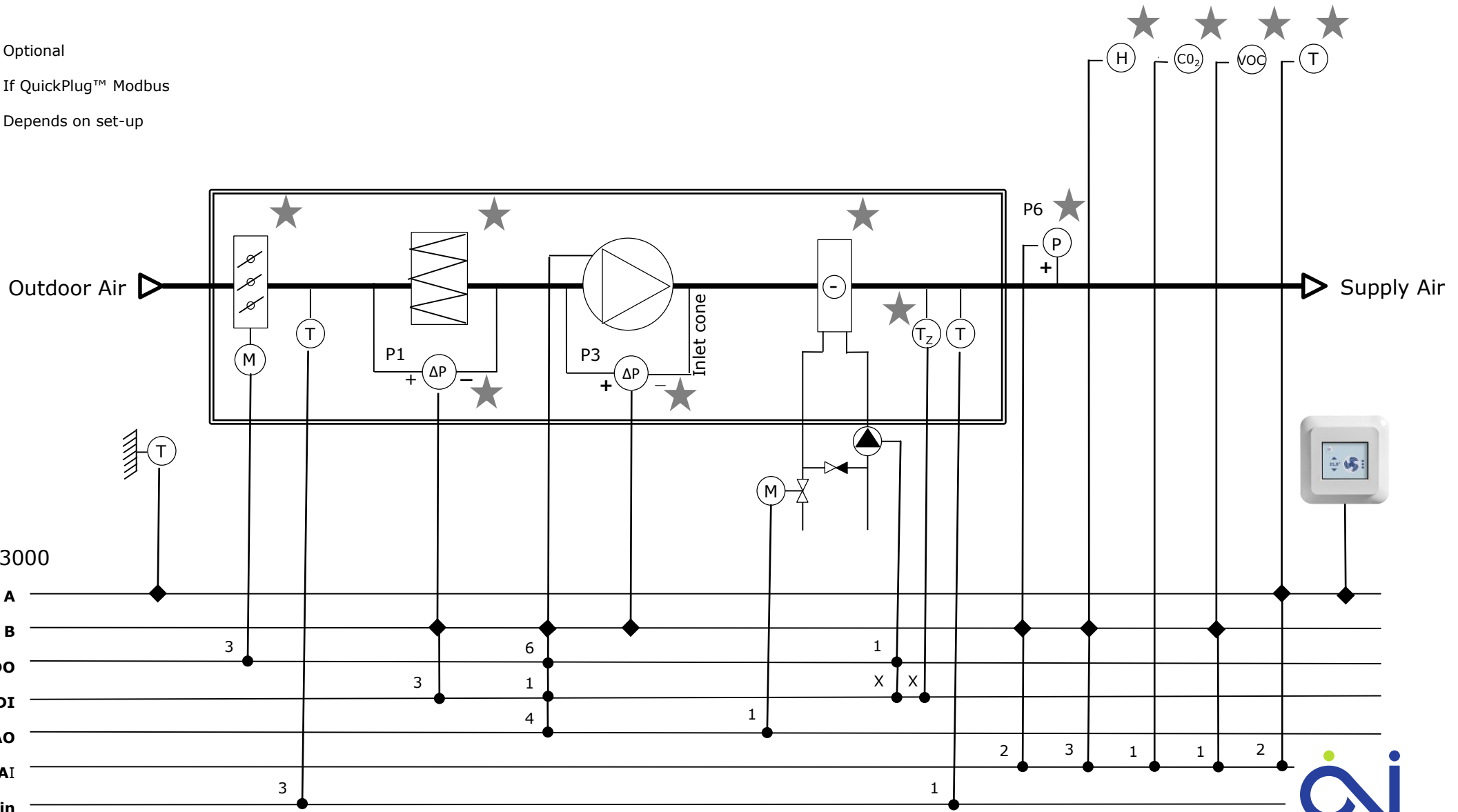
## 3rd. party parts

### Optional

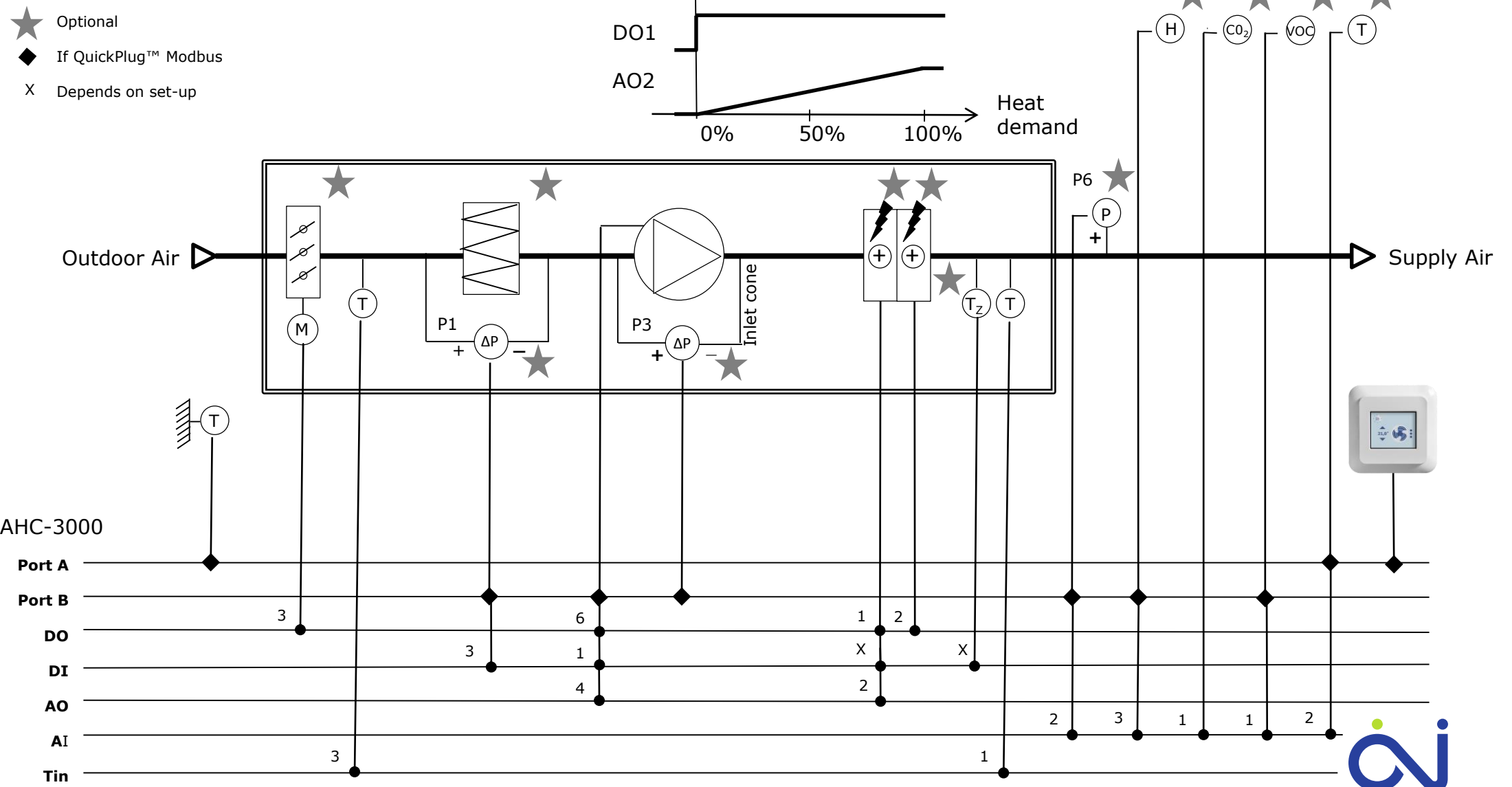
|                  |                   |                                             |
|------------------|-------------------|---------------------------------------------|
| Frost protection | 1 Pcs. 3rd. party | Frost protection thermostat On/Off          |
| CO <sub>2</sub>  | 1 Pcs. 3rd. party | CO <sub>2</sub> sensor, room or duct 0-10V. |

# 103: Supply air unit + After cooling (Water)

- ★ Optional
- ◆ If QuickPlug™ Modbus
- X Depends on set-up

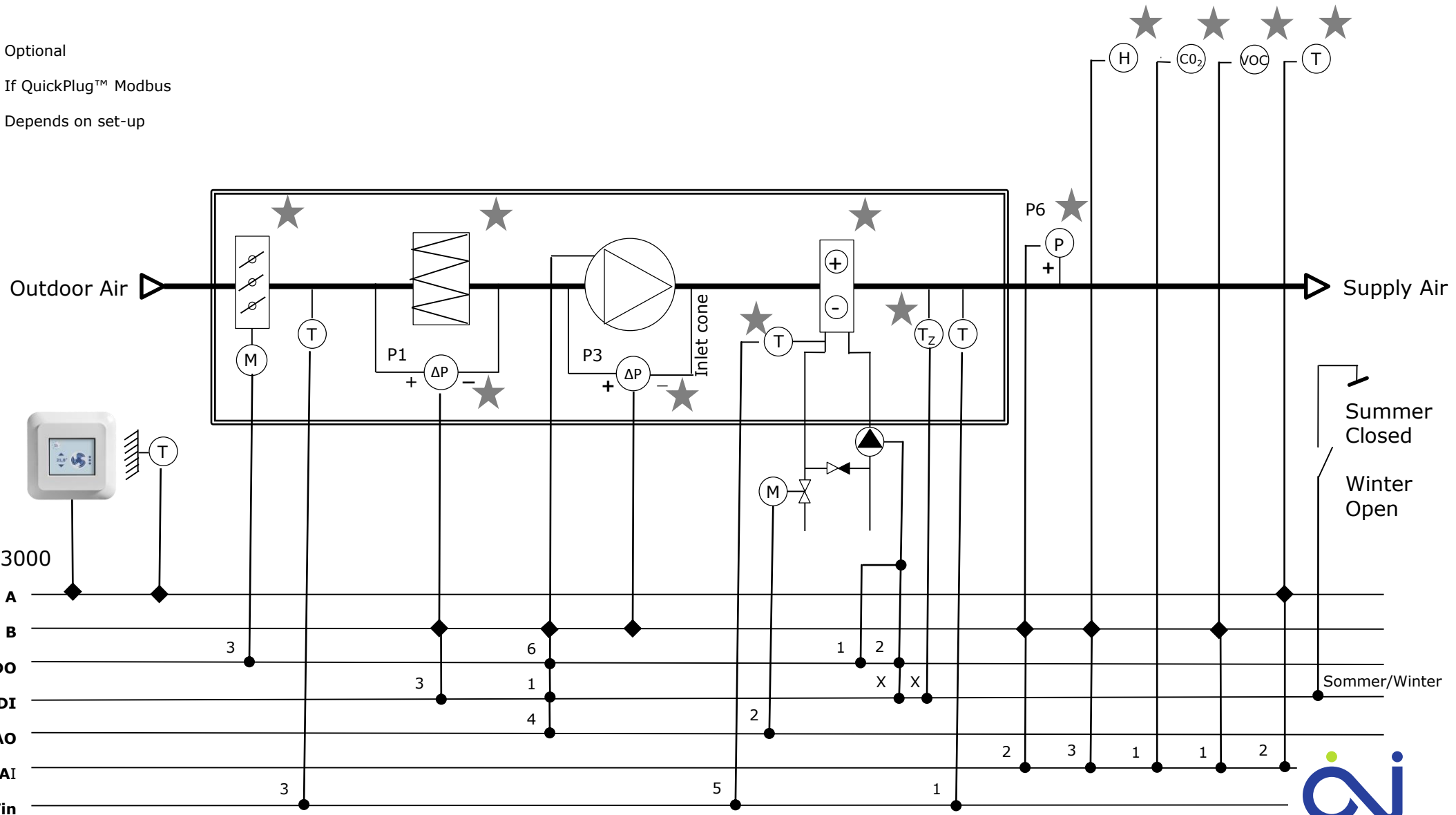


# 104: Supply air unit + After heating (Electric)



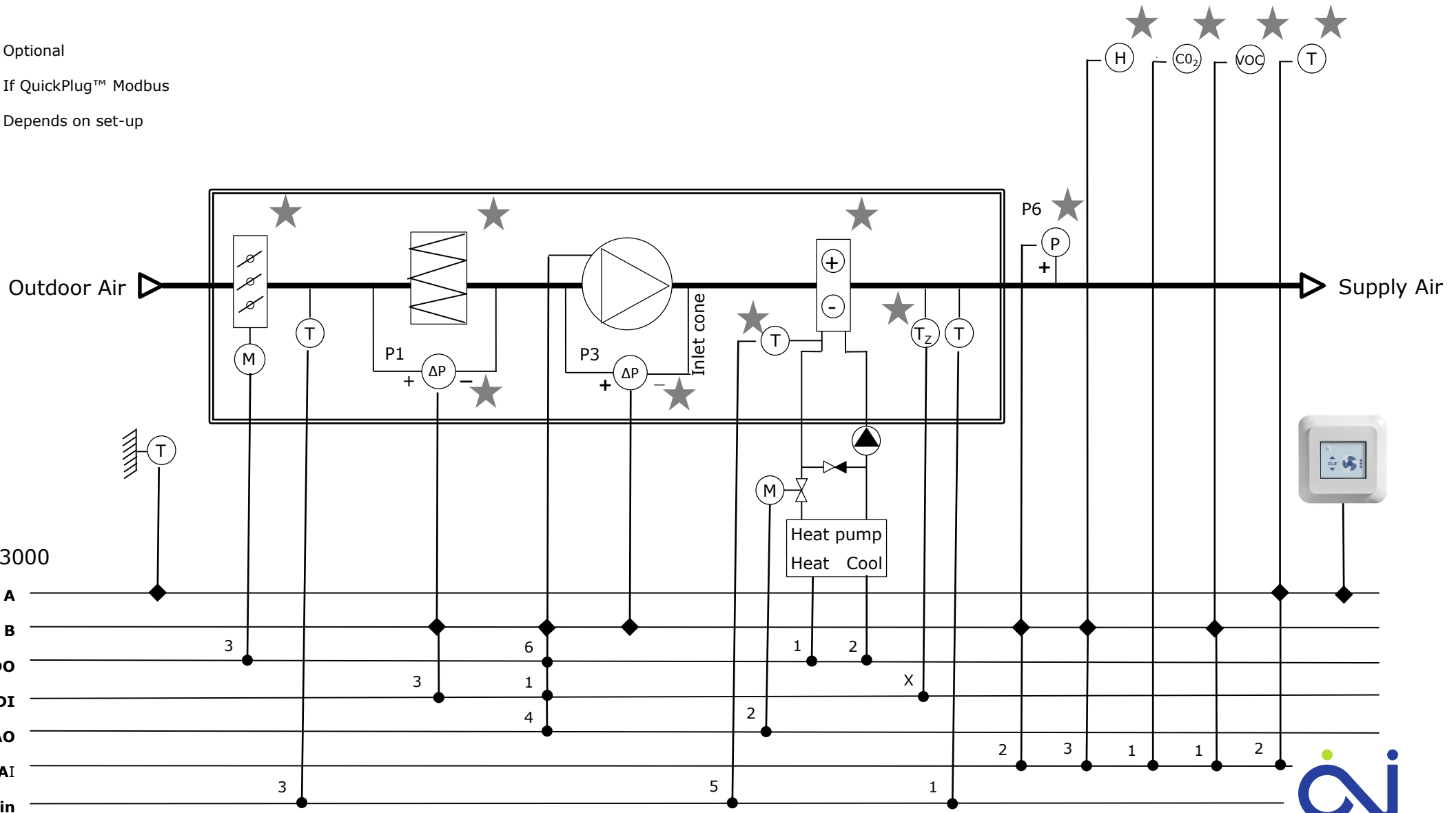
# 105: Supply air unit + Combi coil (Water) + Summer/Winter

- ★ Optional
- ◆ If QuickPlug™ Modbus
- X Depends on set-up



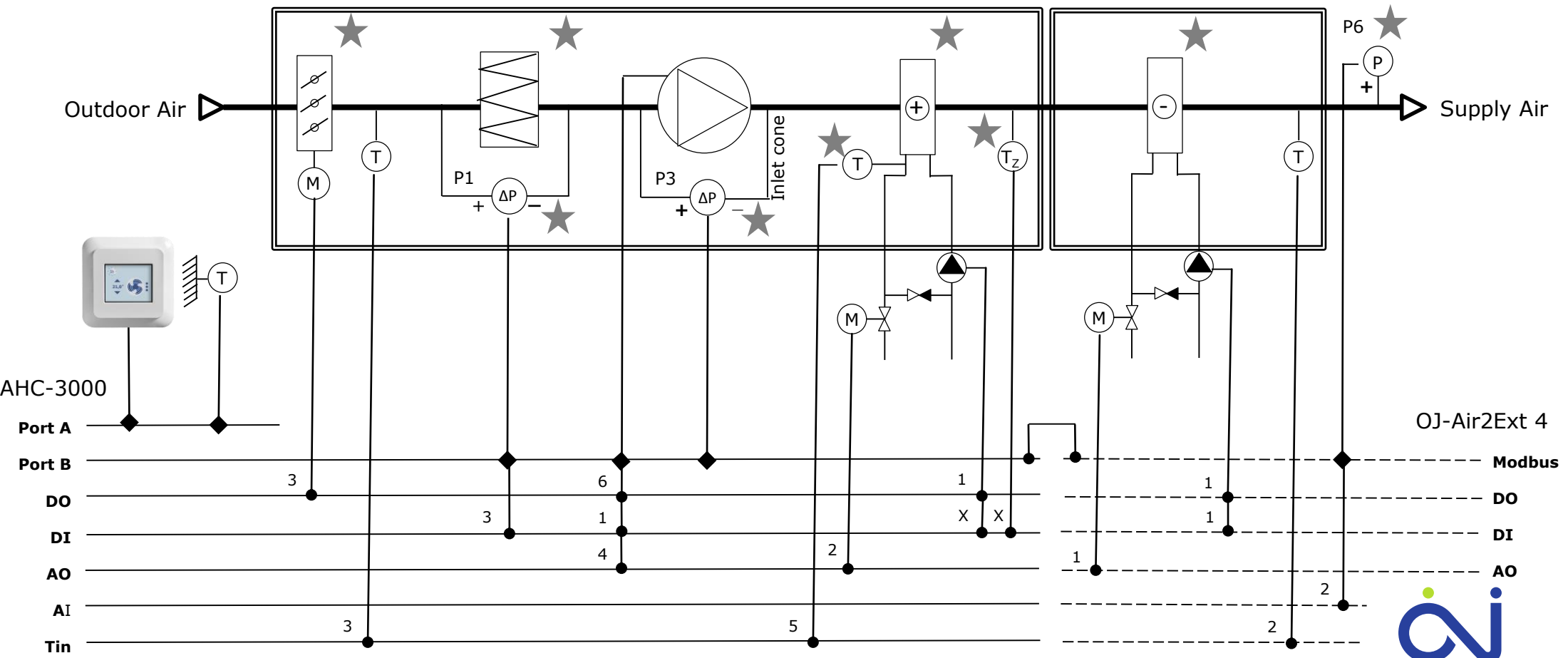
# 105-2: Supply air unit + Combi coil (Water) + Heat pump

- ★ Optional
- ◆ If QuickPlug™ Modbus
- X Depends on set-up



# 106: Supply air unit +After heating(Water) +After cooling(Water)

- ★ Optional
- ◆ If QuickPlug™ Modbus
- X Depends on set-up



# 106 to 109 Parts list (Traditional I/O controlled)

## OJ Electronics parts:

|                 |                         |                                      |
|-----------------|-------------------------|--------------------------------------|
| AHU controller  | 1 Pcs. AHC-3000-T       | OJ-Air AHU controller TCP/IP         |
| Connectors      | 1 Pcs. AHC-CONNECT-K1   | OJ-Air Mating connector kit          |
| Touch Panel     | 1 Pcs. AHC-3000-HMI-35T | OJ-Air Touch HMI 3.5 inch            |
| Temp. sensors   | 2 Pcs. ETF-198B-5       | PT1000 SENSOR,5M,TPE,-40 150° C,BULB |
| I/O Ext. module | 1 Pcs. OJ-AIR2EXT       | OJ-AIR2 EXTENSION MODUL              |

### Optional

|                        |                   |                                                 |
|------------------------|-------------------|-------------------------------------------------|
| Fan drive              | 1 Pcs. OJ-DV-xxx  | VENTIDRIVE xx kW. Part. no. depends on fan size |
| Watercoil return temp. | 1 Pcs. ETF-598B-5 | PT1000 SENSOR,5M,TPE,-40 150° C,STEEL           |
| Duct pressure          | 1 Pcs. PTH-3202   | PRESSURE TRANSMITTER,2500PA, 8 ranges, 0-10V    |

## 3rd. party parts

### Optional

|                   |                   |                                             |
|-------------------|-------------------|---------------------------------------------|
| Fan               | 1 Pcs. 3rd. party | 0-10V controlled fan or On/Off.             |
| Frost protection  | 1 Pcs. 3rd. party | Frost protection thermostat On/Off          |
| Filter monitoring | 1 Pcs. 3rd. party | Pressure switch                             |
| Humidity          | 1 Pcs. 3rd. party | Humidity sensor, room or duct 0-10V.        |
| CO <sub>2</sub>   | 1 Pcs. 3rd. party | CO <sub>2</sub> sensor, room or duct 0-10V. |
| VOC               | 1 Pcs. 3rd. party | VOC sensor, room or duct 0-10V.             |
| Room temperature  | 1 Pcs. 3rd. party | Temperature sensor 0 to 50° C, 0-10V        |



# 106 to 109 Parts list (Modbus controlled)

## OJ Electronics parts:

|                        |                         |                                                          |
|------------------------|-------------------------|----------------------------------------------------------|
| AHU controller         | 1 Pcs. AHC-3000-T       | OJ-Air AHU controller TCP/IP                             |
| Connectors             | 1 Pcs. AHC-CONNECT-K1   | OJ-Air Mating connector kit                              |
| Touch Panel            | 1 Pcs. AHC-3000-HMI-35T | OJ-Air Touch HMI 3.5 inch                                |
| Temp. sensors          | 2 Pcs. ETF-198B-5       | PT1000 SENSOR,5M,TPE,-40 150° C,BULB                     |
| I/O Ext. module        | 1 Pcs. OJ-AIR2EXT       | OJ-AIR2 EXTENSION MODUL                                  |
| Fan drive              | 1 Pcs. OJ-DV-xxx        | VENTIDRIVE xx kW. Part. no. depends on fan size          |
| <u>Optional</u>        |                         |                                                          |
| Watercoil return temp. | 1 Pcs. ETF-598B-5       | PT1000 SENSOR,5M,TPE,-40 150° C,STEEL                    |
| Flow measurement       | 1 Pcs. PTH-6202         | PRESSURE TRANSMITTER,2500PA,MODBUS                       |
| Filter monitoring      | 1 Pcs. PTH-6202         | PRESSURE TRANSMITTER,2500PA,MODBUS                       |
| Duct pressure          | 1 Pcs. PTH-6202         | PRESSURE TRANSMITTER,2500PA,MODBUS                       |
| Humidity               | 1 Pcs. HTH-6202         | TEMP. HUMIDITY TRANSMITTER DUCT,7M,MODBUS,0x7A,-20 50° C |
| VOC                    | 1 Pcs. VTH-6202         | VOC SENSOR , MODBUS                                      |
| Room temperature       | 1 Pcs. TTH-6040-W       | ROOM TEMPERATURE SENSOR MODBUS                           |
| Outdoor temperature    | 1 Pcs. TTH-6040-O       | OUTDOOR TEMPERATURE SENSOR MODBUS                        |
| Touch panel            | 1 Pcs. OJ-AIR2-HMI-20T  | 2" COLOUR TOUCH SCREEN CONTROL INTERFACE FOR HMI OJAIR2  |

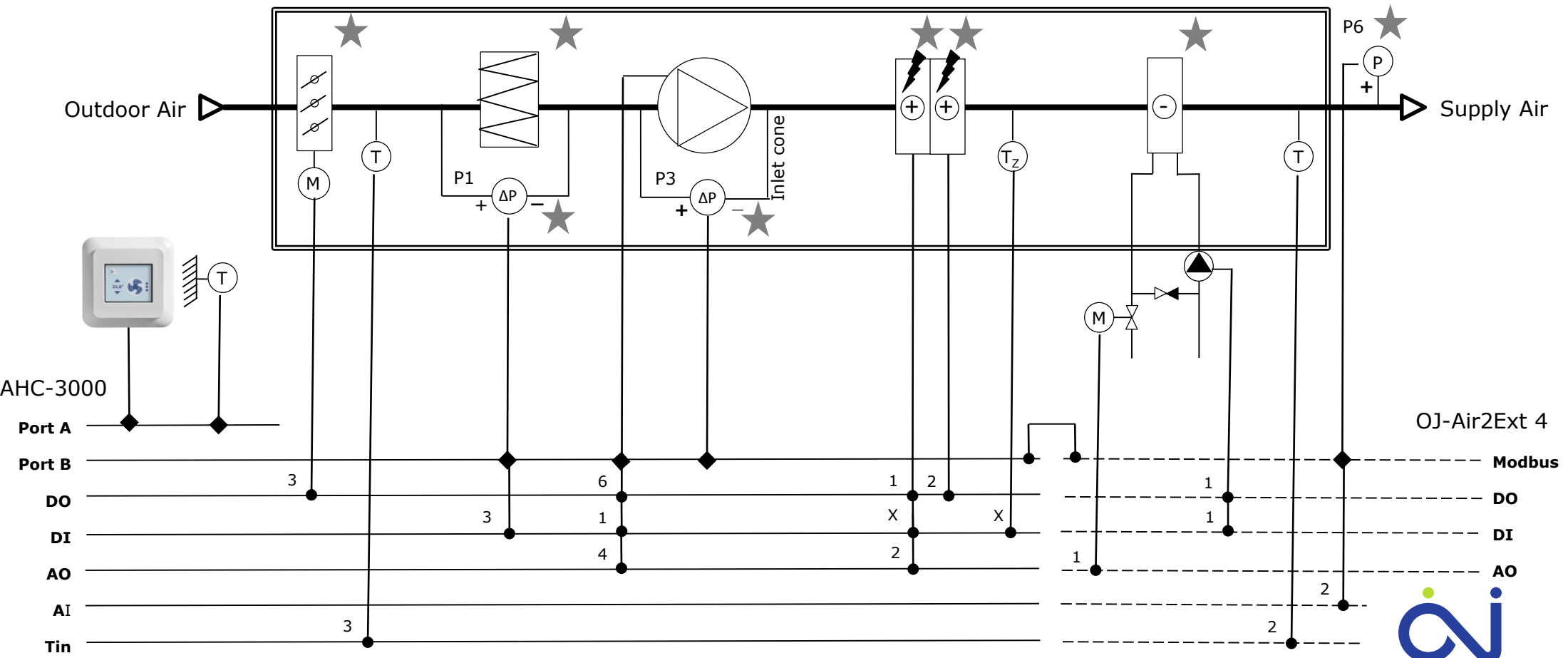
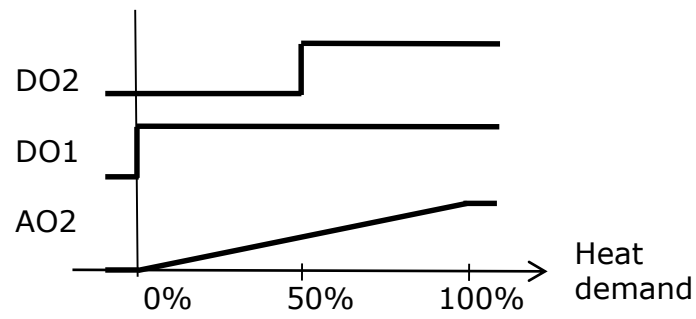
## 3rd. party parts

### Optional

|                  |                   |                                             |
|------------------|-------------------|---------------------------------------------|
| Frost protection | 1 Pcs. 3rd. party | Frost protection thermostat On/Off          |
| CO <sub>2</sub>  | 1 Pcs. 3rd. party | CO <sub>2</sub> sensor, room or duct 0-10V. |

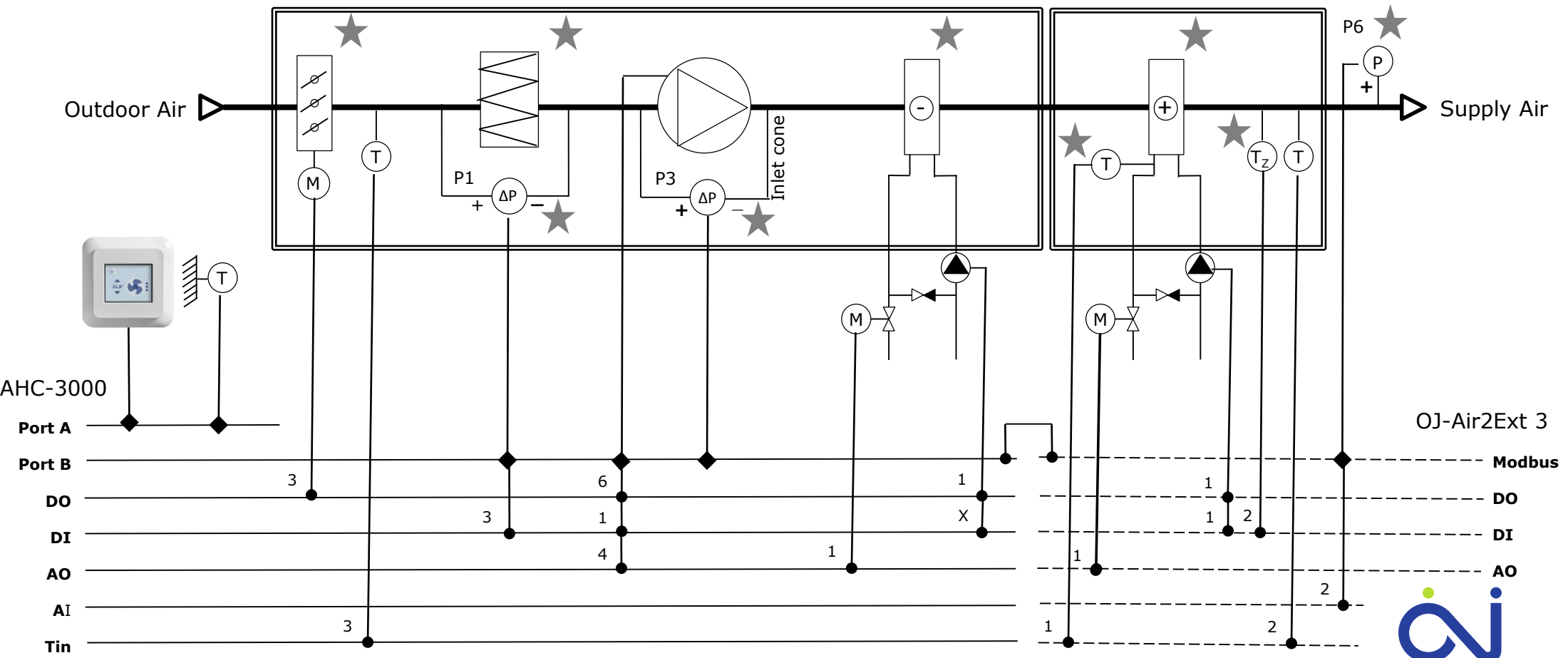
# 107: Supply air unit +After heating(Electric) +After cooling(Water)

- ★ Optional
- ◆ If QuickPlug™ Modbus
- X Depends on set-up

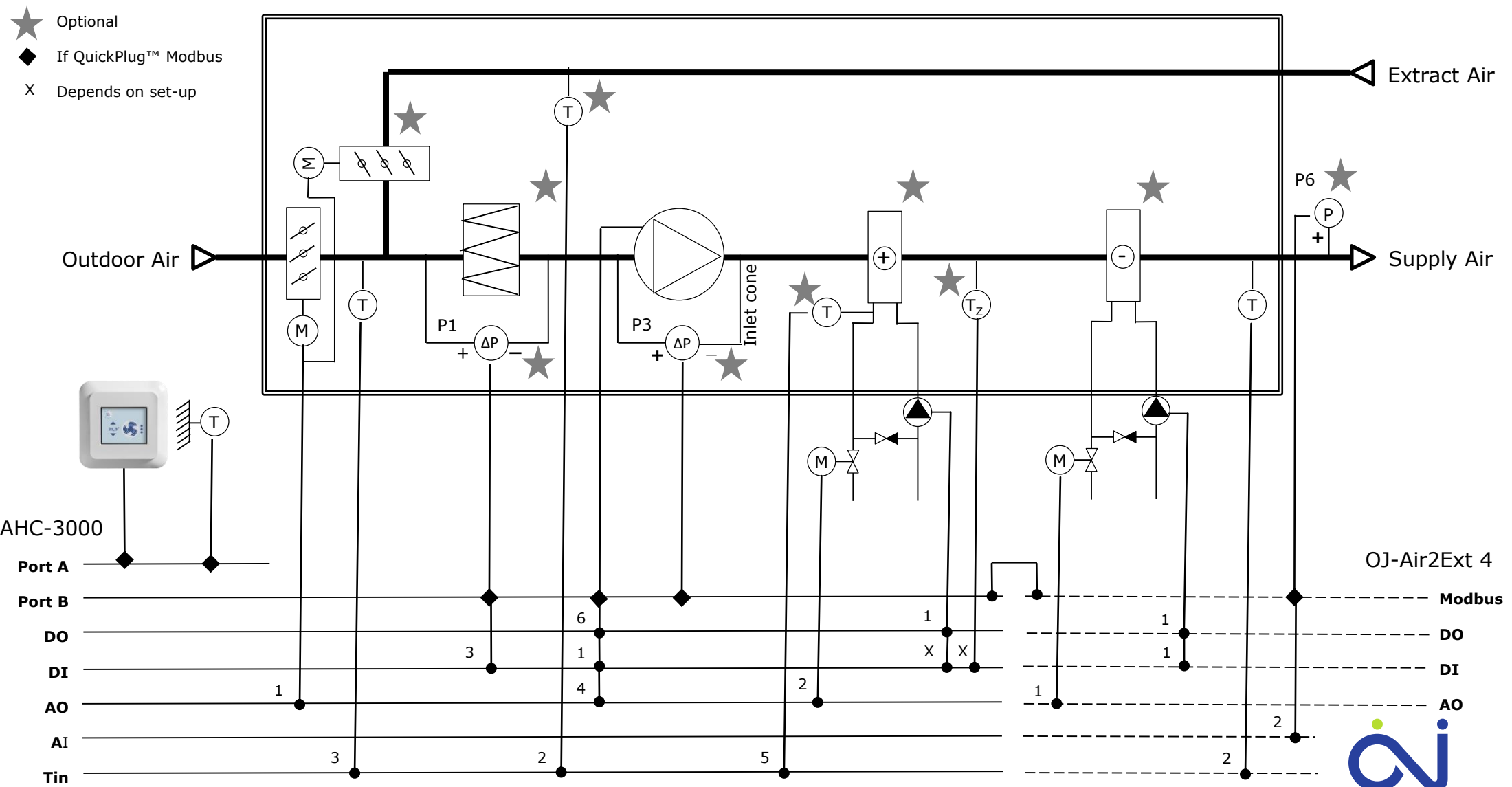


# 108: Supply air unit +After cooling (Water) +After heating(Water)

- ★ Optional
- ◆ If QuickPlug™ Modbus
- X Depends on set-up



# 109: Supply air unit +Mixing damper +After heating(Water)+After cooling(Water)



## 202 to 502: After heating, cooling and combicoil combinations

---

All the combinations of after heating, cooling and combi coil shown in:

102: Supply air unit + After heating (Water)

103: Supply air unit + After cooling (Water)

104: Supply air unit + After heating (Electric)

105: Supply air unit + Combi coil (Water) + Summer/Winter

105-2: Supply air unit + Combi coil (Water) + Heat pump

106: Supply air unit +After heating(Water) +After cooling(Water)

107: Supply air unit +After heating(Electric) +After cooling(Water)

108: Supply air unit +After cooling (Water) +After heating(Water)

are also possible for the applications 202 to 502.



# 202, 302 and 502 Parts list (Traditional I/O controlled)

## OJ Electronics parts:

|                |                         |                                      |
|----------------|-------------------------|--------------------------------------|
| AHU controller | 1 Pcs. AHC-3000-T       | OJ-Air AHU controller TCP/IP         |
| Connectors     | 1 Pcs. AHC-CONNECT-K1   | OJ-Air Mating connector kit          |
| Touch Panel    | 1 Pcs. AHC-3000-HMI-35T | OJ-Air Touch HMI 3.5 inch            |
| Temp. sensors  | 4 Pcs. ETF-198B-5       | PT1000 SENSOR,5M,TPE,-40 150° C,BULB |

### Optional

|                        |                   |                                                 |
|------------------------|-------------------|-------------------------------------------------|
| Fan drive              | 2 Pcs. OJ-DV-xxx  | VENTIDRIVE xx kW. Part. no. depends on fan size |
| Watercoil return temp. | 1 Pcs. ETF-598B-5 | PT1000 SENSOR,5M,TPE,-40 150° C,STEEL           |
| Duct pressure          | 2 Pcs. PTH-3202   | PRESSURE TRANSMITTER,2500PA, 8 ranges, 0-10V    |

## 3rd. party parts

### Optional

|                   |                   |                                             |
|-------------------|-------------------|---------------------------------------------|
| Fan               | 2 Pcs. 3rd. party | 0-10V controlled fan or On/Off.             |
| Frost protection  | 1 Pcs. 3rd. party | Frost protection thermostat On/Off          |
| Filter monitoring | 2 Pcs. 3rd. party | Pressure switch                             |
| Humidity          | 1 Pcs. 3rd. party | Humidity sensor, room or duct 0-10V.        |
| CO <sub>2</sub>   | 1 Pcs. 3rd. party | CO <sub>2</sub> sensor, room or duct 0-10V. |
| VOC               | 1 Pcs. 3rd. party | VOC sensor, room or duct 0-10V.             |
| Room temperature  | 1 Pcs. 3rd. party | Temperature sensor 0 to 50° C, 0-10V        |

# 202, 302 and 502 Parts list (Modbus controlled)

## OJ Electronics parts:

|                |                         |                                                 |
|----------------|-------------------------|-------------------------------------------------|
| AHU controller | 1 Pcs. AHC-3000-T       | OJ-Air AHU controller TCP/IP                    |
| Connectors     | 1 Pcs. AHC-CONNECT-K1   | OJ-Air Mating connector kit                     |
| Touch Panel    | 1 Pcs. AHC-3000-HMI-35T | OJ-Air Touch HMI 3.5 inch                       |
| Temp. sensors  | 4 Pcs. ETF-198B-5       | PT1000 SENSOR,5M,TPE,-40 150° C,BULB            |
| Fan drive      | 2 Pcs. OJ-DV-xxx        | VENTIDRIVE xx kW. Part. no. depends on fan size |

### Optional

|                        |                        |                                                          |
|------------------------|------------------------|----------------------------------------------------------|
| Watercoil return temp. | 1 Pcs. ETF-598B-5      | PT1000 SENSOR,5M,TPE,-40 150° C,STEEL                    |
| Flow measurement       | 2 Pcs. PTH-6202        | PRESSURE TRANSMITTER,2500PA,MODBUS                       |
| Filter monitoring      | 2 Pcs. PTH-6202        | PRESSURE TRANSMITTER,2500PA,MODBUS                       |
| Duct pressure          | 2 Pcs. PTH-6202        | PRESSURE TRANSMITTER,2500PA,MODBUS                       |
| Humidity               | 1 Pcs. HTH-6202        | TEMP. HUMIDITY TRANSMITTER DUCT,7M,MODBUS,0x7A,-20 50° C |
| VOC                    | 1 Pcs. VTH-6202        | VOC SENSOR , MODBUS                                      |
| Room temperature       | 1 Pcs. TTH-6040-W      | ROOM TEMPERATURE SENSOR MODBUS                           |
| Outdoor temperature    | 1 Pcs. TTH-6040-O      | OUTDOOR TEMPERATURE SENSOR MODBUS                        |
| Touch panel            | 1 Pcs. OJ-AIR2-HMI-20T | 2" COLOUR TOUCH SCREEN CONTROL INTERFACE FOR HMI OJAIR2  |

## 3rd. party parts

### Optional

|                  |                   |                                             |
|------------------|-------------------|---------------------------------------------|
| Frost protection | 1 Pcs. 3rd. party | Frost protection thermostat On/Off          |
| CO <sub>2</sub>  | 1 Pcs. 3rd. party | CO <sub>2</sub> sensor, room or duct 0-10V. |





# 202-2,302-2 and 505-2 Parts list (Modbus controlled)

## OJ Electronics parts:

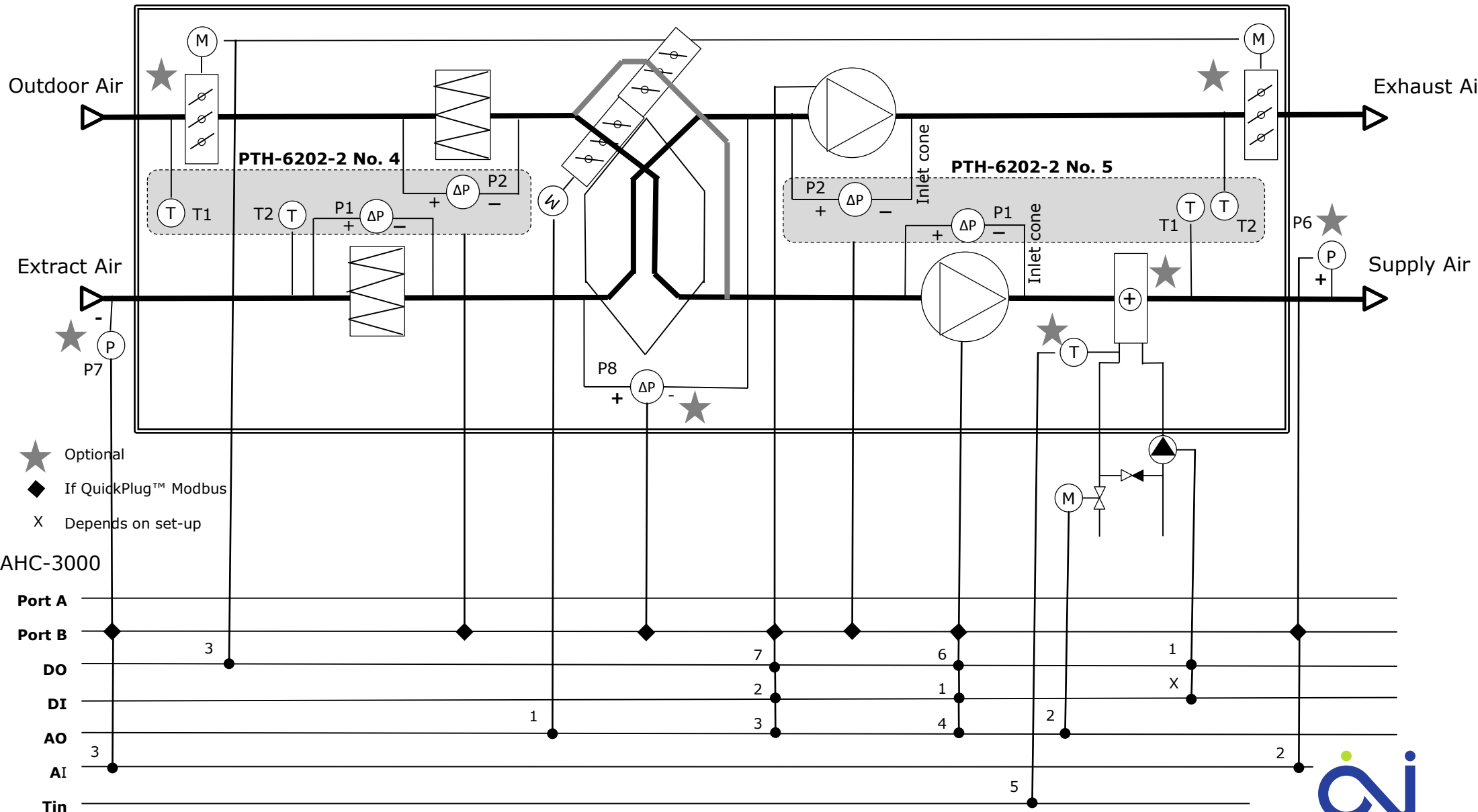
|                          |                         |                                                          |
|--------------------------|-------------------------|----------------------------------------------------------|
| AHU controller           | 1 Pcs. AHC-3000-T       | OJ-Air AHU controller TCP/IP                             |
| Connectors               | 1 Pcs. AHC-CONNECT-K1   | OJ-Air Mating connector kit                              |
| Touch Panel              | 1 Pcs. AHC-3000-HMI-35T | OJ-Air Touch HMI 3.5 inch                                |
| Temp. sensors            | 4 Pcs. ETF-198B-5       | PT1000 SENSOR,5M,TPE,-40 150° C,BULB                     |
| Fan drive                | 2 Pcs. OJ-DV-xxx        | VENTIDRIVE xx kW. Part. no. depends on fan size          |
| <u>Optional</u>          |                         |                                                          |
| Watercoil return temp.   | 1 Pcs. ETF-598B-5       | PT1000 SENSOR,5M,TPE,-40 150° C,STEEL                    |
| Flow & filter monitoring | 2 Pcs. PTH-6202-2       | DUAL PRESSURE TRANSMITTER,2500PA,MODBUS,TEMP             |
| Duct pressure            | 1 Pcs. PTH-6202-2       | DUAL PRESSURE TRANSMITTER,2500PA,MODBUS,TEMP             |
| Humidity                 | 1 Pcs. HTH-6202         | TEMP. HUMIDITY TRANSMITTER DUCT,7M,MODBUS,0x7A,-20 50° C |
| VOC                      | 1 Pcs. VTH-6202         | VOC SENSOR , MODBUS                                      |
| Room temperature         | 1 Pcs. TTH-6040-W       | ROOM TEMPERATURE SENSOR MODBUS                           |
| Outdoor temperature      | 1 Pcs. TTH-6040-O       | OUTDOOR TEMPERATURE SENSOR MODBUS                        |
| Touch panel              | 1 Pcs. OJ-AIR2-HMI-20T  | 2" COLOUR TOUCH SCREEN CONTROL INTERFACE FOR HMI OJAIR2  |

## 3rd. party parts

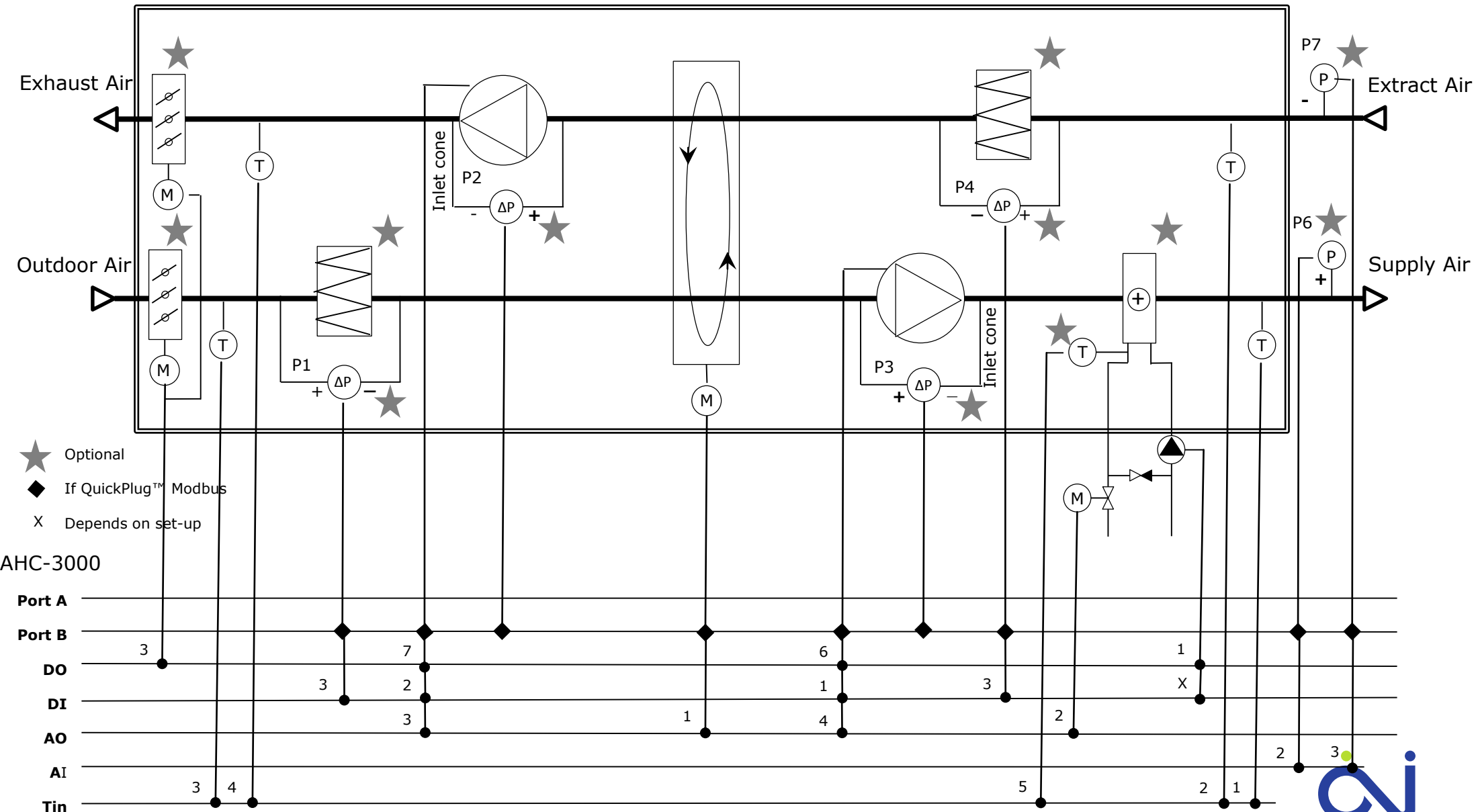
|                  |                   |                                             |
|------------------|-------------------|---------------------------------------------|
| <u>Optional</u>  |                   |                                             |
| Frost protection | 1 Pcs. 3rd. party | Frost protection thermostat On/Off          |
| CO <sub>2</sub>  | 1 Pcs. 3rd. party | CO <sub>2</sub> sensor, room or duct 0-10V. |



# 302-2: Counter flow Exchanger AHU + After heating (Water)



# 402: Rotary Exchanger AHU + After heating (Water)



# 402 Parts list (Traditional I/O controlled)

## OJ Electronics parts:

|                |                         |                                                     |
|----------------|-------------------------|-----------------------------------------------------|
| AHU controller | 1 Pcs. AHC-3000-T       | OJ-Air AHU controller TCP/IP                        |
| Connectors     | 1 Pcs. AHC-CONNECT-K1   | OJ-Air Mating connector kit                         |
| Touch Panel    | 1 Pcs. AHC-3000-HMI-35T | OJ-Air Touch HMI 3.5 inch                           |
| Temp. sensors  | 4 Pcs. ETF-198B-5       | PT1000 SENSOR,5M,TPE,-40 150° C,BULB                |
| Rotor drive    | 1 Pcs. OJ-DRHX-xxx      | DRIVE HEAT EX xx W. Part. no. depends on Rotor size |
| Rotor motor    | 1 Pcs. MRHX-xx          | STEPMOTOR,x NM, Part. no. depends on Rotor size     |

### Optional

|                        |                   |                                                 |
|------------------------|-------------------|-------------------------------------------------|
| Fan drive              | 2 Pcs. OJ-DV-xxx  | VENTIDRIVE xx kW. Part. no. depends on fan size |
| Watercoil return temp. | 1 Pcs. ETF-598B-5 | PT1000 SENSOR,5M,TPE,-40 150° C,STEEL           |
| Duct pressure          | 2 Pcs. PTH-3202   | PRESSURE TRANSMITTER,2500PA, 8 ranges, 0-10V    |

## 3rd. party parts

### Optional

|                   |                   |                                             |
|-------------------|-------------------|---------------------------------------------|
| Fan               | 2 Pcs. 3rd. party | 0-10V controlled fan or On/Off.             |
| Frost protection  | 1 Pcs. 3rd. party | Frost protection thermostat On/Off          |
| Filter monitoring | 2 Pcs. 3rd. party | Pressure switch                             |
| Humidity          | 1 Pcs. 3rd. party | Humidity sensor, room or duct 0-10V.        |
| CO <sub>2</sub>   | 1 Pcs. 3rd. party | CO <sub>2</sub> sensor, room or duct 0-10V. |
| VOC               | 1 Pcs. 3rd. party | VOC sensor, room or duct 0-10V.             |
| Room temperature  | 1 Pcs. 3rd. party | Temperature sensor 0 to 50° C, 0-10V        |

# 402 Parts list (Modbus controlled)

## OJ Electronics parts:

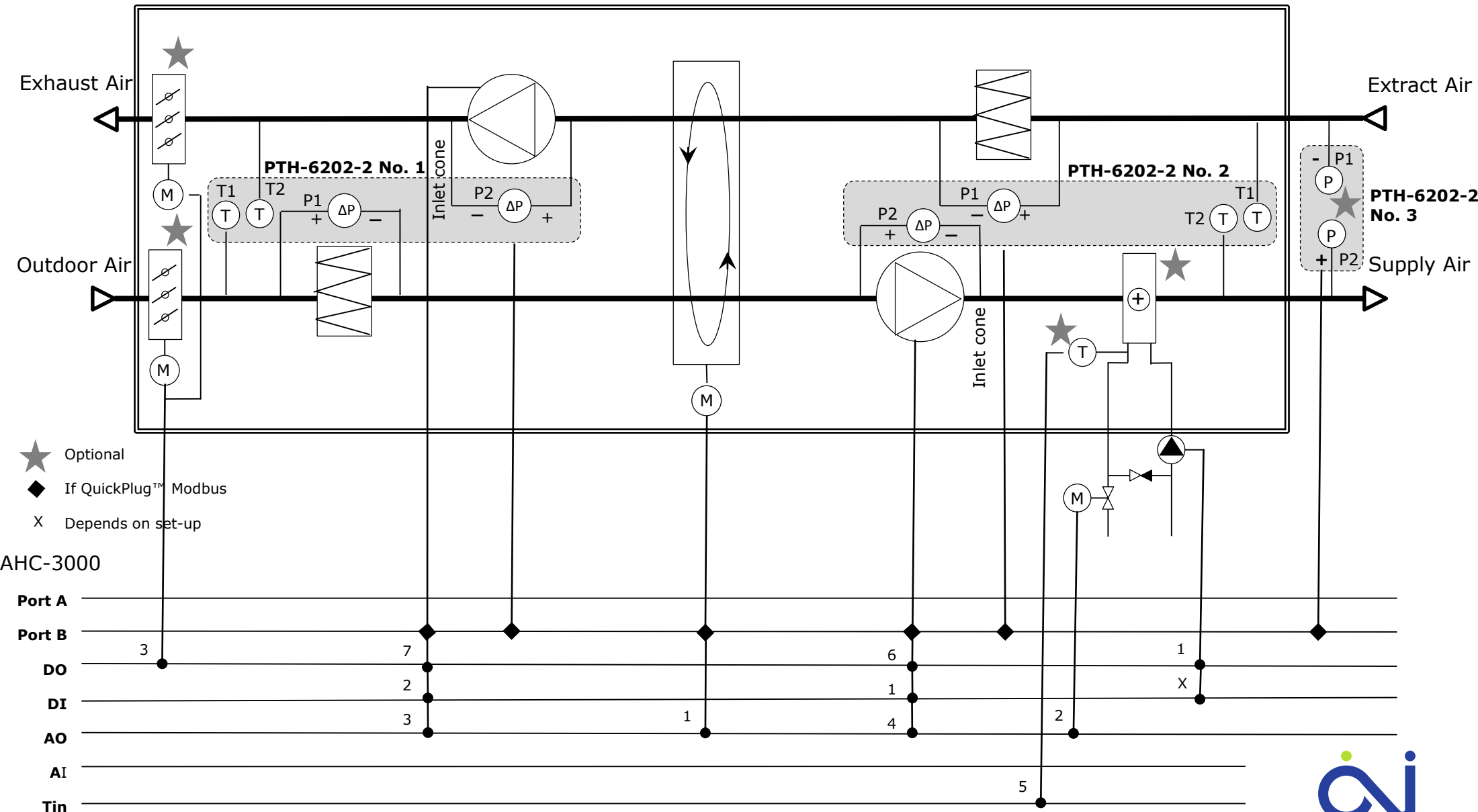
|                        |                         |                                                          |
|------------------------|-------------------------|----------------------------------------------------------|
| AHU controller         | 1 Pcs. AHC-3000-T       | OJ-Air AHU controller TCP/IP                             |
| Connectors             | 1 Pcs. AHC-CONNECT-K1   | OJ-Air Mating connector kit                              |
| Touch Panel            | 1 Pcs. AHC-3000-HMI-35T | OJ-Air Touch HMI 3.5 inch                                |
| Temp. sensors          | 4 Pcs. ETF-198B-5       | PT1000 SENSOR,5M,TPE,-40 150° C,BULB                     |
| Rotor drive            | 1 Pcs. OJ-DRHX-xxx      | DRIVE HEAT EX xx W. Part. no. depends on Rotor size      |
| Rotor motor            | 1 Pcs. MRHX-xx          | STEPMOTOR,x NM, Part. no. depends on Rotor size          |
| Fan drive              | 2 Pcs. OJ-DV-xxx        | VENTIDRIVE xx kW. Part. no. depends on fan size          |
| <u>Optional</u>        |                         |                                                          |
| Watercoil return temp. | 1 Pcs. ETF-598B-5       | PT1000 SENSOR,5M,TPE,-40 150° C,STEEL                    |
| Flow measurement       | 2 Pcs. PTH-6202         | PRESSURE TRANSMITTER,2500PA,MODBUS                       |
| Filter monitoring      | 2 Pcs. PTH-6202         | PRESSURE TRANSMITTER,2500PA,MODBUS                       |
| Duct pressure          | 2 Pcs. PTH-6202         | PRESSURE TRANSMITTER,2500PA,MODBUS                       |
| Humidity               | 1 Pcs. HTH-6202         | TEMP. HUMIDITY TRANSMITTER DUCT,7M,MODBUS,0x7A,-20 50° C |
| VOC                    | 1 Pcs. VTH-6202         | VOC SENSOR , MODBUS                                      |
| Room temperature       | 1 Pcs. TTH-6040-W       | ROOM TEMPERATURE SENSOR MODBUS                           |
| Outdoor temperature    | 1 Pcs. TTH-6040-O       | OUTDOOR TEMPERATURE SENSOR MODBUS                        |
| Touch panel            | 1 Pcs. OJ-AIR2-HMI-20T  | 2" COLOUR TOUCH SCREEN CONTROL INTERFACE FOR HMI OJAIR2  |

## 3rd. party parts

### Optional

|                  |                   |                                             |
|------------------|-------------------|---------------------------------------------|
| Frost protection | 1 Pcs. 3rd. party | Frost protection thermostat On/Off          |
| CO <sub>2</sub>  | 1 Pcs. 3rd. party | CO <sub>2</sub> sensor, room or duct 0-10V. |

# 402-2: Rotary Exchanger AHU + After heating (Water)





# 402-2 Parts list (Modbus controlled)

## OJ Electronics parts:

|                          |                         |                                                          |
|--------------------------|-------------------------|----------------------------------------------------------|
| AHU controller           | 1 Pcs. AHC-3000-T       | OJ-Air AHU controller TCP/IP                             |
| Connectors               | 1 Pcs. AHC-CONNECT-K1   | OJ-Air Mating connector kit                              |
| Touch Panel              | 1 Pcs. AHC-3000-HMI-35T | OJ-Air Touch HMI 3.5 inch                                |
| Temp. sensors            | 4 Pcs. ETF-198B-5       | PT1000 SENSOR,5M,TPE,-40 150° C,BULB                     |
| Rotor drive              | 1 Pcs. OJ-DRHX-xxx      | DRIVE HEAT EX xx W. Part. no. depends on Rotor size      |
| Rotor motor              | 1 Pcs. MRHX-xx          | STEPMOTOR,x NM, Part. no. depends on Rotor size          |
| Fan drive                | 2 Pcs. OJ-DV-xxx        | VENTIDRIVE xx kW. Part. no. depends on fan size          |
| <u>Optional</u>          |                         |                                                          |
| Watercoil return temp.   | 1 Pcs. ETF-598B-5       | PT1000 SENSOR,5M,TPE,-40 150° C,STEEL                    |
| Flow & filter monitoring | 2 Pcs. PTH-6202-2       | DUAL PRESSURE TRANSMITTER,2500PA,MODBUS,TEMP             |
| Duct pressure            | 1 Pcs. PTH-6202-2       | DUAL PRESSURE TRANSMITTER,2500PA,MODBUS,TEMP             |
| Humidity                 | 1 Pcs. HTH-6202         | TEMP. HUMIDITY TRANSMITTER DUCT,7M,MODBUS,0x7A,-20 50° C |
| VOC                      | 1 Pcs. VTH-6202         | VOC SENSOR , MODBUS                                      |
| Room temperature         | 1 Pcs. TTH-6040-W       | ROOM TEMPERATURE SENSOR MODBUS                           |
| Outdoor temperature      | 1 Pcs. TTH-6040-O       | OUTDOOR TEMPERATURE SENSOR MODBUS                        |
| Touch panel              | 1 Pcs. OJ-AIR2-HMI-20T  | 2" COLOUR TOUCH SCREEN CONTROL INTERFACE FOR HMI OJAIR2  |

## 3rd. party parts

### Optional

|                  |                   |                                             |
|------------------|-------------------|---------------------------------------------|
| Frost protection | 1 Pcs. 3rd. party | Frost protection thermostat On/Off          |
| CO <sub>2</sub>  | 1 Pcs. 3rd. party | CO <sub>2</sub> sensor, room or duct 0-10V. |



# 402-3 Parts list (Traditional I/O controlled)

## OJ Electronics parts:

|                |                          |                                                                |
|----------------|--------------------------|----------------------------------------------------------------|
| AHU controller | 1 Pcs. AHC-3000-T        | OJ-Air AHU controller TCP/IP                                   |
| Connectors     | 1 Pcs. AHC-CONNECT-K1    | OJ-Air Mating connector kit                                    |
| Touch Panel    | 1 Pcs. AHC-3000-HMI-35T  | OJ-Air Touch HMI 3.5 inch                                      |
| Temp. sensors  | 4 Pcs. ETF-198B-5        | PT1000 SENSOR,5M,TPE,-40 150° C,BULB                           |
| Rotor drive    | 1 Pcs. OJ-DRHX-1055-NCN5 | DRIVE HEAT EX xx W CONS.SPEED. Part. no. depends on Rotor size |
| Rotor motor    | 1 Pcs. MRHX-xx           | STEPMOTOR,x NM, Part. no. depends on Rotor size                |

### Optional

|                        |                   |                                                 |
|------------------------|-------------------|-------------------------------------------------|
| Fan drive              | 2 Pcs. OJ-DV-xxx  | VENTIDRIVE xx kW. Part. no. depends on fan size |
| Watercoil return temp. | 1 Pcs. ETF-598B-5 | PT1000 SENSOR,5M,TPE,-40 150° C,STEEL           |
| Duct pressure          | 2 Pcs. PTH-3202   | PRESSURE TRANSMITTER,2500PA, 8 ranges, 0-10V    |

## 3rd. party parts

### Optional

|                   |                   |                                             |
|-------------------|-------------------|---------------------------------------------|
| Fan               | 2 Pcs. 3rd. party | 0-10V controlled fan or On/Off.             |
| Frost protection  | 1 Pcs. 3rd. party | Frost protection thermostat On/Off          |
| Filter monitoring | 2 Pcs. 3rd. party | Pressure switch                             |
| Humidity          | 1 Pcs. 3rd. party | Humidity sensor, room or duct 0-10V.        |
| CO <sub>2</sub>   | 1 Pcs. 3rd. party | CO <sub>2</sub> sensor, room or duct 0-10V. |
| VOC               | 1 Pcs. 3rd. party | VOC sensor, room or duct 0-10V.             |
| Room temperature  | 1 Pcs. 3rd. party | Temperature sensor 0 to 50° C, 0-10V        |



# 502-2: Mixed Air AHU + After heating (Water)

