

# Sizing, Installation, Dimensions and Weights

The charts and tables in this documentation are intended for use as a general survey.

Exact sizing can be carried out in the AHU Design air handling unit selection program.

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# Sizing, Installation, Dimensions and Weights

## Prerequisites for Sizing

### Fan Diagrams

The  $SFP_V$  diagram on the pages that follow shows the electric power efficiency rating of the air handling unit calculated according to the procedure defined by SwedVent, the Swedish Association of Air handling Industries (V Publication 1995:1, Rev. 2000). The  $SFP_V$ -value is calculated according to the V publication under the load conditions that exist when the air filters are clean.

### GOLD RX/PX/CX

The  $SFP_V$  diagrams and Extract air fan are calculated with the assumption that the supply air and extract air fans have the same airflow and available total pressure rise. The leakage and purging air flow and the extra pressure drop in the extract air have been taken into consideration in order to ensure the correct direction of air leakage at a pressure ratio that corresponds to a normal installation for a certain available pressure.

The Extract air fan and Supply air fan diagrams indicate the available total pressure rise to cover duct pressure drop and external functional sections, and total sound power level,  $L_{W, tot}$  emitted to a connecting outlet duct, dB (relative to  $10^{-12}$  W), in the 125 – 8,000 Hz octave band frequencies.

The available pressure rise calculated for the design pressure drop across the ePM1 50% (F7) filter (supply air) and the ePM10 60% (M5) filter (extract air) respectively and with full face end connection panels (accessories) is specified in all the diagrams.

The blue broken line defines the limits of the numbered ranges (1,2,3,4) for particulars of the correction factors  $K_{OK}$  in a separate table. Range 1 is the most favourable range from an acoustic point of view.

### GOLD SD

The Fan Charts indicate the total pressure rise to cover possible internal total pressure losses for, e.g. filters, duct pressure drop and external functional sections, and total sound power level  $L_{W, tot}$  emitted to a connecting outlet duct, dB (relative to  $10^{-12}$  W), in the 125 – 8,000 Hz octave band frequencies. The diagrams show air handling units with full face end connection panels (accessories).

The total pressure loss for an optional filter, ePM1 50% (F7)/ ePM10 60% (M5), and coil heat exchangers (sizes 014-80) are specified in the lower diagram.

The blue broken line defines the limits of the numbered ranges (1,2,3,4) for particulars of the correction factors  $K_{OK}$  in a separate table. Range 1 is the most favourable range from an acoustic point of view.

### Acoustic calculations

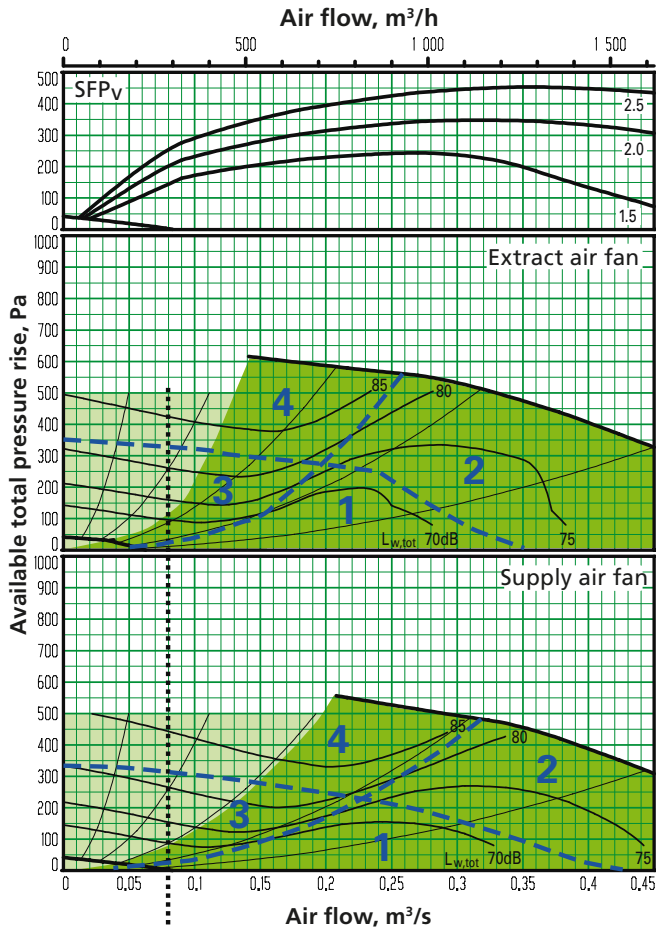
The sound emitted by Swegon products is measured according to the method defined in ISO 5136, the most widely used method in Europe. Acoustic measurements are sometimes taken using other methods.

The total sound power level  $L_{W, tot}$  emitted from the fan outlet to the ducting can be read from each of the fan diagrams. The following formula can be used for breaking down the total sound power level into octave bands:  $L_{W, ok} = L_{W, tot} + K_{ok}$ .

$K_{ok}$  can be obtained from tables on the pages that follow.

# Sizing, Installation, Dimensions and Weights

## GOLD RX, rotary heat exchanger, size 004, common casing STE



The lower limit for the air flow when the unit is operating in the air flow regulation mode.

The air handling unit complies with requirements to Ecodesign 2016/2018.

- Recommended working range for sizing.
- Permissible operating range when the fan is controlled to operate at a lower speed. The lower limit for the air flow when the unit is operating in the air flow regulation mode; see the black broken line in the diagram. If pressure regulation is used, the air flow can be regulated to zero, however this presupposes a certain static pressure drop in the ducting (approx. 50 Pa).

### Min. and Max. Airflows

The flows specified refer to those that can be preset in the hand-held micro terminal. The practical flow limits are determined by the external pressure drop.

Size	Min. airflow (on airflow regulation)		Max. airflow	
	m <sup>3</sup> /h	m <sup>3</sup> /s	m <sup>3</sup> /h	m <sup>3</sup> /s
004	288	0.08	1620	0.45

### Correction factors K<sub>OK</sub>, dB

Sound path	Range in the diagram	Octave band, No. / mid-frequency, Hz							
		1	2	3	4	5	6	7	8
		63	125	250	500	1000	2000	4000	8000
To outlet duct	1	-1	-6	-6	-8	-7	-7	-12	-15
	2	-1	-5	-8	-8	-7	-9	-13	-16
	3	-1	-2	-6	-15	-14	-16	-22	-25
	4	-2	-3	-5	-13	-13	-14	-20	-25
To inlet duct*	1	-6	-9	-12	-22	-31	-33	-38	-37
	2	-7	-10	-17	-18	-29	-31	-37	-38
	3	-6	-4	-14	-27	-35	-39	-44	-43
	4	-7	-5	-12	-22	-34	-36	-42	-43
To air handling unit surroundings**	1	-12	-20	-29	-29	-40	-40	-46	-46
	2	-12	-19	-31	-29	-40	-42	-47	-47
	3	-12	-16	-29	-36	-47	-49	-56	-56
	4	-13	-17	-28	-34	-46	-47	-54	-56

\* The integral attenuation of filters and rotary heat exchanger has been taken into account. \*\* Total sound power level emitted to the surroundings is calculated as the sum of the levels in the supply air and the extract air.

# Sizing, Installation, Dimensions and Weights

## GOLD RX, rotary heat exchanger, size 004, common casing

### Delivery and Transport within the Site

The GOLD RX 004 is produced in one single variant. All of its components are arranged at their given physical location inside the air handling unit. The air handling unit is supplied on a wooden pallet.

Prefitted base beams are obtainable as optional equipment; a separately supplied stand is available as an accessory.

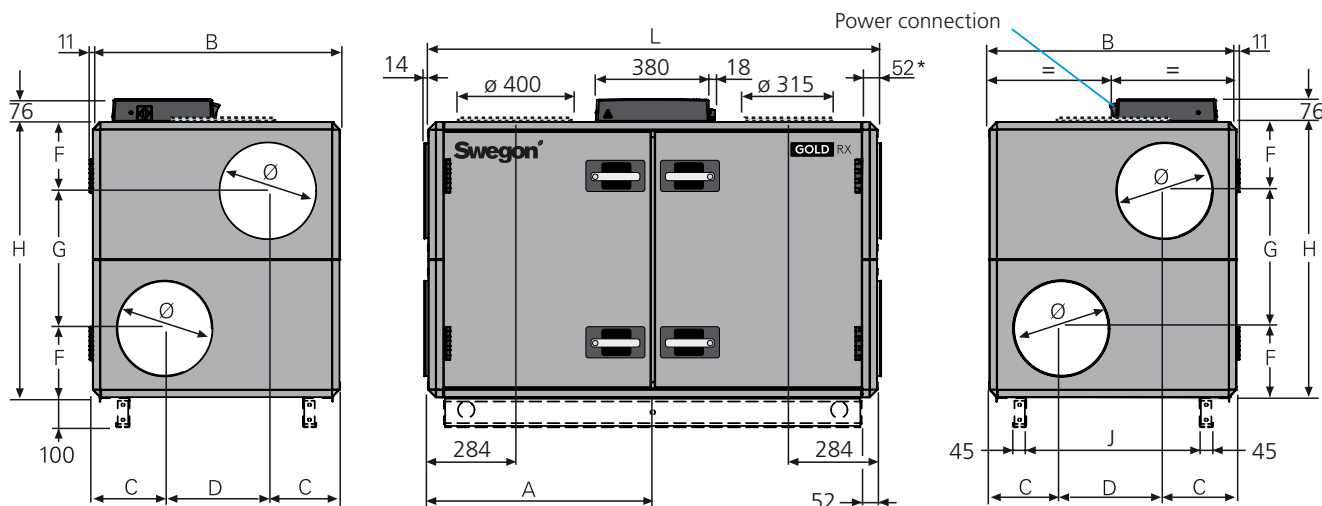
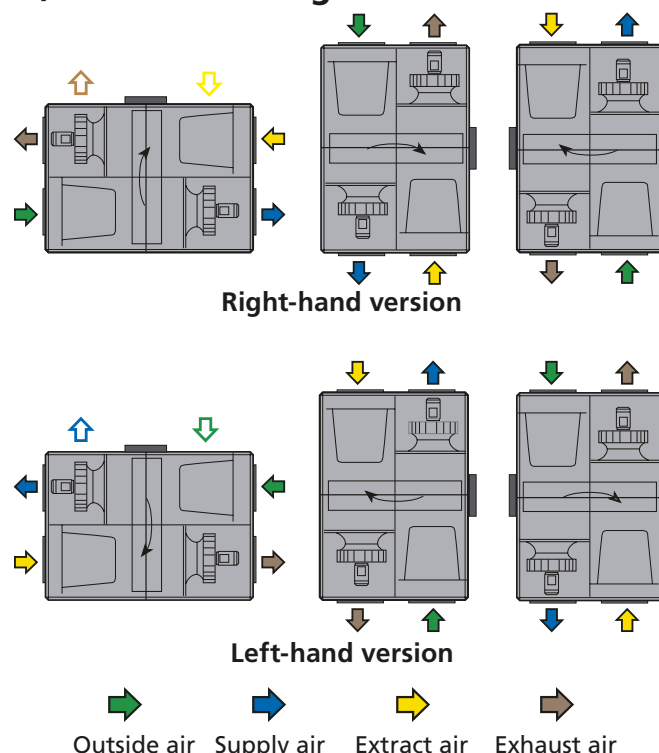
### Duct connection options

**A:** Specify right-hand or left-hand version when ordering! If the air handling unit is supplied with all the end connection panels, the version can be changed at the building site by selecting the appropriate version in the hand-held micro terminal.

**B:** The air handling unit can be installed up ended (does not apply to units installed outdoors).

**C:** Specify upper fan outlet for upward air discharge when placing orders (Does not apply to units installed outdoors).  
N.B.! Duct connection size:  $\varnothing$  400 mm.

**D:** Specify whether the unit shall have an air intake from above for outdoor air or extract air when placing orders (Does not apply to units installed outdoors).



The base beams are optional.

\* If duct accessories are inside an insulated casing, the air handling unit is supplied without end connection panel. The AHU can also be supplied with full face end connection panel (accessory).

Size	A	B	C	D	F	G	H	J	L	Ø	Weight, kg
004	743	825	240	345	230	460	920	579	1499	315	234-278

### Clear Space for Inspection

A clear space of 800 mm must be provided in front of the unit and at least 200 mm must be provided above the junction hood.

### Power connection

1-phase, 3-wire, 230 V -10/+15%, 50 Hz, 10 A or  
3-phase, 5-wire, 400 V -10/+15%, 50 Hz, 10 A

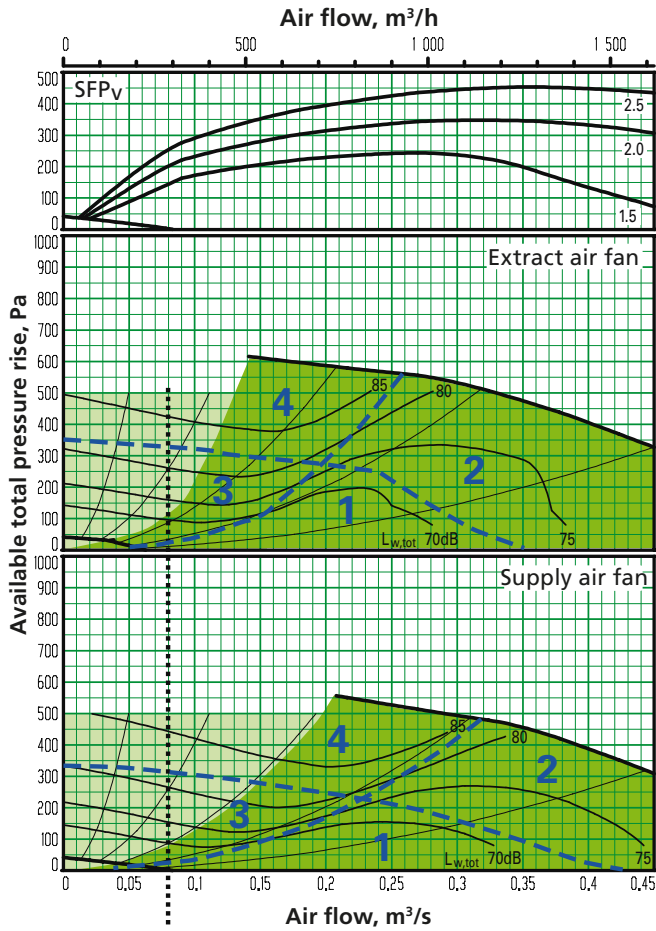
### Rated data per fan

Motor shaft power: 0.8 kW (0.41 kW)\*  
motor control system, 1 x 230 V, 50 Hz

\*The motor control system limits the power of the take-off to the value specified.

# Sizing, Installation, Dimensions and Weights

## GOLD RX, rotary heat exchanger, size 004, split version STE



The lower limit for the air flow when the unit is operating in the air flow regulation mode.

The air handling unit complies with requirements to Ecodesign 2016/2018.

- Recommended working range for sizing.
- Permissible operating range when the fan is controlled to operate at a lower speed. The lower limit for the air flow when the unit is operating in the air flow regulation mode; see the black broken line in the diagram. If pressure regulation is used, the air flow can be regulated to zero, however this presupposes a certain static pressure drop in the ducting (approx. 50 Pa).

### Min. and Max. Airflows

The flows specified refer to those that can be preset in the hand-held micro terminal. The practical flow limits are determined by the external pressure drop.

Size	Min. airflow (on airflow regulation)		Max. airflow	
	m <sup>3</sup> /h	m <sup>3</sup> /s	m <sup>3</sup> /h	m <sup>3</sup> /s
004	288	0.08	1620	0.45

### Correction factors K<sub>OK</sub>, dB

Sound path	Range in the diagram	Octave band, No. / mid-frequency, Hz							
		1	2	3	4	5	6	7	8
		63	125	250	500	1000	2000	4000	8000
To outlet duct	1	-1	-6	-6	-8	-7	-7	-12	-15
	2	-1	-5	-8	-8	-7	-9	-13	-16
	3	-1	-2	-6	-15	-14	-16	-22	-25
	4	-2	-3	-5	-13	-13	-14	-20	-25
To inlet duct*	1	-6	-9	-12	-22	-31	-33	-38	-37
	2	-7	-10	-17	-18	-29	-31	-37	-38
	3	-6	-4	-14	-27	-35	-39	-44	-43
	4	-7	-5	-12	-22	-34	-36	-42	-43
To air handling unit surroundings**	1	-12	-20	-29	-29	-40	-40	-46	-46
	2	-12	-19	-31	-29	-40	-42	-47	-47
	3	-12	-16	-29	-36	-47	-49	-56	-56
	4	-13	-17	-28	-34	-46	-47	-54	-56

\* The integral attenuation of filters and rotary heat exchanger has been taken into account. \*\* Total sound power level emitted to the surroundings is calculated as the sum of the levels in the supply air and the extract air.

# Sizing, installation, dimensions and weights

## GOLD RX, rotary heat exchanger, size 004, split version

### Delivery and transport within the site

The GOLD RX 004 can be supplied as one single unit, or in a number of different combinations of unit sections from the factory, see the section: Description of the Air Handling Unit/ Delivery Configuration RX/PX/CX, sizes 004-080.

Prefitted base beams as standard.

The unit sections are jointed together/split by means of bolts.

The electrical and control cables between the unit sections have quick-fit connectors.

### Duct connection options

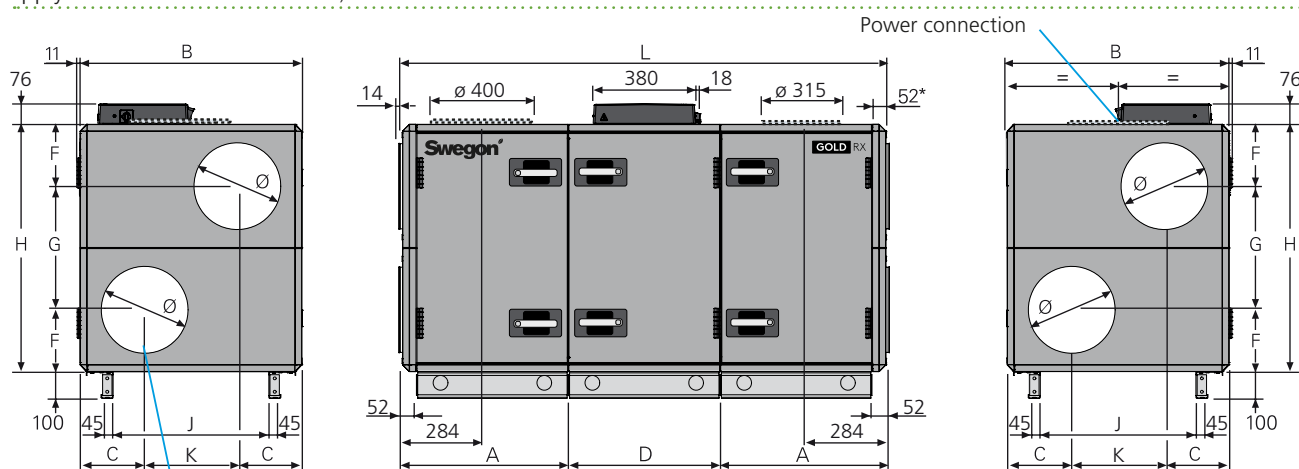
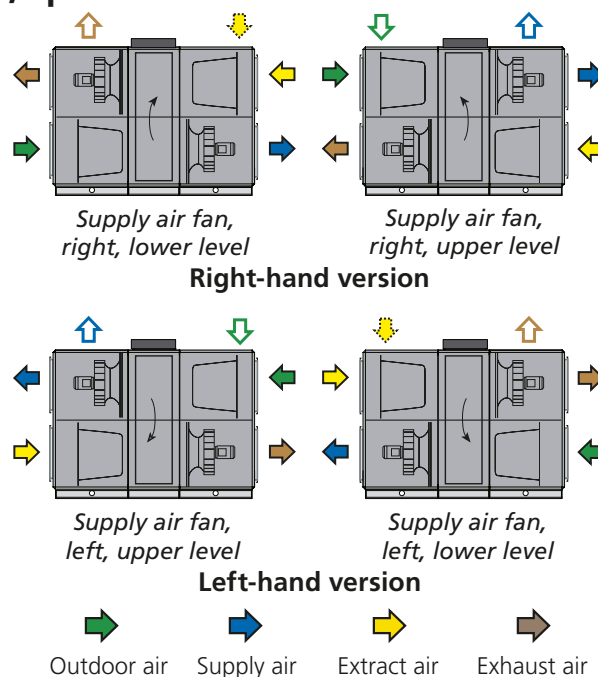
**A:** Specify right-hand or left-hand version when ordering. If the air handling unit is supplied with all the end connection panels, the version can be changed at the building site using the hand-held terminal.

**B:** The arrangement of the functional sections can be vertically reversed. To be specified when placing an order, see the illustration to the right.

**C:** Specify upper fan outlet for upward air discharge when placing orders (Does not apply to units installed outdoors).

N.B.! Duct connection size:  $\varnothing$  400 mm.

**D:** Specify whether the unit shall have an air intake from above for outdoor air or extract air when placing orders (Does not apply to units installed outdoors).



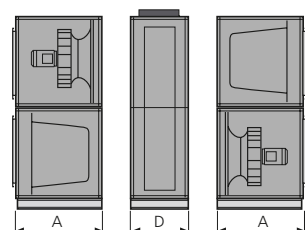
The illustration shows the connections for supply air fan, right-hand/lower level and left-hand/upper level. For supply air fan, right-hand/upper level and left-hand/lower level, the connections are mirror-inverted.

\* The air handling unit is supplied without end connection panel if a duct accessory housed in an insulated casing will be connected.

The AHU can also be supplied with full face end connection panel (accessory).

Size	A	B	C	D	F	G	H	J	K	L	Ø	Weight, kg
004	617	825	240	565	230	460	920	579	345	1799	315	278-335

### Division into sections for transport



The unit can be divided into three sections at the building site.

**Dimensions:** See A and D in the table above.

**Weight:** A = 88-112 kg, D = 102-111 kg.

### Power connection

1-phase, 3-wire, 230 V -10/+15%, 50 Hz, 10 A or 3-phase, 5-wire, 400 V -10/+15%, 50 Hz, 10 A

### Rated data per fan

Motor shaft power 0.8 kW (0.41 kW)\*, Motor control system: 1 x 230 V, 50 Hz

\*The motor control system limits the output power to the value specified.

### Clear space for inspection

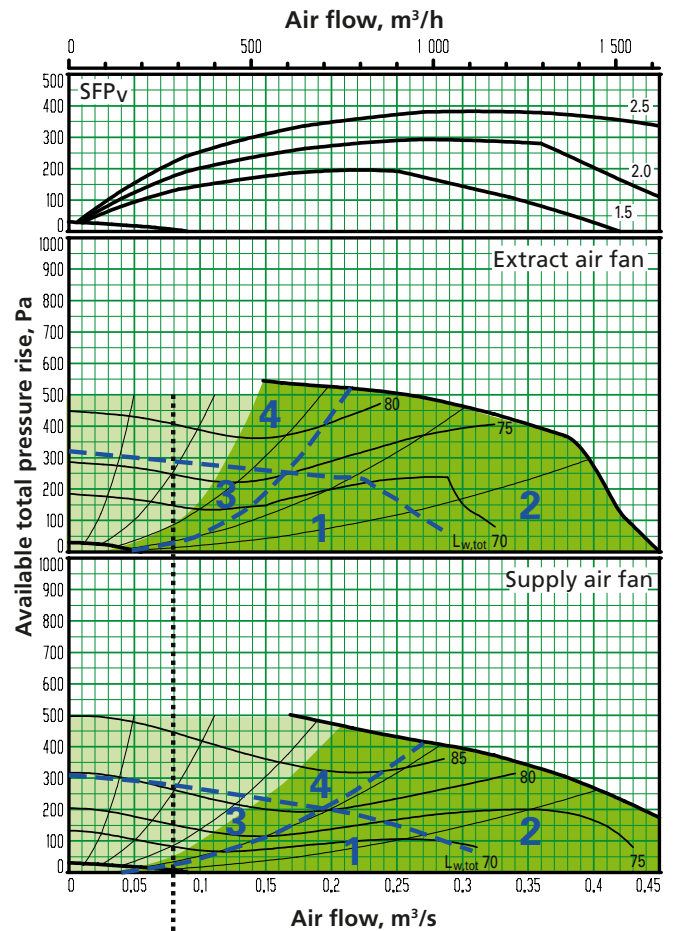
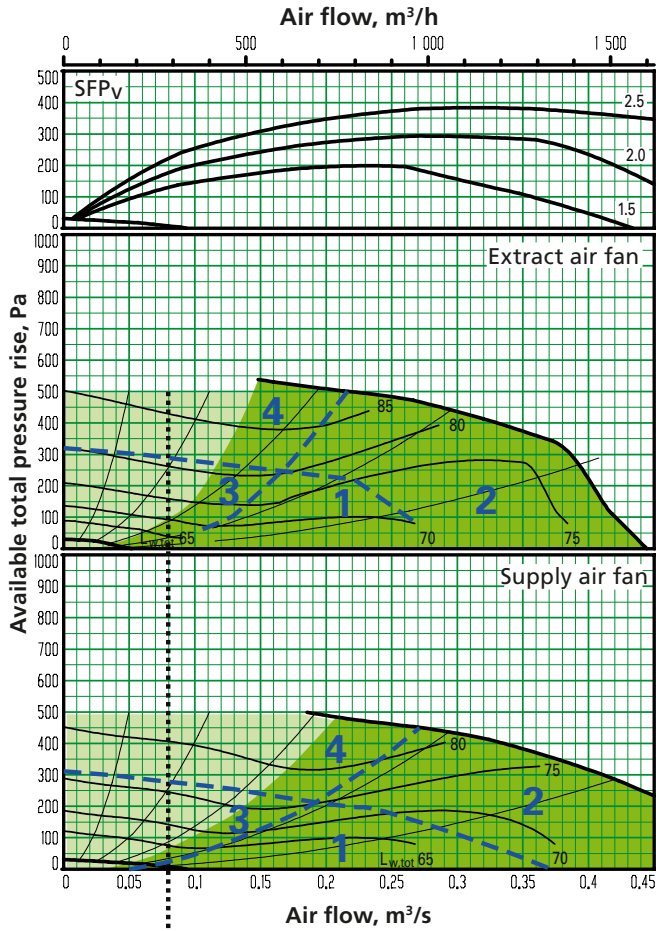
A clear space of 800 mm should be provided in front of the unit and at least 200 mm should be provided above the junction hood.

# Sizing, installation, dimensions and weights

## GOLD RX Top, rotary heat exchanger, size 004

Left-hand version, STE

Right-hand version, STE



The lower limit for the air flow when the unit is operating in the air flow regulation mode.

The air handling unit complies with requirements to Ecodesign 2016/2018.

- Recommended working range for sizing.
- Permissible operating range when the fan is controlled to operate at a lower speed. The lower limit for the air flow when the unit is operating in the air flow regulation mode; see the black broken line in the diagram. If pressure regulation is used, the air flow can be regulated to zero, however this presupposes a certain static pressure drop in the ducting (approx. 50 Pa).

### Min. and max. air flows

The flows specified refer to those that can be preset in the hand-held terminal. The practical flow limits are determined by the external pressure drop.

Size	Min. airflow (on airflow regulation)		Max. airflow	
	m <sup>3</sup> /h	m <sup>3</sup> /s	m <sup>3</sup> /h	m <sup>3</sup> /s
004	288	0,08	1620	0,45

### Correction factors, K<sub>OK</sub>, dB. Fan in lower level.

Sound path	Range in the diagram	Octave band, No. / mid-frequency, Hz							
		1	2	3	4	5	6	7	8
		63	125	250	500	1000	2000	4000	8000
To the outlet duct	1	0	-5	-8	-5	-10	-11	-17	-23
	2	-1	-6	-8	-6	-9	-10	-17	-22
	3	0	-5	-4	-8	-14	-16	-23	-31
	4	-1	-6	-4	-7	-13	-15	-22	-30
To the inlet duct*	1	-3	-4	-10	-14	-30	-37	-43	-55
	2	-4	-6	-9	-16	-29	-37	-43	-53
	3	-2	-3	-6	-19	-34	-42	-49	-55
	4	-3	-4	-6	-17	-33	-42	-48	-53
To unit's surroundings**	1	-11	-19	-31	-26	-43	-44	-51	-54
	2	-12	-20	-31	-27	-42	-43	-51	-53
	3	-11	-19	-27	-29	-47	-49	-57	-62
	4	-12	-20	-27	-28	-46	-48	-56	-61

### Correction factors, K<sub>OK</sub>, dB. Fan in upper level.

Sound path	Range in the diagram	Octave band, No. / mid-frequency, Hz							
		1	2	3	4	5	6	7	8
		63	125	250	500	1000	2000	4000	8000
To the outlet duct	1	-1	-6	-5	-8	-11	-11	-15	-20
	2	-2	-7	-5	-8	-10	-10	-15	-19
	3	-4	-7	-2	-11	-17	-18	-24	-30
	4	-2	-8	-2	-10	-15	-16	-22	-27
To the inlet duct*	1	-2	-4	-9	-20	-32	-38	-41	-55
	2	-5	-6	-10	-22	-32	-37	-41	-53
	3	-7	-6	-8	-27	-38	-45	-50	-59
	4	-8	-7	-8	-24	-37	-43	-48	-56
To unit's surroundings**	1	-12	-20	-28	-29	-44	-44	-49	-51
	2	-13	-21	-28	-29	-43	-43	-49	-50
	3	-15	-21	-25	-32	-50	-51	-58	-61
	4	-13	-22	-25	-31	-48	-49	-56	-58

\* The integral attenuation of filters and rotary heat exchanger has been taken into account.

\*\* Total sound power level emitted to the surroundings is calculated as the sum of the levels in the supply air and the extract air.



# Sizing, installation, dimensions and weights

## GOLD RX Top, rotary heat exchanger, size 004

### Delivery and transport within the site

The GOLD RX Top 004 unit is produced in one variant in which all the components are arranged at their given physical location inside the unit.

The unit can also be delivered as L-concept with top fed duct connections in combination with side fed duct connections, see the section Description Air handling unit.

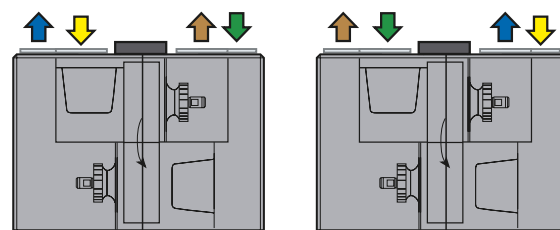
The air handling unit is supplied on a wooden pallet.

Prefitted base beams are obtainable as optional equipment.

### Installation/duct connection options

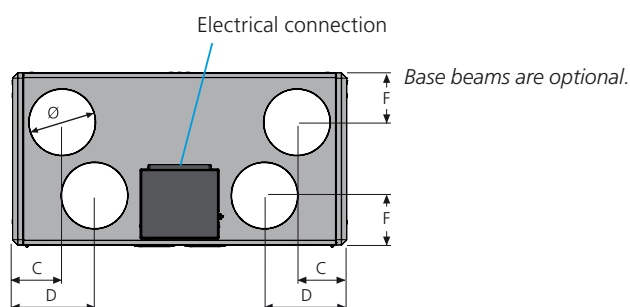
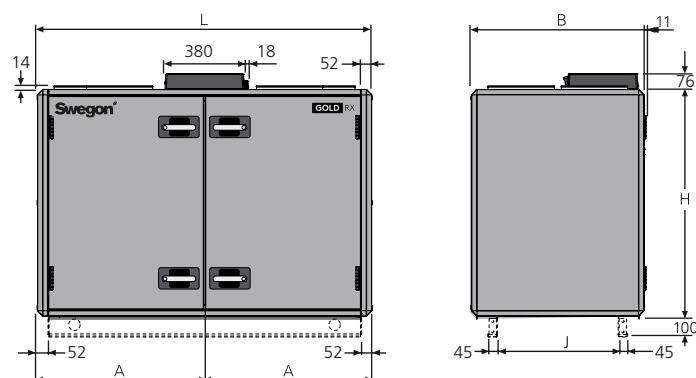
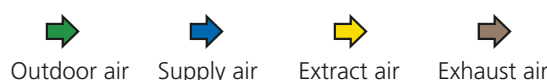
**A:** All the duct connections are arranged from the top of the air handling unit (the unit must not be installed outdoors).

**B:** Specify right-hand or left-hand version when ordering. The version can be changed at the building site using the hand-held terminal. **Note:** Supply air filters and extract air filters have different dimensions and may need to be replaced for different filter classes.



Left-hand version

Right-hand version



Size	A	B	C	D	F	H	J	L	Ø	Weight, kg
004	800	825	238	393	237	1085	579	1600	315	295-302

### Clear space for inspection

A clear space of 800 mm should be provided in front of the unit and at least 200 mm should be provided above the junction hood.

### Electrical connection

1-phase, 3-wire, 230 V -10/+15%, 50 Hz, 10 A or  
3-phase, 5-wire, 400 V -10/+15%, 50 Hz, 10 A

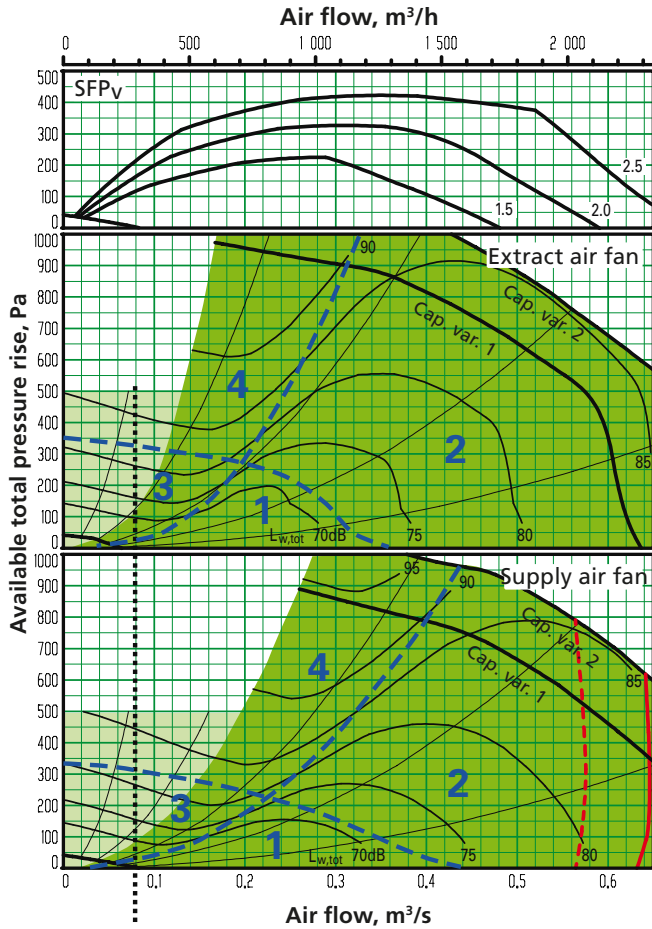
### Rated data per fan

Motor shaft power: 0.8 kW (0.41 kW)\*,  
motor control system: 1 x 230 V, 50 Hz

\*The motor control system limits the output power to the value specified.

# Sizing, Installation, Dimensions and Weights

## GOLD RX, rotary heat exchanger, size 005, common casing STE



The lower limit for the air flow when the unit is operating in the air flow regulation mode.

The limit lines for Ecodesign are calculated with capacity variant 2. The mean value for supply air and extract air must be within the limit line.

- Recommended working range for sizing.
- Permissible operating range when the fan is controlled to operate at a lower speed. The lower limit for the airflow when the unit is operating in the airflow regulation mode; see the black broken line in the diagram. If pressure regulation is used, the airflow can be regulated to zero, however this presupposes a certain static pressure drop in the ducting (approx. 50 Pa).
- Limit line, Ecodesign, 2016
- Limit line, Ecodesign, 2018

### Min. and Max. Airflows

The flows specified refer to those that can be preset in the hand-held micro terminal. The practical flow limits are determined by the external pressure drop.

Size	Min. airflow (on airflow regulation)		Max. airflow	
	m <sup>3</sup> /h	m <sup>3</sup> /s	m <sup>3</sup> /h	m <sup>3</sup> /s
005	288	0.08	2340	0.65

### Correction factors K<sub>OK</sub>, dB

Sound path	Range in the diagram	Octave band, No. / mid-frequency, Hz							
		1	2	3	4	5	6	7	8
		63	125	250	500	1000	2000	4000	8000
To outlet duct	1	-1	-6	-6	-8	-7	-7	-12	-15
	2	-1	-5	-8	-8	-7	-9	-13	-16
	3	-1	-2	-6	-15	-14	-16	-22	-25
	4	-2	-3	-5	-13	-13	-14	-20	-25
To inlet duct*	1	-6	-9	-12	-22	-31	-33	-38	-37
	2	-7	-10	-17	-18	-29	-31	-37	-38
	3	-6	-4	-14	-27	-35	-39	-44	-43
	4	-7	-5	-12	-22	-34	-36	-42	-43
To unit's surroundings**	1	-12	-20	-29	-29	-40	-40	-46	-46
	2	-12	-19	-31	-29	-40	-42	-47	-47
	3	-12	-16	-29	-36	-47	-49	-56	-56
	4	-13	-17	-28	-34	-46	-47	-54	-56

\* The integral attenuation of filters and rotary heat exchanger has been taken into account. \*\* Total sound power level emitted to the surroundings is calculated as the sum of the levels in the supply air and the extract air.

# Sizing, Installation, Dimensions and Weights

## GOLD RX, rotary heat exchanger, size 005, common casing

### Delivery and Transport within the Site

The GOLD RX 005 is produced in one single variant, in which all the components are arranged at their given physical locations inside the air handling unit. The air handling unit is supplied on a wooden pallet.

Prefitted base beams are obtainable as optional equipment; a separately supplied stand is available as an accessory.

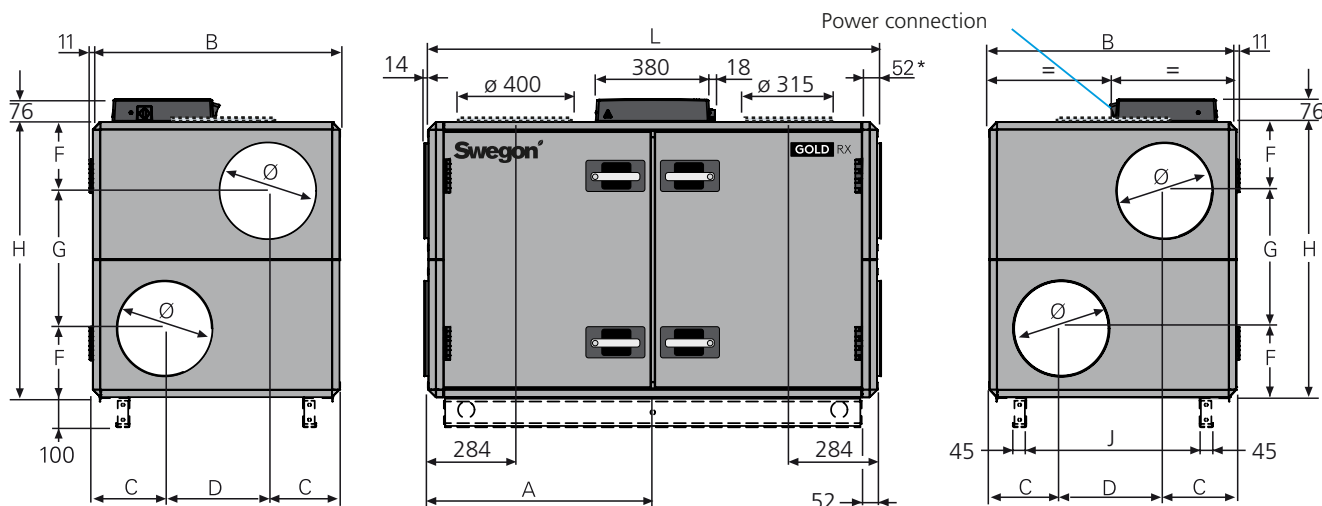
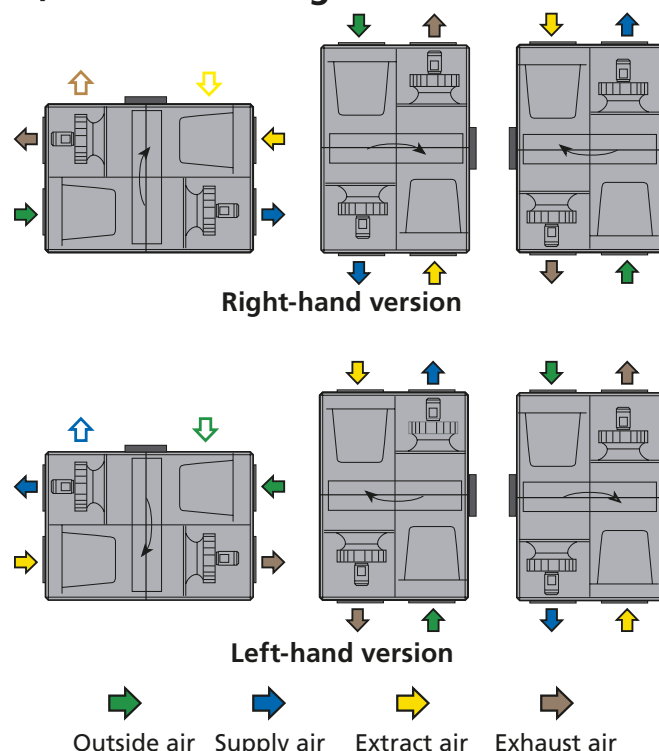
### Duct connection options

**A:** Specify right-hand or left-hand version when ordering! If the air handling unit is supplied with all the end connection panels, the version can be changed at the building site by selecting the appropriate version in the hand-held micro terminal.

**B:** The air handling unit can be installed up ended (does not apply to units installed outdoors).

**C:** Specify upper fan outlet for upward air discharge when placing orders (Does not apply to units installed outdoors).  
N.B.! Duct connection size:  $\varnothing$  400 mm.

**D:** Specify whether the unit shall have an air intake from above for outdoor air or extract air when placing orders (Does not apply to units installed outdoors).



The base beams are optional.

\* If duct accessories are inside an insulated casing, the air handling unit is supplied without end connection panel.

The AHU can also be supplied with full face end connection panel (accessory).

Size	A	B	C	D	F	G	H	J	L	Ø	Weight, kg
005	743	825	240	345	230	460	920	579	1499	315	234-278

### Clear Space for Inspection

A clear space of 800 mm must be provided in front of the unit and at least 200 mm must be provided above the junction hood.

### Power connection

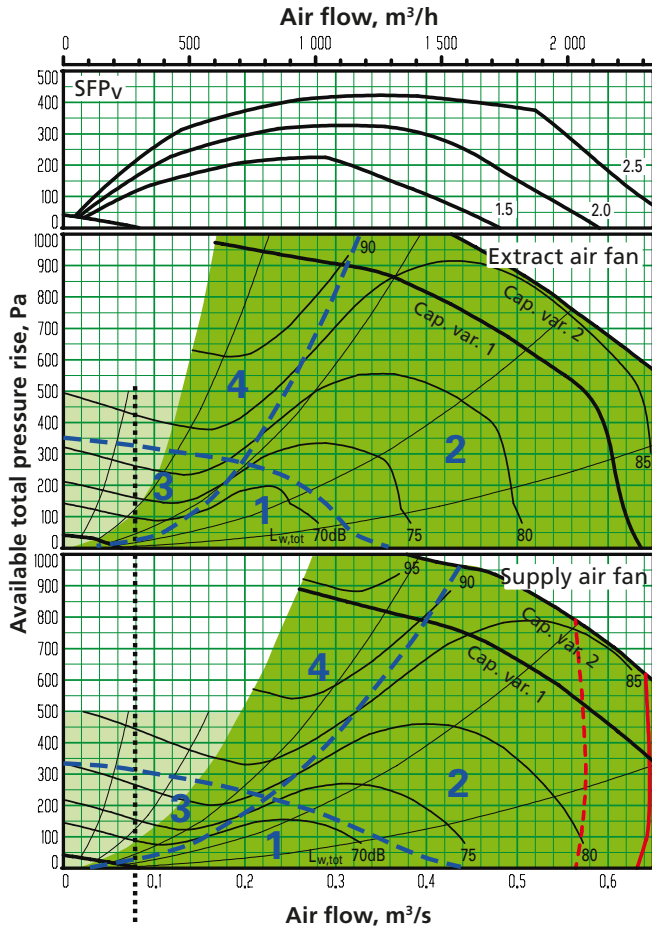
1-phase, 3-wire, 230 V -10/+15%, 50 Hz, 10 A (capacity variant 1) alt. 16 A (capacity variant 2) or 3-phase, 5-wire, 400 V -10/+15%, 50 Hz, 10 A

### Rated data per fan

Motor shaft power: 0.8 kW alt. 1.15 kW, motor control system: 1 x 230 V, 50 Hz

# Sizing, Installation, Dimensions and Weights

## GOLD RX, rotary heat exchanger, size 005, split version STE



The lower limit for the air flow when the unit is operating in the air flow regulation mode.

The limit lines for Ecodesign are calculated with capacity variant 2. The mean value for supply air and extract air must be within the limit line.

- Recommended working range for sizing.
- Permissible operating range when the fan is controlled to operate at a lower speed. The lower limit for the airflow when the unit is operating in the airflow regulation mode; see the black broken line in the diagram. If pressure regulation is used, the airflow can be regulated to zero, however this presupposes a certain static pressure drop in the ducting (approx. 50 Pa).
- Limit line, Ecodesign, 2016
- Limit line, Ecodesign, 2018

### Min. and Max. Airflows

The flows specified refer to those that can be preset in the hand-held micro terminal. The practical flow limits are determined by the external pressure drop.

Size	Min. airflow (on airflow regulation)		Max. airflow	
	m <sup>3</sup> /h	m <sup>3</sup> /s	m <sup>3</sup> /h	m <sup>3</sup> /s
005	288	0.08	2340	0.65

### Correction factors K<sub>OK</sub>, dB

Sound path	Range in the diagram	Octave band, No. / mid-frequency, Hz							
		1	2	3	4	5	6	7	8
		63	125	250	500	1000	2000	4000	8000
To outlet duct	1	-1	-6	-6	-8	-7	-7	-12	-15
	2	-1	-5	-8	-8	-7	-9	-13	-16
	3	-1	-2	-6	-15	-14	-16	-22	-25
	4	-2	-3	-5	-13	-13	-14	-20	-25
To inlet duct*	1	-6	-9	-12	-22	-31	-33	-38	-37
	2	-7	-10	-17	-18	-29	-31	-37	-38
	3	-6	-4	-14	-27	-35	-39	-44	-43
	4	-7	-5	-12	-22	-34	-36	-42	-43
To unit's surroundings**	1	-12	-20	-29	-29	-40	-40	-46	-46
	2	-12	-19	-31	-29	-40	-42	-47	-47
	3	-12	-16	-29	-36	-47	-49	-56	-56
	4	-13	-17	-28	-34	-46	-47	-54	-56

\* The integral attenuation of filters and rotary heat exchanger has been taken into account. \*\* Total sound power level emitted to the surroundings is calculated as the sum of the levels in the supply air and the extract air.

# Sizing, installation, dimensions and weights

## GOLD RX, rotary heat exchanger, size 005, split version

### Delivery and transport within the site

The GOLD RX 005 can be supplied as one single unit, or in a number of different combinations of unit sections from the factory, see the section: Description of the Air Handling Unit/ Delivery Configuration RX/PX/CX, sizes 004-080.

Prefitted base beams as standard.

The unit sections are jointed together/split by means of bolts.

The electrical and control cables between the unit sections have quick-fit connectors.

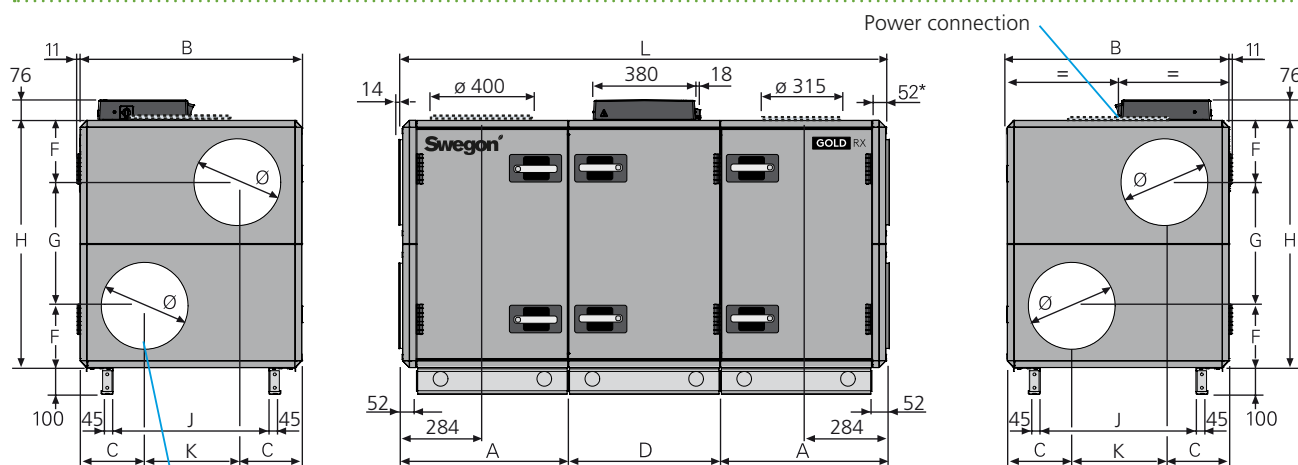
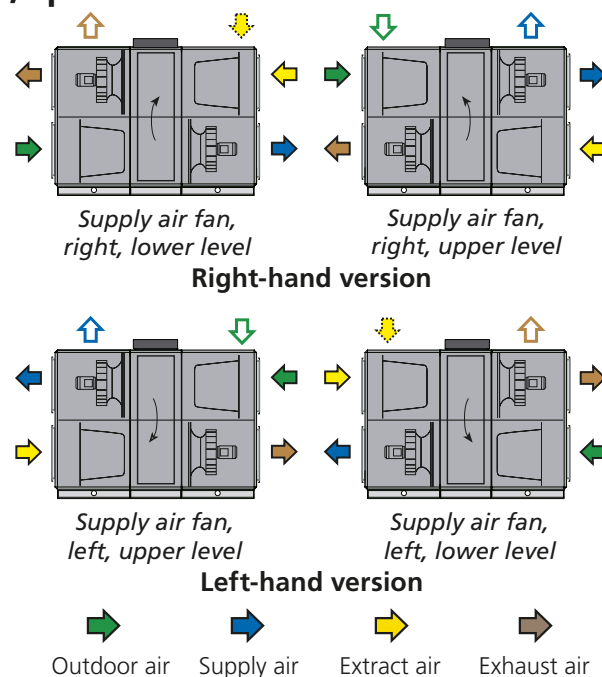
### Duct connection options

**A:** Specify right-hand or left-hand version when ordering. If the air handling unit is supplied with all the end connection panels, the version can be changed at the building site using the hand-held terminal.

**B:** The arrangement of the functional sections can be vertically reversed. To be specified when placing an order, see the illustration to the right.

**C:** Specify upper fan outlet for upward air discharge when placing orders (Does not apply to units installed outdoors).  
N.B.! Duct connection size:  $\varnothing$  400 mm.

**D:** Specify whether the unit shall have an air intake from above for outdoor air or extract air when placing orders (Does not apply to units installed outdoors).



The illustration shows the connections for supply air fan, right-hand/lower level and left-hand/upper level.

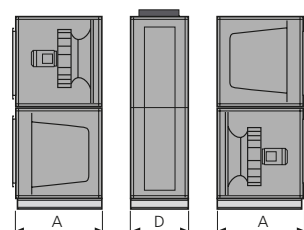
For supply air fan, right-hand/upper level and left-hand/lower level, the connections are mirror-inverted.

\* The air handling unit is supplied without end connection panel if a duct accessory housed in an insulated casing will be connected.

The AHU can also be supplied with full face end connection panel (accessory).

Size	A	B	C	D	F	G	H	J	K	L	Ø	Weight, kg
005	617	825	240	565	230	460	920	579	345	1799	315	278-335

### Division into sections for transport



The unit can be divided into three sections at the building site.

**Dimensions:** See A and D in the table above.

**Weight:** A = 88-112 kg,  
D = 102-111 kg.

### Power connection

1-phase, 3-wire, 230 V -10/+15%, 50 Hz,  
10 A (capacity variant 1) or 16 A (capacity variant 2) or  
3-phase, 5-wire, 400 V -10/+15%, 50 Hz, 10 A

### Rated data per fan

Motor shaft power: 0.8 kW alt. 1.15 kW,  
motor control system: 1 x 230 V, 50 Hz

### Clear space for inspection

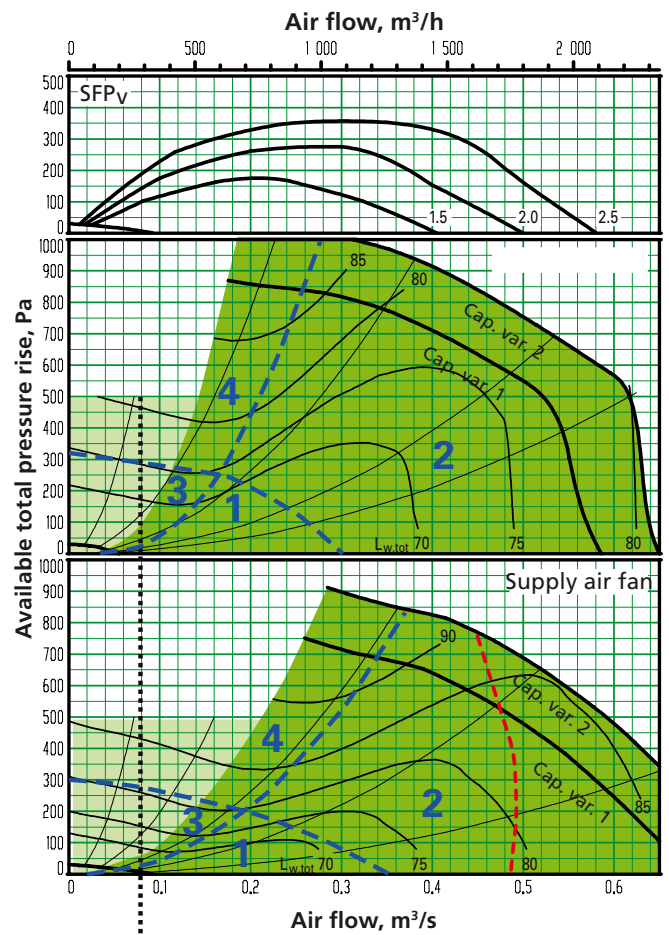
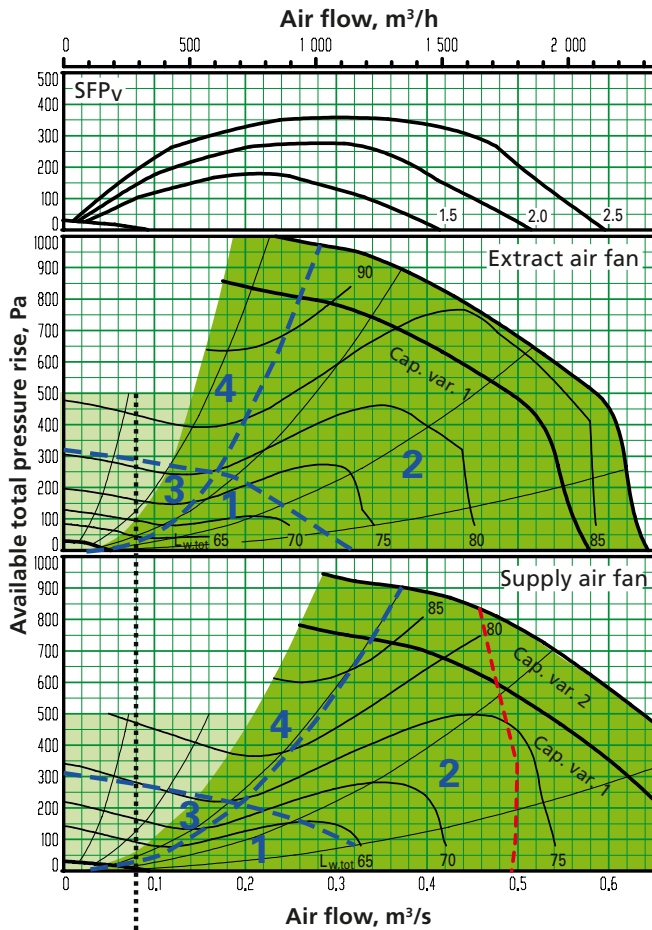
A clear space of 800 mm should be provided in front of the unit and at least 200 mm should be provided above the junction hood.

# Sizing, installation, dimensions and weights

## GOLD RX Top, rotary heat exchanger, size 005

### Left-hand version, STE

### Right-hand version, STE



The lower limit for the air flow when the unit is operating in the air flow regulation mode.

For Ecodesign, the mean value for supply air and extract air must be within the limit line.

- Recommended working range for sizing.
- Permissible operating range when the fan is controlled to operate at a lower speed. The lower limit for the airflow when the unit is operating in the airflow regulation mode; see the black broken line in the diagram. If pressure regulation is used, the airflow can be regulated to zero, however this presupposes a certain static pressure drop in the ducting (approx. 50 Pa).

--- Limit line, Ecodesign, 2018

### Min. and max. air flows

The flows specified refer to those that can be preset in the hand-held terminal. The practical flow limits are determined by the external pressure drop.

Size	Min. airflow (on airflow regulation)		Max. airflow	
	m <sup>3</sup> /h	m <sup>3</sup> /s	m <sup>3</sup> /h	m <sup>3</sup> /s
005	288	0,08	2340	0,65

### Correction factors, K<sub>OK</sub>, dB. Fan in lower level.

Sound path	Range in the diagram	Octave band, No. / mid-frequency, Hz							
		1	2	3	4	5	6	7	8
To the outlet duct	1	0	-5	-8	-5	-10	-11	-17	-23
	2	-1	-6	-8	-6	-9	-10	-17	-22
	3	0	-5	-4	-8	-14	-16	-23	-31
	4	-1	-6	-4	-7	-13	-15	-22	-30
To the inlet duct*	1	-3	-4	-10	-14	-30	-37	-43	-55
	2	-4	-6	-9	-16	-29	-37	-43	-53
	3	-2	-3	-6	-19	-34	-42	-49	-55
	4	-3	-4	-6	-17	-33	-42	-48	-53
To unit's surroundings**	1	-11	-19	-31	-26	-43	-44	-51	-54
	2	-12	-20	-31	-27	-42	-43	-51	-53
	3	-11	-19	-27	-29	-47	-49	-57	-62
	4	-12	-20	-27	-28	-46	-48	-56	-61

### Correction factors, K<sub>OK</sub>, dB. Fan in upper level.

Sound path	Range in the diagram	Octave band, No. / mid-frequency, Hz							
		1	2	3	4	5	6	7	8
To the outlet duct	1	-1	-6	-5	-8	-11	-11	-15	-20
	2	-2	-7	-5	-8	-10	-10	-15	-19
	3	-4	-7	-2	-11	-17	-18	-24	-30
	4	-2	-8	-2	-10	-15	-16	-22	-27
To the inlet duct*	1	-2	-4	-9	-20	-32	-38	-41	-55
	2	-5	-6	-10	-22	-32	-37	-41	-53
	3	-7	-6	-8	-27	-38	-45	-50	-59
	4	-8	-7	-8	-24	-37	-43	-48	-56
To unit's surroundings**	1	-12	-20	-28	-29	-44	-44	-49	-51
	2	-13	-21	-28	-29	-43	-43	-49	-50
	3	-15	-21	-25	-32	-50	-51	-58	-61
	4	-13	-22	-25	-31	-48	-49	-56	-58

\* The integral attenuation of filters and rotary heat exchanger has been taken into account.

\*\* Total sound power level emitted to the surroundings is calculated as the sum of the levels in the supply air and the extract air.

# Sizing, installation, dimensions and weights

## GOLD RX Top, rotary heat exchanger, size 005

### Delivery and transport within the site

The GOLD RX Top 005 unit is produced in one variant in which all the components are arranged at their given physical location inside the unit.

The unit can also be delivered as L-concept with top fed duct connections in combination with side fed duct connections, see the section Description Air handling unit.

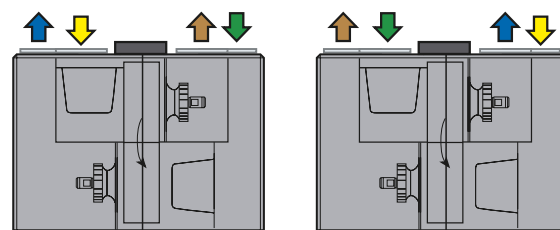
The air handling unit is supplied on a wooden pallet.

Prefitted base beams are obtainable as optional equipment.

### Installation/duct connection options

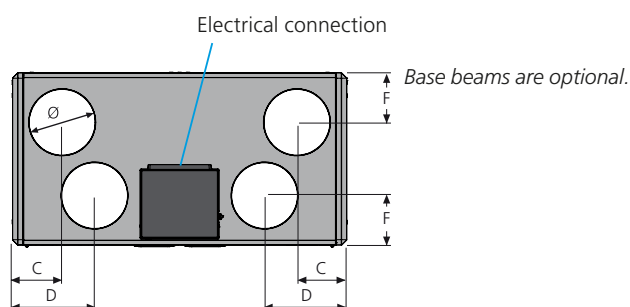
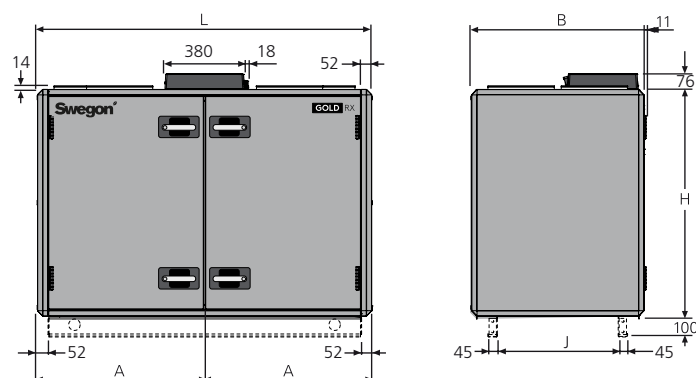
**A:** All the duct connections are arranged from the top of the air handling unit (the unit must not be installed outdoors).

**B:** Specify right-hand or left-hand version when ordering. The version can be changed at the building site using the hand-held terminal. **Note:** Supply air filters and extract air filters have different dimensions and may need to be replaced for different filter classes.



Left-hand version

Right-hand version



Size	A	B	C	D	F	H	J	L	Ø	Weight, kg
005	800	825	238	393	237	1085	579	1600	315	295-310

### Clear space for inspection

A clear space of 800 mm should be provided in front of the unit and at least 200 mm should be provided above the junction hood.

### Electrical connection

1-phase, 3-wire, 230 V -10/+15%, 50 Hz, 10 A (capacity variant 1) or 16 A (capacity variant 2) or 3-phase, 5-wire, 400 V -10/+15%, 50 Hz, 10 A

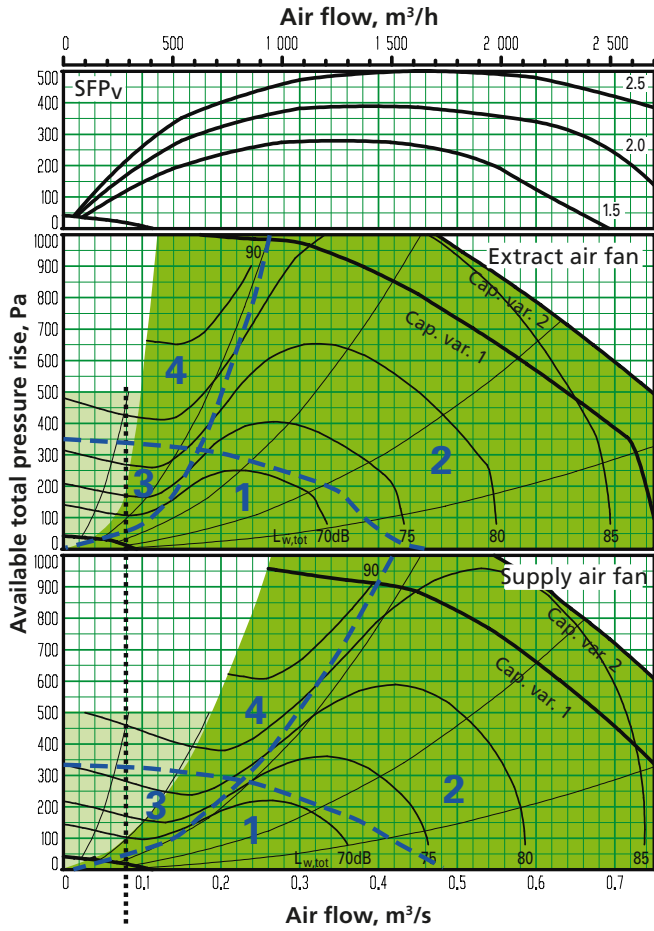
### Rated data per fan

Motor shaft power: 0.8 kW alt. 1.15 kW, motor controller: 1 x 230 V, 50 Hz



# Sizing, installation, dimensions and weights

## GOLD RX, rotary heat exchanger, size 007, common casing STE



The lower limit for the air flow when the unit is operating in the air flow regulation mode.

The air handling unit complies with requirements to Ecodesign 2016/2018.

Recommended working range for sizing.

Permissible operating range when the fan is controlled to operate at a lower speed. The lower limit for the airflow when the unit is operating in the airflow regulation mode; see the black broken line in the diagram. If pressure regulation is used, the airflow can be regulated to zero, however this presupposes a certain static pressure drop in the ducting (approx. 50 Pa).

### Min. and max. airflows

The flows specified refer to those that can be preset in the hand-held micro terminal. The practical flow limits are determined by the external pressure drop.

Size	Min. airflow (for airflow regulation)		Max. airflow	
	m <sup>3</sup> /h	m <sup>3</sup> /s	m <sup>3</sup> /h	m <sup>3</sup> /s
007	288	0,08	2700	0,75

### Correction factors, K<sub>OK</sub>, dB

Sound path	Range in the diagram	Octave band, no./mid-frequency, Hz							
		1	2	3	4	5	6	7	8
		63	125	250	500	1000	2000	4000	8000
To outlet duct	1	-1	-6	-6	-8	-7	-7	-12	-15
	2	-1	-5	-8	-8	-7	-9	-13	-16
	3	-1	-2	-6	-15	-14	-16	-22	-25
	4	-2	-3	-5	-13	-13	-14	-20	-25
To inlet duct*	1	-6	-9	-12	-22	-31	-33	-38	-37
	2	-7	-10	-17	-18	-29	-31	-37	-38
	3	-6	-4	-14	-27	-35	-39	-44	-43
	4	-7	-5	-12	-22	-34	-36	-42	-43
To air handling unit surroundings**	1	-12	-20	-29	-29	-40	-40	-46	-46
	2	-12	-19	-31	-29	-40	-42	-47	-47
	3	-12	-16	-29	-36	-47	-49	-56	-56
	4	-13	-17	-28	-34	-46	-47	-54	-56

\* The integral attenuation of filters and rotary heat exchanger has been taken into account. \*\* Total sound power level emitted to the surroundings is calculated as the sum of the levels in the supply air and the extract air.



# Sizing, installation, dimensions and weights

## GOLD RX, rotary heat exchanger, size 007, common casing

### Delivery and transport within the site

The GOLD RX 007 is produced in one single variant. All of its components are arranged at their given physical location inside the air handling unit. The air handling unit is supplied on a wooden pallet.

Prefitted base beams are obtainable as optional equipment; a separately supplied stand is available as an accessory.

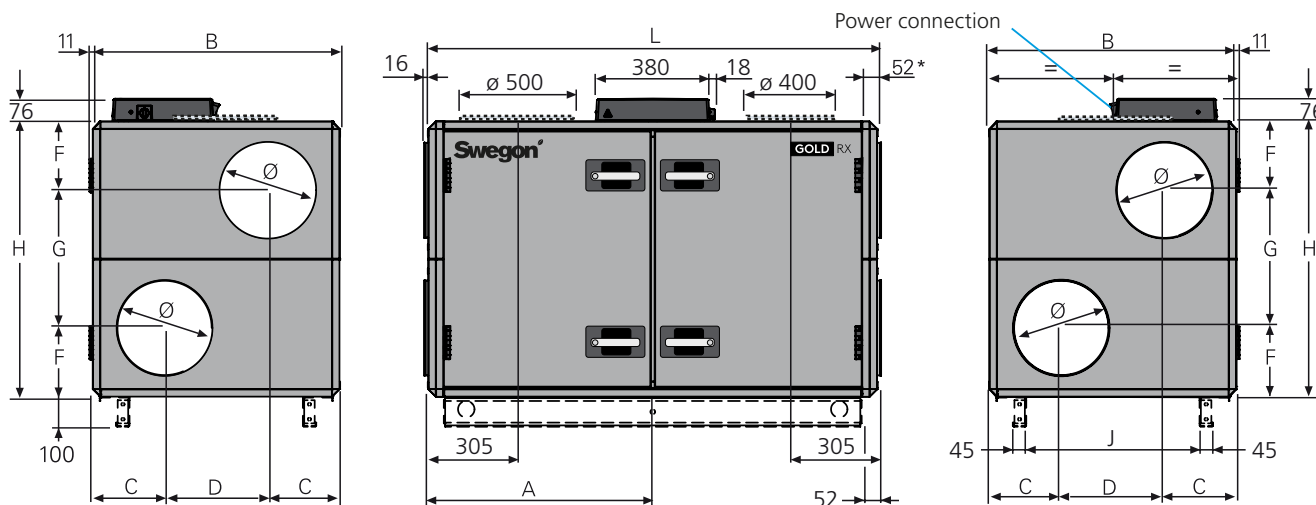
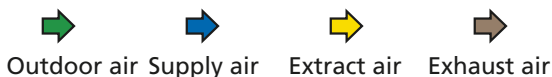
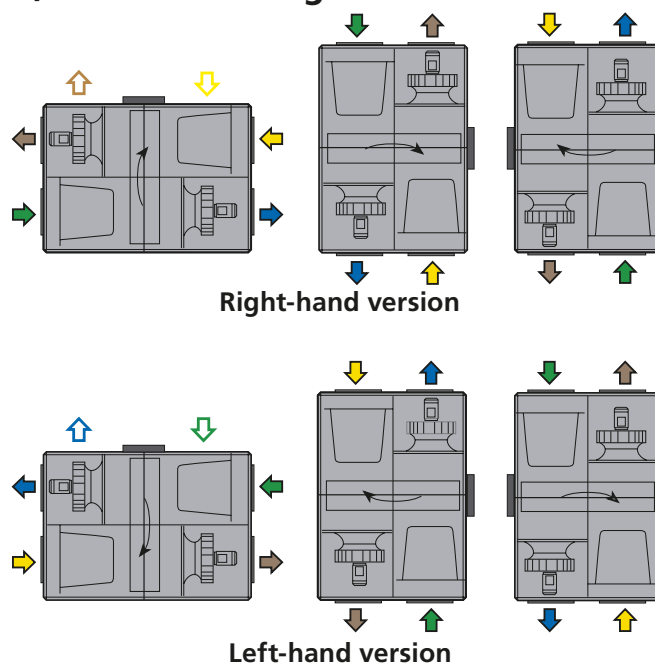
### Duct connection options

**A:** Specify right-hand or left-hand version when ordering. If the air handling unit is supplied with all the end connection panels, the version can be changed at the building site by selecting the appropriate version in the hand-held micro terminal.

**B:** The air handling unit can be installed up ended (does not apply to units installed outdoors).

**C:** Specify upper fan outlet for upward air discharge when placing orders (Does not apply to units installed outdoors).  
N.B.! Duct connection size:  $\varnothing$  500 mm.

**D:** Specify whether the unit shall have an air intake from above for outdoor air or extract air when placing orders (Does not apply to units installed outdoors).



The base beams are optional.

\* If duct accessories are inside an insulated casing, the air handling unit is supplied without end connection panel. The AHU can also be supplied with full face end connection panel (accessory).

Size	A	B	C	D	F	G	H	J	L	Ø	Weight, kg
007	805	995	277,5	440	271	543	1085	749	1619	400	281-355

### Clear space for inspection

A clear space of 900 mm should be provided in front of the unit and at least 200 mm should be provided above the junction hood.

### Power connection

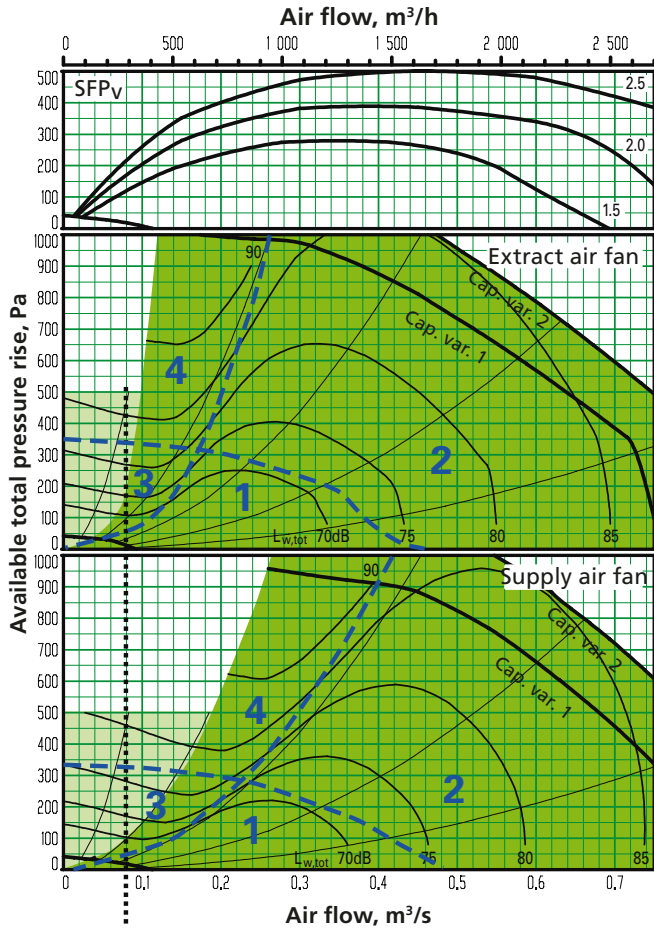
1-phase, 3-wire cable, 230 V -10/+15%, 50 Hz, 10 A (capacity variant 1) alt. 16 A (capacity variant 2) or 3-phase, 5-wire cable, 400 V -10/+15%, 50 Hz, 10 A

### Rated data per fan

Motor shaft power: 0.8 kW alt. 1.15 kW, motor control system: 1 x 230 V, 50 Hz

# Sizing, installation, dimensions and weights

## GOLD RX, rotary heat exchanger, size 007, split version STE



The lower limit for the air flow when the unit is operating in the air flow regulation mode.

The air handling unit complies with requirements to Ecodesign 2016/2018.

Recommended working range for sizing.

Permissible operating range when the fan is controlled to operate at a lower speed. The lower limit for the airflow when the unit is operating in the airflow regulation mode; see the black broken line in the diagram. If pressure regulation is used, the airflow can be regulated to zero, however this presupposes a certain static pressure drop in the ducting (approx. 50 Pa).

### Min. and max. airflows

The flows specified refer to those that can be preset in the hand-held micro terminal. The practical flow limits are determined by the external pressure drop.

Size	Min. airflow (for airflow regulation)		Max. airflow	
	m <sup>3</sup> /h	m <sup>3</sup> /s	m <sup>3</sup> /h	m <sup>3</sup> /s
007	288	0,08	2700	0,75

### Correction factors, K<sub>OK</sub>, dB

Sound path	Range in the diagram	Octave band, no./mid-frequency, Hz							
		1	2	3	4	5	6	7	8
		63	125	250	500	1000	2000	4000	8000
To outlet duct	1	-1	-6	-6	-8	-7	-7	-12	-15
	2	-1	-5	-8	-8	-7	-9	-13	-16
	3	-1	-2	-6	-15	-14	-16	-22	-25
	4	-2	-3	-5	-13	-13	-14	-20	-25
To inlet duct*	1	-6	-9	-12	-22	-31	-33	-38	-37
	2	-7	-10	-17	-18	-29	-31	-37	-38
	3	-6	-4	-14	-27	-35	-39	-44	-43
	4	-7	-5	-12	-22	-34	-36	-42	-43
To air handling unit surroundings**	1	-12	-20	-29	-29	-40	-40	-46	-46
	2	-12	-19	-31	-29	-40	-42	-47	-47
	3	-12	-16	-29	-36	-47	-49	-56	-56
	4	-13	-17	-28	-34	-46	-47	-54	-56

\* The integral attenuation of filters and rotary heat exchanger has been taken into account. \*\* Total sound power level emitted to the surroundings is calculated as the sum of the levels in the supply air and the extract air.

# Sizing, installation, dimensions and weights

## GOLD RX, rotary heat exchanger, size 007, split version

### Delivery and transport within the site

The GOLD RX 007 can be supplied as one single unit, or in a number of different combinations of unit sections from the factory, see the section: Description of the Air Handling Unit/Delivery Configuration RX/PX/CX, sizes 004-080.

Prefitted base beams as standard.

The unit sections are jointed together/split by means of bolts. The electrical and control cables between the unit sections have quick-fit connectors.

### Duct connection options

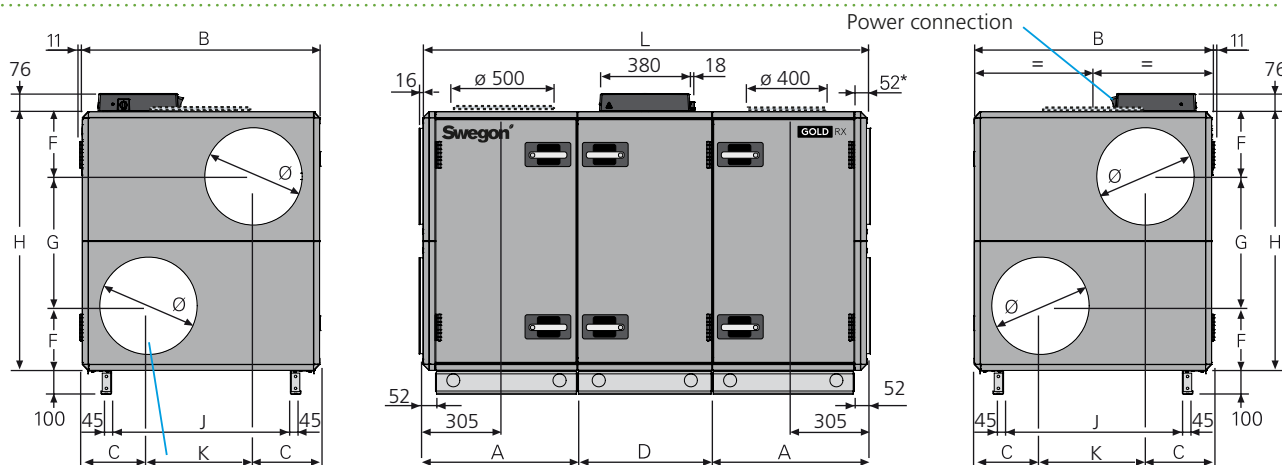
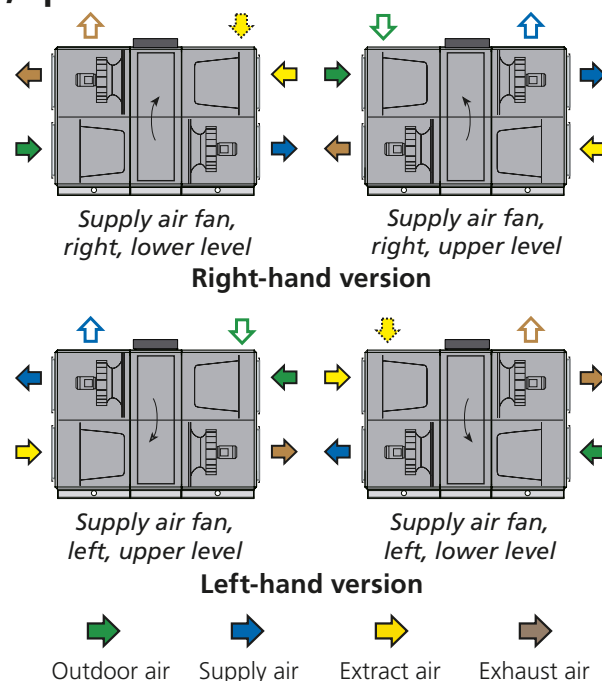
**A:** Specify right-hand or left-hand version when ordering. If the air handling unit is supplied with all the end connection panels, the version can be changed at the building site using the hand-held terminal.

**B:** The arrangement of the functional sections can be vertically reversed. To be specified when placing an order, see the illustration to the right.

**C:** Specify upper fan outlet for upward air discharge when placing orders (Does not apply to units installed outdoors).

N.B.! Duct connection size:  $\varnothing$  500 mm.

**D:** Specify whether the unit shall have an air intake from above for outdoor air or extract air when placing orders (Does not apply to units installed outdoors).



The illustration shows the connections for supply air fan, right-hand/lower level and left-hand/upper level.

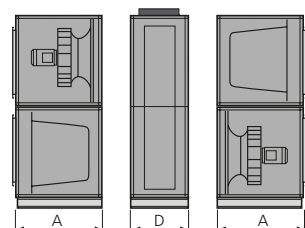
For supply air fan, right-hand/upper level and left-hand/lower level, the connections are mirror-inverted.

\* The air handling unit is supplied without end connection panel if a duct accessory housed in an insulated casing will be connected.

The AHU can also be supplied with full face end connection panel (accessory).

Size	A	B	C	D	F	G	H	J	K	L	Ø	Weight, kg
007	647.5	995	277.5	565	271	543	1085	749	440	1860	400	327-412

### Division into sections for transport



The unit can be divided into three sections at the building site.

**Dimensions:** See A and D in the table above.

**Weight:** A = 103-138 kg, D = 121-136 kg.

### Power connection

1-phase, 3-wire, 230 V -10/+15%, 50 Hz, 10 A (capacity variant 1) or 16 A (capacity variant 2) or 3-phase, 5-wire, 400 V -10/+15%, 50 Hz, 10 A

### Rated data per fan

Motor shaft power: 0.8 kW alt. 1.15 kW, motor control system: 1 x 230 V, 50 Hz

### Clear space for inspection

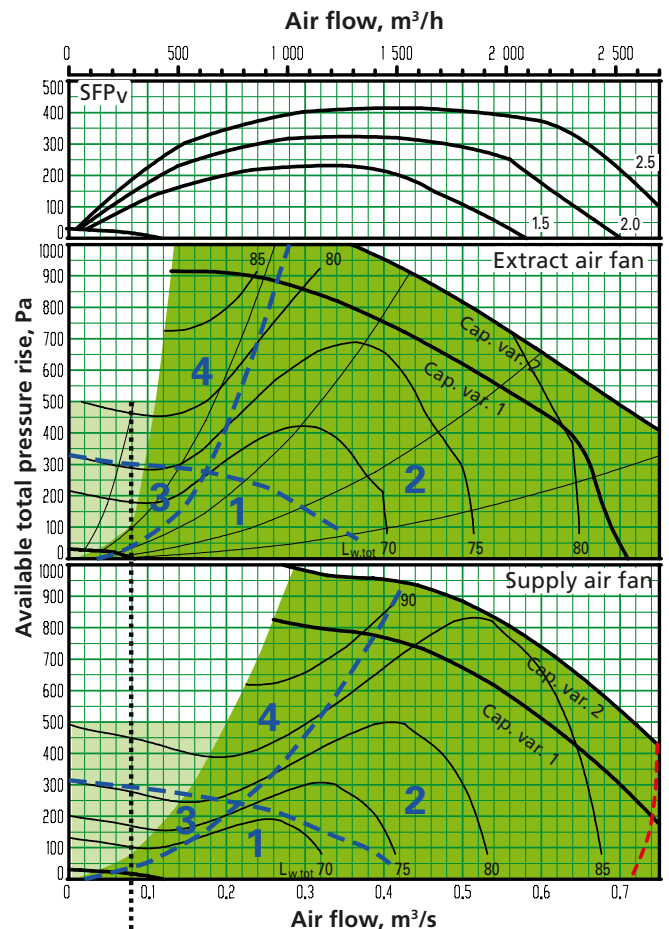
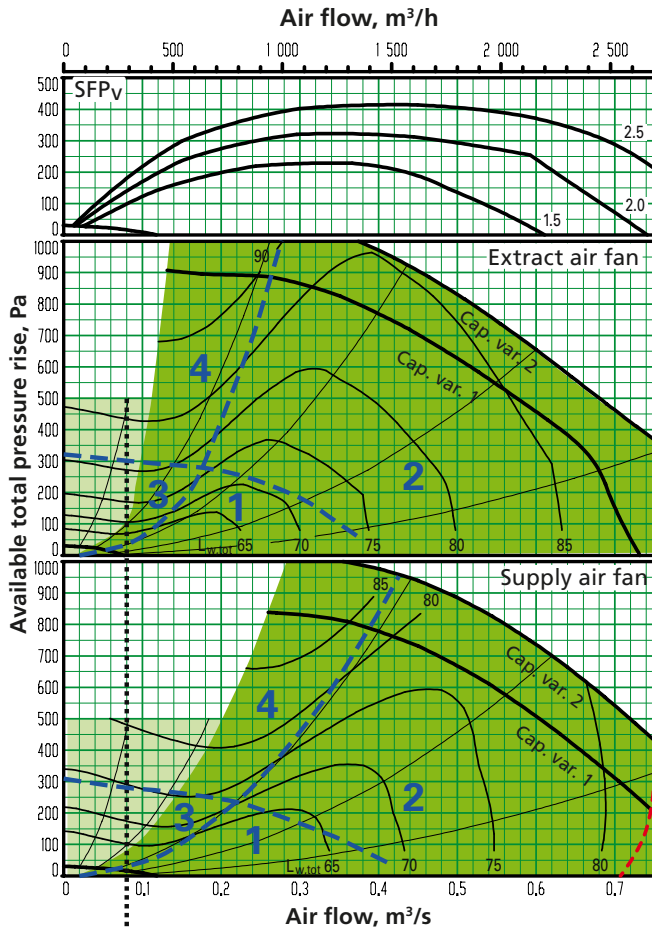
A clear space of 900 mm should be provided in front of the unit and at least 200 mm should be provided above the junction hood.

# Sizing, installation, dimensions and weights

## GOLD RX Top, rotary heat exchanger, size 007

Left-hand version, STE

Right-hand version, STE



The lower limit for the air flow when the unit is operating in the air flow regulation mode.

For Ecodesign, the mean value for supply air and extract air must be within the limit line.

- Recommended working range for sizing.
- Permissible operating range when the fan is controlled to operate at a lower speed. The lower limit for the airflow when the unit is operating in the airflow regulation mode; see the black broken line in the diagram. If pressure regulation is used, the airflow can be regulated to zero, however this presupposes a certain static pressure drop in the ducting (approx. 50 Pa).
- Limit line, Ecodesign, 2018

### Min. and max. air flows

The flows specified refer to those that can be preset in the hand-held terminal. The practical flow limits are determined by the external pressure drop.

Size	Min. airflow (for airflow regulation)		Max. airflow	
	m <sup>3</sup> /h	m <sup>3</sup> /s	m <sup>3</sup> /h	m <sup>3</sup> /s
007	288	0,08	2700	0.75

### Correction factors, K<sub>OK</sub>, dB. Fan in lower level.

Sound path	Range in the diagram	Octave band, no./mid-frequency, Hz							
		1	2	3	4	5	6	7	8
		63	125	250	500	1000	2000	4000	8000
To the outlet duct	1	0	-8	-10	-3	-9	-9	-16	-22
	2	-1	-8	-10	-5	-8	-7	-14	-19
	3	1	-3	-5	-10	-15	-15	-23	-30
	4	-1	-6	-4	-7	-13	-13	-20	-27
To the inlet duct*	1	-3	-6	-17	-16	-30	-35	-40	-50
	2	-4	-6	-15	-16	-29	-32	-38	-47
	3	0	-1	-11	-21	-36	-39	-45	-51
	4	-2	-2	-8	-17	-33	-36	-41	-46
To unit's surroundings**	1	-11	-22	-33	-24	-42	-42	-50	-53
	2	-12	-22	-33	-26	-41	-40	-48	-50
	3	-10	-17	-28	-31	-48	-48	-57	-61
	4	-12	-20	-27	-28	-46	-46	-54	-58

### Correction factors, K<sub>OK</sub>, dB. Fan in upper level.

Sound path	Range in the diagram	Octave band, no./mid-frequency, Hz							
		1	2	3	4	5	6	7	8
		63	125	250	500	1000	2000	4000	8000
To the outlet duct	1	-3	-7	-9	-5	-11	-10	-15	-19
	2	-2	-7	-9	-5	-10	-8	-13	-17
	3	-1	-3	-4	-14	-18	-17	-25	-29
	4	-1	-5	-3	-11	-15	-15	-22	-28
To the inlet duct*	1	-6	-8	-18	-21	-32	-37	-40	-53
	2	-7	-9	-16	-19	-33	-36	-39	-51
	3	-4	-4	-13	-28	-40	-45	-50	-60
	4	-6	-6	-10	-24	-37	-43	-47	-54
To unit's surroundings**	1	-14	-21	-32	-26	-44	-43	-49	-50
	2	-13	-21	-32	-26	-43	-41	-47	-48
	3	-12	-17	-27	-35	-51	-50	-59	-60
	4	-12	-19	-26	-32	-48	-48	-56	-59

\* The integral attenuation of filters and rotary heat exchanger has been taken into account.

\*\* Total sound power level emitted to the surroundings is calculated as the sum of the levels in the supply air and the extract air.

# Sizing, installation, dimensions and weights

## GOLD RX Top, rotary heat exchanger, size 007

### Delivery and transport within the site

The GOLD RX Top 007 unit is produced in one variant in which all the components are arranged at their given physical location inside the unit.

The unit can also be delivered as L-concept with top fed duct connections in combination with side fed duct connections, see the section Description Air handling unit.

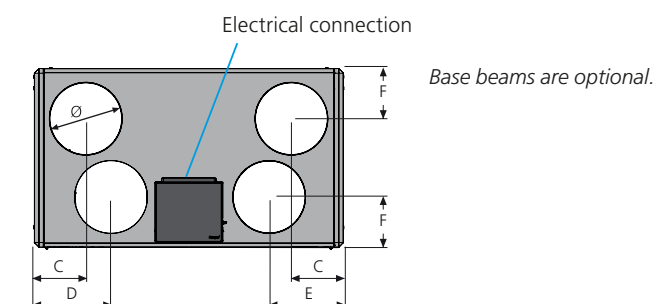
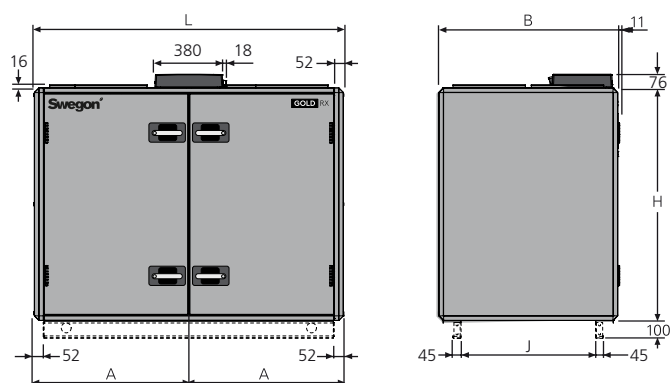
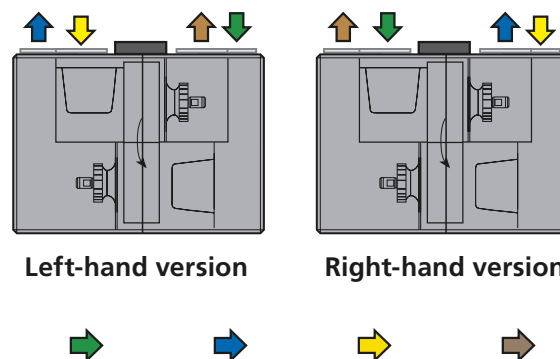
The air handling unit is supplied on a wooden pallet.

Prefitted base beams are obtainable as optional equipment.

### Installation/duct connection options

**A:** All the duct connections are arranged from the top of the air handling unit (the unit must not be installed outdoors).

**B:** Specify right-hand or left-hand version when ordering. The version can be changed at the building site using the hand-held terminal. **Note:** Supply air filters and extract air filters have different dimensions and may need to be replaced for different filter classes.



Size	A	B	C	D	E	F	H	J	L	Ø	Weight, kg
007	860	995	286	426	406	280	1295	749	1720	400	351-376

### Clear space for inspection

A clear space of 900 mm should be provided in front of the unit and at least 200 mm should be provided above the junction hood.

### Electrical connection

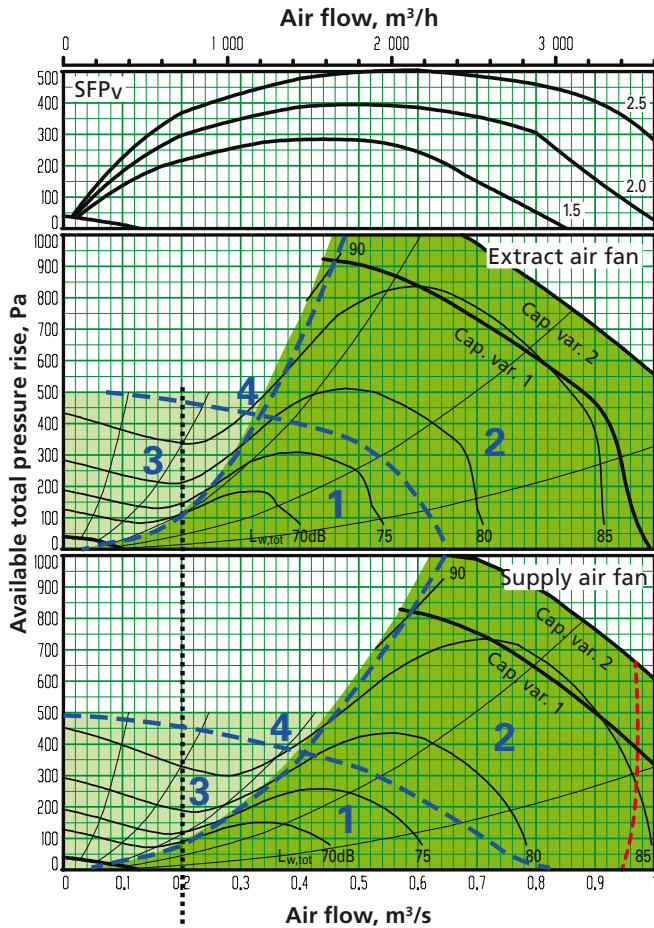
1-phase, 3-wire, 230 V -10/+15%, 50 Hz, 10 A (capacity variant 1) or 16 A (capacity variant 2) or 3-phase, 5-wire, 400 V -10/+15%, 50 Hz, 10 A

### Rated data per fan

Motor shaft power: 0.8 kW alt. 1.15 kW, motor controller: 1 x 230 V, 50 Hz

# Sizing, Installation, Dimensions and Weights

## GOLD RX, rotary heat exchanger, size 008, common casing STE



The lower limit for the air flow when the unit is operating in the air flow regulation mode.

The limit line for Ecodesign 2018 is calculated with capacity variant 2. The mean value for supply air and extract air must be within the limit line. The air handling unit complies with requirements to Ecodesign 2016.

- Recommended working range for sizing.
- Permissible operating range when the fan is controlled to operate at a lower speed. The lower limit for the airflow when the unit is operating in the airflow regulation mode; see the black broken line in the diagram. If pressure regulation is used, the airflow can be regulated to zero, however this presupposes a certain static pressure drop in the ducting (approx. 50 Pa).
- Limit line, Ecodesign, 2018

### Min. and Max. Airflows

The flows specified refer to those that can be preset in the hand-held micro terminal. The practical flow limits are determined by the external pressure drop.

Size	Min. airflow (on airflow regulation)		Max. airflow	
	m <sup>3</sup> /h	m <sup>3</sup> /s	m <sup>3</sup> /h	m <sup>3</sup> /s
008	720	0.20	3600	1.00

### Correction factors K<sub>OK</sub>, dB

Sound path	Range in the diagram	Octave band, No. / mid-frequency, Hz							
		1	2	3	4	5	6	7	8
		63	125	250	500	1000	2000	4000	8000
To outlet duct	1	-1	-6	-6	-8	-7	-7	-12	-15
	2	-1	-5	-8	-8	-7	-9	-13	-16
	3	-1	-2	-6	-15	-14	-16	-22	-25
	4	-2	-3	-5	-13	-13	-14	-20	-25
To inlet duct*	1	-6	-9	-12	-22	-31	-33	-38	-37
	2	-7	-10	-17	-18	-29	-31	-37	-38
	3	-6	-4	-14	-27	-35	-39	-44	-43
	4	-7	-5	-12	-22	-34	-36	-42	-43
To air handling unit surroundings**	1	-12	-20	-29	-29	-40	-40	-46	-46
	2	-12	-19	-31	-29	-40	-42	-47	-47
	3	-12	-16	-29	-36	-47	-49	-56	-56
	4	-13	-17	-28	-34	-46	-47	-54	-56

\* The integral attenuation of filters and rotary heat exchanger has been taken into account. \*\* Total sound power level emitted to the surroundings is calculated as the sum of the levels in the supply air and the extract air.



# Sizing, Installation, Dimensions and Weights

## GOLD RX, rotary heat exchanger, size 008, common casing

### Delivery and Transport within the Site

The GOLD RX 008 is produced in one single variant, in which all the components are arranged at their given physical locations inside the air handling unit. The air handling unit is supplied on a wooden pallet.

Prefitted base beams are obtainable as optional equipment; a separately supplied stand is available as an accessory.

### Duct connection options

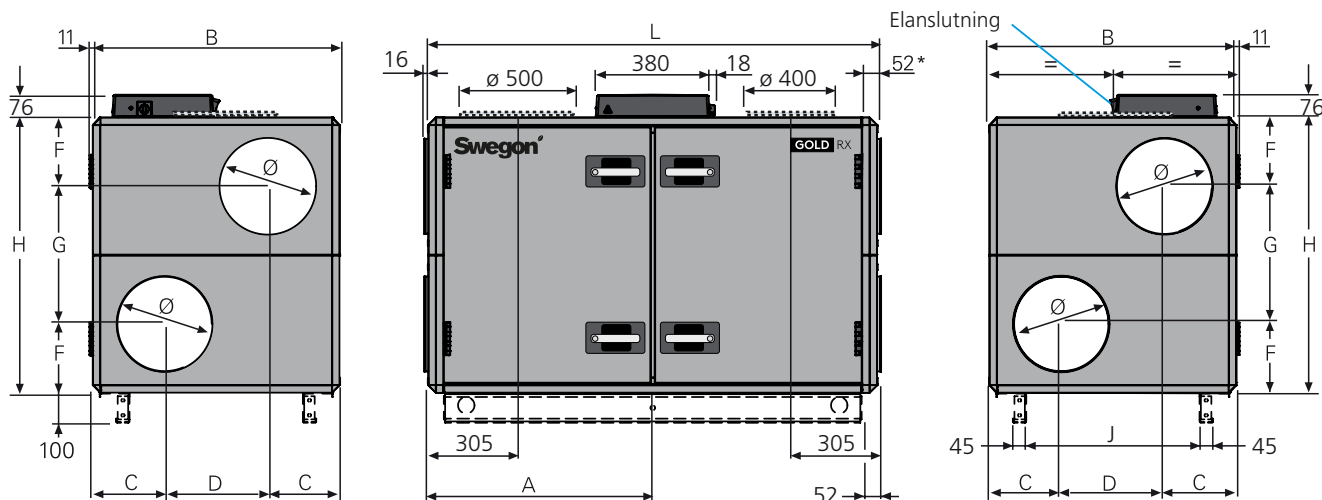
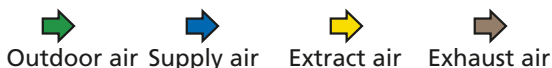
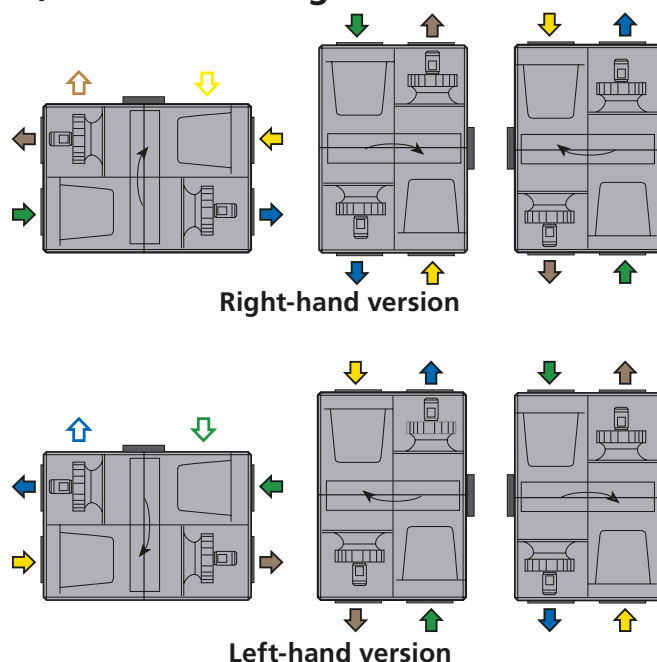
**A:** Specify right-hand or left-hand version when ordering! If the air handling unit is supplied with all the end connection panels, the version can be changed at the building site by selecting the appropriate version in the hand-held micro terminal.

**B:** The air handling unit can be installed up ended (does not apply to units installed outdoors).

**C:** Specify upper fan outlet for upward air discharge when placing orders (Does not apply to units installed outdoors).

N.B.! Duct connection size:  $\varnothing$  500 mm.

**D:** Specify whether the unit shall have an air intake from above for outdoor air or extract air when placing orders (Does not apply to units installed outdoors).



The base beams are optional.

\* If duct accessories are inside an insulated casing, the air handling unit is supplied without end connection panel.

The AHU can also be supplied with full face end connection panel (accessory)..

Storlek	A	B	C	D	F	G	H	J	L	$\varnothing$	Vikt, kg
008	805	995	277,5	440	271	543	1085	749	1619	400	295-363

### Clear Space for Inspection

A clear space of 900 mm must be provided in front of the unit and at least 200 mm must be provided above the junction hood.

### Power connection

**Capacity variant 1:**

1-phase, 3-wire, 230 V -10/+15%, 50 Hz, 16 A or  
3-phase, 5-wire, 400 V -10/+15%, 50 Hz, 10 A

**Capacity variant 2:**

3-phase, 5-wire, 400 V -10/+15%, 50 Hz, 10 A

### Rated data per fan

**Capacity variant 1:**

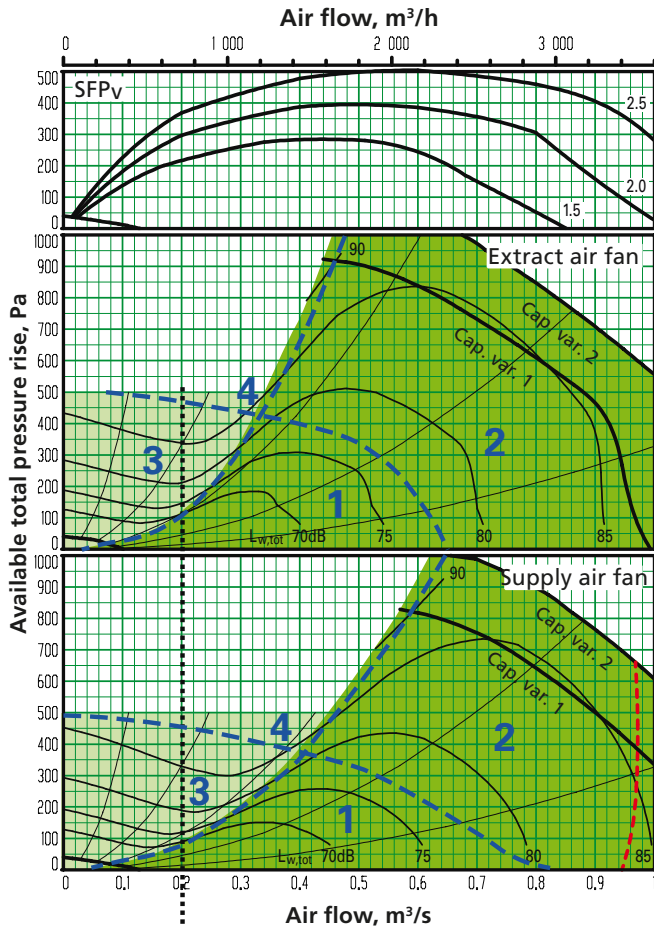
Motor shaft power: 1.15 kW,  
motor control system: 1 x 230 V, 50 Hz

**Capacity variant 2:**

Motor shaft power: 1.6 kW,  
motor control system: 3 x 400 V, 50 Hz

# Sizing, Installation, Dimensions and Weights

## GOLD RX, rotary heat exchanger, size 008, split version STE



The lower limit for the air flow when the unit is operating in the air flow regulation mode.

The limit line for Ecodesign 2018 is calculated with capacity variant 2. The mean value for supply air and extract air must be within the limit line. The air handling unit complies with requirements to Ecodesign 2016.

- Recommended working range for sizing.
- Permissible operating range when the fan is controlled to operate at a lower speed. The lower limit for the airflow when the unit is operating in the airflow regulation mode; see the black broken line in the diagram. If pressure regulation is used, the airflow can be regulated to zero, however this presupposes a certain static pressure drop in the ducting (approx. 50 Pa).
- Limit line, Ecodesign, 2018

### Min. and Max. Airflows

The flows specified refer to those that can be preset in the hand-held micro terminal. The practical flow limits are determined by the external pressure drop.

Size	Min. airflow (on airflow regulation)		Max. airflow	
	m <sup>3</sup> /h	m <sup>3</sup> /s	m <sup>3</sup> /h	m <sup>3</sup> /s
008	720	0.20	3600	1.00

### Correction factors K<sub>OK</sub> , dB

Sound path	Range in the diagram	Octave band, No. / mid-frequency, Hz							
		1	2	3	4	5	6	7	8
		63	125	250	500	1000	2000	4000	8000
To outlet duct	1	-1	-6	-6	-8	-7	-7	-12	-15
	2	-1	-5	-8	-8	-7	-9	-13	-16
	3	-1	-2	-6	-15	-14	-16	-22	-25
	4	-2	-3	-5	-13	-13	-14	-20	-25
To inlet duct*	1	-6	-9	-12	-22	-31	-33	-38	-37
	2	-7	-10	-17	-18	-29	-31	-37	-38
	3	-6	-4	-14	-27	-35	-39	-44	-43
	4	-7	-5	-12	-22	-34	-36	-42	-43
To air handling unit surroundings**	1	-12	-20	-29	-29	-40	-40	-46	-46
	2	-12	-19	-31	-29	-40	-42	-47	-47
	3	-12	-16	-29	-36	-47	-49	-56	-56
	4	-13	-17	-28	-34	-46	-47	-54	-56

\* The integral attenuation of filters and rotary heat exchanger has been taken into account. \*\* Total sound power level emitted to the surroundings is calculated as the sum of the levels in the supply air and the extract air.



# Sizing, installation, dimensions and weights

## GOLD RX, rotary heat exchanger, size 008, split version

### Delivery and transport within the site

The GOLD RX 008 can be supplied as one single unit, or in a number of different combinations of unit sections from the factory, see the section: Description of the Air Handling Unit/ Delivery Configuration RX/PX/CX, sizes 004-080.

Prefitted base beams as standard.

The unit sections are jointed together/split by means of bolts.

The electrical and control cables between the unit sections have quick-fit connectors.

### Duct connection options

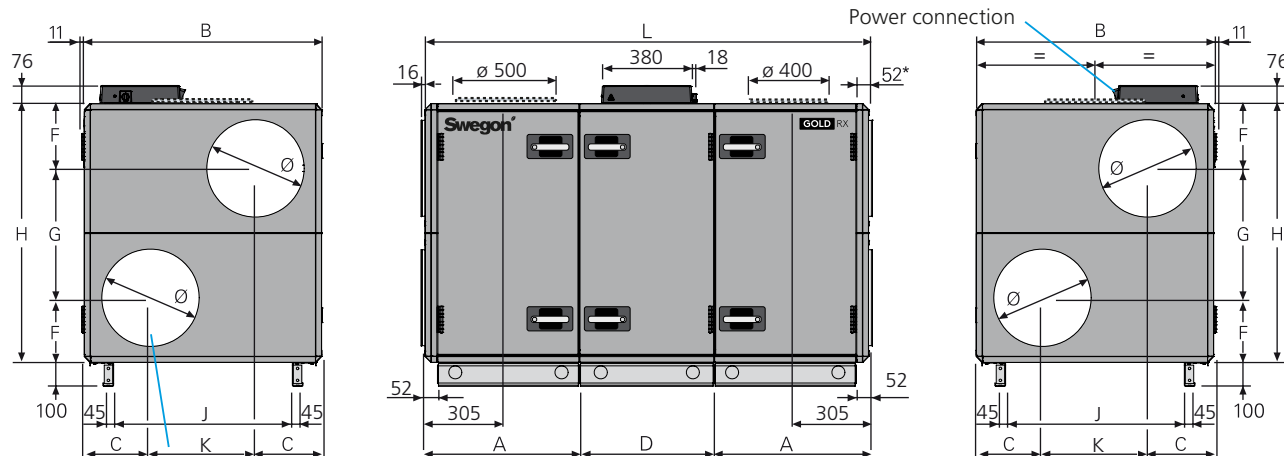
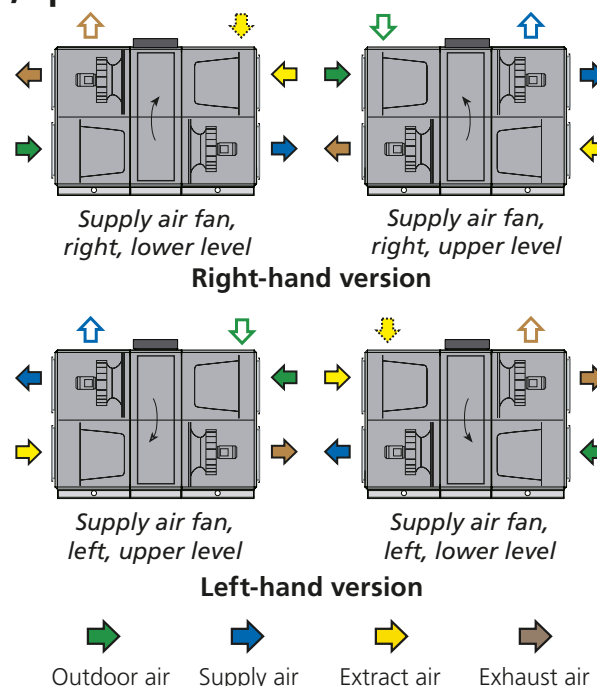
**A:** Specify right-hand or left-hand version when ordering. If the air handling unit is supplied with all the end connection panels, the version can be changed at the building site using the hand-held terminal.

**B:** The arrangement of the functional sections can be vertically reversed. To be specified when placing an order, see the illustration to the right.

**C:** Specify upper fan outlet for upward air discharge when placing orders (Does not apply to units installed outdoors).

N.B.! Duct connection size:  $\varnothing$  500 mm.

**D:** Specify whether the unit shall have an air intake from above for outdoor air or extract air when placing orders (Does not apply to units installed outdoors).



The illustration shows the connections for supply air fan, right-hand/lower level and left-hand/upper level.

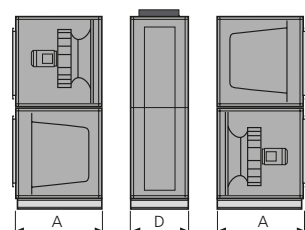
For supply air fan, right-hand/upper level and left-hand/lower level, the connections are mirror-inverted.

\* The air handling unit is supplied without end connection panel if a duct accessory housed in an insulated casing will be connected.

The AHU can also be supplied with full face end connection panel (accessory).

Size	A	B	C	D	F	G	H	J	K	L	$\varnothing$	Weight, kg
008	647.5	995	277.5	565	271	543	1085	749	440	1860	400	341-420

### Division into sections for transport



The unit can be divided into three sections at the building site.

**Dimensions:** See A and D in the table above.

**Weight:** A = 110-142 kg, D = 121-136 kg.

### Clear space for inspection

A clear space of 900 mm should be provided in front of the unit and at least 200 mm should be provided above the junction hood.

### Power connection

**Capacity variant 1:**

1-phase, 3-wire, 230 V -10/+15%, 50 Hz, 16 A or 3-phase, 5-wire, 400 V -10/+15%, 50 Hz, 10 A

**Capacity variant 2:**

3-phase, 5-wire, 400 V -10/+15%, 50 Hz, 10 A

### Rated data per fan

**Capacity variant 1:**

Motor shaft power: 1.15 kW, motor control system: 1 x 230 V, 50 Hz

**Capacity variant 2:**

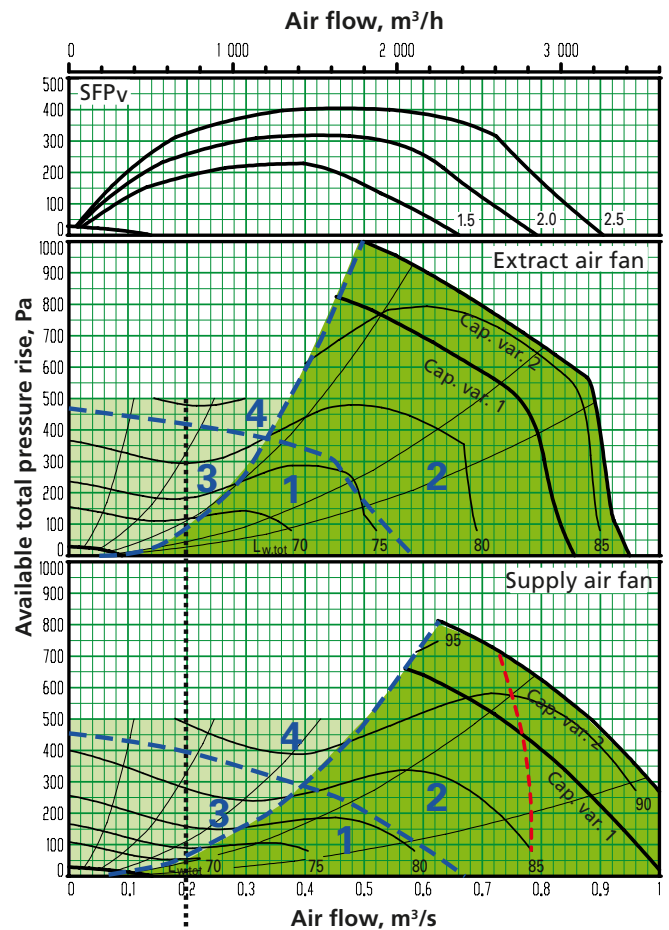
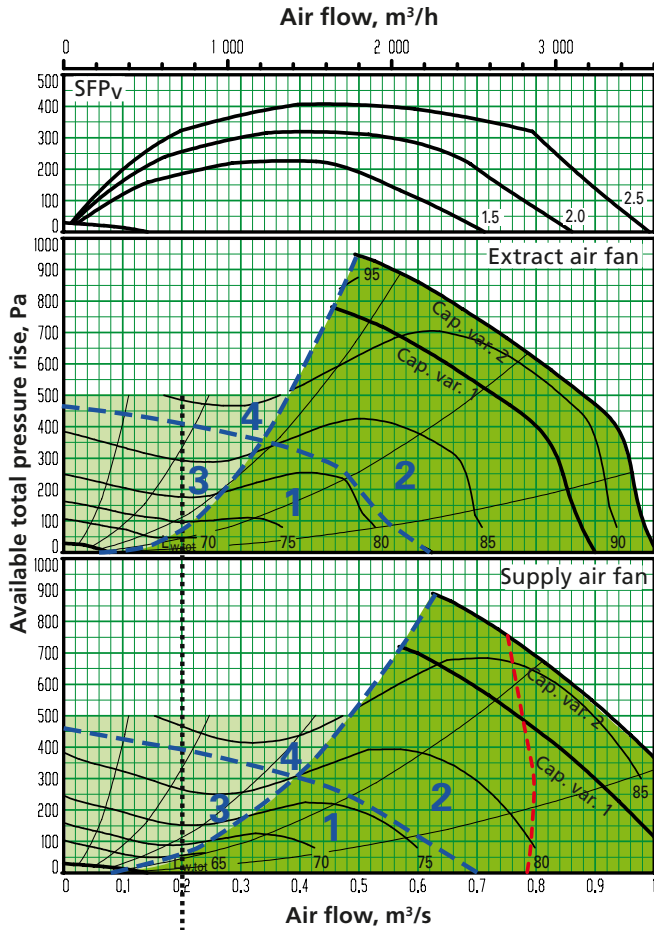
Motor shaft power: 1.6 kW, motor control system: 3 x 400 V, 50 Hz

# Sizing, installation, dimensions and weights

## GOLD RX Top, rotary heat exchanger, size 008

### Left-hand version, STE

### Right-hand version, STE



The lower limit for the air flow when the unit is operating in the air flow regulation mode.

For Ecodesign, the mean value for supply air and extract air must be within the limit line.

- Recommended working range for sizing.
- Permissible operating range when the fan is controlled to operate at a lower speed. The lower limit for the airflow when the unit is operating in the airflow regulation mode; see the black broken line in the diagram. If pressure regulation is used, the airflow can be regulated to zero, however this presupposes a certain static pressure drop in the ducting (approx. 50 Pa).

--- Limit line, Ecodesign, 2018

### Min. and max. air flows

The flows specified refer to those that can be preset in the hand-held terminal. The practical flow limits are determined by the external pressure drop.

Size	Min. airflow (on airflow regulation)		Max. airflow	
	m <sup>3</sup> /h	m <sup>3</sup> /s	m <sup>3</sup> /h	m <sup>3</sup> /s
008	720	0,20	3600	1.00

### Correction factors, K<sub>OK</sub>, dB. Fan in lower level.

Sound path	Range in the diagram	Octave band, No. / mid-frequency, Hz							
		1	2	3	4	5	6	7	8
		63	125	250	500	1000	2000	4000	8000
To the outlet duct	1	1	-6	-5	-8	-11	-11	-18	-26
	2	0	-6	-8	-5	-8	-10	-16	-22
	3	2	-3	-5	-12	-16	-17	-26	-34
	4	0	-5	-4	-9	-14	-15	-24	-31
To the inlet duct*	1	2	-1	-10	-19	-32	-36	-43	-54
	2	-2	-6	-14	-15	-29	-35	-41	-51
	3	1	-1	-11	-22	-37	-43	-50	-57
	4	-3	-3	-9	-19	-35	-41	-47	-52
To unit's surroundings**	1	-10	-20	-28	-29	-44	-44	-52	-57
	2	-11	-20	-31	-26	-41	-43	-50	-53
	3	-9	-17	-28	-33	-49	-50	-60	-65
	4	-11	-19	-27	-30	-47	-48	-58	-62

### Correction factors, K<sub>OK</sub>, dB. Fan in upper level.

Sound path	Range in the diagram	Octave band, No. / mid-frequency, Hz							
		1	2	3	4	5	6	7	8
		63	125	250	500	1000	2000	4000	8000
To the outlet duct	1	-2	-6	-3	-13	-14	-14	-21	-27
	2	-3	-6	-7	-6	-10	-11	-17	-21
	3	-1	-3	-4	-17	-19	-19	-29	-36
	4	-2	-4	-3	-13	-16	-17	-25	-31
To the inlet duct*	1	-4	-4	-11	-26	-37	-40	-45	-58
	2	-6	-8	-15	-18	-33	-37	-42	-53
	3	-4	-5	-12	-30	-42	-46	-53	-62
	4	-6	-6	-11	-26	-39	-44	-50	-57
To unit's surroundings**	1	-13	-20	-26	-34	-47	-47	-55	-58
	2	-14	-20	-30	-27	-43	-44	-51	-52
	3	-12	-17	-27	-38	-52	-52	-63	-67
	4	-13	-18	-26	-34	-49	-50	-59	-62

\* The integral attenuation of filters and rotary heat exchanger has been taken into account.

\*\* Total sound power level emitted to the surroundings is calculated as the sum of the levels in the supply air and the extract air.

# Sizing, installation, dimensions and weights

## GOLD RX Top, rotary heat exchanger, size 008

### Delivery and transport within the site

The GOLD RX Top 008 unit is produced in one variant in which all the components are arranged at their given physical location inside the unit.

The unit can also be delivered as L-concept with top fed duct connections in combination with side fed duct connections, see the section Description Air handling unit.

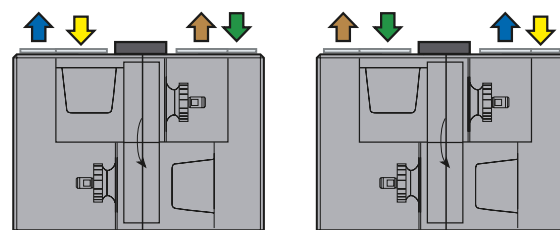
The air handling unit is supplied on a wooden pallet.

Prefitted base beams are obtainable as optional equipment.

### Installation/duct connection options

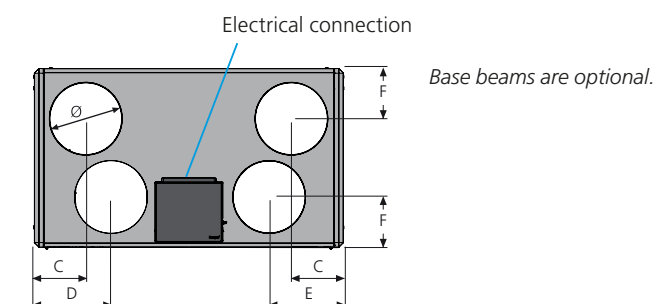
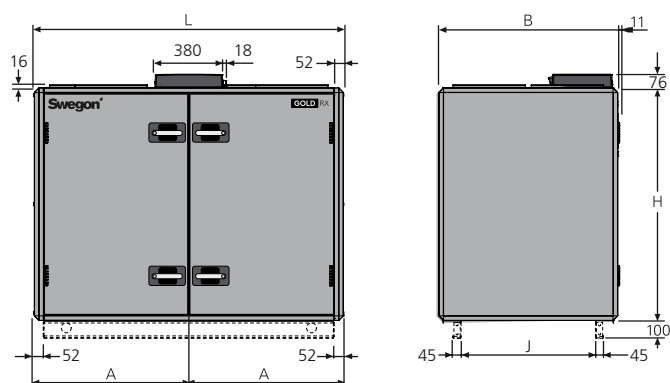
**A:** All the duct connections are arranged from the top of the air handling unit (the unit must not be installed outdoors).

**B:** Specify right-hand or left-hand version when ordering. The version can be changed at the building site using the hand-held terminal. **Note:** Supply air filters and extract air filters have different dimensions and may need to be replaced for different filter classes.



Left-hand version

Right-hand version



Size	A	B	C	D	E	F	H	J	L	Ø	Weight, kg
008	860	995	286	426	406	280	1295	749	1720	400	369-382

### Clear space for inspection

A clear space of 900 mm should be provided in front of the unit and at least 200 mm should be provided above the junction hood.

### Electrical connection

#### Capacity variant 1:

1-phase, 3-wire, 230 V -10/+15%, 50 Hz, 16 A or  
3-phase, 5-wire, 400 V -10/+15%, 50 Hz, 10 A

#### Capacity variant 2:

3-phase, 5-wire, 400 V -10/+15%, 50 Hz, 10 A

### Rated data per fan

#### Capacity variant 1:

Motor shaft power: 1.15 kW, motor control system: 1 x 230 V, 50 Hz

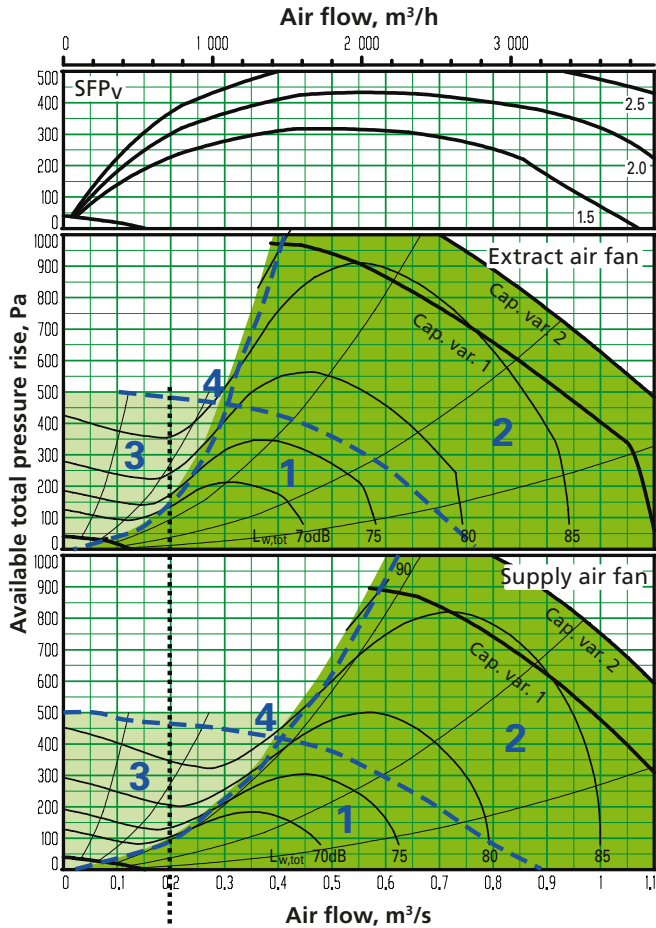
#### Capacity variant 2:

Motor shaft power: 1.6 kW, motor control system: 3 x 400 V, 50 Hz

# Sizing, installation, dimensions and weights

## GOLD RX, rotary heat exchanger, size 011

### STE



The lower limit for the air flow when the unit is operating in the air flow regulation mode.

The air handling unit complies with requirements to Ecodesign 2016/2018.

Recommended working range for sizing.

Permissible operating range when the fan is controlled to operate at a lower speed. The lower limit for the airflow when the unit is operating in the airflow regulation mode; see the black broken line in the diagram. If pressure regulation is used, the airflow can be regulated to zero, however this presupposes a certain static pressure drop in the ducting (approx. 50 Pa).

### Min. and max. airflows

The flows specified refer to those that can be preset in the hand-held micro terminal. The practical flow limits are determined by the external pressure drop.

Size	Min. airflow (for airflow regulation)		Max. airflow	
	m <sup>3</sup> /h	m <sup>3</sup> /s	m <sup>3</sup> /h	m <sup>3</sup> /s
011	720	0,20	3960	1,10

### Correction factors, K<sub>OK</sub>, dB

Sound path	Range in the diagram	Octave band, no./mid-frequency, Hz							
		1	2	3	4	5	6	7	8
		63	125	250	500	1000	2000	4000	8000
To outlet duct	1	-1	-6	-6	-8	-7	-7	-12	-15
	2	-1	-5	-8	-8	-7	-9	-13	-16
	3	-1	-2	-6	-15	-14	-16	-22	-25
	4	-2	-3	-5	-13	-13	-14	-20	-25
To inlet duct*	1	-6	-9	-12	-22	-31	-33	-38	-37
	2	-7	-10	-17	-18	-29	-31	-37	-38
	3	-6	-4	-14	-27	-35	-39	-44	-43
	4	-7	-5	-12	-22	-34	-36	-42	-43
To air handling unit surroundings**	1	-12	-20	-29	-29	-40	-40	-46	-46
	2	-12	-19	-31	-29	-40	-42	-47	-47
	3	-12	-16	-29	-36	-47	-49	-56	-56
	4	-13	-17	-28	-34	-46	-47	-54	-56

\* The integral attenuation of filters and rotary heat exchanger has been taken into account. \*\* Total sound power level emitted to the surroundings is calculated as the sum of the levels in the supply air and the extract air.

# Sizing, installation, dimensions and weights

## GOLD RX, rotary heat exchanger, size 011

### Delivery and transport within the site

The GOLD RX 011 can be supplied as one single unit, or in a number of different combinations of unit sections from the factory, see the section: Description of the Air Handling Unit/Delivery Configuration RX/PX/CX, sizes 011-080.

The unit sections are jointed together/split by means of bolts. The electrical and control cables between the unit sections have quick-fit connectors.

The air handling unit/unit sections is/are delivered on wooden beams.

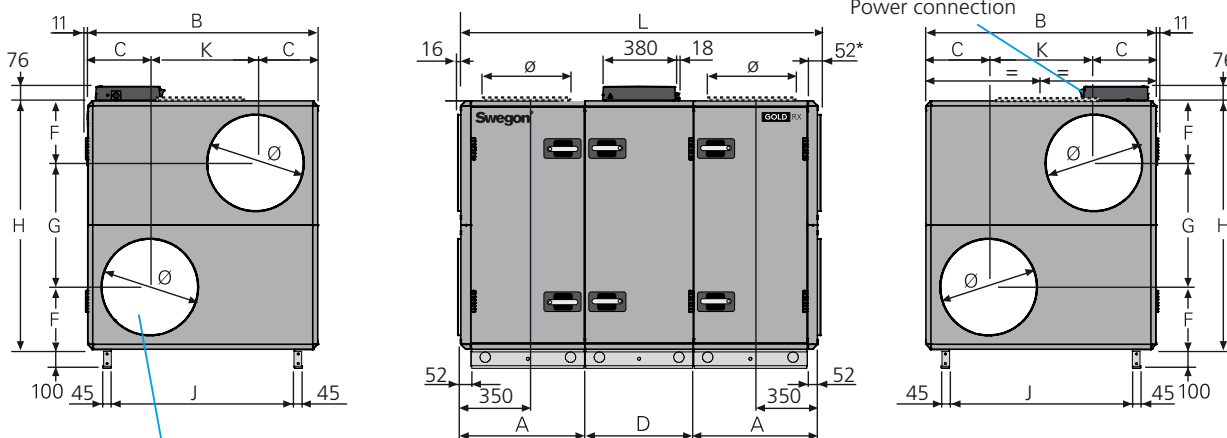
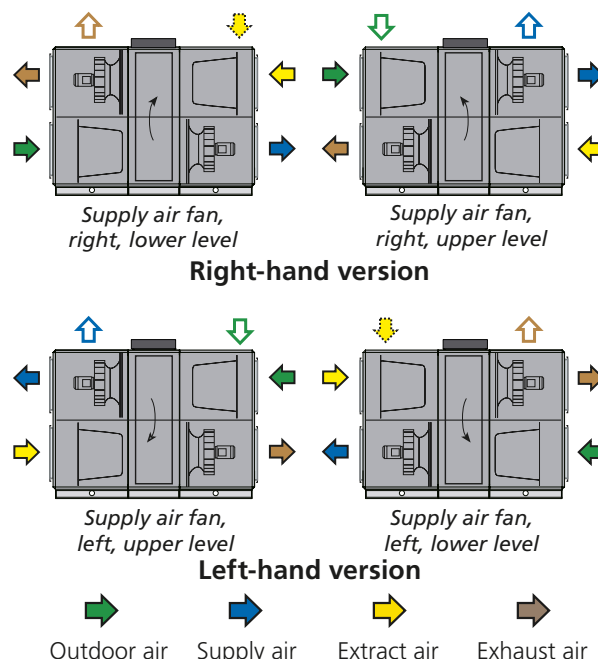
### Duct connection options

**A:** Specify right-hand or left-hand version when ordering. If the air handling unit is supplied with all the end connection panels, the version can be changed at the building site using the hand-held terminal.

**B:** The arrangement of the functional sections can be vertically reversed. To be specified when placing an order, see the illustration to the right.

**C:** Specify upper fan outlet for upward air discharge when placing orders (Does not apply to units installed outdoors).

**D:** Specify whether the unit shall have an air intake from above for outdoor air or extract air when placing orders (Does not apply to units installed outdoors).



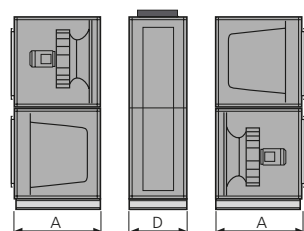
The illustration shows the connections for supply air fan, right-hand/lower level and left-hand/upper level.

For supply air fan, right-hand/upper level and left-hand/lower level, the connections are mirror-inverted.

\* The air handling unit is supplied without end connection panel if a duct accessory housed in an insulated casing will be connected. The AHU can also be supplied with full face end connection panel (accessory).

Size	A	B	C	D	F	G	H	J	K	L	Ø	Weight, kg
011	647	1199	324	565	324	647	1295	953	551	1859	500	427-527

### Division into sections for transport



The unit can be divided into three sections at the building site.

**Dimensions:** See A and D in the table above.

**Weight:** A = 135-175 kg, D = 157-177 kg.

### Power connection

#### Capacity variant 1:

1-phase, 3-wire cable, 230 V -10/+15%, 50 Hz, 16 A or 3-phase, 5-wire cable, 400 V -10/+15%, 50 Hz, 10 A

#### Capacity variant 2:

3-phase, 5-wire cable, 400 V -10/+15%, 50 Hz, 10 A

### Rated data per fan

**Capacity variant 1:** Motor shaft power: 1.15 kW, motor control system: 1 x 230 V, 50 Hz

**Capacity variant 2:** Motor shaft power: 1.6 kW, motor control system: 3 x 400 V, 50 Hz

### Clear space for inspection

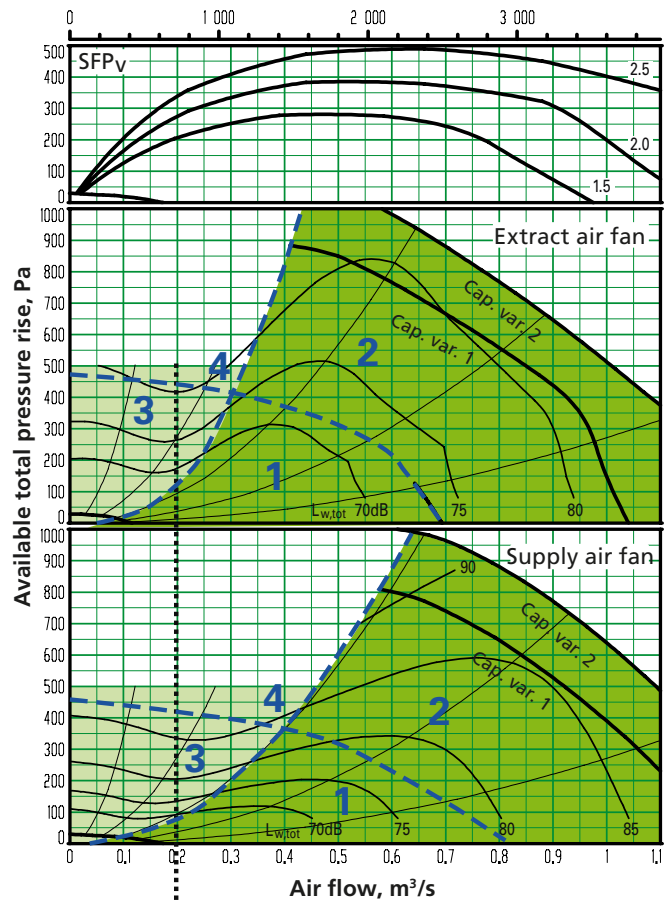
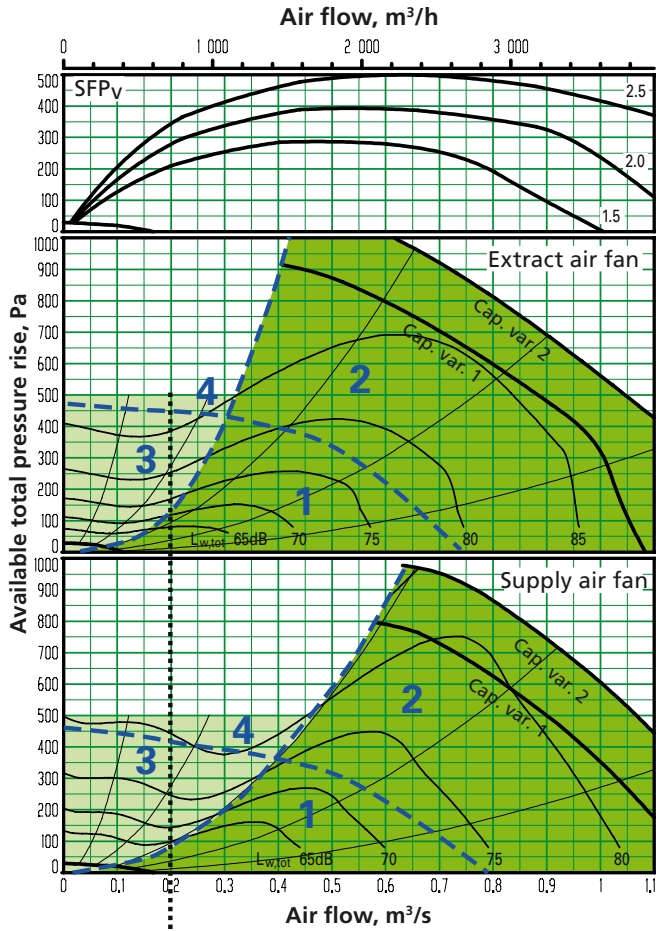
A clear space of 800 mm should be provided in front of the unit and at least 200 mm should be provided above the junction hood.

# Sizing, installation, dimensions and weights

## GOLD RX Top, rotary heat exchanger, size 011

### Left-hand version, STE

### Right-hand version, STE



The lower limit for the air flow when the unit is operating in the air flow regulation mode.  
The air handling unit complies with requirements to Ecodesign 2016/2018.

- Recommended working range for sizing.
- Permissible operating range when the fan is controlled to operate at a lower speed. The lower limit for the airflow when the unit is operating in the airflow regulation mode; see the black broken line in the diagram. If pressure regulation is used, the airflow can be regulated to zero, however this presupposes a certain static pressure drop in the ducting (approx. 50 Pa).

### Min. and max. air flows

The flows specified refer to those that can be preset in the hand-held terminal. The practical flow limits are determined by the external pressure drop.

Size	Min. airflow (for airflow regulation)		Max. airflow	
	m <sup>3</sup> /h	m <sup>3</sup> /s	m <sup>3</sup> /h	m <sup>3</sup> /s
011	720	0.20	3960	1.10

### Correction factors, K<sub>OK</sub>, dB. Fan in lower level.

Sound path	Area in diagram	Octave band, no./mid-frequency, Hz							
		1	2	3	4	5	6	7	8
		63	125	250	500	1000	2000	4000	8000
To the outlet duct	1	-6	-16	-1	-16	-17	-17	-24	-33
	2	0	-10	-11	-3	-9	-11	-15	-23
	3	6	-3	-5	-11	-14	-15	-24	-34
	4	5	-5	-4	-8	-12	-14	-22	-31
To the inlet duct*	1	-3	-6	-17	-26	-37	-39	-48	-54
	2	-4	-10	-22	-13	-30	-32	-40	-49
	3	6	2	-13	-22	-34	-37	-47	-52
	4	3	-1	-12	-19	-33	-36	-43	-48
To unit's surroundings**	1	-17	-30	-24	-37	-50	-50	-58	-64
	2	-11	-24	-34	-24	-42	-44	-49	-54
	3	-5	-17	-28	-32	-47	-48	-58	-65
	4	-6	-19	-27	-29	-45	-47	-56	-62

### Correction factors, K<sub>OK</sub>, dB. Fan in upper level.

Sound path	Area in diagram	Octave band, no./mid-frequency, Hz							
		1	2	3	4	5	6	7	8
		63	125	250	500	1000	2000	4000	8000
To the outlet duct	1	-2	-6	-3	-11	-13	-13	-18	-23
	2	-2	-7	-12	-3	-10	-11	-15	-19
	3	1	-1	-7	-15	-18	-19	-27	-32
	4	3	-3	-5	-11	-15	-16	-23	-28
To the inlet duct*	1	-5	-8	-17	-27	-37	-36	-44	-54
	2	-10	-16	-26	-19	-35	-35	-42	-54
	3	-6	-7	-20	-33	-43	-44	-53	-61
	4	-7	-9	-18	-28	-40	-41	-48	-55
To unit's surroundings**	1	-13	-20	-26	-32	-46	-46	-52	-54
	2	-13	-21	-35	-24	-43	-44	-49	-50
	3	-10	-15	-30	-36	-51	-52	-61	-63
	4	-8	-17	-28	-32	-48	-49	-57	-59

\* The integral attenuation of filters and rotary heat exchanger has been taken into account. \*\* Total sound power level emitted to the surroundings is calculated as the sum of the levels in the supply air and the extract air.



# Sizing, installation, dimensions and weights

## GOLD RX Top, rotary heat exchanger, size 011

### Delivery and transport within the site

The GOLD RX Top 011 can be supplied as one single unit, or in a number of different combinations of unit sections from the factory, see the section: Description of the Air Handling Unit. Filter/fan sections for RX and RX Top can be combined, see the section: Description of the Air Handling Unit.

The unit sections are jointed together/split by means of bolts. The electrical and control cables between the unit sections have quick-fit connectors.

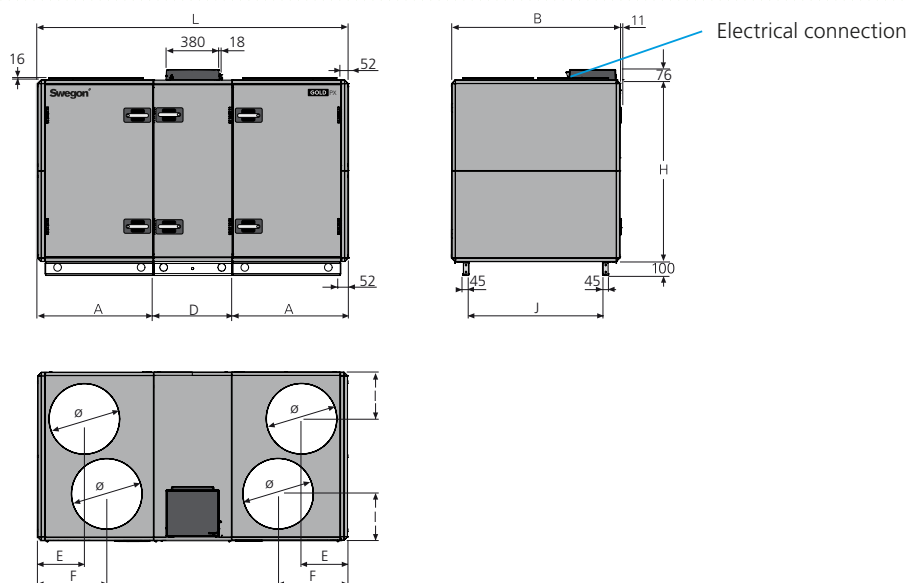
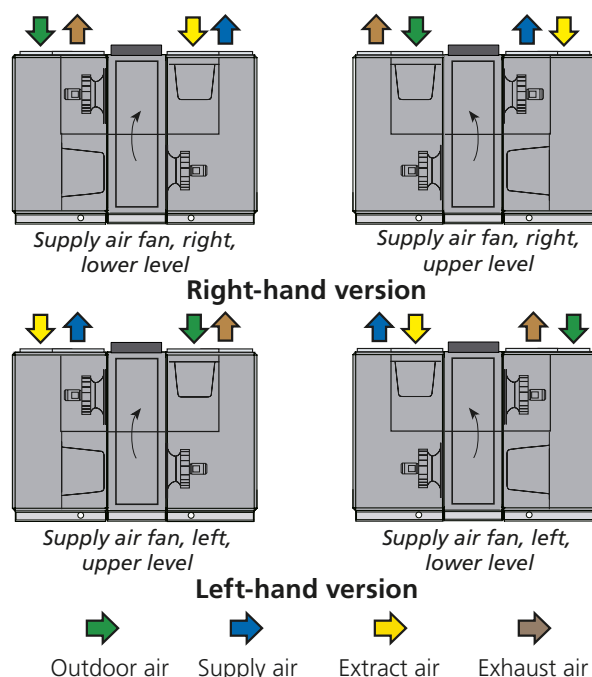
The air handling unit/unit sections is/are delivered on wooden beams.

### Duct connection options

**A:** All the duct connections are arranged from the top of the air handling unit (the unit must not be installed outdoors).

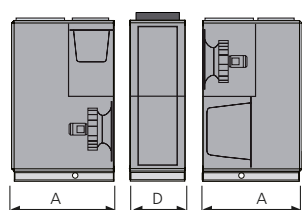
**B:** Specify right-hand or left-hand version when ordering. The version can be changed at the building site using the hand-held terminal. **Note:** Supply air filters and extract air filters have different dimensions and may need to be replaced for different filter classes.

**C:** The arrangement of the functional sections can be vertically reversed. To be specified when placing an order, see the illustration to the right.



Size	A	B	D	E	F	H	I	J	L	Ø	Weight, kg
011	827	1199	565	332	500	1295	332	953	2219	500	527-549

### Division into sections for transport to the site



The unit can be divided into three sections at the building site.

**Dimensions:** See A and D in the table above.

**Weight:** A = 185-186 kg, D = 157-177 kg.

### Clear space for inspection

A clear space of 800 mm should be provided in front of the unit and at least 200 mm should be provided above the junction hood.

### Electrical connection

**Capacity variant 1:**

1-phase, 3-wire, 230 V -10/+15%, 50 Hz, 16 A or

3-phase, 5-wire, 400 V -10/+15%, 50 Hz, 10 A

**Capacity variant 2:**

3-phase, 5-wire, 400 V -10/+15%, 50 Hz, 10 A

### Rated data per fan

**Capacity variant 1:**

Motor shaft power: 1.15 kW, motor control system: 1 x 230 V,

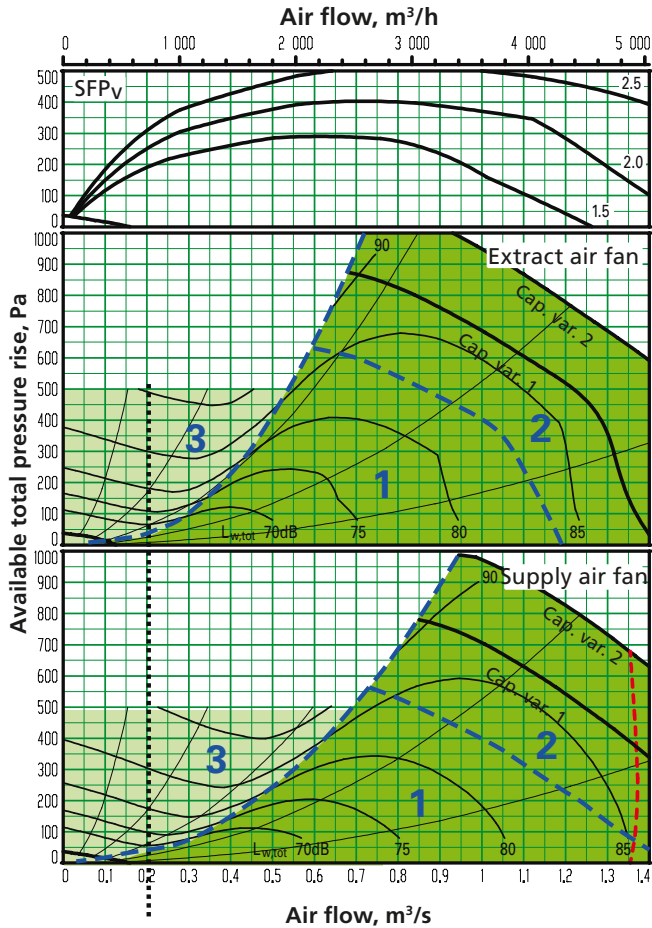
50 Hz **Capacity variant 2:**

Motor shaft power: 1.6 kW, motor control system: 3 x 400 V, 50 Hz

# Sizing, Installation, Dimensions and Weights

## GOLD RX, rotary heat exchanger, size 012

### STE



The lower limit for the air flow when the unit is operating in the air flow regulation mode.

The limit line for Ecodesign 2018 is calculated with capacity variant 2. The mean value for supply air and extract air must be within the limit line. The air handling unit complies with requirements to Ecodesign 2016.

- Recommended working range for sizing.
- Permissible operating range when the fan is controlled to operate at a lower speed. The lower limit for the airflow when the unit is operating in the airflow regulation mode; see the black broken line in the diagram. If pressure regulation is used, the airflow can be regulated to zero, however this presupposes a certain static pressure drop in the ducting (approx. 50 Pa).
- Limit line, Ecodesign, 2018

### Min. and Max. Airflows

The flows specified refer to those that can be preset in the hand-held micro terminal. The practical flow limits are determined by the external pressure drop.

Size	Min. airflow (on airflow regulation)		Max. airflow	
	m <sup>3</sup> /h	m <sup>3</sup> /s	m <sup>3</sup> /h	m <sup>3</sup> /s
012	720	0.20	5040	1.40

### Correction factors K<sub>OK</sub>, dB

Sound path	Range in the diagram	Octave band, No. / mid-frequency, Hz							
		1	2	3	4	5	6	7	8
To outlet duct	1	-1	-6	-6	-8	-7	-7	-12	-15
	2	-1	-5	-8	-8	-7	-9	-13	-16
	3	-1	-2	-6	-15	-14	-16	-22	-25
To inlet duct*	1	-6	-9	-12	-22	-31	-33	-38	-37
	2	-7	-10	-17	-18	-29	-31	-37	-38
	3	-6	-4	-14	-27	-35	-39	-44	-43
To air handling unit surroundings**	1	-12	-20	-29	-29	-40	-40	-46	-46
	2	-12	-19	-31	-29	-40	-42	-47	-47
	3	-12	-16	-29	-36	-47	-49	-56	-56

\* The integral attenuation of filters and rotary heat exchanger has been taken into account. \*\* Total sound power level emitted to the surroundings is calculated as the sum of the levels in the supply air and the extract air.



# Sizing, Installation, Dimensions and Weights

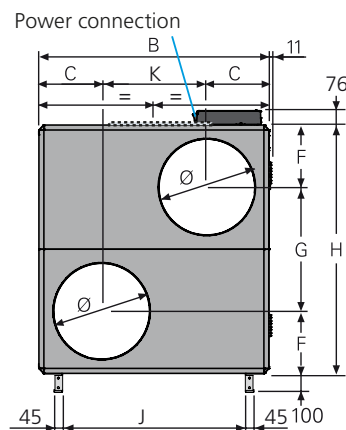
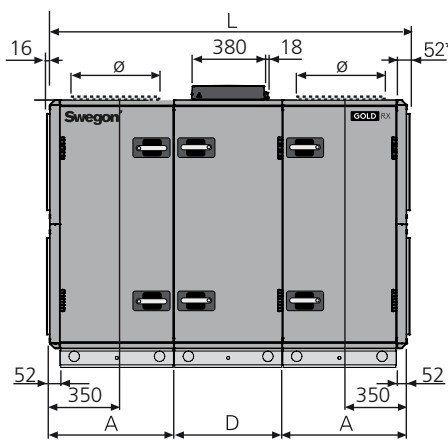
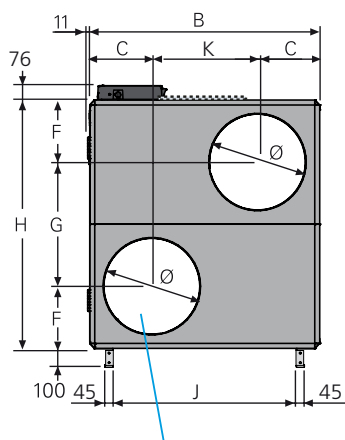
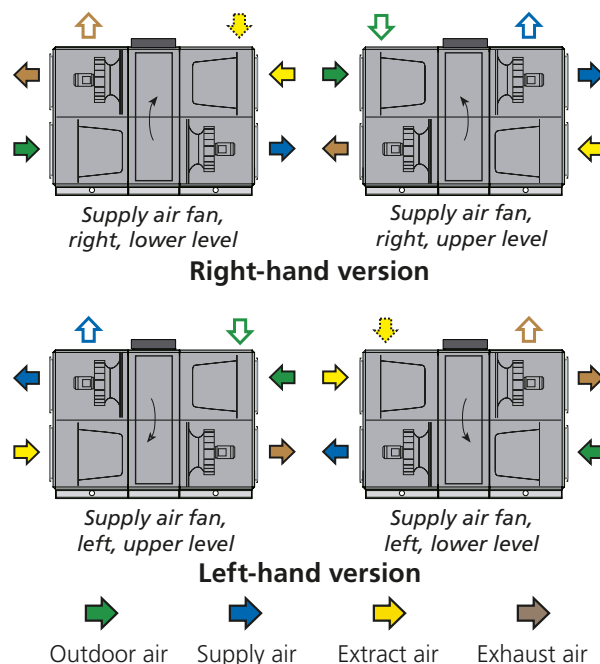
## GOLD RX, rotary heat exchanger, size 012

### Delivery and transport within the site

The GOLD RX 012 can be supplied as one single unit, or in a number of different combinations of unit sections from the factory, see the section: Description of the Air Handling Unit/Delivery Configuration RX/PX/CX, sizes 011-080. The unit sections are jointed together/split by means of bolts. The electrical and control cables between the unit sections have quick-fit connectors. The air handling unit/unit sections is/are delivered on wooden beams.

### Duct connection options

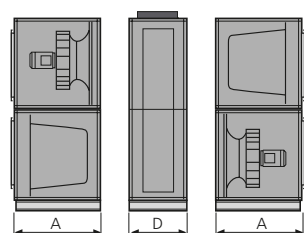
- A:** Specify right-hand or left-hand version when ordering. If the air handling unit is supplied with all the end connection panels, the version can be changed at the building site using the hand-held terminal.
- B:** The arrangement of the functional sections can be vertically reversed. To be specified when placing an order, see the illustration to the right.
- C:** Specify upper fan outlet for upward air discharge when placing orders (Does not apply to units installed outdoors).
- D:** Specify whether the unit shall have an air intake from above for outdoor air or extract air when placing orders (Does not apply to units installed outdoors).



The illustration shows the connections for supply air fan, right-hand/lower level and left-hand/upper level. For supply air fan, right-hand/upper level and left-hand/lower level, the connections are mirror-inverted.  
 \* The air handling unit is supplied without end connection panel if a duct accessory housed in an insulated casing will be connected. The AHU can also be supplied with full face end connection panel (accessory).

Size	A	B	C	D	F	G	H	J	K	L	Ø	Weight, kg
012	647	1199	324	565	324	647	1295	953	551	1859	500	450-554

### Division into sections for transport



The unit can be divided into three sections at the building site.  
**Dimensions:** See A and D in the table above.  
**Weight:** A = 146-189 kg, D = 158-176 kg.

### Clear space for inspection

A clear space of 800 mm should be provided in front of the unit and at least 200 mm should be provided above the junction hood.

### Power connection

3-phase, 5-wire, 400 V -10/+15%, 50 Hz, 10 A

### Rated data per fan

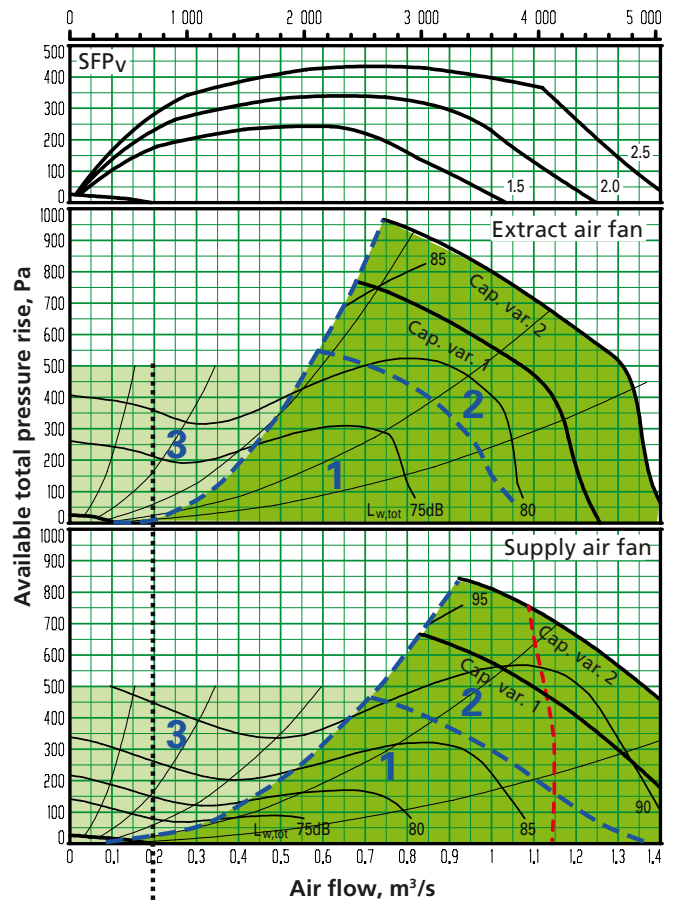
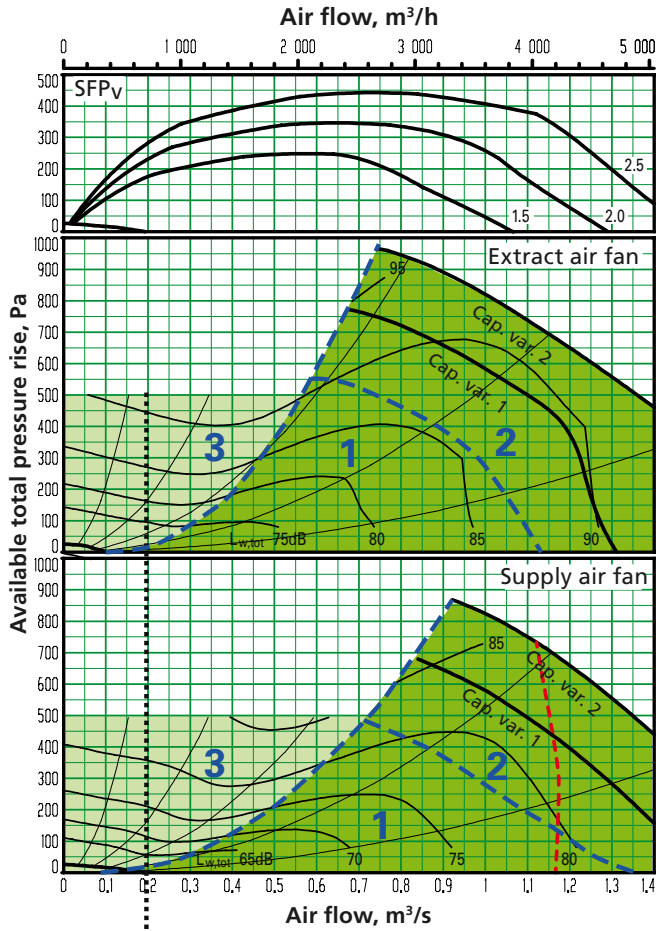
Motor shaft power: 1.6 kW alt. 2.4 kW, motor control system: 3 x 400 V, 50 Hz

# Sizing, installation, dimensions and weights

## GOLD RX Top, rotary heat exchanger, size 012

### Left-hand version, STE

### Right-hand version, STE



The lower limit for the air flow when the unit is operating in the air flow regulation mode.

For Ecodesign 2018, the mean value for supply air and extract air must be within the limit line.

- Recommended working range for sizing.
- Permissible operating range when the fan is controlled to operate at a lower speed. The lower limit for the airflow when the unit is operating in the airflow regulation mode; see the black broken line in the diagram. If pressure regulation is used, the airflow can be regulated to zero, however this presupposes a certain static pressure drop in the ducting (approx. 50 Pa).

--- Limit line, Ecodesign, 2018

### Min. and max. air flows

The flows specified refer to those that can be preset in the hand-held terminal. The practical flow limits are determined by the external pressure drop.

Size	Min. airflow (on airflow regulation)		Max. airflow	
	m <sup>3</sup> /h	m <sup>3</sup> /s	m <sup>3</sup> /h	m <sup>3</sup> /s
012	720	0.20	5040	1.40

### Correction factors, K<sub>OK</sub>, dB. Fan in lower level.

Sound path	Area in diagram	Octave band, no./mid-frequency, Hz							
		1	2	3	4	5	6	7	8
		63	125	250	500	1000	2000	4000	8000
To the outlet duct	1	1	-9	-2	-11	-13	-15	-22	-29
	2	3	-7	-7	-5	-9	-12	-17	-25
	3	6	-3	-6	-10	-13	-16	-26	-34
To the inlet duct*	1	4	-1	-14	-22	-32	-35	-42	-51
	2	-3	-8	-19	-17	-30	-33	-40	-47
	3	6	2	-14	-23	-34	-37	-43	-48
To unit's surroundings**	1	-10	-23	-25	-32	-46	-48	-56	-60
	2	-8	-21	-30	-26	-42	-45	-51	-56
	3	-5	-17	-29	-31	-46	-49	-60	-65

### Correction factors, K<sub>OK</sub>, dB. Fan in upper level.

Sound path	Area in diagram	Octave band, no./mid-frequency, Hz							
		1	2	3	4	5	6	7	8
		63	125	250	500	1000	2000	4000	8000
To the outlet duct	1	-2	-6	-3	-11	-12	-16	-22	-26
	2	-3	-6	-9	-5	-9	-13	-18	-23
	3	0	-1	-7	-16	-17	-20	-29	-33
To the inlet duct*	1	-6	-10	-17	-31	-37	-39	-47	-57
	2	-11	-15	-21	-24	-35	-37	-45	-54
	3	-6	-8	-18	-35	-43	-44	-51	-58
To unit's surroundings**	1	-13	-20	-26	-32	-45	-49	-56	-57
	2	-14	-20	-32	-26	-42	-46	-52	-54
	3	-11	-15	-30	-37	-50	-53	-63	-64

\* The integral attenuation of filters and rotary heat exchanger has been taken into account. \*\* Total sound power level emitted to the surroundings is calculated as the sum of the levels in the supply air and the extract air.

# Sizing, installation, dimensions and weights

## GOLD RX Top, rotary heat exchanger, size 012

### Delivery and transport within the site

The GOLD RX Top 012 can be supplied as one single unit, or in a number of different combinations of unit sections from the factory, see the section: Description of the Air Handling Unit. Filter/fan sections for RX and RX Top can be combined, see the section: Description of the Air Handling Unit.

The unit sections are jointed together/split by means of bolts. The electrical and control cables between the unit sections have quick-fit connectors.

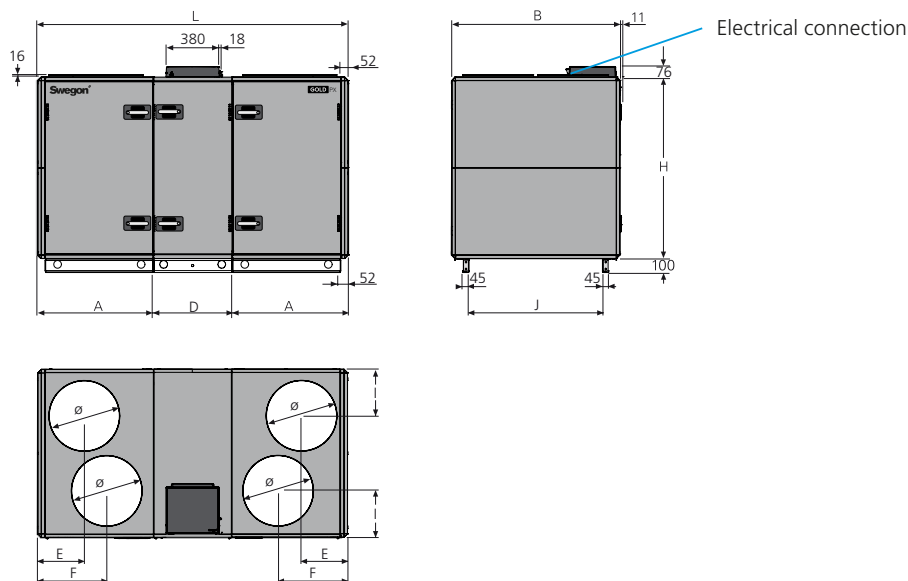
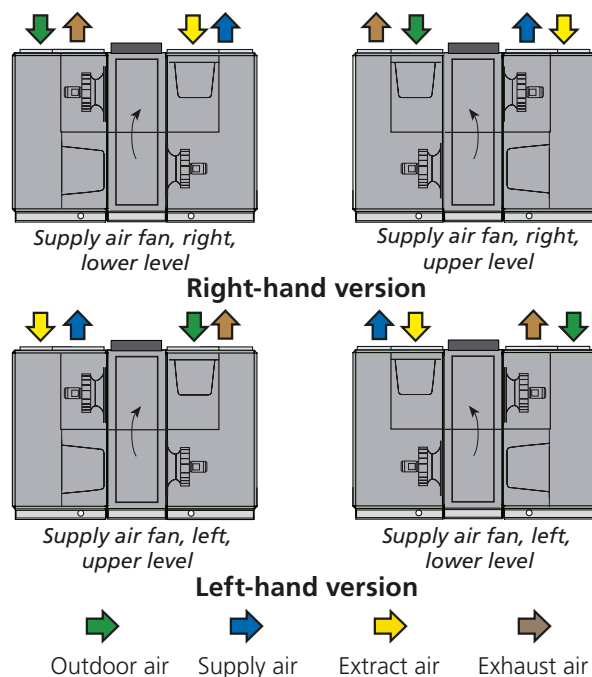
The air handling unit/unit sections is/are delivered on wooden beams.

### Duct connection options

**A:** All the duct connections are arranged from the top of the air handling unit (the unit must not be installed outdoors).

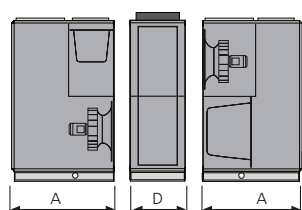
**B:** Specify right-hand or left-hand version when ordering. The version can be changed at the building site using the hand-held terminal. **Note:** Supply air filters and extract air filters have different dimensions and may need to be replaced for different filter classes.

**C:** The arrangement of the functional sections can be vertically reversed. To be specified when placing an order, see the illustration to the right.



Size	A	B	D	E	F	H	I	J	L	Ø	Weight, kg
012	827	1199	565	332	500	1295	332	953	2219	500	550-576

### Division into sections for transport



The unit can be divided into three sections at the building site.

**Dimensions:** See A and D in the table above.

**Weight:** A = 196-200 kg, D = 158-176 kg.

### Clear space for inspection

A clear space of 800 mm should be provided in front of the unit and at least 200 mm should be provided above the junction hood.

### Electrical connection

3-phase, 5-wire, 400 V -10/+15%, 50 Hz, 10 A

### Rated data per fan

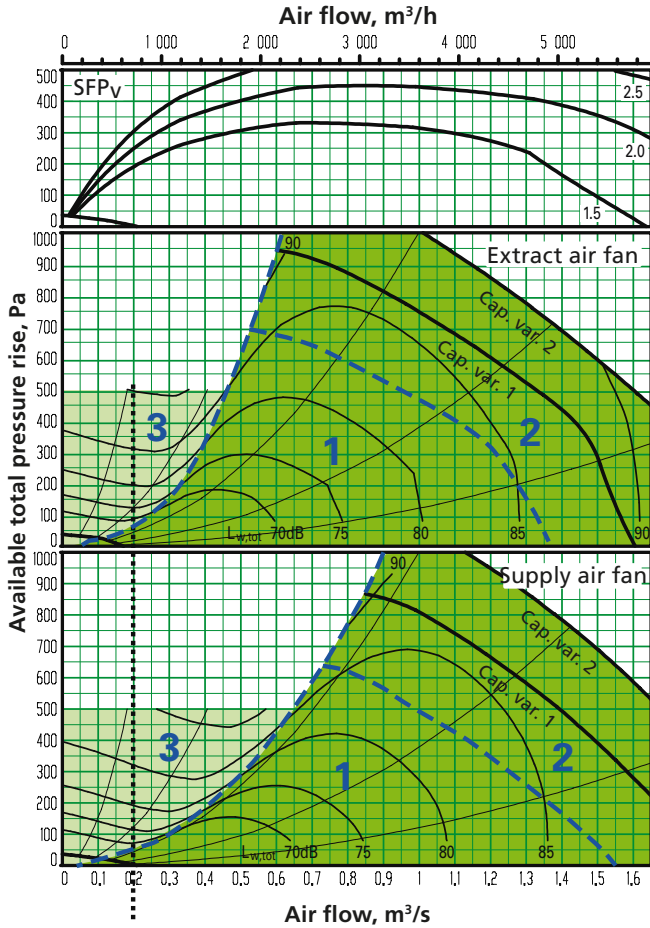
Motor shaft power: 1.6 kW alt. 2.4 kW, motor control system: 3 x 400 V, 50 Hz

# Sizing, installation, dimensions and weights

## GOLD RX, rotary heat exchanger, size 014/020

Size 014 (Extract air fan size 020 can be selected, see the next page)

### STE



The lower limit for the air flow with air flow regulation.

The air handling unit complies with requirements to Ecodesign 2016/2018.



Recommended working range for sizing.



Permissible operating range when the fan is controlled to operate at a lower speed. The lower limit for the air flow when the unit is operating in the air flow regulation mode; see the black broken line in the diagram. If pressure regulation is used, the air flow can be regulated to zero. However this presupposes a certain static pressure drop in the ducting (approx. 50 Pa).

### Min. and max. airflows

The flows specified refer to those that can be preset in the hand-held terminal. The practical flow limits are determined by the external pressure drop.

Size	Min. air flow (on airflow regulation)		Max. air flow	
	m³/h	m³/s	m³/h	m³/s
014	720	0,20	5940	1.65

### Correction factors, K<sub>OK</sub>, dB

Sound path	Range in the diagram	Octave band, no./mid-frequency, Hz							
		1 63	2 125	3 250	4 500	5 1000	6 2000	7 4000	8 8000
To the outlet duct	1	-1	-6	-6	-8	-7	-7	-12	-15
	2	-1	-5	-8	-8	-7	-9	-13	-16
	3	-1	-2	-6	-15	-14	-16	-22	-25
To the inlet duct*	1	-6	-9	-12	-22	-31	-33	-38	-37
	2	-7	-10	-17	-18	-29	-31	-37	-38
	3	-6	-4	-14	-27	-35	-39	-44	-43
To unit's surroundings**	1	-12	-20	-29	-29	-40	-40	-46	-46
	2	-12	-19	-31	-29	-40	-42	-47	-47
	3	-12	-16	-29	-36	-47	-49	-56	-56

\* The integral attenuation of filters and rotary heat exchanger has been taken into account.

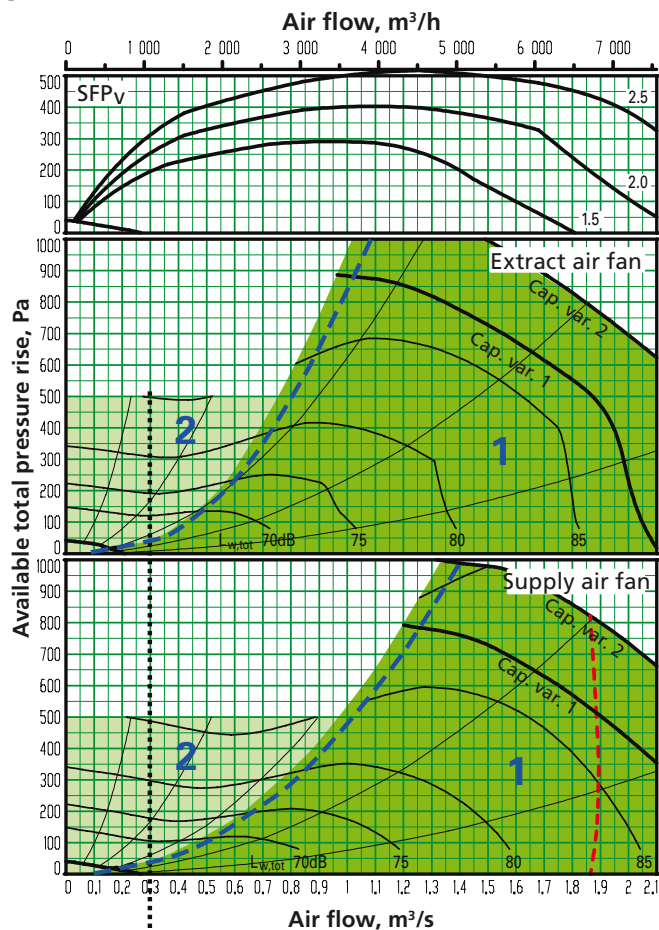
\*\* Total sound power level emitted to the surroundings is calculated as the sum of the levels in the supply air and the extract air.

# Sizing, installation, dimensions and weights

## GOLD RX, rotary heat exchanger, size 014/020

Size 020 (Extract air fan size 014 can be selected, see the previous page)

### STE



The lower limit for the air flow with air flow regulation.

The limit line for Ecodesign 2018 is calculated with capacity variant 2. The mean value for supply air and extract air must be within the limit line. The air handling unit complies with requirements to Ecodesign 2016.

- Recommended working range for sizing.
- Permissible operating range when the fan is controlled to operate at a lower speed. The lower limit for the airflow when the unit is operating in the airflow regulation mode; see the black broken line in the diagram. If pressure regulation is used, the airflow can be regulated to zero, however this presupposes a certain static pressure drop in the ducting (approx. 50 Pa).
- Limit line, Ecodesign, 2018

### Min. and max. airflows

The flows specified refer to those that can be preset in the hand-held terminal. The practical flow limits are determined by the external pressure drop.

Size	Min. air flow (on airflow regulation)		Max. air flow	
	m <sup>3</sup> /h	m <sup>3</sup> /s	m <sup>3</sup> /h	m <sup>3</sup> /s
020	1080	0.30	7560	2.1

### Correction factors, K<sub>OK</sub>, dB

Sound path	Range in the diagram	Octave band, no./mid-frequency, Hz							
		1 63	2 125	3 250	4 500	5 1000	6 2000	7 4000	8 8000
To the outlet duct	1	-4	-9	-7	-5	-8	-9	-11	-11
	2	2	-4	-7	-7	-10	-12	-16	-17
To the inlet duct*	1	-9	-10	-10	-21	-29	-32	-36	-33
	2	-4	-3	-10	-22	-31	-34	-41	-38
To unit's surroundings**	1	-15	-23	-30	-26	-41	-42	-45	-42
	2	-9	-18	-30	-28	-43	-45	-50	-48

\* The integral attenuation of filters and rotary heat exchanger has been taken into account.

\*\* Total sound power level emitted to the surroundings is calculated as the sum of the levels in the supply air and the extract air.

# Sizing, installation, dimensions and weights

## GOLD RX, rotary heat exchanger, size 014/020

### Delivery and transport within the site

The GOLD RX 014/020 can be supplied as one single unit, or in a number of different combinations of unit sections from the factory, see the section: Description of the Air Handling Unit. Filter/fan sections for RX and RX Top can be combined, see the section: Description of the Air Handling Unit.

The unit sections are jointed together/split by means of bolts. The electrical and control cables between the unit sections have quick-fit connectors.

The air handling unit/unit sections is/are delivered on wooden beams.

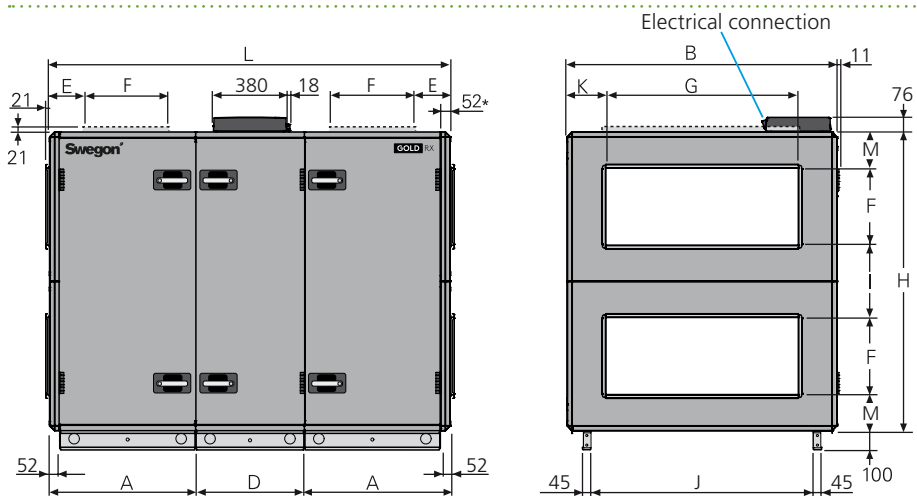
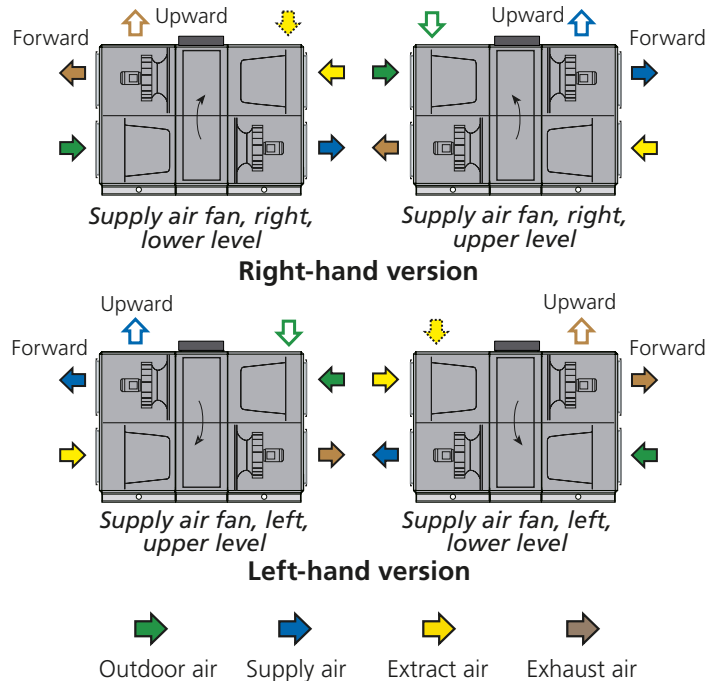
### Duct connection options

**A:** Specify right-hand or left-hand version when ordering. If the air handling unit is supplied with all the end connection panels, the version can be changed at the building site using the hand-held terminal. **NOTE!** Supply and extract air fans can be selected in different sizes/capacity variants, which must be taken into account.

**B:** The arrangement of the functional sections can be vertically reversed. To be specified when placing an order, see the illustration to the right.

**C:** Specify upper fan outlet for upward air discharge when placing orders (not for outdoor units).

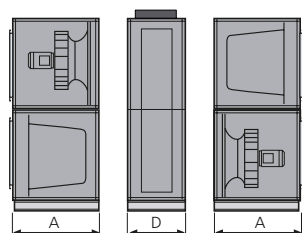
**D:** Specify whether the unit shall have an air intake from above for outdoor air or extract air when placing orders (does not apply to units installed outdoors).



\* The air handling unit is supplied without end connection panel if a duct accessory housed in an insulated casing will be connected. The AHU can also be supplied with full face end connection panel (accessory).

Size	A	B	D	E	F	G	H	I	J	K	L	M	Weight, kg
014/020	757,5	1400	565	205	400	1000	1551	375	1154	200	2080	188	572-746

### Division into sections for transport



The unit can be divided into three sections at the building site.

**Dimensions:** See A and D in the table above.

**Weight:** A = 190-264 kg, D = 192-218 kg.

### Clear space for inspection

A clear space of 900 mm should be provided in front of the unit and at least 200 mm should be provided above the junction hood.

### Rated data per fan

Size 014: Motor shaft power: 1.6 alt. 2.4 kW, motor control system: 3 x 400 V, 50 Hz

Size 020: Motor shaft power 2.4 kW alt. 3.4 kW, motor control system: 3 x 400 V, 50 Hz

### Electrical connection

See table Electrical data at the end of this section.



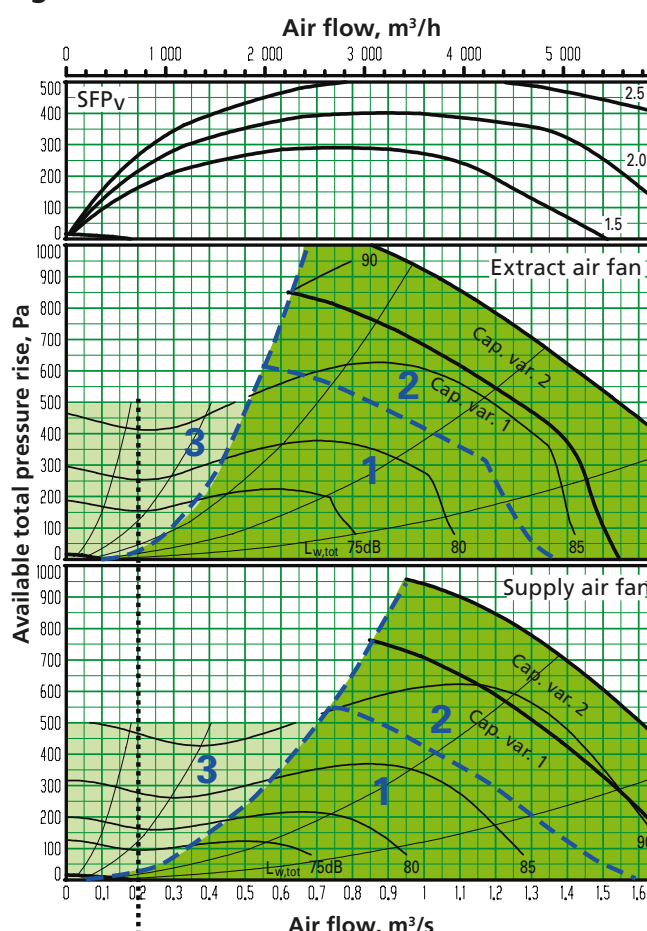
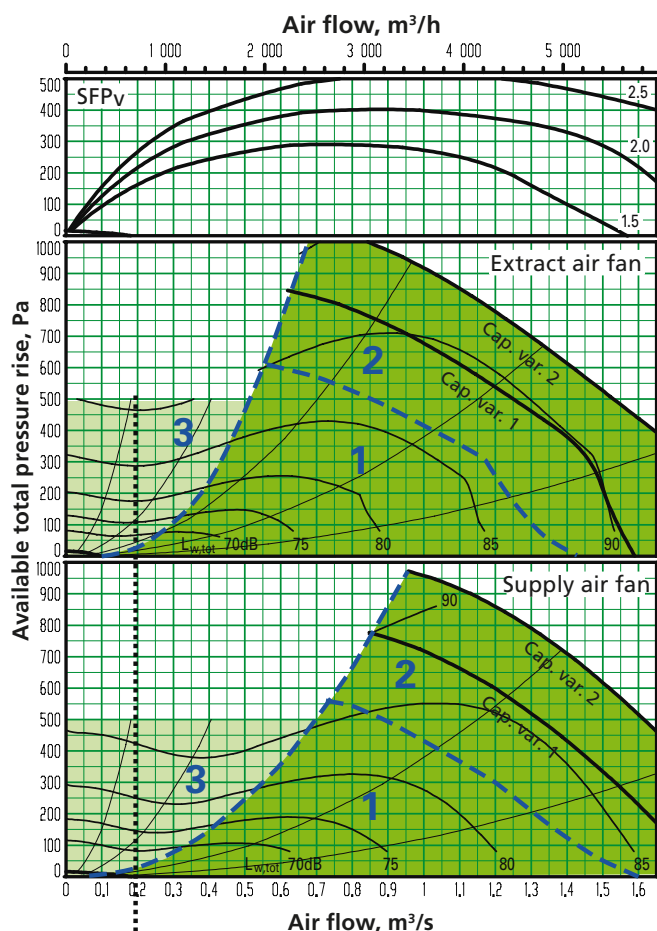
# Sizing, installation, dimensions and weights

## GOLD RX Top, rotary heat exchanger, size 014/020

Size 014 (Extract air fan size 020 can be selected, see the next page)

Left-hand version, STE

Right-hand version, STE



The lower limit for the air flow with air flow regulation.

The lower limit for the air flow with air flow regulation.

The air handling unit complies with requirements to Ecodesign 2018.

- Recommended working range for sizing.
- Permissible operating range when the fan is controlled to operate at a lower speed. The lower limit for the air flow when the unit is operating in the air flow regulation mode; see the black broken line in the diagram. If pressure regulation is used, the air flow can be regulated to zero. However this presupposes a certain static pressure drop in the ducting (approx. 50 Pa).

### Min. and max. airflows

The flows specified refer to those that can be preset in the hand-held terminal. The practical flow limits are determined by the external pressure drop.

Size	Min. air flow (on airflow regulation)		Max. air flow	
	m <sup>3</sup> /h	m <sup>3</sup> /s	m <sup>3</sup> /h	m <sup>3</sup> /s
014	720	0,20	5940	1.65

### Correction factors, K<sub>OK</sub>, dB. Fan in lower level.

Sound path	Range in the diagram	Octave band, no./mid-frequency, Hz							
		1	2	3	4	5	6	7	8
		63	125	250	500	1000	2000	4000	8000
To the outlet duct	1	-10	-16	-3	-8	-9	-12	-14	-16
	2	-8	-14	-9	-5	-5	-11	-13	-17
	3	-1	-6	-4	-9	-10	-15	-21	-25
To the inlet duct*	1	-11	-14	-19	-23	-25	-25	-20	-23
	2	-12	-14	-19	-21	-25	-23	-19	-22
	3	-7	-7	-18	-27	-31	-30	-29	-32
To unit's surroundings**	1	-21	-30	-26	-29	-42	-45	-48	-47
	2	-19	-28	-32	-26	-38	-44	-47	-48
	3	-12	-20	-27	-30	-43	-48	-55	-56

### Correction factors, K<sub>OK</sub>, dB. Fan in upper level.

Sound path	Range in the diagram	Octave band, no./mid-frequency, Hz							
		1	2	3	4	5	6	7	8
		63	125	250	500	1000	2000	4000	8000
To the outlet duct	1	-9	-12	-4	-8	-8	-11	-15	-19
	2	-10	-13	-13	-2	-8	-13	-17	-19
	3	-2	-4	-6	-10	-10	-15	-22	-28
To the inlet duct*	1	-12	-15	-18	-27	-26	-27	-22	-24
	2	-18	-19	-21	-30	-30	-30	-25	-27
	3	-8	-9	-23	-32	-33	-35	-32	-34
To unit's surroundings**	1	-20	-26	-27	-29	-41	-44	-49	-50
	2	-21	-27	-36	-23	-41	-46	-51	-50
	3	-13	-18	-29	-31	-43	-48	-56	-59

\* The integral attenuation of filters and rotary heat exchanger has been taken into account.

\*\* Total sound power level emitted to the surroundings is calculated as the sum of the levels in the supply air and the extract air.

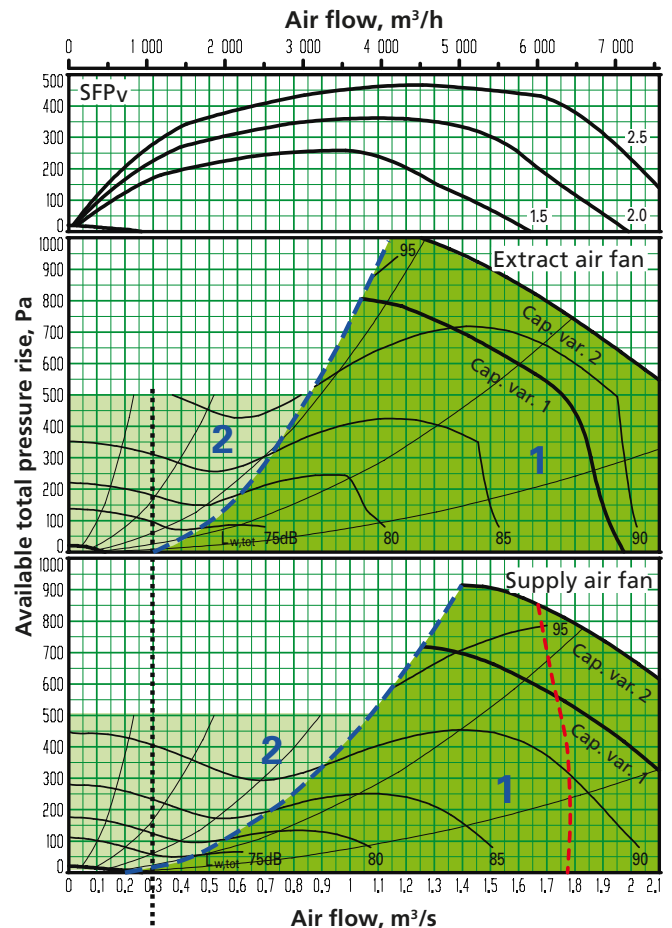
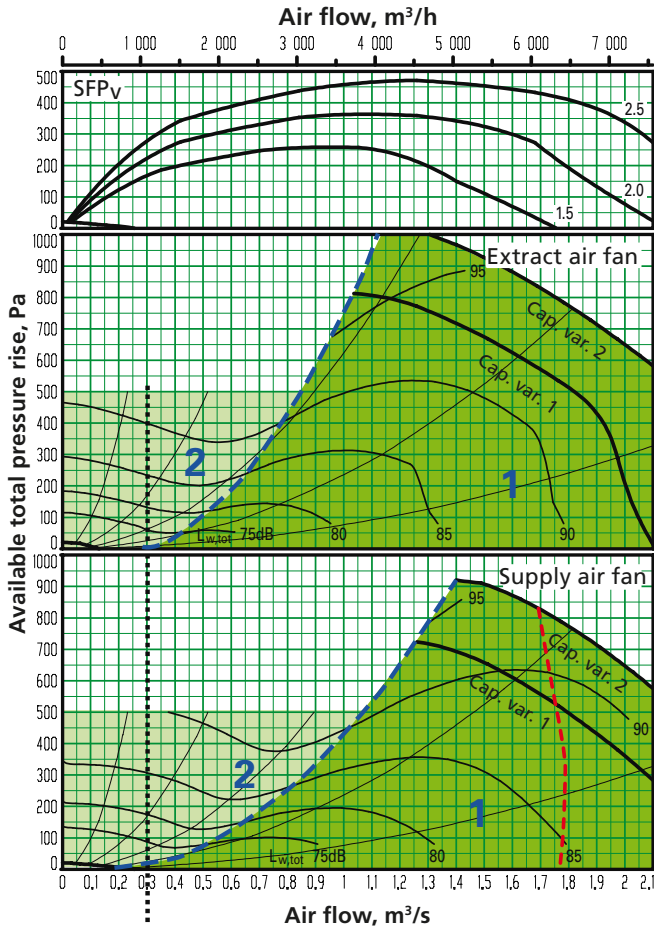
# Sizing, installation, dimensions and weights

## GOLD RX Top, rotary heat exchanger, size 014/020

Size 020 (Extract air fan size 014 can be selected, see the previous page)

### Left-hand version, STE

### Right-hand version, STE



The lower limit for the air flow with air flow regulation.

The lower limit for the air flow with air flow regulation.

For Ecodesign, the mean value for supply air and extract air must be within the limit line.

- Recommended working range for sizing.
- Permissible operating range when the fan is controlled to operate at a lower speed. The lower limit for the air flow when the unit is operating in the air flow regulation mode; see the black broken line in the diagram. If pressure regulation is used, the air flow can be regulated to zero. However this presupposes a certain static pressure drop in the ducting (approx. 50 Pa).
- Limit line, Ecodesign, 2018

### Min. and max. airflows

The flows specified refer to those that can be preset in the hand-held terminal. The practical flow limits are determined by the external pressure drop.

Size	Min. air flow (on airflow regulation)		Max. air flow	
	m <sup>3</sup> /h	m <sup>3</sup> /s	m <sup>3</sup> /h	m <sup>3</sup> /s
020	1080	0.30	7560	2.1

### Correction factors, K<sub>OK</sub>, dB. Fan in lower level.

Sound path	Range in the diagram	Octave band, no./mid-frequency, Hz							
		1	2	3	4	5	6	7	8
To the outlet duct	1	-8	-12	-4	-7	-8	-14	-17	-22
	2	-3	-6	-3	-8	-10	-18	-25	-30
To the inlet duct*	1	-14	-16	-21	-24	-27	-26	-22	-24
	2	-10	-9	-20	-29	-33	-33	-31	-34
To unit's surroundings**	1	-19	-26	-27	-28	-41	-47	-51	-53
	2	-14	-20	-26	-29	-43	-51	-59	-61

### Correction factors, K<sub>OK</sub>, dB. Fan in upper level.

Sound path	Range in the diagram	Octave band, no./mid-frequency, Hz							
		1	2	3	4	5	6	7	8
To the outlet duct	1	-9	-12	-3	-8	-8	-14	-18	-23
	2	-2	-4	-5	-10	-10	-18	-25	-29
To the inlet duct*	1	-15	-18	-20	-29	-28	-29	-24	-26
	2	-10	-10	-23	-33	-34	-35	-33	-35
To unit's surroundings**	1	-20	-26	-26	-29	-41	-47	-52	-54
	2	-13	-18	-28	-31	-43	-51	-59	-60

\* The integral attenuation of filters and rotary heat exchanger has been taken into account.  
 \*\* Total sound power level emitted to the surroundings is calculated as the sum of the levels in the supply air and the extract air.



# Sizing, installation, dimensions and weights

## GOLD RX Top, rotary heat exchanger, size 014/020

### Delivery and transport within the site

The GOLD RX Top 014/020 can be supplied as one single unit, or in a number of different combinations of unit sections from the factory, see the section: Description of the Air Handling Unit. Filter/fan sections for RX and RX Top can be combined, see the section: Description of the Air Handling Unit.

The unit sections are jointed together/split by means of bolts. The electrical and control cables between the unit sections have quick-fit connectors.

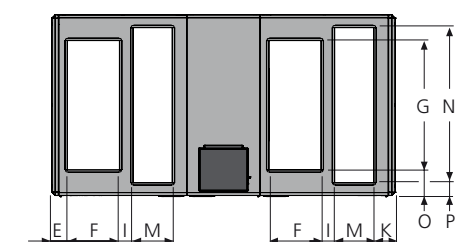
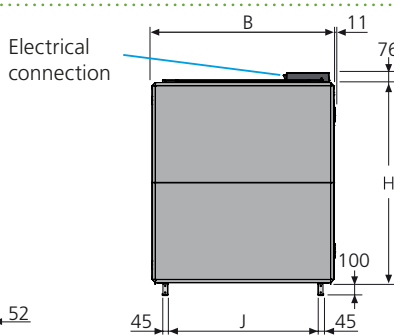
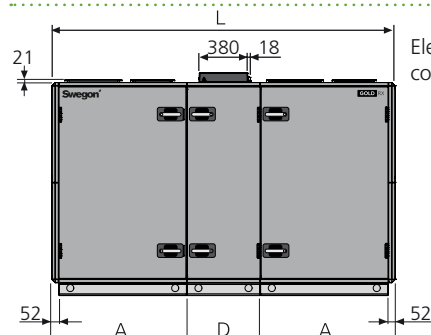
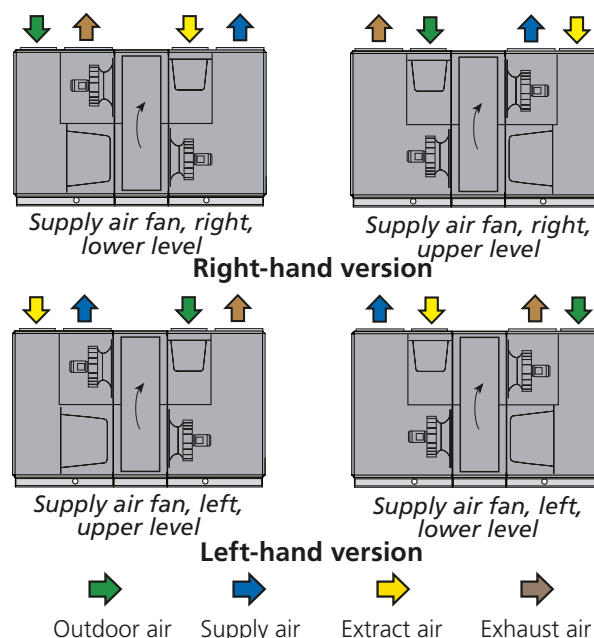
The air handling unit/unit sections is/are delivered on wooden beams.

### Duct connection options

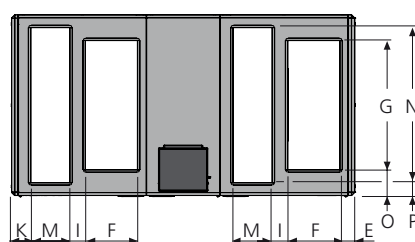
**A:** All the duct connections are arranged from the top of the air handling unit (the unit must not be installed outdoors).

**B:** Specify right-hand or left-hand version when ordering. The version can be changed at the building site using the hand-held terminal. **Note:** Supply air filters and extract air filters have different dimensions and may need to be replaced for different filter classes. Supply and extract air fans can be selected in different sizes/capacity variants, which must be taken into account.

**C:** The arrangement of the functional sections can be vertically reversed. To be specified when placing an order, see the illustration to the right.



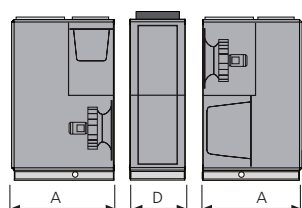
View from above. Shows the air handling unit's duct connections for supply air fan right up and left down



View from above. Shows the air handling unit's duct connections for supply air fan right down and left up

Size	A	B	D	E	F	G	H	I	J	K	L	M	N	O	P	Weight, kg
014/020	1039	1400	565	120	400	1000	1551	106	1154	165	2643	300	1200	200	100	726-832

### Division into sections for transport



The unit can be divided into three sections at the building site.

**Dimensions:** See A and D in the table above.

**Weight:** A = 267-307 kg, D = 192-218 kg.

### Clear space for inspection

A clear space of 1000 mm should be provided in front of the unit and at least 200 mm should be provided above the junction hood.

### Rated data per fan

Size 014: Motor shaft power: 1.6 alt. 2.4 kW, motor control system: 3 x 400 V, 50 Hz

Size 020: Motor shaft power 2.4 kW alt. 3.4 kW, motor control system: 3 x 400 V, 50 Hz

### Electrical connection

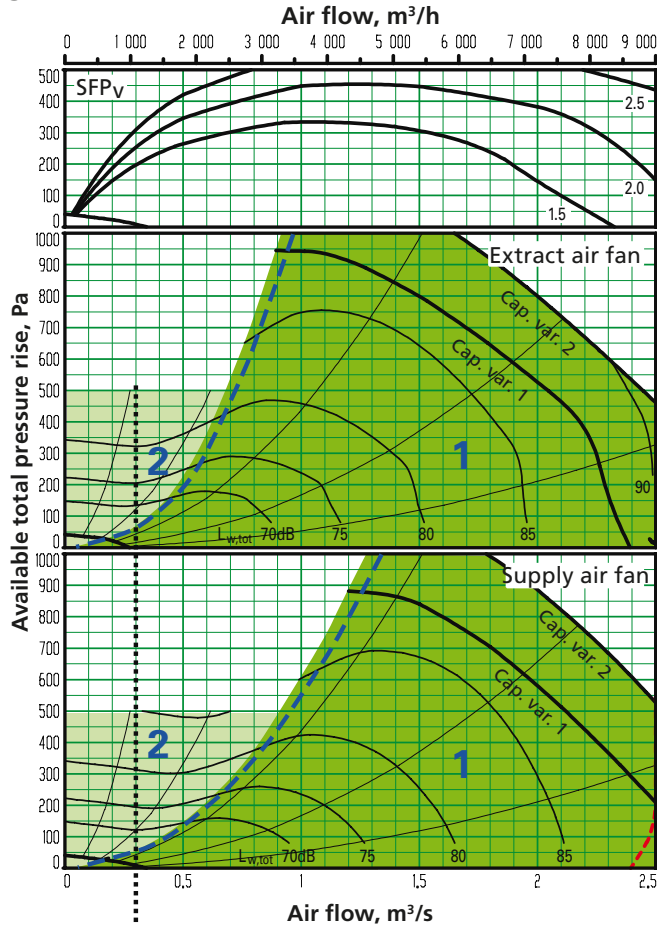
See table Electrical data at the end of this section.

# Sizing, installation, dimensions and weights

## GOLD RX, rotary heat exchanger, size 025/030

Size 025 (Extract air fan size 030 can be selected, see the next page)

### STE



The lower limit for the air flow with air flow regulation.

The limit line for Ecodesign 2018 is calculated with capacity variant 2. The mean value for supply air and extract air must be within the limit line. The air handling unit complies with requirements to Ecodesign 2016.

- Recommended working range for sizing.
- Permissible operating range when the fan is controlled to operate at a lower speed. The lower limit for the air flow when the unit is operating in the air flow regulation mode; see the black broken line in the diagram. If pressure regulation is used, the air flow can be regulated to zero. However this presupposes a certain static pressure drop in the ducting (approx. 50 Pa).
- Limit line, Ecodesign, 2018

### Min. and max. airflows

The flows specified refer to those that can be preset in the hand-held terminal. The practical flow limits are determined by the external pressure drop.

Size	Min. air flow (on airflow regulation)		Max. air flow	
	m <sup>3</sup> /h	m <sup>3</sup> /s	m <sup>3</sup> /h	m <sup>3</sup> /s
025	1080	0.30	9000	2,50

### Correction factors, K<sub>OK</sub>, dB

Sound path	Range in the diagram	Octave band, no./mid-frequency, Hz							
		1	2	3	4	5	6	7	8
		63	125	250	500	1000	2000	4000	8000
To the outlet duct	1	-4	-9	-7	-5	-8	-9	-11	-11
	2	2	-4	-7	-7	-10	-12	-16	-17
To the inlet duct*	1	-9	-10	-10	-21	-29	-32	-36	-33
	2	-4	-3	-10	-22	-31	-34	-41	-38
To unit's surroundings**	1	-15	-23	-30	-26	-41	-42	-45	-42
	2	-9	-18	-30	-28	-43	-45	-50	-48

\* The integral attenuation of filters and rotary heat exchanger has been taken into account.

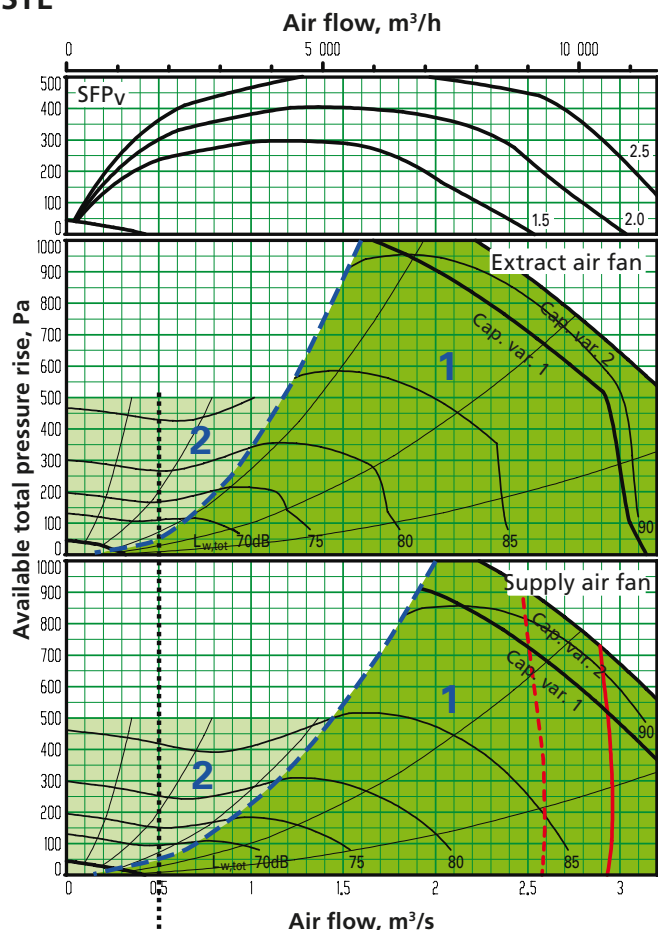
\*\* Total sound power level emitted to the surroundings is calculated as the sum of the levels in the supply air and the extract air.

# Sizing, installation, dimensions and weights

## GOLD RX, rotary heat exchanger, size 025/030

Size 030 (Extract air fan size 025 can be selected, see the previous page)

### STE



The lower limit for the air flow with air flow regulation.

The limit line for Ecodesign is calculated with capacity variant 2. The mean value for supply air and extract air must be within the limit line.

- Recommended working range for sizing.
- Permissible operating range when the fan is controlled to operate at a lower speed. The lower limit for the air flow when the unit is operating in the air flow regulation mode; see the black broken line in the diagram. If pressure regulation is used, the air flow can be regulated to zero. However this presupposes a certain static pressure drop in the ducting (approx. 50 Pa).
- Limit line, Ecodesign, 2016
- Limit line, Ecodesign, 2018

### Min. and max. airflows

The flows specified refer to those that can be preset in the hand-held terminal. The practical flow limits are determined by the external pressure drop.

Size	Min. air flow (on airflow regulation)		Max. air flow	
	m <sup>3</sup> /h	m <sup>3</sup> /s	m <sup>3</sup> /h	m <sup>3</sup> /s
030	1800	0,50	11520	3,20

### Correction factors, K<sub>OK</sub>, dB

Sound path	Range in the diagram	Octave band, no./mid-frequency, Hz							
		1 63	2 125	3 250	4 500	5 1000	6 2000	7 4000	8 8000
To the outlet duct	1	-4	-9	-7	-5	-8	-9	-11	-11
	2	2	-4	-7	-7	-10	-12	-16	-17
To the inlet duct*	1	-9	-10	-10	-21	-29	-32	-36	-33
	2	-4	-3	-10	-22	-31	-34	-41	-38
To unit's surroundings**	1	-15	-23	-30	-26	-41	-42	-45	-42
	2	-9	-18	-30	-28	-43	-45	-50	-48

\* The integral attenuation of filters and rotary heat exchanger has been taken into account.

\*\* Total sound power level emitted to the surroundings is calculated as the sum of the levels in the supply air and the extract air.

# Sizing, installation, dimensions and weights

## GOLD RX, rotary heat exchanger, size 025/030

### Delivery and transport within the site

The GOLD RX 025/030 can be supplied as one single unit, or in a number of different combinations of unit sections from the factory, see the section: Description of the Air Handling Unit. Filter/fan sections for RX and RX Top can be combined, see the section: Description of the Air Handling Unit.

The unit sections are jointed together/split by means of bolts. The electrical and control cables between the unit sections have quick-fit connectors.

The air handling unit/unit sections is/are delivered on wooden beams.

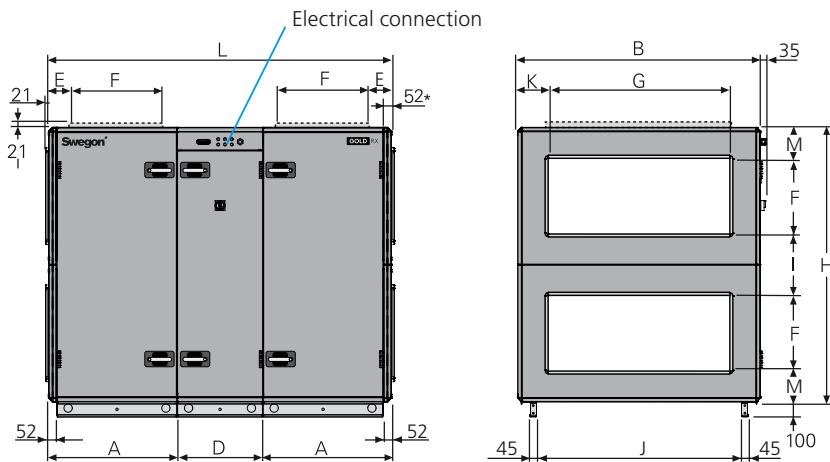
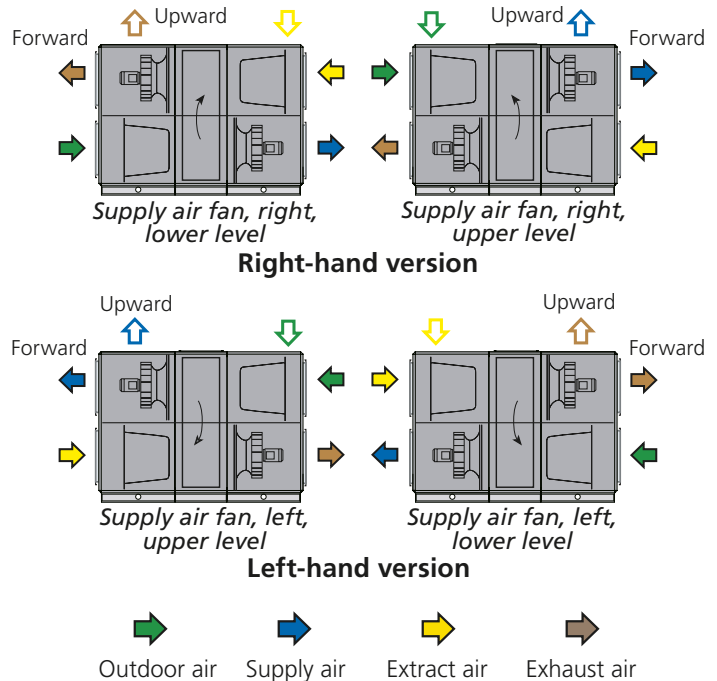
### Duct connection options

**A:** Specify right-hand or left-hand version when ordering. If the air handling unit is supplied with all the end connection panels, the version can be changed at the building site using the hand-held terminal. **NOTE!** Supply and extract air fans can be selected in different sizes/capacity variants, which must be taken into account.

**B:** The arrangement of the functional sections can be vertically reversed. To be specified when placing an order, see the illustration to the right.

**C:** Specify upper fan outlet for upward air discharge when placing orders (not for outdoor units).

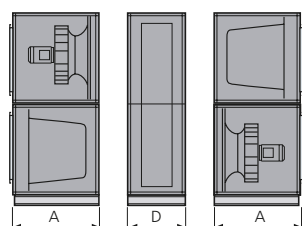
**D:** Specify whether the unit shall have an air intake from above for outdoor air or extract air when placing orders (does not apply to units installed outdoors).



\* The air handling unit is supplied without end connection panel if a duct accessory housed in an insulated casing will be connected. The AHU can also be supplied with full face end connection panel (accessory).

Size	A	B	D	E	F	G	H	I	J	K	L	M	Weight, kg
025/030	848	1600	565	200	500	1200	1811	405	1354	200	2261	203	744-971

### Division into sections for transport



The unit can be divided into three sections at the building site.

**Dimensions:** See A and D in the table above.

**Weight:** A = 249-345 kg, D = 246-281 kg.

### Clear space for inspection

A clear space of 900 mm should be provided in front of the unit.

### Rated data per fan

Size 025: Motor shaft power 2.4 kW alt. 3.4 kW, motor control system: 3 x 400 V, 50 Hz  
 Size 030: Motor shaft power: 4.0 kW alt. 5.0 kW, motor control system: 3 x 400 V, 50 Hz

### Electrical connection

See table Electrical data at the end of this section.

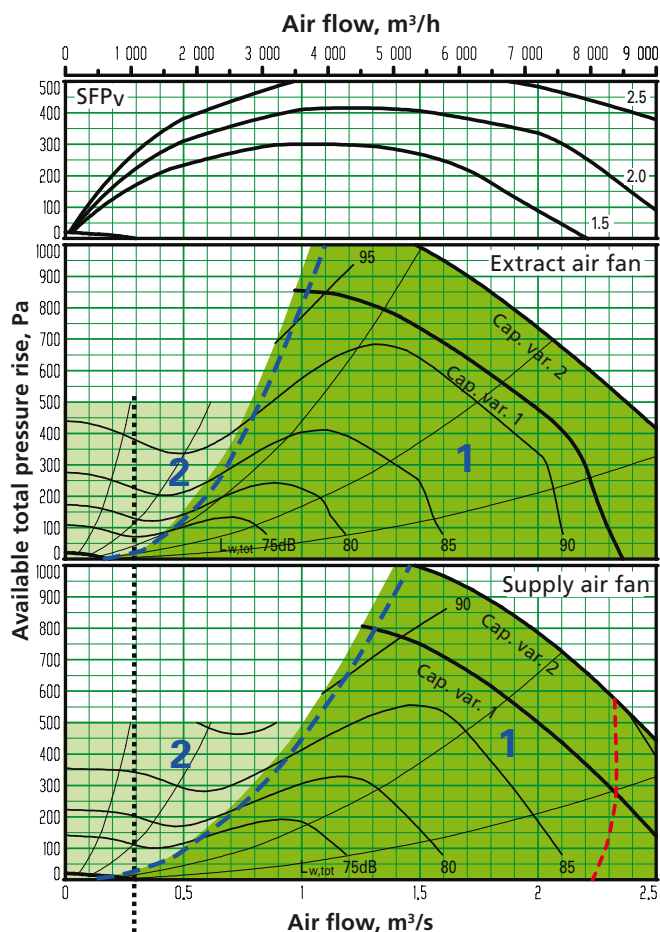
# Sizing, installation, dimensions and weights

## GOLD RX Top, rotary heat exchanger, size 025/030

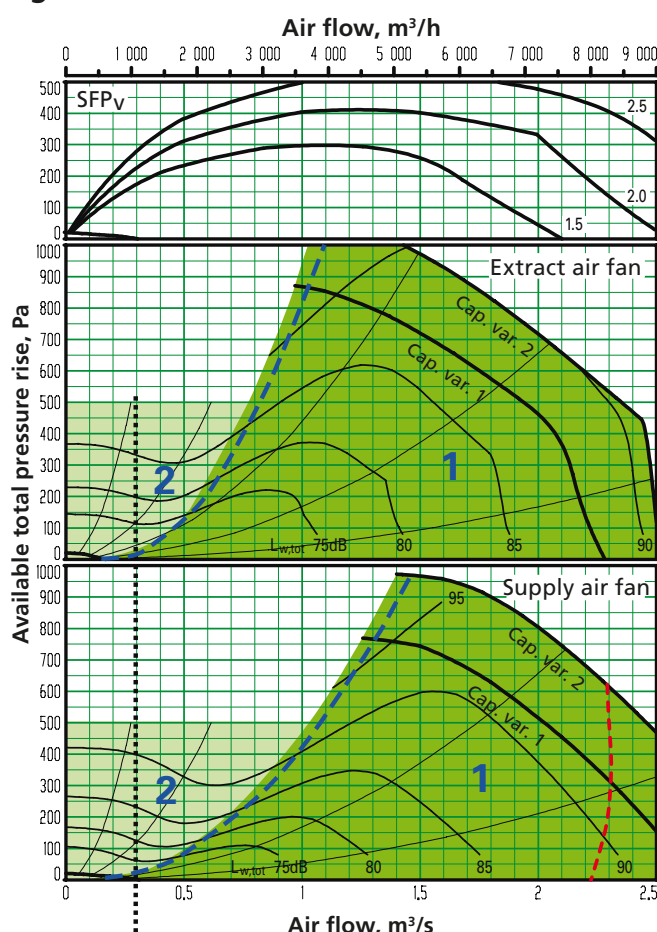
Size 025 (Extract air fan size 030 can be selected, see the next page)

Left-hand version, STE

Right-hand version, STE



The lower limit for the air flow with air flow regulation.



The lower limit for the air flow with air flow regulation.

For Ecodesign, the mean value for supply air and extract air must be within the limit line.

- Recommended working range for sizing.
- Permissible operating range when the fan is controlled to operate at a lower speed. The lower limit for the air flow when the unit is operating in the air flow regulation mode; see the black broken line in the diagram. If pressure regulation is used, the air flow can be regulated to zero. However this presupposes a certain static pressure drop in the ducting (approx. 50 Pa).
- Limit line, Ecodesign, 2018

### Min. and max. airflows

The flows specified refer to those that can be preset in the hand-held terminal. The practical flow limits are determined by the external pressure drop.

Size	Min. air flow (on airflow regulation)		Max. air flow	
	m <sup>3</sup> /h	m <sup>3</sup> /s	m <sup>3</sup> /h	m <sup>3</sup> /s
025	1080	0.30	9000	2,50

### Correction factors, K<sub>OK</sub>, dB. Fan in lower level.

Sound path	Range in the diagram	Octave band, no./mid-frequency, Hz							
		1	2	3	4	5	6	7	8
		63	125	250	500	1000	2000	4000	8000
To the outlet duct	1	-9	-13	-6	-6	-6	-12	-16	-19
	2	-4	-5	-4	-8	-10	-18	-25	-28
To the inlet duct*	1	-11	-13	-15	-26	-30	-31	-36	-36
	2	-8	-9	-21	-31	-36	-37	-40	-40
To unit's surroundings**	1	-20	-27	-29	-27	-39	-45	-50	-50
	2	-15	-19	-27	-29	-43	-51	-59	-59

### Correction factors, K<sub>OK</sub>, dB. Fan in upper level.

Sound path	Range in the diagram	Octave band, no./mid-frequency, Hz							
		1	2	3	4	5	6	7	8
		63	125	250	500	1000	2000	4000	8000
To the outlet duct	1	-8	-12	-4	-7	-7	-12	-17	-20
	2	-2	-4	-5	-9	-10	-18	-25	-29
To the inlet duct*	1	-14	-15	-18	-30	-32	-35	-43	-44
	2	-12	-11	-23	-35	-37	-41	-47	-46
To unit's surroundings**	1	-19	-26	-27	-28	-40	-45	-51	-51
	2	-13	-18	-28	-30	-43	-51	-59	-60

\* The integral attenuation of filters and rotary heat exchanger has been taken into account.

\*\* Total sound power level emitted to the surroundings is calculated as the sum of the levels in the supply air and the extract air.

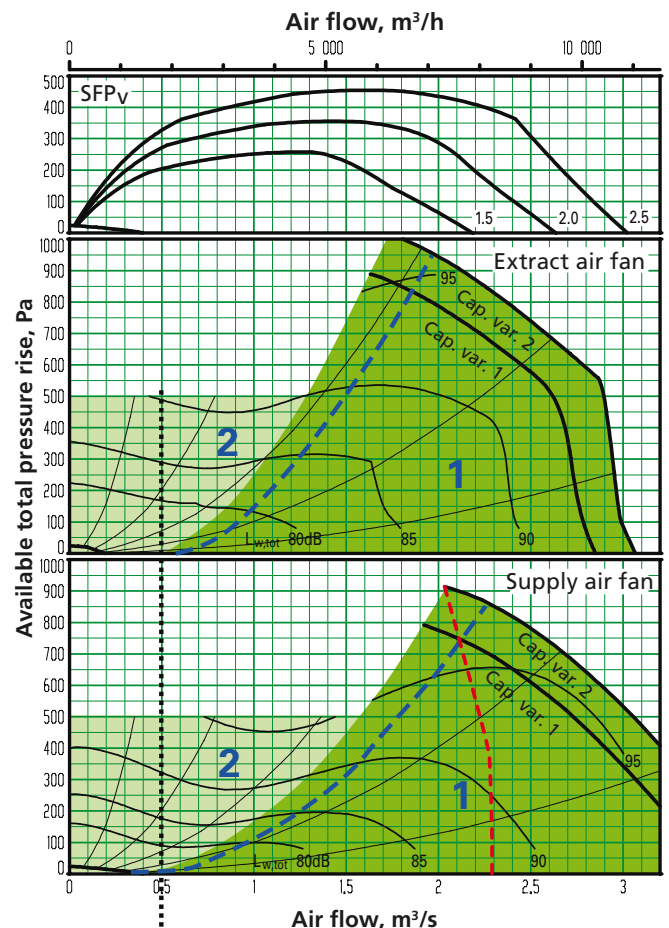
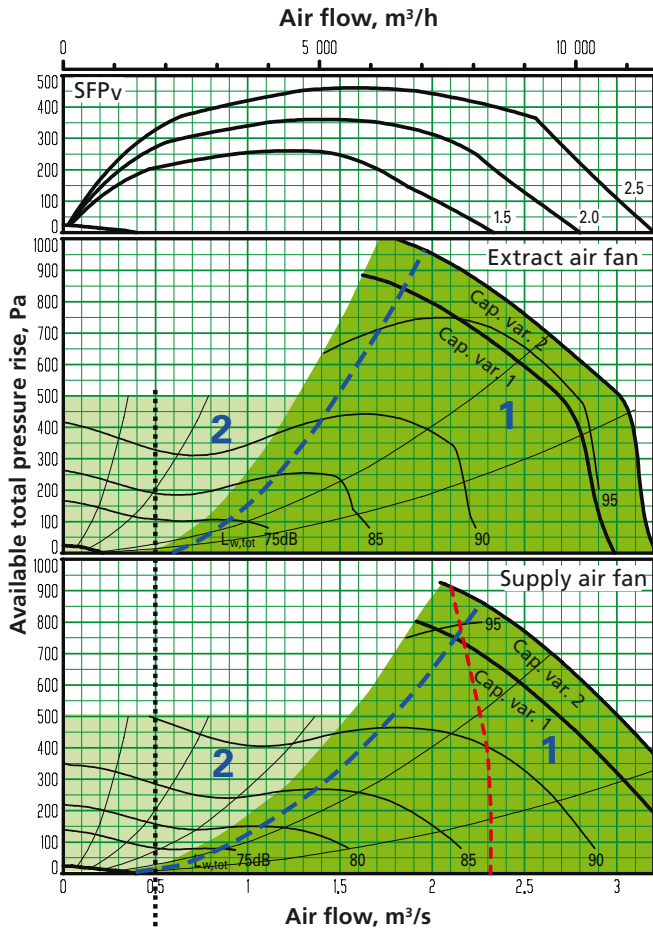
# Sizing, installation, dimensions and weights

## GOLD RX Top, rotary heat exchanger, size 025/030

Size 030 (Extract air fan size 025 can be selected, see the previous page)

Left-hand version, STE

Right-hand version, STE



The lower limit for the air flow with air flow regulation.

The lower limit for the air flow with air flow regulation.

For Ecodesign, the mean value for supply air and extract air must be within the limit line.

- Recommended working range for sizing.
- Permissible operating range when the fan is controlled to operate at a lower speed. The lower limit for the air flow when the unit is operating in the air flow regulation mode; see the black broken line in the diagram. If pressure regulation is used, the air flow can be regulated to zero. However this presupposes a certain static pressure drop in the ducting (approx. 50 Pa).
- Limit line, Ecodesign, 2018

### Min. and max. airflows

The flows specified refer to those that can be preset in the hand-held terminal. The practical flow limits are determined by the external pressure drop.

Size	Min. air flow (on airflow regulation)		Max. air flow	
	m <sup>3</sup> /h	m <sup>3</sup> /s	m <sup>3</sup> /h	m <sup>3</sup> /s
030	1800	0,50	11520	3,20

### Correction factors, K<sub>OK</sub>, dB. Fan in lower level.

Sound path	Range in the diagram	Octave band, no./mid-frequency, Hz							
		1	2	3	4	5	6	7	8
		63	125	250	500	1000	2000	4000	8000
To the outlet duct	1	-9	-13	-3	-6	-10	-15	-17	-17
	2	-3	-5	-4	-8	-10	-18	-23	-24
To the inlet duct*	1	-15	-17	-17	-28	-33	-34	-40	-40
	2	-8	-8	-20	-31	-35	-36	-38	-39
To unit's surroundings**	1	-20	-27	-26	-27	-43	-48	-51	-48
	2	-14	-19	-27	-29	-43	-51	-57	-55

### Correction factors, K<sub>OK</sub>, dB. Fan in upper level.

Sound path	Range in the diagram	Octave band, no./mid-frequency, Hz							
		1	2	3	4	5	6	7	8
		63	125	250	500	1000	2000	4000	8000
To the outlet duct	1	-9	-11	-3	-7	-9	-14	-17	-18
	2	-1	-3	-6	-9	-11	-19	-24	-26
To the inlet duct*	1	-17	-18	-19	-30	-32	-36	-45	-45
	2	-11	-10	-22	-34	-36	-40	-46	-45
To unit's surroundings**	1	-20	-25	-26	-28	-42	-47	-51	-49
	2	-12	-17	-29	-30	-44	-52	-58	-57

\* The integral attenuation of filters and rotary heat exchanger has been taken into account.

\*\* Total sound power level emitted to the surroundings is calculated as the sum of the levels in the supply air and the extract air.



# Sizing, installation, dimensions and weights

## GOLD RX Top, rotary heat exchanger, size 025/030

### Delivery and transport within the site

The GOLD RX Top 025/030 can be supplied as one single unit, or in a number of different combinations of unit sections from the factory, see the section: Description of the Air Handling Unit. Filter/fan sections for RX and RX Top can be combined, see the section: Description of the Air Handling Unit.

The unit sections are jointed together/split by means of bolts. The electrical and control cables between the unit sections have quick-fit connectors.

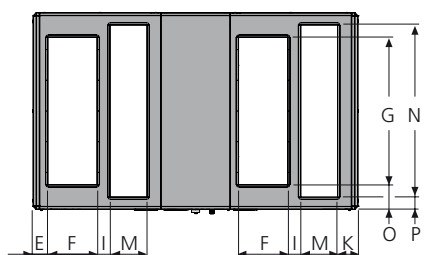
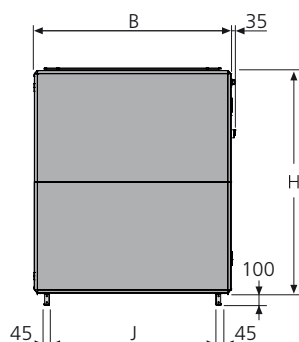
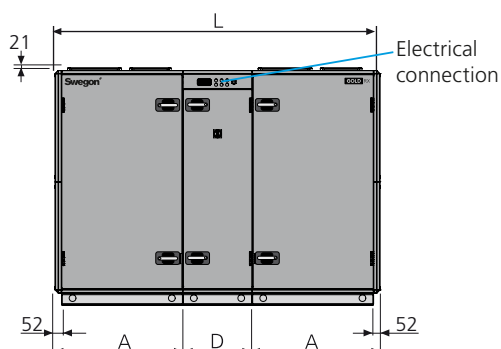
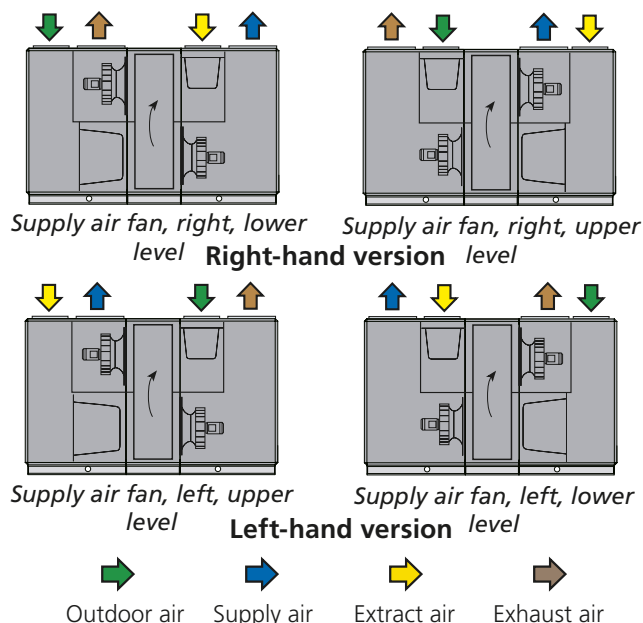
The air handling unit/unit sections is/are delivered on wooden beams.

### Duct connection options

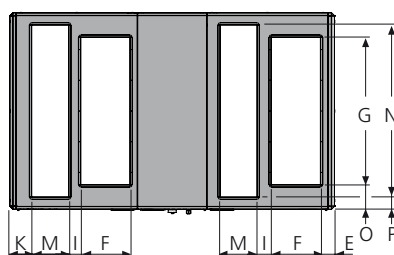
**A:** All the duct connections are arranged from the top of the air handling unit (the unit must not be installed outdoors).

**B:** Specify right-hand or left-hand version when ordering. The version can be changed at the building site using the hand-held terminal. **Note:** Supply air filters and extract air filters have different dimensions and may need to be replaced for different filter classes. Supply and extract air fans can be selected in different sizes/capacity variants, which must be taken into account.

**C:** The arrangement of the functional sections can be vertically reversed. To be specified when placing an order, see the illustration to the right.



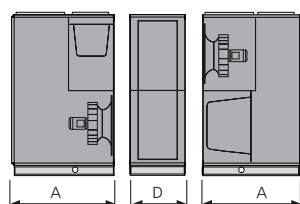
View from above. Shows the air handling unit's duct connections for supply air fan right up and left down



View from above. Shows the air handling unit's duct connections for supply air fan right down and left up

Size	A	B	D	E	F	G	H	I	J	K	L	M	N	O	P	Weight, kg
025/030	1039	1600	565	120	400	1200	1811	106	1354	165	2643	300	1400	200	100	884-1033

### Division into sections for transport



The unit can be divided into three sections at the building site.

**Dimensions:** See A and D in the table above.

**Weight:** A = 319-376 kg, D = 246-281 kg.

### Clear space for inspection

A clear space of 1,000 mm should be provided in front of the unit.

### Rated data per fan

Size 025: Motor shaft power 2.4 kW alt. 3.4 kW, motor control system: 3 x 400 V, 50 Hz

Size 030: Motor shaft power: 4.0 kW alt. 5.0 kW, motor control system: 3 x 400 V, 50 Hz

### Electrical connection

See table Electrical data at the end of this section.

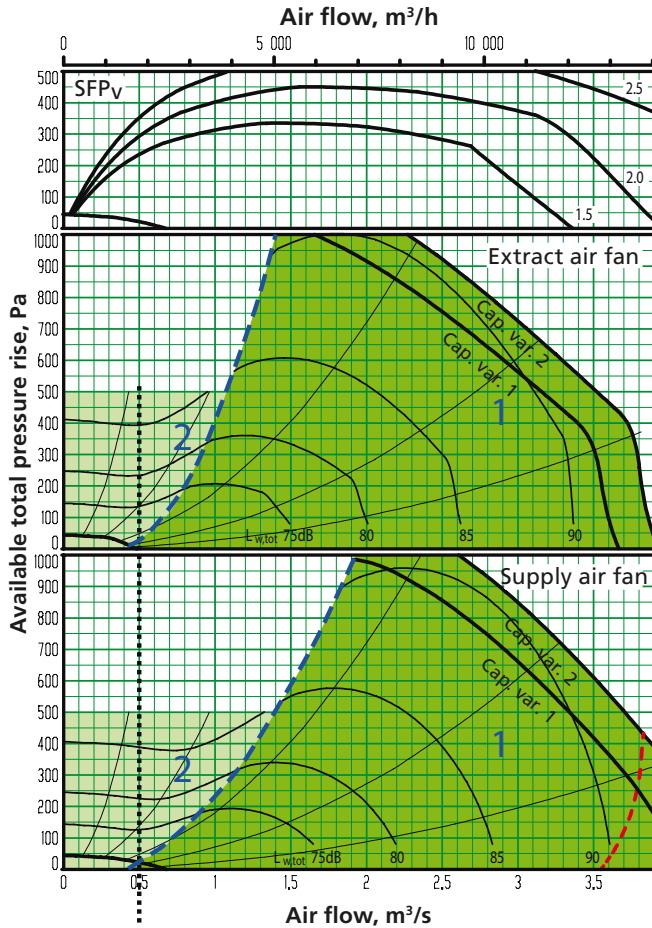


# Sizing, Installation, Dimensions and Weights

## GOLD RX, rotary heat exchanger, size 035/040

Size 035 (Extract air fan size 040 can be selected, see the next page)

### STE



The lower limit for the air flow when the unit is operating in the air flow regulation mode.

The limit line for Ecodesign 2018 is calculated with capacity variant 2 and full face end connection panels (accessories). The mean value for supply air and extract air must be within the limit line. The air handling unit complies with requirements to Ecodesign 2016. Other values in diagrams are calculated for air handling units with standard end connection panels.

- Recommended working range for sizing.
- Permissible operating range when the fan is controlled to operate at a lower speed. The lower limit for the air flow when the unit is operating in the air flow regulation mode; see the black broken line in the diagram. If pressure regulation is used, the air flow can be regulated to zero, however this presupposes a certain static pressure drop in the ducting (approx. 50 Pa).
- Limit line, Ecodesign, 2018

### Min. and max. airflows

The flows specified refer to those that can be preset in the hand-held terminal. The practical flow limits are determined by the external pressure drop.

Size	Min. airflow (on airflow regulation)		Max. airflow	
	m <sup>3</sup> /h	m <sup>3</sup> /s	m <sup>3</sup> /h	m <sup>3</sup> /s
035	1800	0,50	14040	3,90

### Correction factors, K<sub>OK</sub>, dB

Sound path	Range in the diagram	Octave band, no./mid-frequency, Hz							
		1	2	3	4	5	6	7	8
		63	125	250	500	1000	2000	4000	8000
To the outlet duct	1	-4	-9	-7	-5	-8	-9	-11	-11
	2	-4	-4	-7	-7	-10	-12	-16	-17
To the inlet duct*	1	-9	-10	-10	-21	-29	-32	-36	-33
	2	-4	-3	-10	-22	-31	-34	-41	-38
To air handling unit surroundings**	1	-15	-23	-30	-26	-41	-42	-45	-42
	2	-9	-18	-30	-28	-43	-45	-50	-48

\* The integral attenuation of filters and rotary heat exchanger has been taken into account.

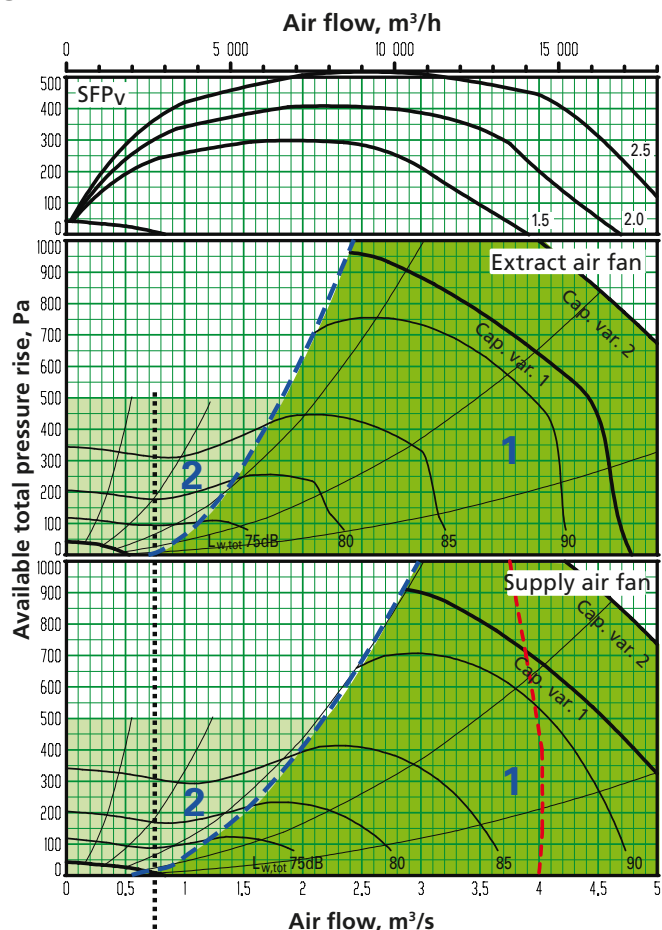
\*\* Total sound power level emitted to the surroundings is calculated as the sum of the levels in the supply air and the extract air.

# Sizing, Installation, Dimensions and Weights

## GOLD RX, rotary heat exchanger, size 035/040

Size 040 (Extract air fan size 035 can be selected, see the previous page)

### STE



The lower limit for the air flow when the unit is operating in the air flow regulation mode.

The limit line for Ecodesign is calculated with full face end connection panels (accessories). The mean value for supply air and extract air must be within the limit line. Other values in diagrams are calculated for air handling units with standard end connection panels.

- Recommended working range for sizing.
- Permissible operating range when the fan is controlled to operate at a lower speed. The lower limit for the air flow when the unit is operating in the air flow regulation mode; see the black broken line in the diagram. If pressure regulation is used, the air flow can be regulated to zero, however this presupposes a certain static pressure drop in the ducting (approx. 50 Pa).
- Limit line, Ecodesign, 2018

### Min. and max. airflows

The flows specified refer to those that can be preset in the hand-held terminal. The practical flow limits are determined by the external pressure drop.

Size	Min. airflow (on airflow regulation)		Max. airflow	
	m <sup>3</sup> /h	m <sup>3</sup> /s	m <sup>3</sup> /h	m <sup>3</sup> /s
040	2700	0,75	18000	5,00

### Correction factors, K<sub>OK</sub>, dB

Sound path	Range in the diagram	Octave band, no./mid-frequency, Hz							
		1	2	3	4	5	6	7	8
		63	125	250	500	1000	2000	4000	8000
To the outlet duct	1	-4	-9	-7	-5	-8	-9	-11	-11
	2	-4	-4	-7	-7	-10	-12	-16	-17
To the inlet duct*	1	-9	-10	-10	-21	-29	-32	-36	-33
	2	-4	-3	-10	-22	-31	-34	-41	-38
To air handling unit surroundings**	1	-15	-23	-30	-26	-41	-42	-45	-42
	2	-9	-18	-30	-28	-43	-45	-50	-48

\* The integral attenuation of filters and rotary heat exchanger has been taken into account.

\*\* Total sound power level emitted to the surroundings is calculated as the sum of the levels in the supply air and the extract air.

# Sizing, Installation, Dimensions and Weights

## GOLD RX, rotary heat exchanger, size 035/040

### Delivery and transport within the site

The GOLD RX 035/040 can be supplied as one single unit, or in a number of different combinations of unit sections from the factory, see the section: Description of the Air Handling Unit/Delivery Configuration RX/PX/CX, sizes 011-080.

The unit sections are joined together/split by means of bolts. The electrical and control cables between the unit sections have quick-fit connectors.

The air handling unit/unit sections is/are delivered on wooden beams.

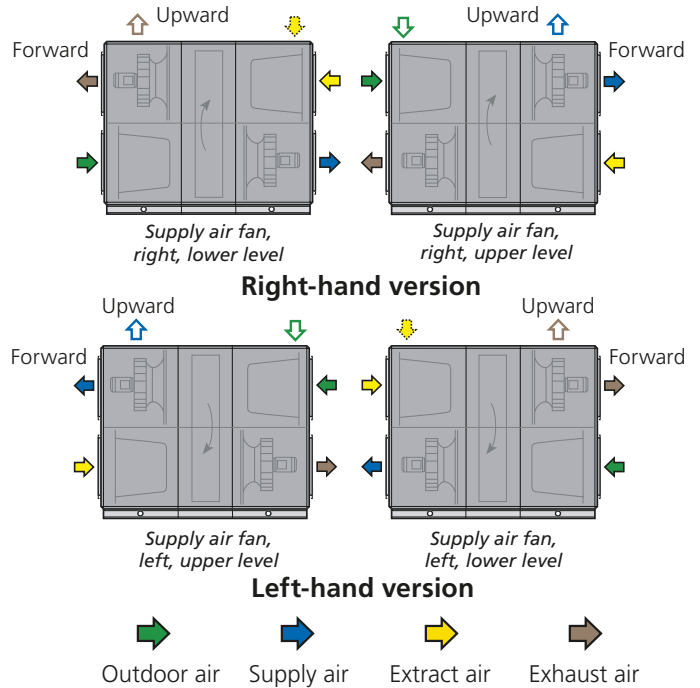
### Duct connection options

**A:** Specify right-hand or left-hand version when ordering. If the air handling unit is supplied with all the end connection panels, the version can be changed at the building site using the hand-held terminal. **Note:** Supply and extract air fans can be selected in different sizes/capacity variants, which must be taken into account.

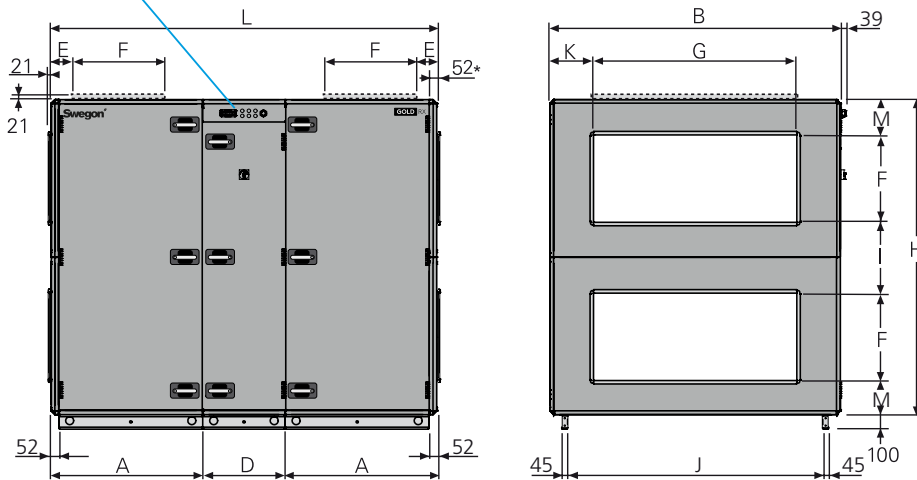
**B:** The arrangement of the functional sections can be vertically reversed. To be specified when placing an order, see the illustration to the right.

**C:** Specify upper fan outlet for upward air discharge when placing orders (not for outdoor units).

**D:** Specify whether the unit shall have an air intake from above for outdoor air or extract air when placing orders (Does not apply to units installed outdoors).



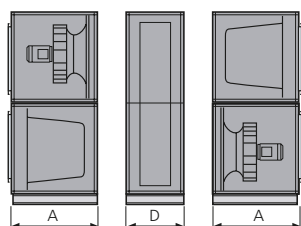
Power connection



\* The air handling unit is supplied without end connection panel if a duct accessory housed in an insulated casing will be connected. The AHU can also be supplied with full face end connection panel (accessory).

Size	A	B	D	E	F	G	H	I	J	K	L	M	Weight, kg
035/040	1038.5	1990	565	245	600	1400	2159	479	1744	295	2642	240	1096-1405

### Division into sections for transport



The unit can be divided into three sections at the building site.

**Dimensions:** See A and D in the table above.

**Weight:** A = 377-504 kg, D = 342-397 kg.

### Clear space for inspection

A clear space of 1,100 mm should be provided in front of the unit.

### Rated data per fan

Size 035: Motor shaft power: 4.0 kW alt. 5.0 kW, motor control system, 3 x 400 V, 50 Hz  
 Size 040: Motor shaft power: 6.5 kW alt. 10 kW, motor control system: 3 x 400 V, 50 Hz

### Electrical connection

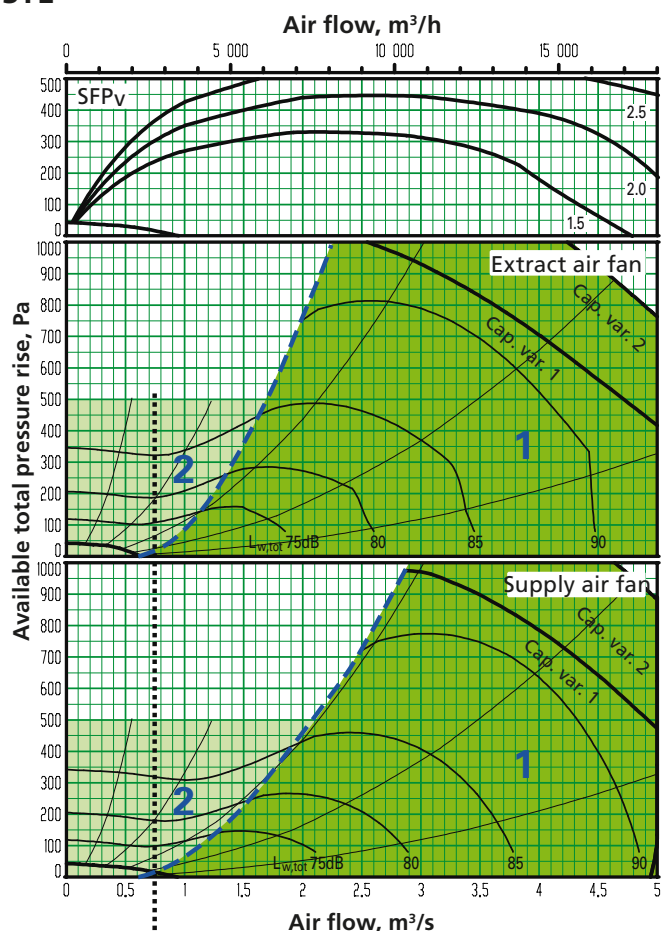
See table Electrical data at the end of this section.

# Sizing, Installation, Dimensions and Weights

## GOLD RX, rotary heat exchanger, size 050/060

Size 050 (Extract air fan size 060 can be selected, see the next page)

### STE



The lower limit for the air flow when the unit is operating in the air flow regulation mode.

The diagram shows air handling units including standard the end connection panels.

The air handling unit complies with requirements to Ecodesign 2016/2018.

- Recommended working range for sizing.
- Permissible operating range when the fan is controlled to operate at a lower speed. The lower limit for the air flow when the unit is operating in the air flow regulation mode; see the black broken line in the diagram. If pressure regulation is used, the air flow can be regulated to zero, however this presupposes a certain static pressure drop in the ducting (approx. 50 Pa).

### Min. and max. airflows

The flows specified refer to those that can be preset in the hand-held terminal. The practical flow limits are determined by the external pressure drop.

Size	Min. airflow (on airflow regulation)		Max. airflow	
	m <sup>3</sup> /h	m <sup>3</sup> /s	m <sup>3</sup> /h	m <sup>3</sup> /s
050	2700	0,75	18000	5,00

### Correction factors, K<sub>OK</sub>, dB

Sound path	Range in diagram	Octave band, no./mid-frequency, Hz							
		1	2	3	4	5	6	7	8
		63	125	250	500	1000	2000	4000	8000
To the outlet duct	1	-4	-9	-7	-5	-8	-9	-11	-11
	2	-4	-4	-7	-7	-10	-12	-16	-17
To the inlet duct*	1	-9	-10	-10	-21	-29	-32	-36	-33
	2	-4	-3	-10	-22	-31	-34	-41	-38
To unit's surroundings**	1	-15	-23	-30	-26	-41	-42	-45	-42
	2	-9	-18	-30	-28	-43	-45	-50	-48

\* The integral attenuation of filters and rotary heat exchanger has been taken into account.

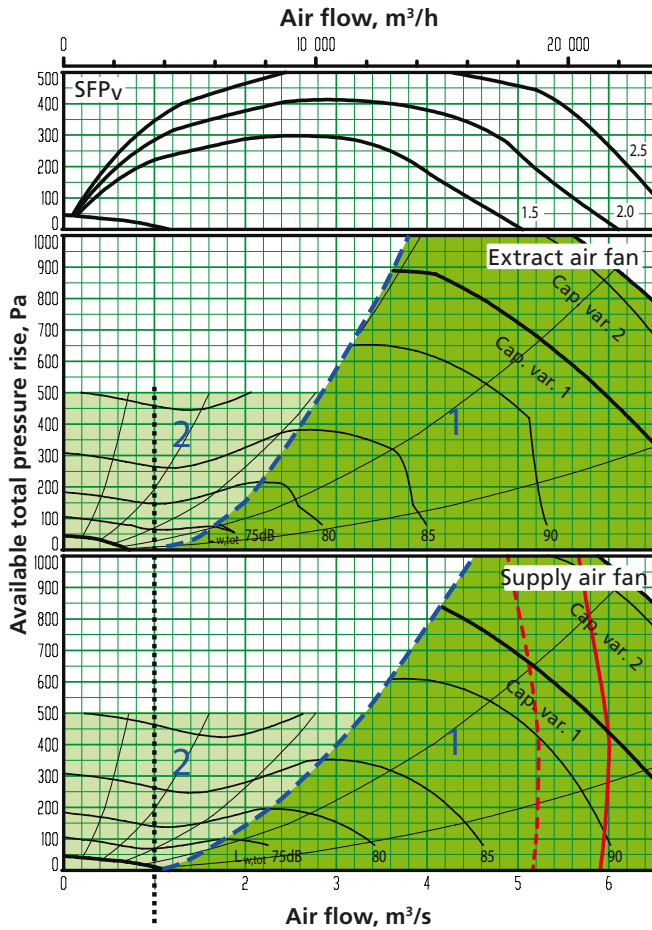
\*\* Total sound power level emitted to the surroundings is calculated as the sum of the levels in the supply air and the extract air.

# Sizing, Installation, Dimensions and Weights

## GOLD RX, rotary heat exchanger, size 050/060

Size 060 (Extract air fan size 050 can be selected, see the previous page)

### STE



The lower limit for the air flow when the unit is operating in the air flow regulation mode.

The limit line for Ecodesign is calculated with capacity variant 2 and full face end connection panels (accessories). The mean value for supply air and extract air must be within the limit line. Other values in diagrams are calculated for air handling units with standard end connection panels.

- Recommended working range for sizing.
- Permissible operating range when the fan is controlled to operate at a lower speed. The lower limit for the air flow when the unit is operating in the air flow regulation mode; see the black broken line in the diagram. If pressure regulation is used, the air flow can be regulated to zero, however this presupposes a certain static pressure drop in the ducting (approx. 50 Pa).
- Limit line, Ecodesign, 2016
- Limit line, Ecodesign, 2018

### Min. and max. airflows

The flows specified refer to those that can be preset in the hand-held terminal. The practical flow limits are determined by the external pressure drop.

Size	Min. airflow (on airflow regulation)		Max. airflow	
	m <sup>3</sup> /h	m <sup>3</sup> /s	m <sup>3</sup> /h	m <sup>3</sup> /s
060	3600	1,00	23400	6,50

### Correction factors, K<sub>OK</sub>, dB

Sound path	Range in diagram	Octave band, no./mid-frequency, Hz							
		1	2	3	4	5	6	7	8
		63	125	250	500	1000	2000	4000	8000
To the outlet duct	1	-4	-9	-7	-5	-8	-9	-11	-11
	2	2	-4	-7	-7	-10	-12	-16	-17
To the inlet duct*	1	-9	-10	-10	-21	-29	-32	-36	-33
	2	-4	-3	-10	-22	-31	-34	-41	-38
To unit's surroundings**	1	-15	-23	-30	-26	-41	-42	-45	-42
	2	-9	-18	-30	-28	-43	-45	-50	-48

\* The integral attenuation of filters and rotary heat exchanger has been taken into account.

\*\* Total sound power level emitted to the surroundings is calculated as the sum of the levels in the supply air and the extract air.

# Sizing, Installation, Dimensions and Weights

## GOLD RX, rotary heat exchanger, size 050/060

### Delivery and transport within the site

The GOLD RX 050/060 can be supplied as one single unit, or in a number of different combinations of unit sections from the factory, see the section: Description of the Air Handling Unit/Delivery Configuration RX/PX/CX, sizes 011-080.

The unit sections are joined together/split by means of bolts. The electrical and control cables between the unit sections have quick-fit connectors.

The air handling unit/unit sections is/are delivered on wooden beams.

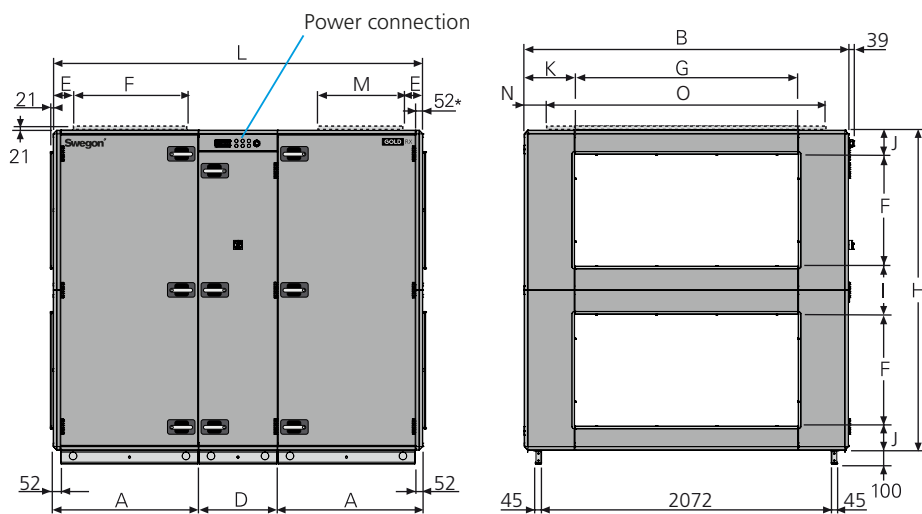
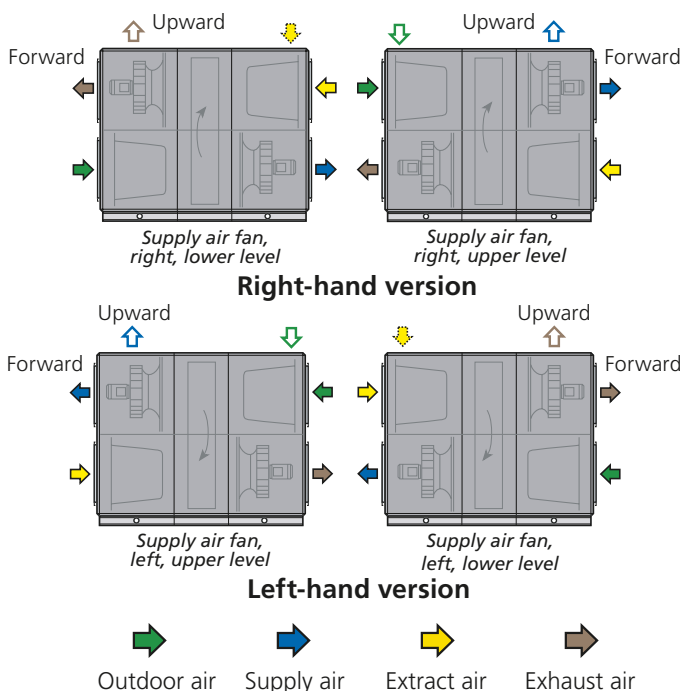
### Duct connection options

**A:** Specify right-hand or left-hand version when ordering. If the air handling unit is supplied with all the end connection panels, the version can be changed at the building site using the hand-held terminal. **Note:** Supply and extract air fans can be selected in different sizes/capacity variants, which must be taken into account.

**B:** The arrangement of the functional sections can be vertically reversed. To be specified when placing an order, see the illustration to the right.

**C:** Specify upper fan outlet for upward air discharge when placing orders (not for outdoor units).

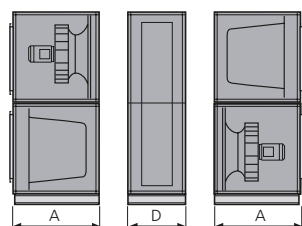
**D:** Specify whether the unit shall have an air intake from above for outdoor air or extract air when placing orders (Does not apply to units installed outdoors). N.B.! Duct connection size: 2,000 x 600 mm.



\* The air handling unit is supplied without end connection panel if a duct accessory housed in an insulated casing will be connected. The AHU can also be supplied with full face end connection panel (accessory).

Size	A	B	D	E	F	G	H	I	J	K	L	M	N	O	Weight, kg
050/060	1038,5	2318	565	145	800	1600	2288	344	172	359	2642	600	159	2000	1298-1752

### Division into sections for transport



The unit can be divided into three sections at the building site.

**Dimensions:** See A and D in the table above.

**Weight:** A = 444-630 kg, D = 410-492 kg.

### Clear space for inspection

A clear space of 1,100 mm should be provided in front of the unit.

### Rated data per fan

Size 050: Motor shaft power: 6.5 kW alt. 10 kW, motor control system: 3 x 400 V, 50 Hz  
 Size 060: Motor shaft power: 2 x 4.0 kW alt. 2 x 6.5 kW, motor control system, 3 x 400 V, 50 Hz

### Electrical connection

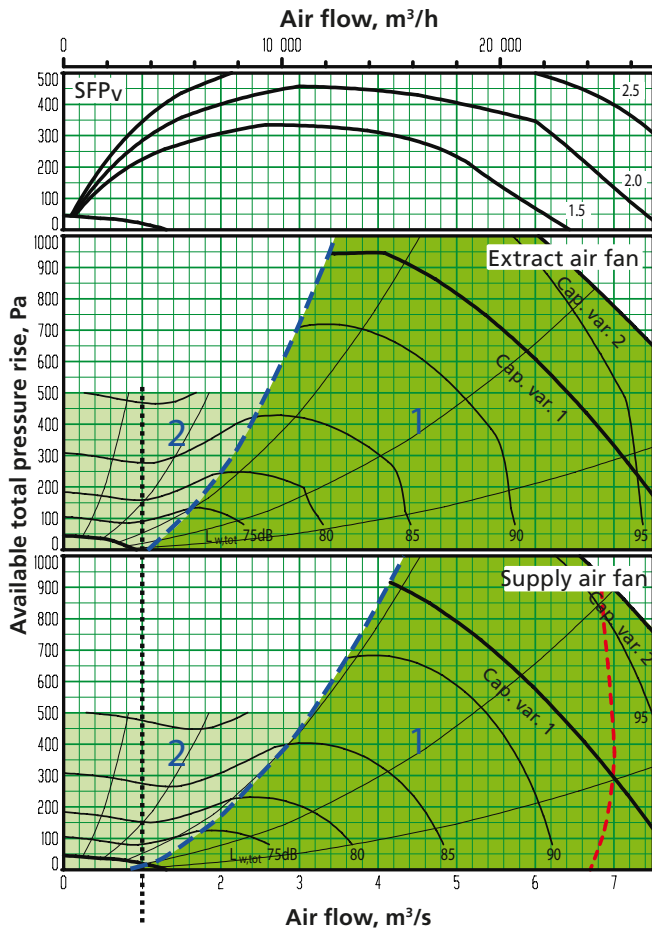
See table Electrical data at the end of this section.

# Sizing, Installation, Dimensions and Weights

## GOLD RX, rotary heat exchanger, size 070/080

Size 070 (Extract air fan size 080 can be selected, see the next page)

### STE



The lower limit for the air flow when the unit is operating in the air flow regulation mode.

The limit line for Ecodesign 2018 is calculated with capacity variant 2 and full face end connection panels (accessories). The mean value for supply air and extract air must be within the limit line. The air handling unit complies with requirements to Ecodesign 2016. Other values in diagrams are calculated for air handling units with standard end connection panels.

- Recommended working range for sizing.
- Permissible operating range when the fan is controlled to operate at a lower speed. The lower limit for the air flow when the unit is operating in the air flow regulation mode; see the black broken line in the diagram. If pressure regulation is used, the air flow can be regulated to zero, however this presupposes a certain static pressure drop in the ducting (approx. 50 Pa).
- Limit line, Ecodesign, 2018

### Min. and max. airflows

The flows specified refer to those that can be preset in the hand-held terminal. The practical flow limits are determined by the external pressure drop.

Size	Min. airflow (on airflow regulation)		Max. airflow	
	m <sup>3</sup> /h	m <sup>3</sup> /s	m <sup>3</sup> /h	m <sup>3</sup> /s
070	3600	1,00	27000	7,50

### Correction factors, K<sub>OK</sub>, dB

Sound path	Range in diagram	Octave band, no./mid-frequency, Hz							
		1 63	2 125	3 250	4 500	5 1000	6 2000	7 4000	8 8000
To the outlet duct	1	-4	-9	-7	-5	-8	-9	-11	-11
	2	2	-4	-7	-7	-10	-12	-16	-17
To the inlet duct*	1	-9	-10	-10	-21	-29	-32	-36	-33
	2	-4	-3	-10	-22	-31	-34	-41	-38
To unit's surroundings**	1	-15	-23	-30	-26	-41	-42	-45	-42
	2	-9	-18	-30	-28	-43	-45	-50	-48

\* The integral attenuation of filters and rotary heat exchanger has been taken into account.

\*\* Total sound power level emitted to the surroundings is calculated as the sum of the levels in the supply air and the extract air.

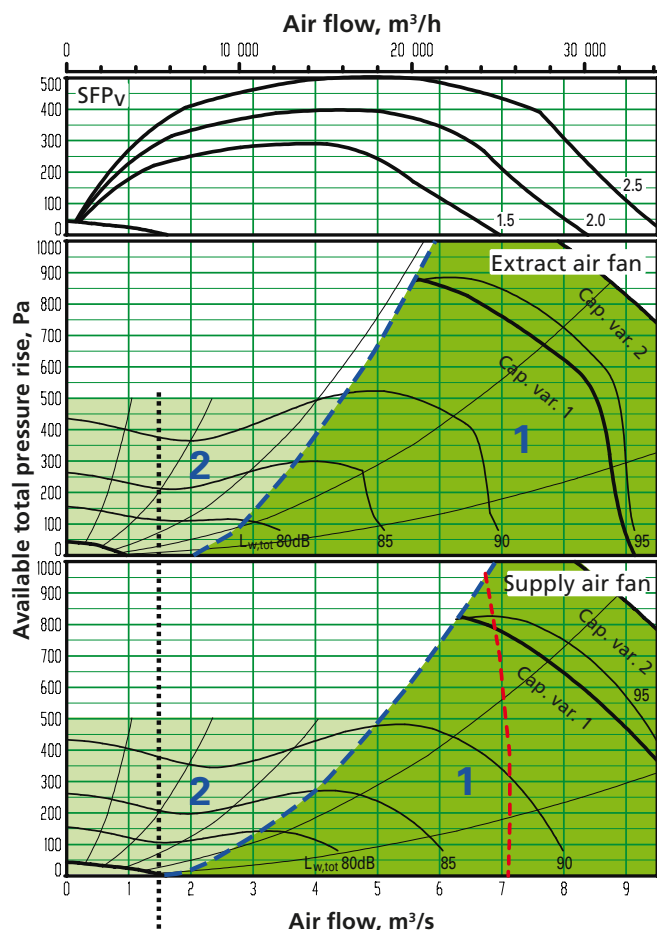


# Sizing, Installation, Dimensions and Weights

## GOLD RX, rotary heat exchanger, size 070/080

Size 080 (Extract air fan size 070 can be selected, see the previous page)

### STE



The lower limit for the air flow when the unit is operating in the air flow regulation mode.

The limit line for Ecodesign is calculated with capacity variant 2 and full face end connection panels (accessories). The mean value for supply air and extract air must be within the limit line. Other values in diagrams are calculated for air handling units with standard end connection panels.

- Recommended working range for sizing.
- Permissible operating range when the fan is controlled to operate at a lower speed. The lower limit for the air flow when the unit is operating in the air flow regulation mode; see the black broken line in the diagram. If pressure regulation is used, the air flow can be regulated to zero, however this presupposes a certain static pressure drop in the ducting (approx. 50 Pa).
- Limit line, Ecodesign, 2018

### Min. and max. airflows

The flows specified refer to those that can be preset in the hand-held terminal. The practical flow limits are determined by the external pressure drop.

Size	Min. airflow (on airflow regulation)		Max. airflow	
	m <sup>3</sup> /h	m <sup>3</sup> /s	m <sup>3</sup> /h	m <sup>3</sup> /s
080	5400	1,50	34200	9,50

### Correction factors, K<sub>OK</sub>, dB

Sound path	Range in diagram	Octave band, no./mid-frequency, Hz							
		63	125	250	500	1000	2000	4000	8000
To the outlet duct	1	-4	-9	-7	-5	-8	-9	-11	-11
	2	-2	-4	-7	-7	-10	-12	-16	-17
To the inlet duct*	1	-9	-10	-10	-21	-29	-32	-36	-33
	2	-4	-3	-10	-22	-31	-34	-41	-38
To unit's surroundings**	1	-15	-23	-30	-26	-41	-42	-45	-42
	2	-9	-18	-30	-28	-43	-45	-50	-48

\* The integral attenuation of filters and rotary heat exchanger has been taken into account.

\*\* Total sound power level emitted to the surroundings is calculated as the sum of the levels in the supply air and the extract air.

# Sizing, Installation, Dimensions and Weights

## GOLD RX, rotary heat exchanger, size 070/080

### Delivery and transport within the site

The GOLD RX 070/080 is supplied in two units, or in a number of different combinations of unit sections from the factory, see the section: Description of the Air Handling Unit/Delivery Configuration RX/PX/CX, sizes 011-080.

The unit sections are jointed together/split by means of bolts. The electrical and control cables between the unit sections have quick-fit connectors

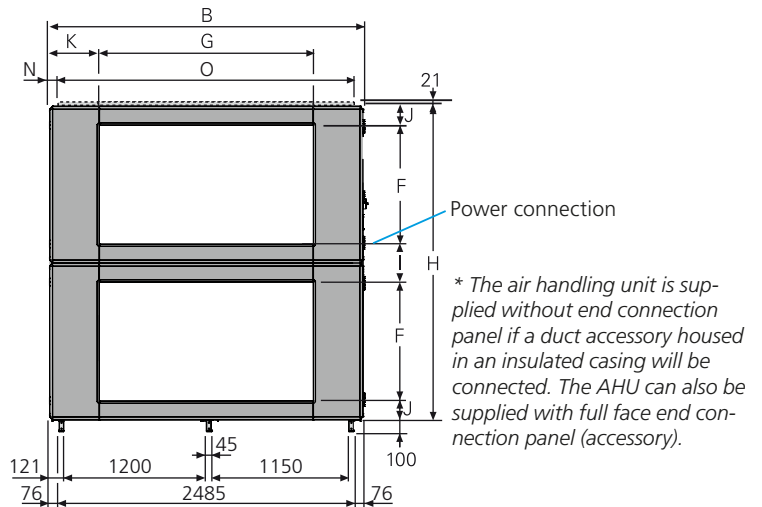
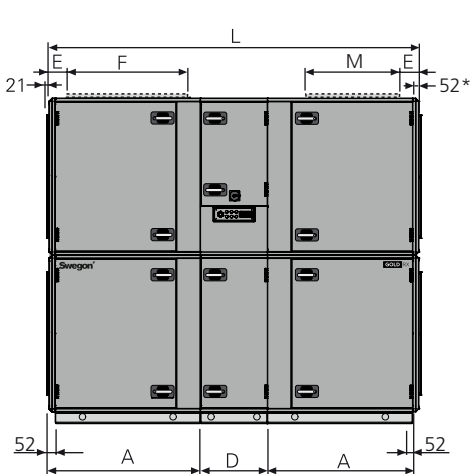
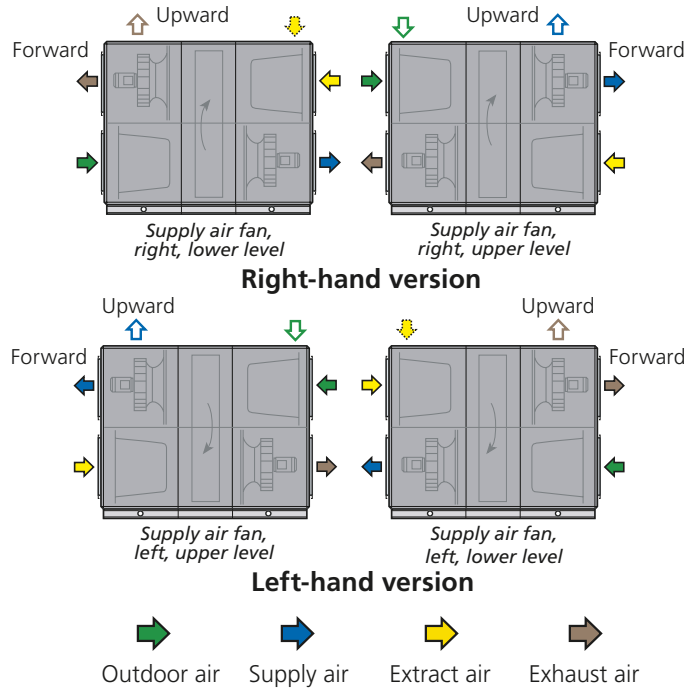
### Duct connection options

**A:** Specify right-hand or left-hand version when ordering. If the air handling unit is supplied with all the end connection panels, the version can be changed at the building site using the hand-held terminal. **Note:** Supply and extract air fans can be selected in different sizes/capacity variants, which must be taken into account.

**B:** The arrangement of the functional sections can be vertically reversed. To be specified when placing an order, see the illustration to the right.

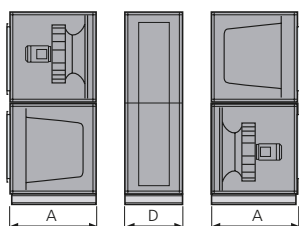
**C:** Specify upper fan outlet for upward air discharge when placing orders (not for outdoor units).

**D:** Specify whether the unit shall have an air intake from above for outdoor air or extract air when placing orders (Does not apply to units installed outdoors). N.B.! Duct connection size: 2,400 x 750 mm.



Size	A	B	D	E	F	G	H	I	J	K	L	M	N	O	Weight, kg
070/080	1273,5	2637	565	162	1000	1800	2640	320	160	418,5	3112	750	118,5	2400	2218-2649

### Division into sections for transport



The unit can be divided into three sections at the building site.

**Dimensions:** See A and D in the table above.

**Weight:** A = 786-956 kg, D = 646-737 kg.

### Clear space for inspection

A clear space of 1,100 mm should be provided in front of the unit.

### Rated data per fan

Size 070: Motor shaft power: 2 x 4.0 kW alt. 2 x 6.5 kW, motor control system, 3 x 400 V, 50 Hz  
 Size 080: Motor shaft power: 2 x 6.5 kW alt. 2 x 10 kW, motor control system: 3 x 400 V, 50 Hz

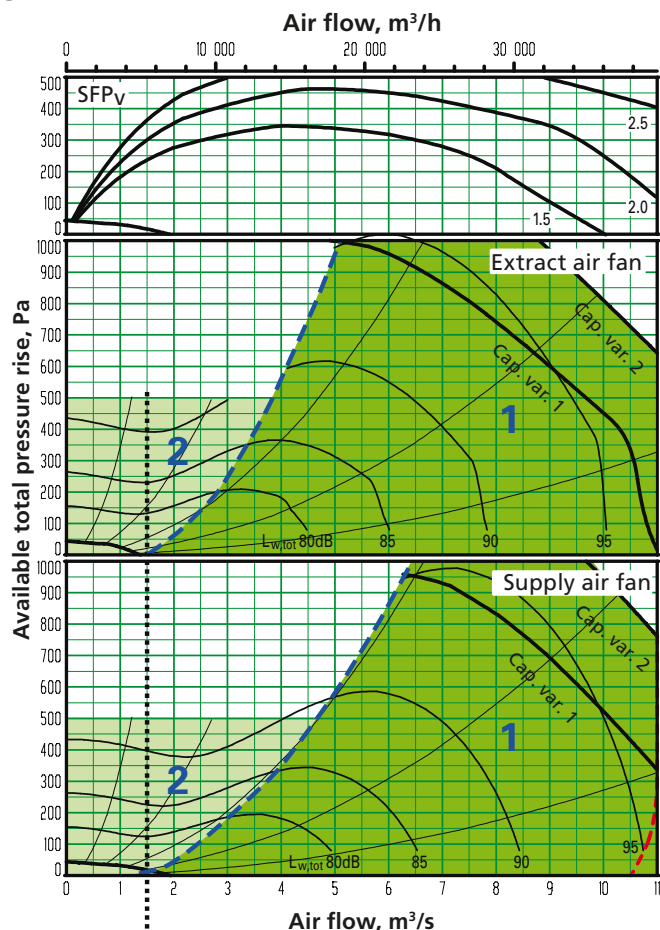
### Electrical connection

See table Electrical data at the end of this section.

# Sizing, Installation, Dimensions and Weights

## GOLD RX, rotary heat exchanger, size 100

### STE



The lower limit for the air flow when the unit is operating in the air flow regulation mode.

The limit line for Ecodesign 2018 is calculated with capacity variant 2 and full face end connection panels (accessories). The mean value for supply air and extract air must be within the limit line. The air handling unit complies with requirements to Ecodesign 2016. Other values in diagrams are calculated for air handling units with standard end connection panels.

- Recommended working range for sizing.
- Permissible operating range when the fan is controlled to operate at a lower speed. The lower limit for the air flow when the unit is operating in the air flow regulation mode; see the black broken line in the diagram. If pressure regulation is used, the air flow can be regulated to zero, however this presupposes a certain static pressure drop in the ducting (approx. 50 Pa).
- Limit line, Ecodesign, 2018

### Min. and max. airflows

The flows specified refer to those that can be preset in the hand-held terminal. The practical flow limits are determined by the external pressure drop.

Size	Min. airflow (on airflow regulation)		Max. airflow	
	m <sup>3</sup> /h	m <sup>3</sup> /s	m <sup>3</sup> /h	m <sup>3</sup> /s
100	5400	1,50	39 600	11,0

### Correction factors, K<sub>OK</sub>, dB

Sound path	Range in the diagram	Octave band, no./mid-frequency, Hz							
		1	2	3	4	5	6	7	8
To the outlet duct	1	-4	-9	-7	-5	-8	-9	-11	-11
	2	-4	-4	-7	-7	-10	-12	-16	-17
To the inlet duct*	1	-9	-10	-10	-21	-29	-32	-36	-33
	2	-4	-3	-10	-22	-31	-34	-41	-38
To air handling unit surroundings**	1	-15	-23	-30	-26	-41	-42	-45	-42
	2	-9	-18	-30	-28	-43	-45	-50	-48

\* The integral attenuation of filters and rotary heat exchanger has been taken into account.

\*\* Total sound power level emitted to the surroundings is calculated as the sum of the levels in the supply air and the extract air.

# Sizing, Installation, Dimensions and Weights

## GOLD RX, rotary heat exchanger, size 100

### Delivery and transport within the site

The GOLD RX 100 is supplied in five separate sections: Two fan sections, two filter sections and one heat exchanger section. The heat exchanger section can also be supplied split into two casing sections and rotor, in which case the rotor is supplied tilted in a transport cradle (transport height = 2,930 mm, minimum transport width = 2,350 mm). After the heat exchanger section has been assembled, if required, the five sections must be installed at the building site.

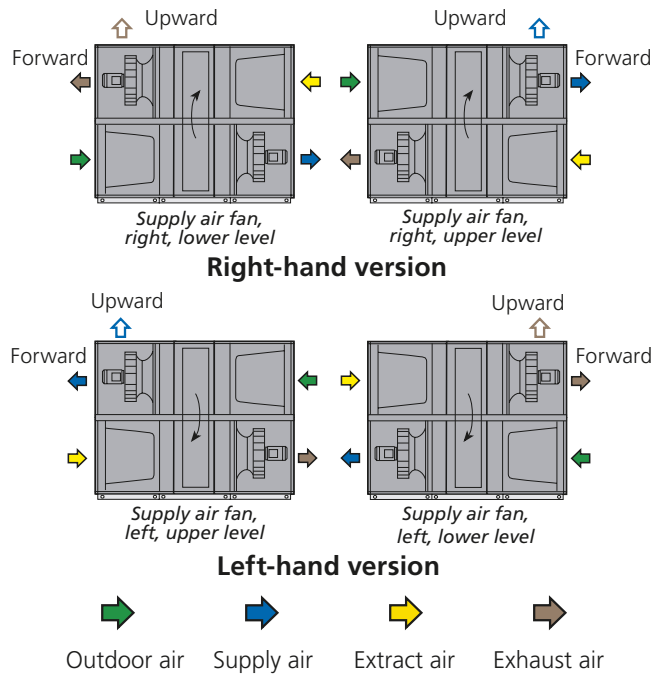
The five sections are joined together by bolts and the electrical and control cabling between the parts have quick-fit connectors.

### Duct connection options

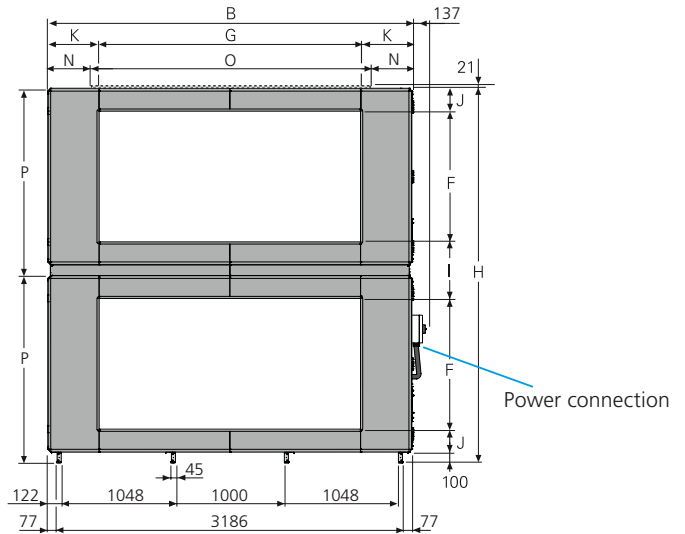
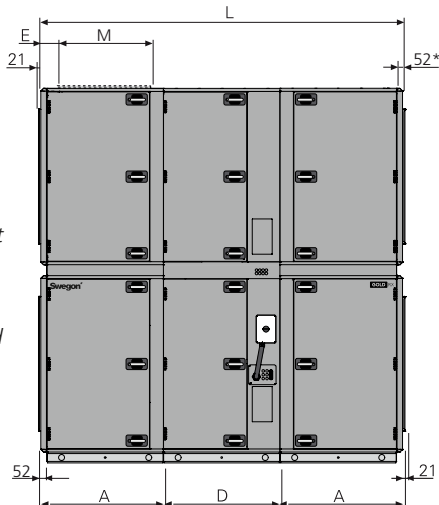
**A:** Specify right-hand or left-hand version when ordering. If the air handling unit is supplied with all the end connection panels, the version can be changed at the building site using the hand-held terminal. **Note:** Supply and extract air fans can be selected in different capacity variants, which must be taken into account.

**B:** The arrangement of the functional sections can be vertically reversed. To be specified when placing an order, see the illustration to the right.

**C:** Specify upper fan outlet for upward air discharge when placing orders (not for outdoor units). N.B.! Duct connection size: 2,500 x 800 mm.



\* The air handling unit is supplied without end connection panel if a duct accessory housed in an insulated casing will be connected. The AHU can also be supplied with full face end connection panel (accessory).



Size	A	B	D	E	F	G	H	I	J	K	L	M	N	O	P	Weight, kg
100	1122	3340	1070	187	1200	2400	3440	520	210	470	3314	800	420	2500	1720	3324-3910

### Transport, dimensions and weights

#### Filter and fan sections

See dimensions A and P in the table above.

Weight: fan section = 644-720 kg, filter section = 402-540 kg.

#### Heat exchanger section, mounted

See dimensions D and H in the table above.

Weight: heat exchanger section = 1232-1390 kg.

#### Heat exchanger section, supplied in two casing sections + rotor

See transport dimensions in the Delivery and at-site transport section above.

Weight: casing lower section = 513 kg, casing upper section = 300 kg, rotor = 428 kg, transport cradle = 190 kg

### Clear space for inspection

A clear space of 1,000 mm should be provided in front of the unit.

### Rated data per fan

Motor shaft power: 2 x 6.5 kW alt. 2 x 10 kW, motor control system: 3 x 400 V, 50 Hz

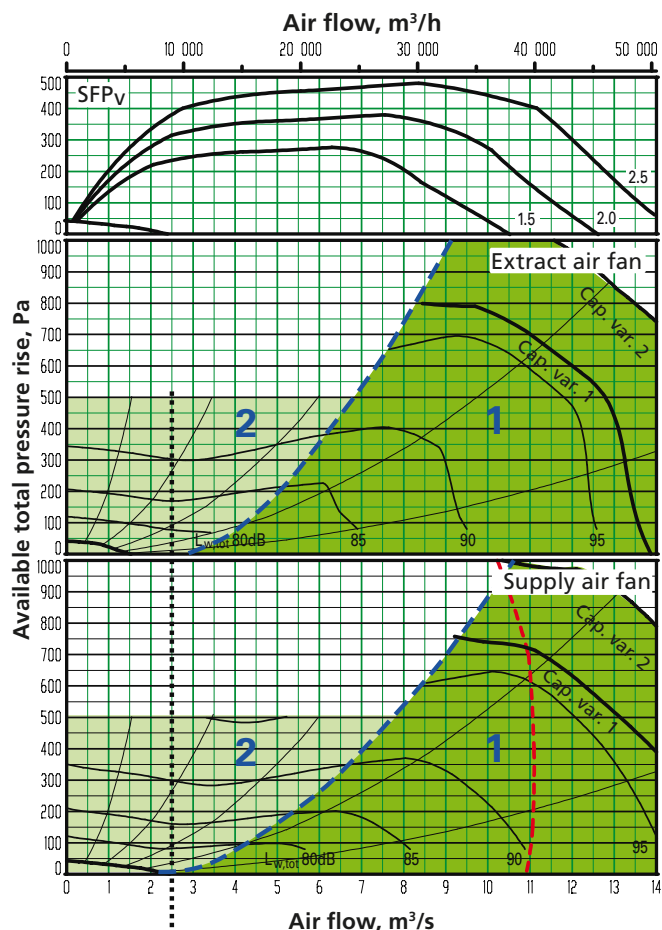
### Electrical connection

See table Electrical data at the end of this section.

# Sizing, Installation, Dimensions and Weights

## GOLD RX, rotary heat exchanger, size 120

### STE



The lower limit for the air flow when the unit is operating in the air flow regulation mode.

The limit line for Ecodesign is calculated with capacity variant 2 and full face end connection panels (accessories). The mean value for supply air and extract air must be within the limit line. Other values in diagrams are calculated for air handling units with standard end connection panels.

- Recommended working range for sizing.
- Permissible operating range when the fan is controlled to operate at a lower speed. The lower limit for the air flow when the unit is operating in the air flow regulation mode; see the black broken line in the diagram. If pressure regulation is used, the air flow can be regulated to zero, however this presupposes a certain static pressure drop in the ducting (approx. 50 Pa).
- Limit line, Ecodesign, 2018

### Min. and max. airflows

The flows specified refer to those that can be preset in the hand-held terminal. The practical flow limits are determined by the external pressure drop.

Size	Min. airflow (on airflow regulation)		Max. airflow	
	m <sup>3</sup> /h	m <sup>3</sup> /s	m <sup>3</sup> /h	m <sup>3</sup> /s
120	9000	2,50	50 400	14.0

### Correction factors, K<sub>OK</sub>, dB

Sound path	Range in the diagram	Octave band, no./mid-frequency, Hz							
		1	2	3	4	5	6	7	8
		63	125	250	500	1000	2000	4000	8000
To the outlet duct	1	-4	-9	-7	-5	-8	-9	-11	-11
	2	-4	-7	-7	-7	-10	-12	-16	-17
To the inlet duct**	1	-9	-10	-10	-21	-29	-32	-36	-33
	2	-4	-3	-10	-22	-31	-34	-41	-38
To air handling unit surroundings**	1	-15	-23	-30	-26	-41	-42	-45	-42
	2	-9	-18	-30	-28	-43	-45	-50	-48

\* The integral attenuation of filters and rotary heat exchanger has been taken into account.

\*\* Total sound power level emitted to the surroundings is calculated as the sum of the levels in the supply air and the extract air.

# Sizing, Installation, Dimensions and Weights

## GOLD RX, rotary heat exchanger, size 120

### Delivery and transport within the site

The GOLD RX 120 is supplied in five separate sections: Two fan sections, two filter sections and one heat exchanger section. The heat exchanger section can also be supplied split into two casing sections and rotor, in which case the rotor is supplied tilted in a transport cradle (transport height = 2,930 mm, minimum transport width = 2,350 mm). After the heat exchanger section has been assembled, if required, the five sections must be installed at the building site.

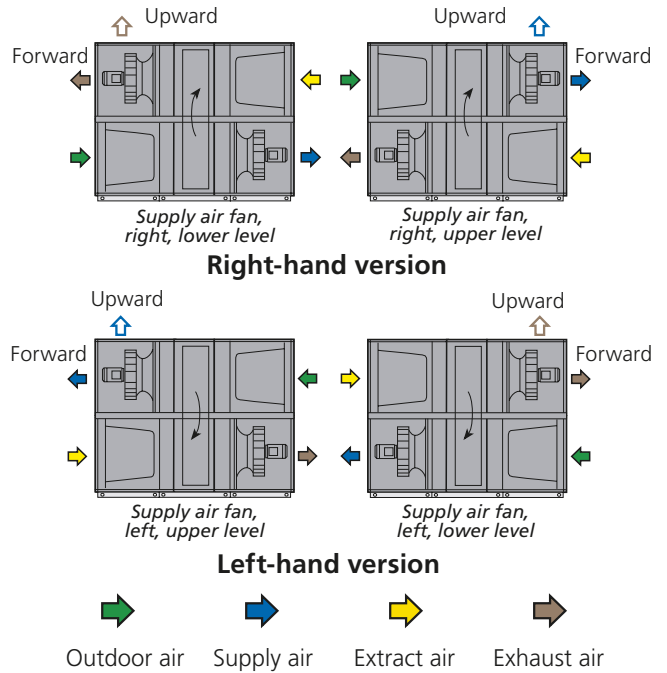
The five sections are joined together by bolts and the electrical and control cabling between the parts have quick-fit connectors.

### Duct connection options

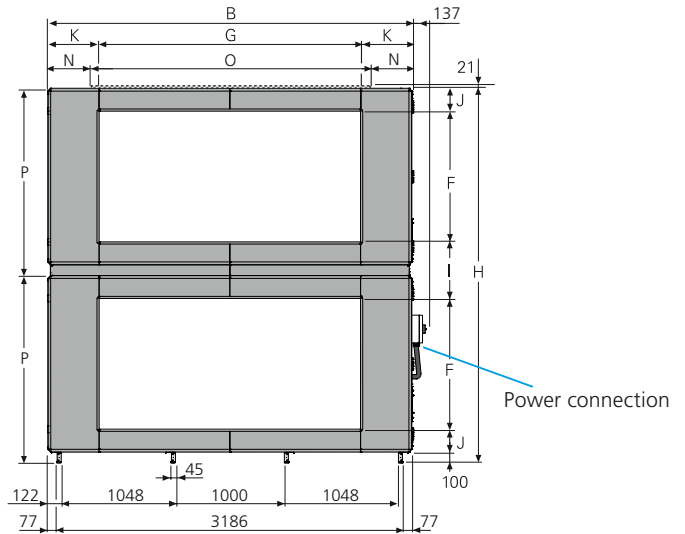
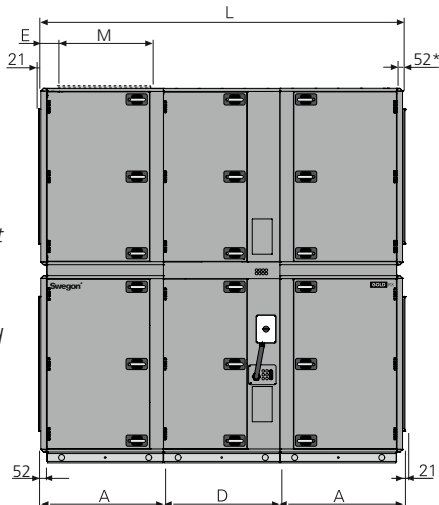
**A:** Specify right-hand or left-hand version when ordering. If the air handling unit is supplied with all the end connection panels, the version can be changed at the building site using the hand-held terminal. **Note:** Supply and extract air fans can be selected in different capacity variants, which must be taken into account.

**B:** The arrangement of the functional sections can be vertically reversed. To be specified when placing an order, see the illustration to the right.

**C:** Specify upper fan outlet for upward air discharge when placing orders (not for outdoor units). N.B.! Duct connection size: 2,500 x 800 mm.



\* The air handling unit is supplied without end connection panel if a duct accessory housed in an insulated casing will be connected. The AHU can also be supplied with full face end connection panel (accessory).



Size	A	B	D	E	F	G	H	I	J	K	L	M	N	O	P	Weight, kg
120	1122	3340	1070	187	1200	2400	3440	520	210	470	3314	800	420	2500	1720	3524-4128

### Transport, dimensions and weights

#### Filter and fan sections

See dimensions A and P in the table above.

Weight: fan section = 744-829 kg, filter section = 402-540 kg.

#### Heat exchanger section, mounted

See dimensions D and H in the table above.

Weight: heat exchanger section = 1232-1390 kg.

#### Heat exchanger section, supplied in two casing sections + rotor

See transport dimensions in the Delivery and at-site transport section above.

Weight: casing lower section = 513 kg, casing upper section = 300 kg, rotor = 428 kg, transport cradle = 190 kg

### Clear space for inspection

A clear space of 1,000 mm should be provided in front of the unit.

### Rated data per fan

Motor shaft power: 3 x 6.5 kW alt. 3 x 10 kW, motor control system: 3 x 400 V, 50 Hz

### Electrical connection

See table Electrical data at the end of this section.

# Sizing, installation, dimensions and weights

## GOLD RX, rotary heat exchanger, size 014 - 040

### Electrical data

Shows the fuse size for different combinations of fan sizes and capacity variants. Fan A or B can be a supply air fan or an extract air fan or vice versa. It is the combination of fan A and B that determines the fuse size.

Electrical connection is 3-phase, 5-wire, 400 V -10/+15%, 50 Hz.

GOLD RX, size	Fan A, size/capacity variant	Fan B, size/capacity variant	Fuse protection (A)
014/020	014-1 (1,6 kW)	014-1 (1,6 kW)	10
	014-1 (1,6 kW)	014-2 (2,4 kW)	10
	014-1 (1,6 kW)	020-1 (2,4 kW)	10
	014-1 (1,6 kW)	020-2 (3,4 kW)	16
	014-2 (2,4 kW)	014-2 (2,4 kW)	10
	014-2 (2,4 kW)	020-1 (2,4 kW)	10
	014-2 (2,4 kW)	020-2 (3,4 kW)	16
	020-1 (2,4 kW)	020-1 (2,4 kW)	10
	020-1 (2,4 kW)	020-2 (3,4 kW)	16
	020-2 (3,4 kW)	020-2 (3,4 kW)	16
025/030	025-1 (2,4 kW)	025-1 (2,4 kW)	10
	025-1 (2,4 kW)	025-2 (3,4 kW)	16
	025-1 (2,4 kW)	030-1 (4,0 kW)	16
	025-1 (2,4 kW)	030-2 (5,0 kW)	16
	025-2 (3,4 kW)	025-2 (3,4 kW)	16
	025-2 (3,4 kW)	030-1 (4,0 kW)	16
	025-2 (3,4 kW)	030-2 (5,0 kW)	20
	030-1 (4,0 kW)	030-1 (4,0 kW)	20
	030-1 (4,0 kW)	030-2 (5,0 kW)	20
	030-2 (5,0 kW)	030-2 (5,0 kW)	20
035/040	35-1 (4,0 kW)	35-1 (4,0 kW)	20
	35-1 (4,0 kW)	35-2 (5,0 kW)	20
	35-1 (4,0 kW)	40-1 (6,5 kW)	25
	35-1 (4,0 kW)	40-2 (10 kW)	25
	35-2 (5,0 kW)	35-2 (5,0 kW)	20
	35-2 (5,0 kW)	40-1 (6,5 kW)	25
	35-2 (5,0 kW)	40-2 (10 kW)	32
	40-1 (6,5 kW)	40-1 (6,5 kW)	25
	40-1 (6,5 kW)	40-2 (10 kW)	32
	40-2 (10 kW)	40-2 (10 kW)	40



## Sizing, installation, dimensions and weights

### GOLD RX, rotary heat exchanger, size 050 - 120

#### Electrical data

Shows the fuse size for different combinations of fan sizes and capacity variants. Fan A or B can be a supply air fan or an extract air fan or vice versa. It is the combination of fan A and B that determines the fuse size.

Electrical connection is 3-phase, 5-wire, 400 V -10/+15%, 50 Hz.

GOLD RX, size	Fan A, size/capacity variant	Fan B, size/capacity variant	Fuse protection (A)
050/060	50-1 (6,5 kW)	50-1 (6,5 kW)	25
	50-1 (6,5 kW)	50-2 (10 kW)	32
	50-1 (6,5 kW)	60-1 (2 x 4,0 kW)	32
	50-1 (6,5 kW)	60-2 (2 x 6,5 kW)	40
	50-2 (10 kW)	50-2 (10 kW)	40
	50-2 (10 kW)	60-1 (2 x 4,0 kW)	40
	50-2 (10 kW)	60-2 (2 x 6,5 kW)	50
	60-1 (2 x 4,0 kW)	60-1 (2 x 4,0 kW)	32
	60-1 (2 x 4,0 kW)	60-2 (2 x 6,5 kW)	40
	60-2 (2 x 6,5 kW)	60-2 (2 x 6,5 kW)	50
070/080	70-1 (2 x 4,0 kW)	70-1 (2 x 4,0 kW)	32
	70-1 (2 x 4,0 kW)	70-2 (2 x 6,5 kW)	40
	70-1 (2 x 4,0 kW)	80-1 (2 x 6,5 kW)	40
	70-1 (2 x 4,0 kW)	80-2 (2 x 10 kW)	50
	70-2 (2 x 6,5 kW)	70-2 (2 x 6,5 kW)	50
	70-2 (2 x 6,5 kW)	80-1 (2 x 6,5 kW)	50
	70-2 (2 x 6,5 kW)	80-2 (2 x 10 kW)	63
	80-1 (2 x 6,5 kW)	80-1 (2 x 6,5 kW)	50
	80-1 (2 x 6,5 kW)	80-2 (2 x 10 kW)	63
	80-2 (2 x 10 kW)	80-2 (2 x 10 kW)	80
100	100-1 (2 x 6,5 kW)	100-1 (2 x 6,5 kW)	50
	100-1 (2 x 6,5 kW)	100-2 (2 x 10 kW)	63
	100-2 (2 x 10 kW)	100-2 (2 x 10 kW)	80
120	120-1 (3 x 6,5 kW)	120-1 (3 x 6,5 kW)	80
	120-1 (3 x 6,5 kW)	120-2 (3 x 10 kW)	100
	120-2 (3 x 10 kW)	120-2 (3 x 10 kW)	125

