

# Commissioning report air handling units

## Installer / Installation constructor

Company: \_\_\_\_\_

Contact person: \_\_\_\_\_

Street: \_\_\_\_\_

Postal code / City: \_\_\_\_\_

Tel. no.: \_\_\_\_\_

Email: \_\_\_\_\_

Equipment: \_\_\_\_\_

Equipment description: \_\_\_\_\_

Type: \_\_\_\_\_

Serial no.: \_\_\_\_\_

## Operator / Location

Company: \_\_\_\_\_

Contact person: \_\_\_\_\_

Street: \_\_\_\_\_

Postal code / City: \_\_\_\_\_

Tel. no.: \_\_\_\_\_

Email: \_\_\_\_\_

Installing date: \_\_\_\_\_

Commissioning date: \_\_\_\_\_

### Documentation

- |   |                              |                             |                                      |
|---|------------------------------|-----------------------------|--------------------------------------|
| <input type="checkbox"/> Installation, operation and maintenance instructions handed over | <input type="checkbox"/> yes | <input type="checkbox"/> no | <input type="checkbox"/> s. Appendix |
| <input type="checkbox"/> EC Declaration handed over                                       | <input type="checkbox"/> yes | <input type="checkbox"/> no | <input type="checkbox"/> s. Appendix |
| <input type="checkbox"/> Air flow measuring report available                              | <input type="checkbox"/> yes | <input type="checkbox"/> no | <input type="checkbox"/> s. Appendix |

### Visual inspection

- |   |   |   |                                      |
|---|---|---|--------------------------------------|
| <input type="checkbox"/> Warning signs / Name plate present   | <input type="checkbox"/> yes            | <input type="checkbox"/> no                   | <input type="checkbox"/> s. Appendix |
| <input type="checkbox"/> Housing damages  | <input type="checkbox"/> yes            | <input type="checkbox"/> no                   | <input type="checkbox"/> s. Appendix |
| <input type="checkbox"/> Installation site according to the equipment specifications                  | <input type="checkbox"/> yes            | <input type="checkbox"/> no                   | <input type="checkbox"/> s. Appendix |
| <input type="checkbox"/> Suitable weatherproof for outdoor installation                               | <input type="checkbox"/> yes            | <input type="checkbox"/> no                   | <input type="checkbox"/> s. Appendix |
| <input type="checkbox"/> Electrical installation completed  | <input type="checkbox"/> yes            | <input type="checkbox"/> no                   | <input type="checkbox"/> s. Appendix |
| <input type="checkbox"/> Condensate drain frost free and correctly installed                          | <input type="checkbox"/> yes            | <input type="checkbox"/> no                   | <input type="checkbox"/> s. Appendix |
| <input type="checkbox"/> Installation performed according to installation instructions                | <input type="checkbox"/> yes            | <input type="checkbox"/> no                   | <input type="checkbox"/> s. Appendix |
| <input type="checkbox"/> Transported medium characteristics according to the equipment specifications | <input type="checkbox"/> yes            | <input type="checkbox"/> no                   | <input type="checkbox"/> s. Appendix |
| <input type="checkbox"/> Insulation works for equipment and ventilation ducts finalized               |   |   |                                      |
| <input type="checkbox"/> equipment  | <input type="checkbox"/> outdoor air    | <input type="checkbox"/> exhaust air          | <input type="checkbox"/> extract air |
| <input type="checkbox"/> supply air   |   |   |                                      |
| <input type="checkbox"/> Filter status at commissioning   |   |   |                                      |
| <input type="checkbox"/> new  | <input type="checkbox"/> slightly dirty | <input type="checkbox"/> replacement required | <input type="checkbox"/> unavailable |
| <input type="checkbox"/> Fire protection requirements are complied with                               | <input type="checkbox"/> yes            | <input type="checkbox"/> no                   | <input type="checkbox"/> s. Appendix |
| <input type="checkbox"/> Air dampers installed for outdoor and exhaust air                            | <input type="checkbox"/> yes            | <input type="checkbox"/> no                   | <input type="checkbox"/> s. Appendix |

## Commissioning report air handling units

### Electrical connection

Voltage:

V

Frequency:

Hz

Number of phases:

phases

Fuse:

A

### Medium connection heating / cooling register

- |  |  |  |                             |                                      |
|--|--|--|-----------------------------|--------------------------------------|
| <input type="checkbox"/> Water                     |  | <input type="checkbox"/> yes               | <input type="checkbox"/> no | <input type="checkbox"/> s. Appendix |
| <input type="checkbox"/> Salt water                | % glycol                                   | <input type="checkbox"/> yes               | <input type="checkbox"/> no | <input type="checkbox"/> s. Appendix |
| <input type="checkbox"/> Coolant                   | type                                       | <input type="checkbox"/> yes               | <input type="checkbox"/> no | <input type="checkbox"/> s. Appendix |
| <input type="checkbox"/> Cooler supply temperature | °C   | <input type="checkbox"/> yes               | <input type="checkbox"/> no | <input type="checkbox"/> s. Appendix |
| <input type="checkbox"/> Heater supply temperature | °C   | <input type="checkbox"/> yes               | <input type="checkbox"/> no | <input type="checkbox"/> s. Appendix |
| <input type="checkbox"/> Hydraulic connections     |  |  |                             |                                      |
| <input type="checkbox"/> bypass circuit            | <input type="checkbox"/> admixture circuit | <input type="checkbox"/> injection circuit |                             |                                      |

### Instruction

- |  |                              |                             |                                      |
|--|------------------------------|-----------------------------|--------------------------------------|
| <input type="checkbox"/> Device / system function explained and instructed | <input type="checkbox"/> yes | <input type="checkbox"/> no | <input type="checkbox"/> s. Appendix |
| <input type="checkbox"/> Control unit explained and instructed             | <input type="checkbox"/> yes | <input type="checkbox"/> no | <input type="checkbox"/> s. Appendix |
| <input type="checkbox"/> Filter replacement explained and instructed       | <input type="checkbox"/> yes | <input type="checkbox"/> no | <input type="checkbox"/> s. Appendix |
| <input type="checkbox"/> Maintenance operations explained and instructed   | <input type="checkbox"/> yes | <input type="checkbox"/> no | <input type="checkbox"/> s. Appendix |

### Functioning control

- |   |                              |                             |                                      |
|---|------------------------------|-----------------------------|--------------------------------------|
| <input type="checkbox"/> Fan impeller can be easily rotated by hand                 | <input type="checkbox"/> yes | <input type="checkbox"/> no | <input type="checkbox"/> s. Appendix |
| <input type="checkbox"/> Fan impeller / motor has the correct direction of rotation | <input type="checkbox"/> yes | <input type="checkbox"/> no | <input type="checkbox"/> s. Appendix |
| <input type="checkbox"/> There are vibrations / grinding noises                     | <input type="checkbox"/> yes | <input type="checkbox"/> no | <input type="checkbox"/> s. Appendix |
| <input type="checkbox"/> Equipment tested at nominal flow                           | <input type="checkbox"/> yes | <input type="checkbox"/> no | <input type="checkbox"/> s. Appendix |
| <input type="checkbox"/> Control valves cooler and heater checked                   | <input type="checkbox"/> yes | <input type="checkbox"/> no | <input type="checkbox"/> s. Appendix |
| <input type="checkbox"/> Frost protection checked                                   | <input type="checkbox"/> yes | <input type="checkbox"/> no | <input type="checkbox"/> s. Appendix |
| <input type="checkbox"/> Actuators of outdoor air and exhaust air dampers checked   | <input type="checkbox"/> yes | <input type="checkbox"/> no | <input type="checkbox"/> s. Appendix |
| <input type="checkbox"/> Functioning of additional installations checked            |                              |                             |                                      |
| preheater   | <input type="checkbox"/> yes | <input type="checkbox"/> no | <input type="checkbox"/> s. Appendix |
| after heater  | <input type="checkbox"/> yes | <input type="checkbox"/> no | <input type="checkbox"/> s. Appendix |
| <input type="checkbox"/> Fire protection dampers checked                            | <input type="checkbox"/> yes | <input type="checkbox"/> no | <input type="checkbox"/> s. Appendix |
| <input type="checkbox"/> Operation via  |                              |                             |                                      |
| no control unit available   | <input type="checkbox"/> yes | <input type="checkbox"/> no | <input type="checkbox"/> s. Appendix |
| control unit Klima I  | <input type="checkbox"/> yes | <input type="checkbox"/> no | <input type="checkbox"/> s. Appendix |
| control unit Touch I  | <input type="checkbox"/> yes | <input type="checkbox"/> no | <input type="checkbox"/> s. Appendix |
| external control unit   | <input type="checkbox"/> yes | <input type="checkbox"/> no | <input type="checkbox"/> s. Appendix |
| <input type="checkbox"/> Communication interface available                          | <input type="checkbox"/> yes | <input type="checkbox"/> no | <input type="checkbox"/> s. Appendix |
| <input type="checkbox"/> Control via BMS  | <input type="checkbox"/> yes | <input type="checkbox"/> no | <input type="checkbox"/> s. Appendix |

## Commissioning report air handling units

Defects / Modifications / Features / Observations:

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Equipment commissioning successfully completed

yes  no

Equipment defects

- no defects  
 minor defects, repairs without recommissioning  
 serious defects, recommissioning required

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Date, signature of the instructed person

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Date, Signature of the commissioning company

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Date, Signature of the system operator / client

**ruck Ventilatoren** reserves the right to operate changes and improvements on the content of this commissioning report without previous notice.

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## Commissioning report air handling units

### Setting values

No.	Meaning	Values range	Individual setting	Factory setting
P 1	Minimum temperature setting on the control unit	16 °C up to 20 °C		16 °C
P 2	Maximum temperature setting on the control unit	20 °C up to 30 °C		24 °C
P 3	External activation	AUTOMATIC CONFIRMATION		AUTOMATIC
P 4	I – Component	5 up to 20		10
P 5	P – Component	5 up to 20		10
P 6	Temperature correction room temperature sensor from control unit	-5 °C up to 5 °C		0
P 7	Address	1 - 247		1
P 8	Baudrate	2400 / 4800 / 9600 / 14400		9600
P 9	Calibration supply air fan	800 - 1200		1.000
P 10	Calibration extract air fan	800 - 1200		1.000
P 13	Type	S / PV / P		S
P 14	Sensor type	NO EXTERNAL SENSOR CO2 VOC EXTERNAL CONTROL (HUMIDITY)		NO EXTERNAL SENSOR
P 15	Minimum ventilation supply air	<i>depending on size</i>		<i>depending on size</i>
P 16	Minimum ventilation extract air	<i>depending on size</i>		<i>depending on size</i>
P 17	Basic ventilation supply air	<i>depending on size</i>		<i>depending on size</i>
P 18	Basic ventilation extract air	<i>depending on size</i>		<i>depending on size</i>
P 19	Forced ventilation supply air	<i>depending on size</i>		<i>depending on size</i>
P 28	Forced ventilation extract air	<i>depending on size</i>		<i>depending on size</i>
P 20	Air quality	CO2 VOC (humidity)		1400 ppm 1400 ppm (45 %)
P 21	Type of control	Supply air temp. Extract air temp. Room air temp.		Supply air temp.
P 22	Selection heating system	HEATING COOLING HEATING AND COOLING DX-COIL		HEATING
P 23	Measuring range sensor min.	0 - 500 ppm (0 - 50 %)		0 ppm (0 %)
P 24	Measuring range sensor max.	1000 - 5000 ppm (0 - 50 %)		2000 ppm (100 %)
P 25	Supply air filter	0 - 500 Pa		100 Pa
P 26	Extract air filter	0 - 500 Pa		100 Pa
P 27	Filter calibration			
P 29	-ETA-TYP -RL-TYP -ACCU-TYP -CASE-TYP	H30/H36/V30/V36/F30/F36 RL700/900/1200/1600/2000 ACCU CASE3000/3000U...-16000U		<i>Depending on AHU type</i>
P 30	Run-on time	1 - 60 min		5 min