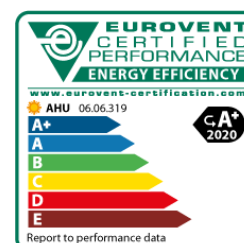


Project: 300 Brook Drive
Unit name: 3 - AHU07 - Design data

Date: 13/11/2023
35 / 1.0.20231004.1111558
Unit ID: AD-10001591931

GOLD F SD CX SA EA
Manufactured by Swegon, Kvänum, Sweden

Dimensioning data		3
Unit size		014
Air density		1.200 kg/m ³
Supply air flow		1.042 m ³ /s
Static pressure drop	Outdoor air duct	0 Pa
	Supply air duct	250 Pa
Extract air flow		1.042 m ³ /s
Static pressure drop	Extract air duct	250 Pa
	Exhaust air duct	0 Pa
Climate data	London Weather C.,	Great Britain
Weather station, reference	LONDON CITY,	Great Britain
Design outdoor temperature, summer		31.0 °C
Design outdoor humidity, summer		50 %
Design outdoor temperature, winter		-5.0 °C
Design outdoor humidity, winter		100 %
Supply air temperature, summer		31.7 °C
Supply air temperature, winter		21.0 °C



Key Performance Data		
Specific fan power SFPv	With clean filter and including effect of OACF & EATR	1.39 kW/(m ³ /s)
Supply air dry temp. efficiency ratio (+5/+25°C)		71.9 %
Eurovent Energy Efficiency Class	Summer: A+ G 2020	Winter: A+ 2016
Eurovent; Fs_Pref:	Summer: 0.87	Winter: 0.87
ErP Commission Regulation (EU) No 1253/2014		Compliant 2018

Project: 300 Brook Drive
Unit name: 3 - AHU07 - Design data

Date: 13/11/2023
35 / 1.0.20231004.1111558
Unit ID: AD-10001591931

Casing	
Construction	Frameless, double skinned panels with mineral wool insulation
Panels	52mm thick with 1mm thick steel sheet inside and out. Outer sheet with grey painted finish
Thermal insulation class	T2
Thermal bridging class	TB2
Casing leakage class	L1(M) / L2(R) according to EN 1886:2007 at -400 Pa and +700 Pa
Casing strength	D1(M)
Hygiene	Compliant with the requirements of VDI 6022
Insulating material	Version F, casing 3: Standard

Electrical connections	
GOLD F SD CX SA EA Supply air	3-phase, 5-wire, 400 V-10/+15%, 50 Hz, 10 A
GOLD F SD CX SA EA Extract air	3-phase, 5-wire, 400 V-10/+15%, 50 Hz, 10 A

Functional sections viewed in the direction of air flow	Velocity m/s	Air Temperature in/out Winter °C	Air Temperature in/out Summer °C	Power kW	Design Pressure drop Pa	Noise Level dB(A)
Outdoor air duct					-0	65
Damper					-1	
End section					-3	
Filter	1.21				-85	
Coil heat exchanger	1.33	-5.0/13.9	31.0/31.0		-116	
Fan				0.849	497	
End section					-6	
Heating coil, water	2.60	14.6/21.0		8.10	-36	
Supply air duct					-250	77
Extract air duct					-250	65
End section					-3	
Filter	1.21				-43	
Coil heat exchanger	1.33	22.0/3.1	25.0/25.0		-116	
Fan				0.712	419	
End section					-6	
Damper					-1	
Exhaust air duct					-0	79

Sound power to duct, measured according to ISO 5136
Noise reduction for function section included to duct.
Sound power emitted to surroundings, measured according to ISO 3741

Project: 300 Brook Drive
Unit name: 3 - AHU07 - Design data

Date: 13/11/2023
35 / 1.0.20231004.1111558
Unit ID: AD-10001591931

Frequency band	63	125	250	500	1k	2k	4k	8k	All		
To supply air duct	79	74	73	71	72	71	66	63	dB	77	dB(A)
To outdoor air duct	74	72	71	59	51	50	44	45	dB	65	dB(A)
To extract air duct	73	71	71	58	50	50	47	48	dB	65	dB(A)
To exhaust air duct	79	74	74	72	73	73	68	65	dB	79	dB(A)
To surroundings	72	64	55	55	44	44	38	38	dB	55	dB(A)

GOLD-Unit with control system

Components are arranged according to airflow direction

Quantity

Supply air

1

Damper, TBSA-6-100-040-1-1

Damper motor: With spring return

Damper blade: Uninsulated

Static pressure drop

1 Pa

Quantity	Product	Article name
1	Weather protection for damper actuator	TBLZ-1-45

1

End section, outdoor air

Static pressure drop

3 Pa

1

Filter

Filter class ePM1 50% (F7)

2x(592x592x520-10)

Velocity in the filter section

1.21 m/s

Recommended design pressure drop

85 Pa

Initial pressure drop

42 Pa

Final pressure drop

127 Pa

1

Coil heat exchanger, G014F3SDP01

No. of tube rows

12

No. of circuits

3

Nom. pipe connection, coil

25 ext.

Fin spacing

2.0 mm

Air side

Pressure drop

116 Pa

Air velocity

1.33 m/s

Outdoor Air Correction Factor, OACF

1.00

Exhaust Air Transfer Ratio, EATR

< 0.1 %

Supply air dry temp. efficiency ratio (+5/+25°C)

71.9 %

Supply air dry temp. efficiency at balanced airflows (design temp.)

69.9 %

Project: 300 Brook Drive
Unit name: 3 - AHU07 - Design data

Date: 13/11/2023
35 / 1.0.20231004.1111558
Unit ID: AD-10001591931

Annual energy efficiency, dry conditions	86.3 %
Annual energy efficiency	86.3 %
LOT without freezing	-5.0 °C
Temperature efficiency, supply air, summer	

Outdoor temperature	Temperature efficiency of supply air according to EN308
-5.0 °C	70.1 %
0.0 °C	70.8 %
5.0 °C	71.3 %
10.0 °C	71.8 %
15.0 °C	72.2 %
20.0 °C	72.6 %

Supply air side, winter	In	Out	
Air temperature	-5.0	13.9	°C
Relative humidity	100	26	%
Heating power		23.91	kW

Extract air side, winter	In	Out	
Air temperature	22.0	3.1	°C
Relative humidity	20	69	%

Supply air side, summer	In	Out	
Air temperature	31.0	31.0	°C
Relative humidity	50	50	%

Extract air side, summer	In	Out	
Air temperature	25.0	25.0	°C
Relative humidity	50	50	%

Amount of drained water, extract air, winter -0.000 l/min

Liquid side

Flow of liquid	0.413 l/s
Liquid velocity	
Total sum of liquid pressure losses	149.4 kPa
Total sum of coil liquid volumes	106 l
Recommended lowest set value of shunt temperature	1.0 °C
Ethylene-glycol	30 %/kg

Quantity	Product	Article name
1	Shunt unit, GOLD SD	TBXZ-5-42-020

1

Fan

Fan of type GOLD Wing+ Fan size: 14
Withdrawable fan with integrated airflow measurement

Project: 300 Brook Drive
Unit name: 3 - AHU07 - Design data

Date: 13/11/2023
35 / 1.0.20231004.1111558
Unit ID: AD-10001591931

Direct drive with speed controlled EC motor. Efficiency class corresponding to IE5	
Isolated with internal flexible connection and rubber anti-vibration mounting	
Standard connection, internal	
Supply air flow	1.042 m³/s
The fan system effect is included in the fan performances	
Design static pressure (wet conditions)	497 Pa
Static pressure rise in the SFPv calculation	454 Pa
Temperature rise caused by the fan	0.7 °C
Min speed	300 rpm
Speed in the SFPv calculation	1,709 rpm
Design speed	1,761 rpm
Max speed	2,250 rpm
Design electric power to motor(s)	0.849 kW
Electric power to motor(s) in the SFPv calculation	0.772 kW
Rated motor power/motor	1.600 kW
Motor option	1
Motor code	DOMEL 751.3.201-401
Number of fans/motors in the air stream	1
Overall static efficiency drive	61.0 %
Maximum motor efficiency (incl. motor control 92.0%)	94.0 %
Efficiency grade; FMEG, plenum fan, incl. motor control	75.00
Regulation(EU)No 327/2011 overall efficiency	67.5 %
Specific fan power efficiency	0.74 kW/(m³/s)

Frequency band	63	125	250	500	1k	2k	4k	8k		All	
To supply air duct	79	74	73	71	72	71	66	63	dB	77	dB(A)
To outdoor air duct	74	72	71	59	51	50	44	45	dB	65	dB(A)
To surroundings	69	61	52	52	41	41	35	35	dB	53	dB(A)
To surroundings incl. exh. air	72	64	55	55	44	44	38	38	dB	55	dB(A)

1 End section, supply air

Static pressure drop	6 Pa
----------------------	------

1 Heating coil, water, TBLA-5-100-040-2-2

Valve kit heating/cooling	
Incl. actuator, freeze guard sensor, connection cable and valve (kvs = 4)	
Capacity variant	2
No.of tube rows	3
No.of circuits	9
Nom. pipe connection, coil	20 ext.
Fin spacing	2.5 mm
Pressure drop	36 Pa

Project: 300 Brook Drive
Unit name: 3 - AHU07 - Design data

Date: 13/11/2023
35 / 1.0.20231004.1111558
Unit ID: AD-10001591931

Air velocity 2.60 m/s

	In	Out	
Air temperature	14.6	21.0	°C
Relative humidity	25	17	%

Required coil capacity 8.10 kW

Excess capacity of the coil 136 %

	In	Out	
Liquid temperature	45.0	40.0	°C

Flow of liquid 0.391 l/s

Liquid velocity 0.87 m/s

Liquid pressure drop 13.4 kPa

Liquid volume of the coil 3 l

Nom. pipe connection size, valve 15 DN

Liquid pressure drop, open valve 12.4 kPa

Quantity	Product	Article name
1	Valve kit, heating and cooling	TBVL-3-040-1

Quantity

Extract air

1	End section, extract air	
	Static pressure drop	3 Pa
1	Filter	
	Filter class ePM10 60% (M5)	
	2x(592x592x520-10)	
	Velocity in the filter section	1.21 m/s
	Recommended design pressure drop	43 Pa
	Initial pressure drop	21 Pa
	Final pressure drop	64 Pa
1	Coil heat exchanger, G014F3SDP01	
	No.of tube rows	12
	No.of circuits	3
	Nom. pipe connection, coil	25 ext.
	Fin spacing	2.0 mm
	Pressure drop, dry	116 Pa
	Pressure drop, wet	116 Pa
	Air velocity	1.33 m/s
	Accessories and other technical data, see supply air	

Project: 300 Brook Drive
Unit name: 3 - AHU07 - Design data

Date: 13/11/2023
35 / 1.0.20231004.1111558
Unit ID: AD-10001591931

1

Fan

Fan of type GOLD Wing+

Fan size: 14

Withdrawable fan with integrated airflow measurement

Direct drive with speed controlled EC motor. Efficiency class corresponding to IE5

Isolated with internal flexible connection and rubber anti-vibration mounting

Standard connection, internal

Extract air flow

1.042 m³/s

The fan system effect is included in the fan performances

Design static pressure (wet conditions)

419 Pa

Static pressure rise in the SFPv calculation

398 Pa

Temperature rise caused by the fan

0.6 °C

Min speed

300 rpm

Speed in the SFPv calculation

1,640 rpm

Design speed

1,667 rpm

Max speed

2,250 rpm

Design electric power to motor(s)

0.712 kW

Electric power to motor(s) in the SFPv calculation

0.675 kW

Rated motor power/motor

1.600 kW

Motor option

1

Motor code

DOMEL 751.3.201-401

Number of fans/motors in the air stream

1

Overall static efficiency drive

61.3 %

Maximum motor efficiency (incl. motor control 92.0%)

94.0 %

Efficiency grade; FMEG, plenum fan, incl. motor control

75.00

Regulation(EU)No 327/2011 overall efficiency

67.5 %

Specific fan power efficiency

0.65 kW/(m³/s)

Frequency band	63	125	250	500	1k	2k	4k	8k	All		
To extract air duct	73	71	71	58	50	50	47	48	dB	65	dB(A)
To exhaust air duct	79	74	74	72	73	73	68	65	dB	79	dB(A)
To surroundings	68	60	51	51	40	40	34	34	dB	52	dB(A)

1

End section, exhaust air

Static pressure drop

6 Pa

1

Damper, TBSA-6-100-040-1-1

Damper motor: With spring return

Damper blade: Uninsulated

Static pressure drop

1 Pa

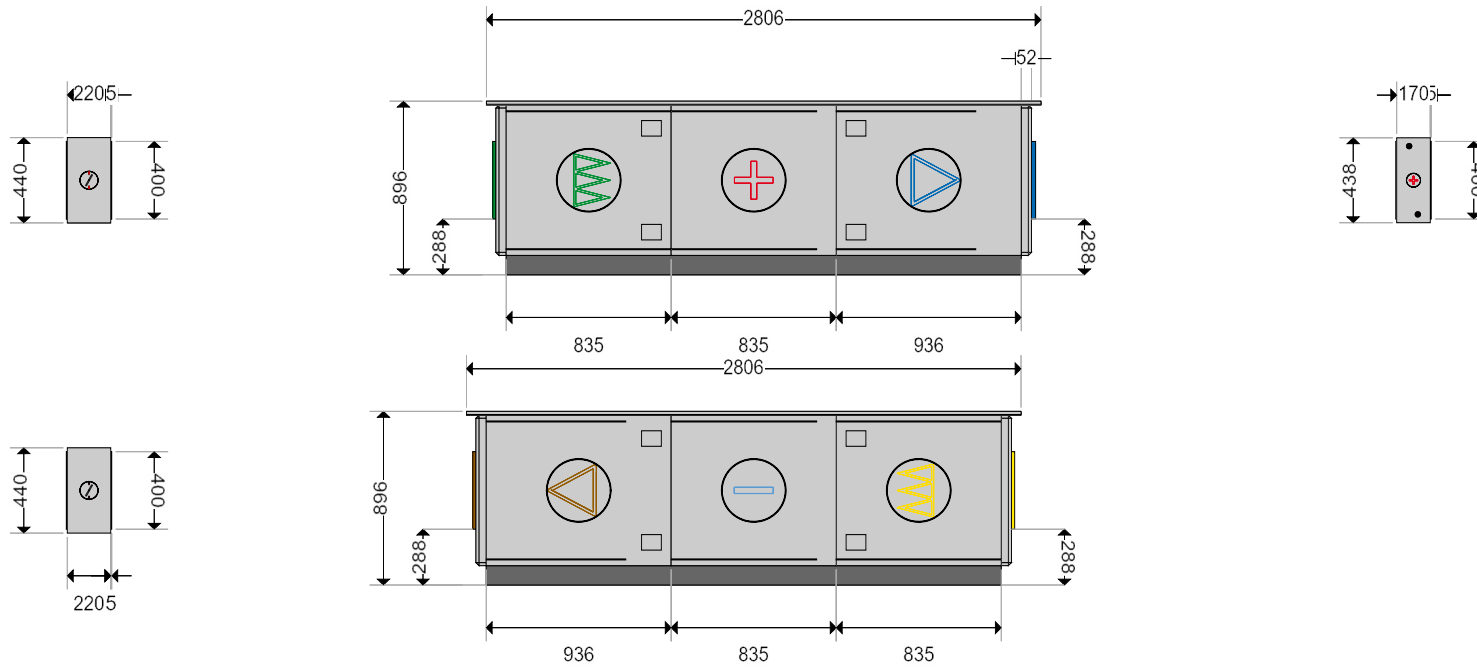
Project: 300 Brook Drive
Unit name: 3 - AHU07 - Design data

Date: 13/11/2023
35 / 1.0.20231004.1111558
Unit ID: AD-10001591931

Quantity	Product	Article name
1	Weather protection for damper actuator	TBLZ-1-45

Quantity	Accessories
1	IQlogic plus (medium) <i>TBIQ3201</i>
1	Roof for outdoor installation <i>TBTB6020SD</i>

AHU Design
Sketch: Inspection side



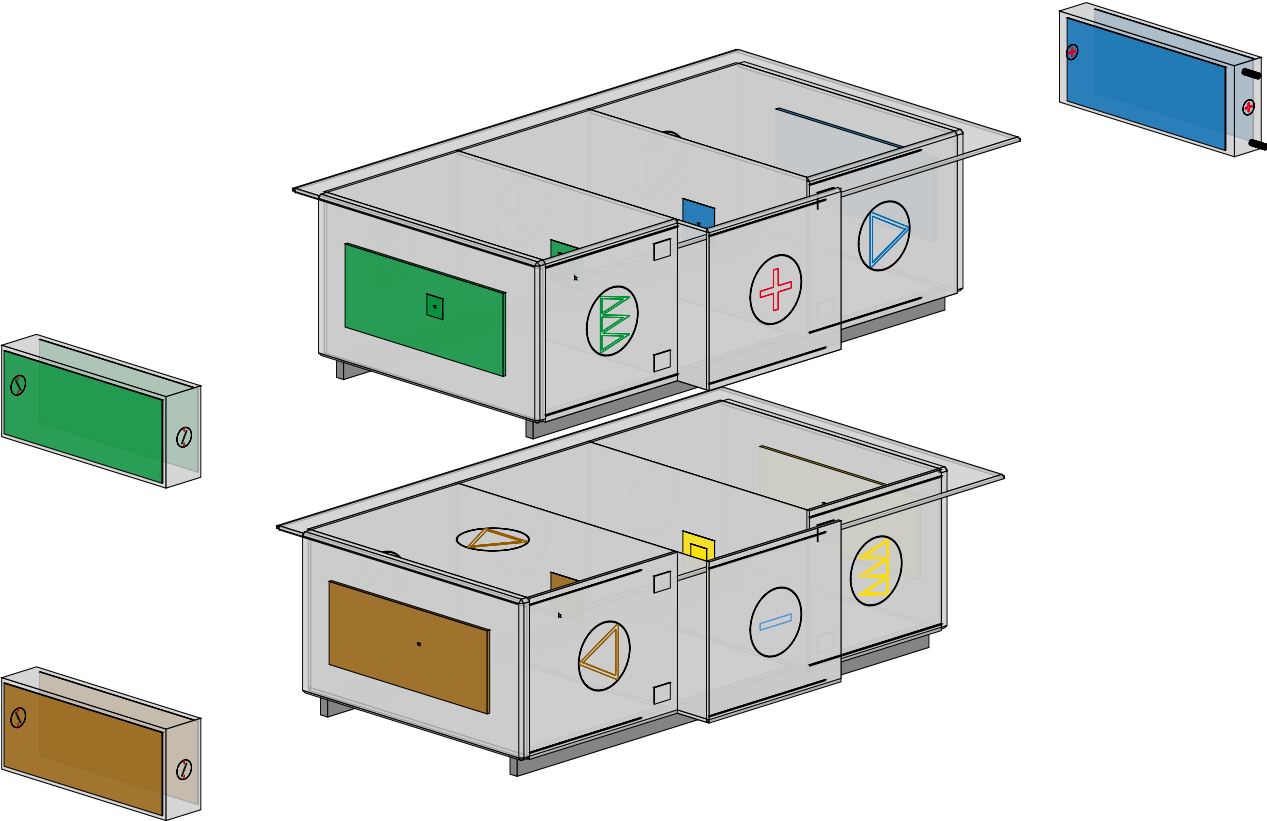
GOLD F SD CX SA EA	
Unit size	014
Total weight, supply air	539 kg
Total weight, extract air	545 kg
Duct Component Weight	58 kg
Length, supply air max	2,747 mm
Length, extract air max	2,742 mm
Height, max	876 mm
Width, max	1,600 mm

Connection size		
outdoor air	1,000 x 400	mm
exhaust air	1,000 x 400	mm
supply air	1,000 x 400	mm
extract air	1,000 x 400	mm

Project: 300 Brook Drive
Unit name: 3 - AHU07
Unit ID: AD-10001591931
35 / 1.0.20231004.1111558
Date: 13/11/2023



AHU Design
Sketch: Above left



GOLD F SD CX SA EA

Unit size	014
Total weight, supply air	539 kg
Total weight, extract air	545 kg
Duct Component Weight	58 kg
Length, supply air max	2,747 mm
Length, extract air max	2,742 mm
Height, max	876 mm
Width, max	1,600 mm

Connection size

outdoor air	1,000 x 400 mm
exhaust air	1,000 x 400 mm
supply air	1,000 x 400 mm
extract air	1,000 x 400 mm

Project: 300 Brook Drive
Unit name: 3 - AHU07
Unit ID: AD-10001591931
35 / 1.0.20231004.1111558
Date: 13/11/2023

- Outdoor air
- Supply air
- Extract air
- Exhaust air

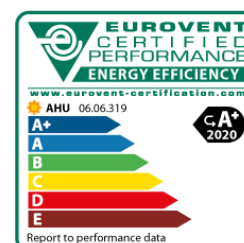


Project: 300 Brook Drive
Unit name: 4 - AHU08 - Design data

Date: 13/11/2023
35 / 1.0.20231004.1111558
Unit ID: AD-10001591935

GOLD F SD CX SA EA
Manufactured by Swegon, Kvänum, Sweden

Dimensioning data		4
Unit size		014
Air density		1.200 kg/m ³
Supply air flow		1.083 m ³ /s
Static pressure drop	Outdoor air duct	0 Pa
	Supply air duct	250 Pa
Extract air flow		1.083 m ³ /s
Static pressure drop	Extract air duct	250 Pa
	Exhaust air duct	0 Pa
Climate data	London Weather C.,	Great Britain
Weather station, reference	LONDON CITY,	Great Britain
Design outdoor temperature, summer		31.0 °C
Design outdoor humidity, summer		50 %
Design outdoor temperature, winter		-5.0 °C
Design outdoor humidity, winter		100 %
Supply air temperature, summer		31.7 °C
Supply air temperature, winter		21.0 °C



Key Performance Data		
Specific fan power SFPv	With clean filter and including effect of OACF & EATR	1.42 kW/(m ³ /s)
Supply air dry temp. efficiency ratio (+5/+25°C)		71.8 %
Eurovent Energy Efficiency Class	Summer: A+ G 2020	Winter: A+ 2016
Eurovent; Fs_Pref:	Summer: 0.89	Winter: 0.89
ErP Commission Regulation (EU) No 1253/2014		Compliant 2018

Project: 300 Brook Drive
Unit name: 4 - AHU08 - Design data

Date: 13/11/2023
35 / 1.0.20231004.1111558
Unit ID: AD-10001591935

Casing	
Construction	Frameless, double skinned panels with mineral wool insulation
Panels	52mm thick with 1mm thick steel sheet inside and out. Outer sheet with grey painted finish
Thermal insulation class	T2
Thermal bridging class	TB2
Casing leakage class	L1(M) / L2(R) according to EN 1886:2007 at -400 Pa and +700 Pa
Casing strength	D1(M)
Hygiene	Compliant with the requirements of VDI 6022
Insulating material	Version F, casing 3: Standard

Electrical connections	
GOLD F SD CX SA EA Supply air	3-phase, 5-wire, 400 V-10/+15%, 50 Hz, 10 A
GOLD F SD CX SA EA Extract air	3-phase, 5-wire, 400 V-10/+15%, 50 Hz, 10 A

Functional sections viewed in the direction of air flow	Velocity m/s	Air Temperature in/out Winter °C	Air Temperature in/out Summer °C	Power kW	Design Pressure drop Pa	Noise Level dB(A)
Outdoor air duct					-0	65
Damper					-1	
End section					-4	
Filter	1.25				-89	
Coil heat exchanger	1.38	-5.0/13.9	31.0/31.0		-123	
Fan				0.904	511	
End section					-6	
Heating coil, water	2.71	14.6/21.0		8.40	-38	
Supply air duct					-250	78
Extract air duct					-250	65
End section					-4	
Filter	1.25				-45	
Coil heat exchanger	1.38	22.0/3.1	25.0/25.0		-123	
Fan				0.756	429	
End section					-6	
Damper					-1	
Exhaust air duct					-0	79

Sound power to duct, measured according to ISO 5136
Noise reduction for function section included to duct.
Sound power emitted to surroundings, measured according to ISO 3741

Project: 300 Brook Drive
Unit name: 4 - AHU08 - Design data

Date: 13/11/2023
35 / 1.0.20231004.1111558
Unit ID: AD-10001591935

Frequency band	63	125	250	500	1k	2k	4k	8k	All	
To supply air duct	80	75	74	72	73	72	67	64	dB	78 dB(A)
To outdoor air duct	75	73	72	60	52	51	45	46	dB	65 dB(A)
To extract air duct	74	72	72	59	51	51	48	49	dB	65 dB(A)
To exhaust air duct	80	75	75	73	74	74	69	66	dB	79 dB(A)
To surroundings	72	64	55	55	44	44	38	38	dB	56 dB(A)

GOLD-Unit with control system

Components are arranged according to airflow direction

Quantity

Supply air

1

Damper, TBSA-6-100-040-1-1

Damper motor: With spring return

Damper blade: Uninsulated

Static pressure drop

1 Pa

Quantity	Product	Article name
1	Weather protection for damper actuator	TBLZ-1-45

1

End section, outdoor air

Static pressure drop

4 Pa

1

Filter

Filter class ePM1 50% (F7)

2x(592x592x520-10)

Velocity in the filter section

1.25 m/s

Recommended design pressure drop

89 Pa

Initial pressure drop

44 Pa

Final pressure drop

133 Pa

1

Coil heat exchanger, G014F3SDP01

No. of tube rows

12

No. of circuits

3

Nom. pipe connection, coil

25 ext.

Fin spacing

2.0 mm

Air side

Pressure drop

123 Pa

Air velocity

1.38 m/s

Outdoor Air Correction Factor, OACF

1.00

Exhaust Air Transfer Ratio, EATR

< 0.1 %

Supply air dry temp. efficiency ratio (+5/+25°C)

71.8 %

Supply air dry temp. efficiency at balanced airflows (design temp.)

69.9 %

Project: 300 Brook Drive
Unit name: 4 - AHU08 - Design data

Date: 13/11/2023
35 / 1.0.20231004.1111558
Unit ID: AD-10001591935

Annual energy efficiency, dry conditions 86.4 %
Annual energy efficiency 86.4 %
LOT without freezing -5.0 °C
Temperature efficiency, supply air, summer

Outdoor temperature	Temperature efficiency of supply air according to EN308
-5.0 °C	70.0 %
0.0 °C	70.7 %
5.0 °C	71.3 %
10.0 °C	71.7 %
15.0 °C	72.1 %
20.0 °C	72.5 %

Supply air side, winter	In	Out	
Air temperature	-5.0	13.9	°C
Relative humidity	100	26	%
Heating power		24.85	kW

Extract air side, winter	In	Out	
Air temperature	22.0	3.1	°C
Relative humidity	20	69	%

Supply air side, summer	In	Out	
Air temperature	31.0	31.0	°C
Relative humidity	50	50	%

Extract air side, summer	In	Out	
Air temperature	25.0	25.0	°C
Relative humidity	50	50	%

Amount of drained water, extract air, winter -0.000 l/min

Liquid side

Flow of liquid 0.428 l/s
Liquid velocity
Total sum of liquid pressure losses 159.6 kPa
Total sum of coil liquid volumes 106 l
Recommended lowest set value of shunt temperature 1.0 °C
Ethylene-glycol 30 %/kg

Quantity	Product	Article name
1	Shunt unit, GOLD SD	TBXZ-5-42-020

1

Fan

Fan of type GOLD Wing+
Withdrawable fan with integrated airflow measurement

Fan size: 14

Project: 300 Brook Drive
Unit name: 4 - AHU08 - Design data

Date: 13/11/2023
35 / 1.0.20231004.1111558
Unit ID: AD-10001591935

Direct drive with speed controlled EC motor. Efficiency class corresponding to IE5	
Isolated with internal flexible connection and rubber anti-vibration mounting	
Standard connection, internal	
Supply air flow	1.083 m³/s
The fan system effect is included in the fan performances	
Design static pressure (wet conditions)	511 Pa
Static pressure rise in the SFPv calculation	467 Pa
Temperature rise caused by the fan	0.7 °C
Min speed	300 rpm
Speed in the SFPv calculation	1,748 rpm
Design speed	1,801 rpm
Max speed	2,250 rpm
Design electric power to motor(s)	0.904 kW
Electric power to motor(s) in the SFPv calculation	0.822 kW
Rated motor power/motor	1.600 kW
Motor option	1
Motor code	DOMEL 751.3.201-401
Number of fans/motors in the air stream	1
Overall static efficiency drive	61.2 %
Maximum motor efficiency (incl. motor control 92.0%)	94.0 %
Efficiency grade; FMEG, plenum fan, incl. motor control	75.00
Regulation(EU)No 327/2011 overall efficiency	67.5 %
Specific fan power efficiency	0.76 kW/(m³/s)

Frequency band	63	125	250	500	1k	2k	4k	8k		All	
To supply air duct	80	75	74	72	73	72	67	64	dB	78	dB(A)
To outdoor air duct	75	73	72	60	52	51	45	46	dB	65	dB(A)
To surroundings	70	62	53	53	42	42	36	36	dB	53	dB(A)
To surroundings incl. exh. air	72	64	55	55	44	44	38	38	dB	56	dB(A)

1 End section, supply air

Static pressure drop	6 Pa
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1 Heating coil, water, TBLA-5-100-040-2-2

Valve kit heating/cooling	
Incl. actuator, freeze guard sensor, connection cable and valve (kvs = 4)	
Capacity variant	2
No.of tube rows	3
No.of circuits	9
Nom. pipe connection, coil	20 ext.
Fin spacing	2.5 mm
Pressure drop	38 Pa

Project: 300 Brook Drive
Unit name: 4 - AHU08 - Design data

Date: 13/11/2023
35 / 1.0.20231004.1111558
Unit ID: AD-10001591935

Air velocity 2.71 m/s

	In	Out	
Air temperature	14.6	21.0	°C
Relative humidity	25	17	%

Required coil capacity 8.40 kW

Excess capacity of the coil 133 %

	In	Out	
Liquid temperature	45.0	40.0	°C

Flow of liquid 0.406 l/s

Liquid velocity 0.91 m/s

Liquid pressure drop 14.4 kPa

Liquid volume of the coil 3 l

Nom. pipe connection size, valve 15 DN

Liquid pressure drop, open valve 13.4 kPa

Quantity	Product	Article name
1	Valve kit, heating and cooling	TBVL-3-040-1

Quantity

Extract air

1	End section, extract air	
	Static pressure drop	4 Pa
1	Filter	
	Filter class ePM10 60% (M5)	
	2x(592x592x520-10)	
	Velocity in the filter section	1.25 m/s
	Recommended design pressure drop	45 Pa
	Initial pressure drop	22 Pa
	Final pressure drop	67 Pa
1	Coil heat exchanger, G014F3SDP01	
	No.of tube rows	12
	No.of circuits	3
	Nom. pipe connection, coil	25 ext.
	Fin spacing	2.0 mm
	Pressure drop, dry	123 Pa
	Pressure drop, wet	123 Pa
	Air velocity	1.38 m/s
	Accessories and other technical data, see supply air	

Project: 300 Brook Drive
Unit name: 4 - AHU08 - Design data

Date: 13/11/2023
35 / 1.0.20231004.1111558
Unit ID: AD-10001591935

1

Fan

Fan of type GOLD Wing+

Fan size: 14

Withdrawable fan with integrated airflow measurement

Direct drive with speed controlled EC motor. Efficiency class corresponding to IE5

Isolated with internal flexible connection and rubber anti-vibration mounting

Standard connection, internal

Extract air flow

1.083 m³/s

The fan system effect is included in the fan performances

Design static pressure (wet conditions)

429 Pa

Static pressure rise in the SFPv calculation

407 Pa

Temperature rise caused by the fan

0.6 °C

Min speed

300 rpm

Speed in the SFPv calculation

1,677 rpm

Design speed

1,704 rpm

Max speed

2,250 rpm

Design electric power to motor(s)

0.756 kW

Electric power to motor(s) in the SFPv calculation

0.716 kW

Rated motor power/motor

1.600 kW

Motor option

1

Motor code

DOMEL 751.3.201-401

Number of fans/motors in the air stream

1

Overall static efficiency drive

61.5 %

Maximum motor efficiency (incl. motor control 92.0%)

94.0 %

Efficiency grade; FMEG, plenum fan, incl. motor control

75.00

Regulation(EU)No 327/2011 overall efficiency

67.5 %

Specific fan power efficiency

0.66 kW/(m³/s)

Frequency band	63	125	250	500	1k	2k	4k	8k	All		
To extract air duct	74	72	72	59	51	51	48	49	dB	65	dB(A)
To exhaust air duct	80	75	75	73	74	74	69	66	dB	79	dB(A)
To surroundings	69	61	52	52	41	41	35	35	dB	53	dB(A)

1

End section, exhaust air

Static pressure drop

6 Pa

1

Damper, TBSA-6-100-040-1-1

Damper motor: With spring return

Damper blade: Uninsulated

Static pressure drop

1 Pa

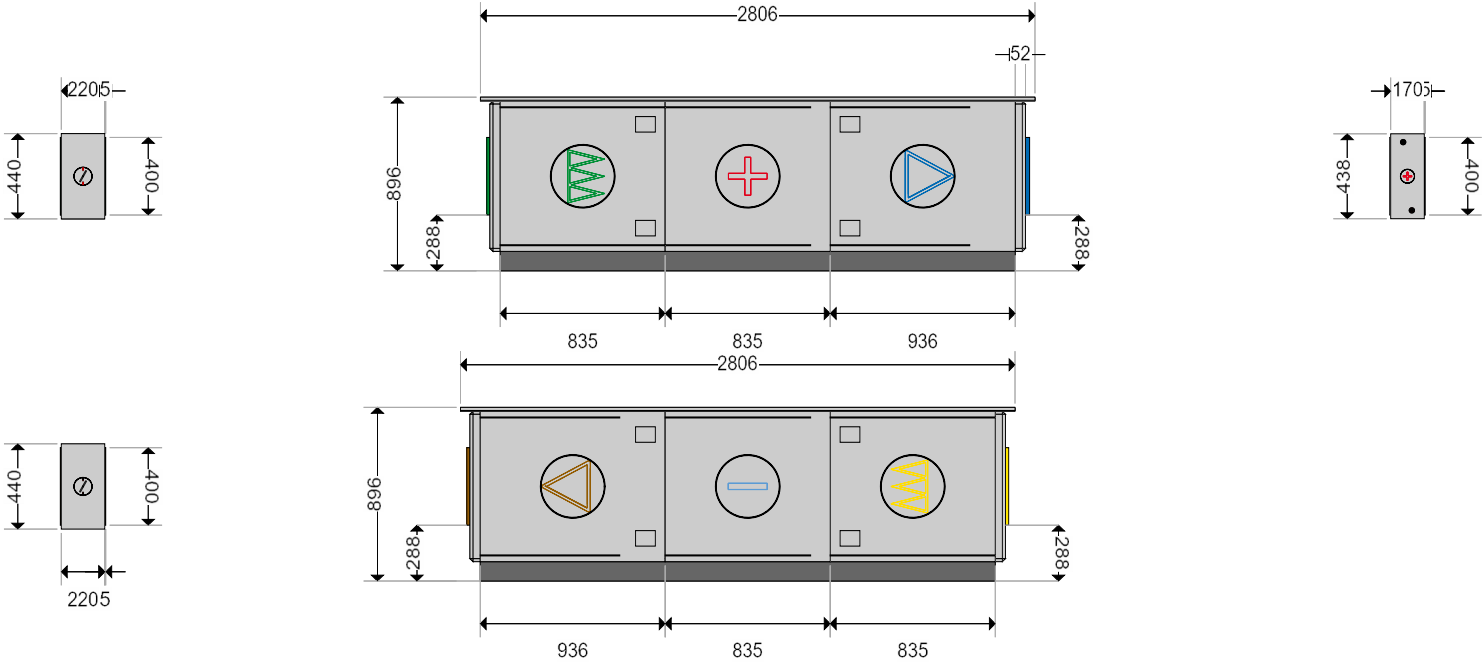
Project: 300 Brook Drive
Unit name: 4 - AHU08 - Design data

Date: 13/11/2023
35 / 1.0.20231004.1111558
Unit ID: AD-10001591935

Quantity	Product	Article name
1	Weather protection for damper actuator	TBLZ-1-45

Quantity	Accessories
1	IQlogic plus (medium) <i>TBIQ3201</i>
1	Roof for outdoor installation <i>TBTB6020SD</i>

AHU Design
Sketch: Inspection side



GOLD F SD CX SA EA

Unit size	014
Total weight, supply air	539 kg
Total weight, extract air	545 kg
Duct Component Weight	58 kg
Length, supply air max	2,747 mm
Length, extract air max	2,742 mm
Height, max	876 mm
Width, max	1,600 mm

Connection size

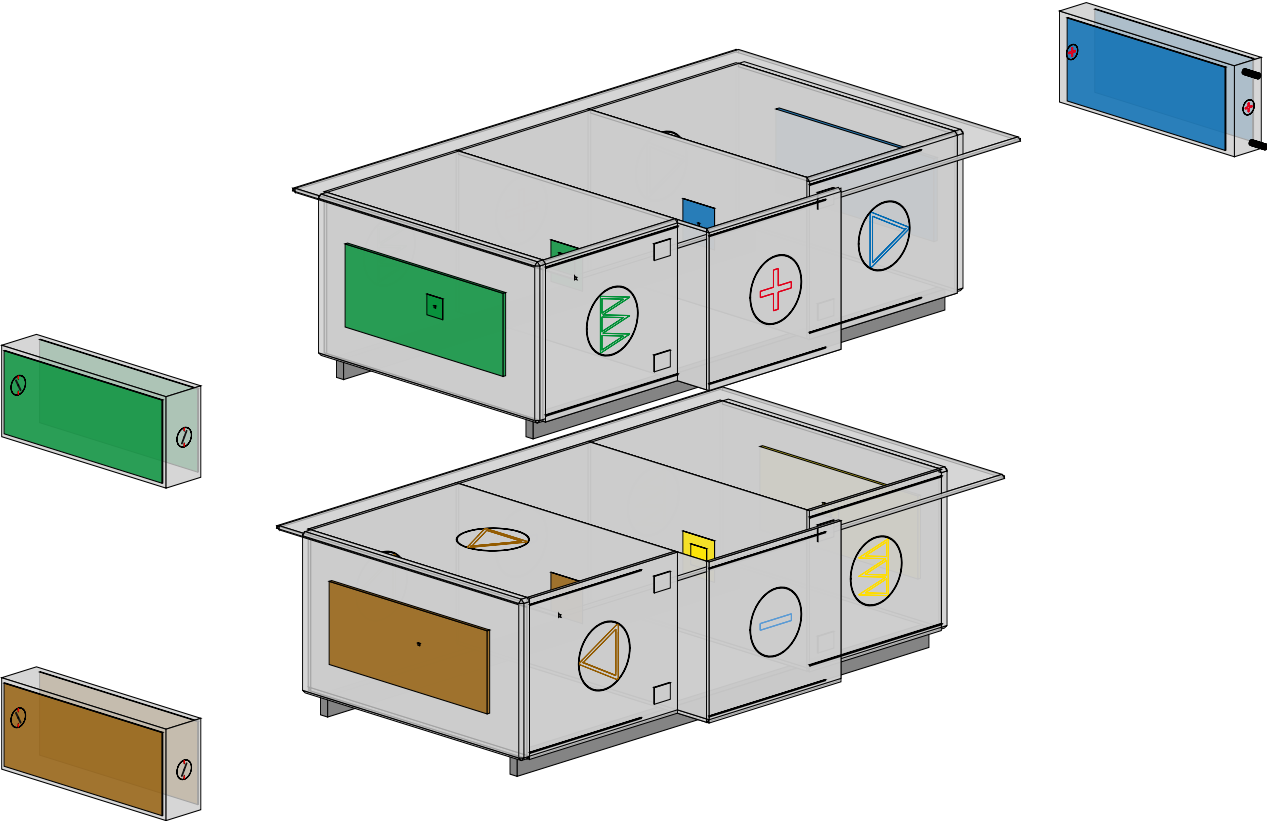
outdoor air	1,000 x 400 mm
supply air	1,000 x 400 mm
exhaust air	1,000 x 400 mm
extract air	1,000 x 400 mm

Project: 300 Brook Drive
Unit name: 4 - AHU08
Unit ID: AD-10001591935
35 / 1.0.20231004.1111558
Date: 13/11/2023

- Outdoor air
- Supply air
- Extract air
- Exhaust air



AHU Design
Sketch: Above left



GOLD F SD CX SA EA	
Unit size	014
Total weight, supply air	539 kg
Total weight, extract air	545 kg
Duct Component Weight	58 kg
Length, supply air max	2,747 mm
Length, extract air max	2,742 mm
Height, max	876 mm
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Connection size	
outdoor air	1,000 x 400 mm
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exhaust air	1,000 x 400 mm
extract air	1,000 x 400 mm

Project: 300 Brook Drive
Unit name: 4 - AHU08
Unit ID: AD-10001591935
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Date: 13/11/2023

- Outdoor air
- Supply air
- Extract air
- Exhaust air

