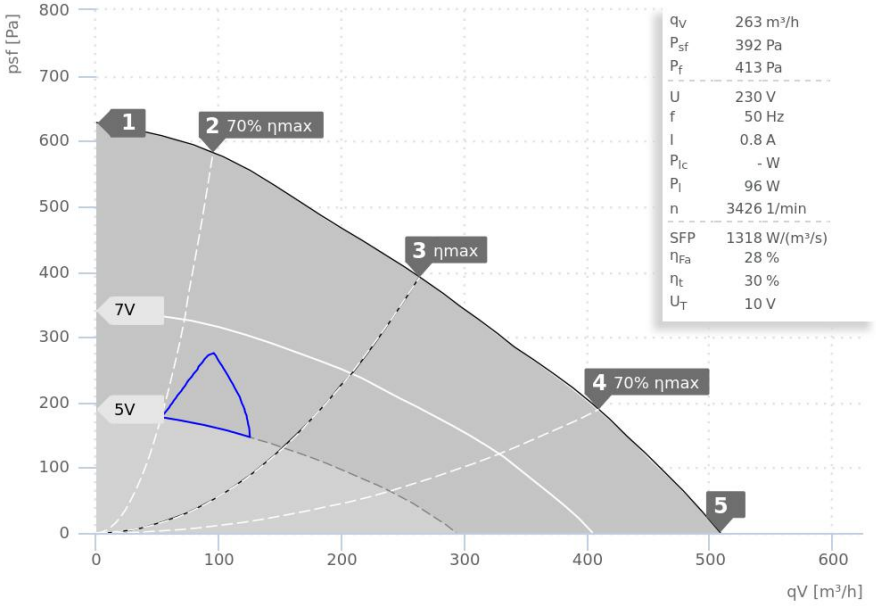
DATA SHEET

FFH 125 EC 20 | 153229 | Page 1



— **ErP compliant range**

- Compact supply air unit
- With EC motor
- 3 free adjustable speed steps from 0 - 100%
- Independent 0-10 V output for external extract fan
- Sensor input for need-based regulation e.g. according to CO2, humidity, etc.
- Digital communication via Modbus interface
- Integrated outdoor air filter
- Integrated electric heater

Operating Point		1	2	3	4	5
Current I	A	0,5	0,6	0,8	0,8	0,8
Power consumption P_1	W	59	76	96	103	101
Rotation speed n	1/min	3647	3624	3423	3374	3393
Fresh Air L_{WA5}	dB(A)	65	65	62	62	64
Extract air L_{WA5}	dB(A)	-	-	-	-	-
Supply air L_{WA6}	dB(A)	68	68	66	66	67
Exhaust Air L_{WA6}	dB(A)	-	-	-	-	-
Housing radiation L_{WA2}	dB(A)	59	59	57	55	56

FFH 125 EC 20 | 153229	
Voltage U_N	230 V 1~
Current I_{max}	13,9 A
Conveyed medium temperature t_M	40 °C
Speed Control	3-2-1
Motor protection	TEC
Power Rating P	3124 W
IP complete unit	-
Weight	25,1 kg
Insulation class motor	F
Number of poles	-
IP motor	IP33
IP terminal box	-
IP complete unit	-
Min. operating temperature	-30 °C

SELECTION DATA

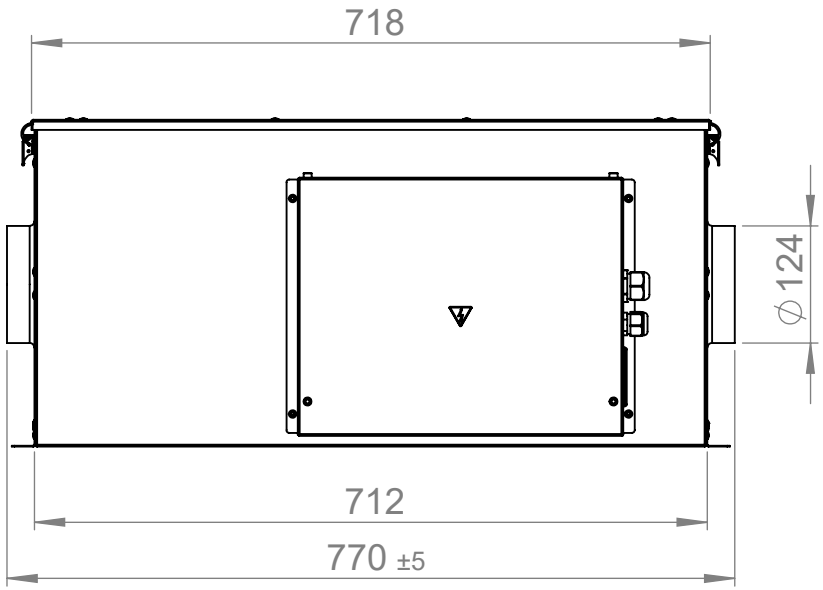
FFH 125 EC 20 | 153229 | Page 2

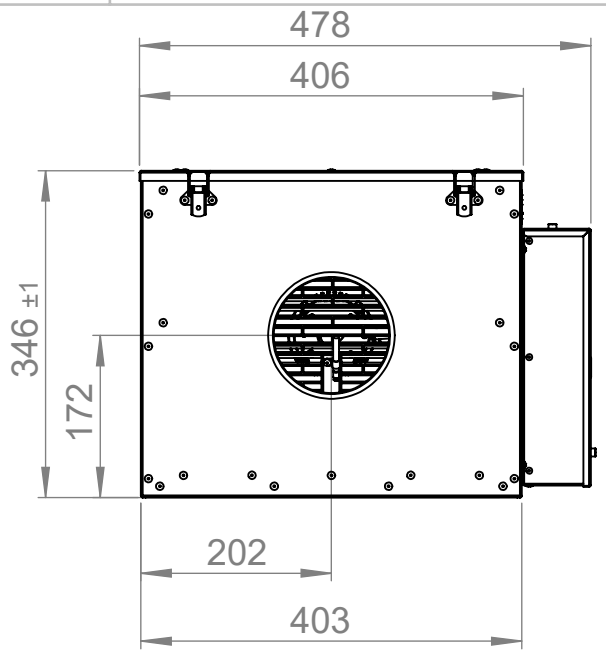
Selection Data		Supply air	
Air volume	m^3/h	263	-
External Pressure	Pa	392	-

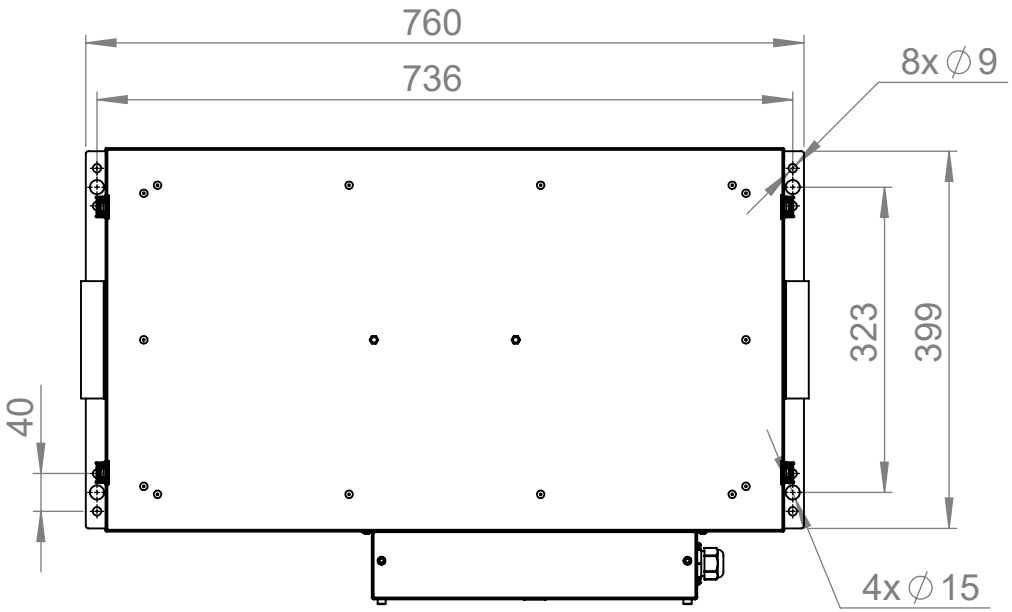
Filter		Supply air	
Length	mm	-	-
Surface	m^2	-	-
Starting Pressure Drop	Pa	-	-
Filter class		-	-

Electric Heater Battery		Supply air	
Air In Temperature	°C	-12	-
Air Out Temperature	°C	22	-
Power	kW	2,98	-
Installed Capacity	kW	3	-
Air Pressure Loss	Pa	2	-
Voltage	V	400	-
Steps		-	-

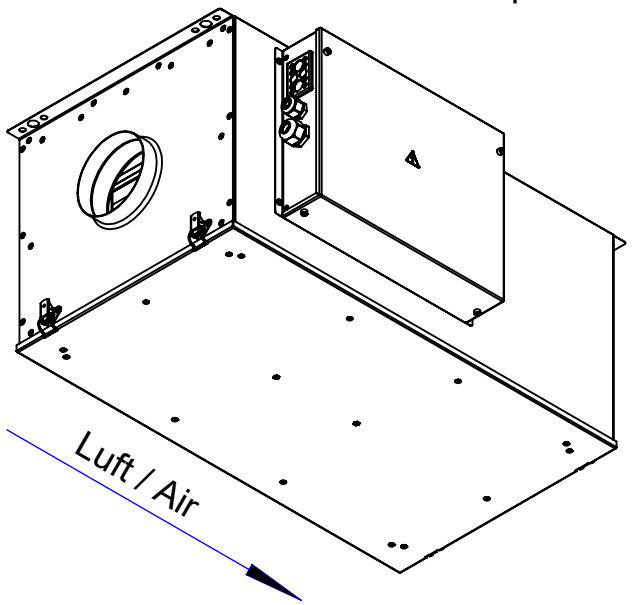
Fan		Supply air	
Air volume	m^3/h	263,0	-
Static Pressure	Pa	392,0	-
Voltage	V	230	-
Frequency	Hz	50	-
Current	A	0,8	-
Power consumption	W	96	-
Rotation speed	1/min	3426	-
Rated voltage	V	230	-
Rated frequency	Hz	50	-
Max. power consumption	W	104	-
Rated current	A	0,8	-
Motor protection		TEC	-
SFP Unit	$W/(m^3/s)$	1318	-







Einbaulage/
Installation position



ruck Ventilatoren
Max-Planck-Str. 5
D-97944 Boxberg

1:8 A4 mm

Protection Mark according to ISO16016
General tolerances DIN ISO 2768-c

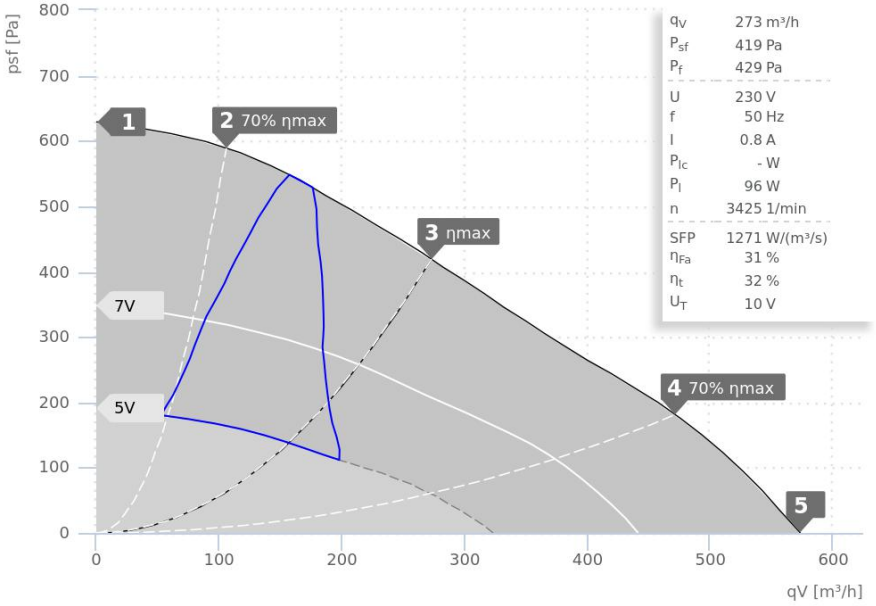
Created	h.sachsenheimer	15.01.2020
Drawn	h.sachsenheimer	15.01.2020
Released	h.sachsenheimer	17.01.2020
Disabled		

FFH125EC20

153229 00

DATA SHEET

FFH 150 EC 20 | 153232 | Page 1



— **ErP compliant range**

- Compact supply air unit
- With EC motor
- 3 free adjustable speed steps from 0 - 100%
- Independent 0-10 V output for external extract fan
- Sensor input for need-based regulation e.g. according to CO2, humidity, etc.
- Digital communication via Modbus interface
- Integrated outdoor air filter
- Integrated electric heater

Operating Point		1	2	3	4	5
Current I	A	0,5	0,6	0,8	0,8	0,8
Power consumption P_1	W	58	77	96	102	97
Rotation speed n	1/min	3648	3628	3425	3370	3420
Fresh Air L_{WA5}	dB(A)	67	66	64	65	66
Extract air L_{WA5}	dB(A)	-	-	-	-	-
Supply air L_{WA6}	dB(A)	70	70	68	68	70
Exhaust Air L_{WA6}	dB(A)	-	-	-	-	-
Housing radiation L_{WA2}	dB(A)	57	56	54	55	57

FFH 150 EC 20 | 153232	
Voltage U_N	230 V 1~
Current I_{max}	13,9 A
Conveyed medium temperature t_M	40 °C
Speed Control	3-2-1
Motor protection	TEC
Power Rating P	3123 W
IP complete unit	-
Weight	24,8 kg
Insulation class motor	F
Number of poles	-
IP motor	IP33
IP terminal box	-
IP complete unit	-
Min. operating temperature	-30 °C

Print 15.01.2022

SELECTION DATA

FFH 150 EC 20 | 153232 | Page 2

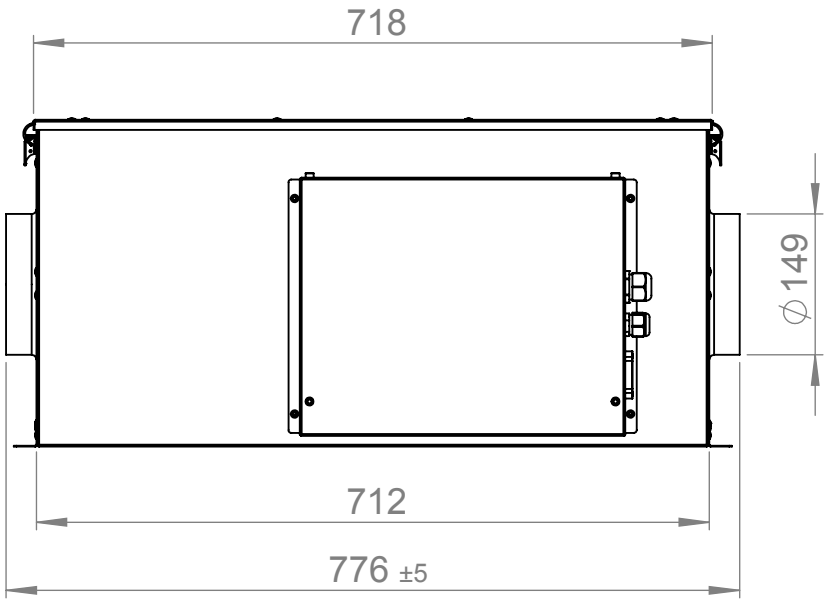
Selection Data		Supply air	
Air volume	m^3/h	273	-
External Pressure	Pa	419	-

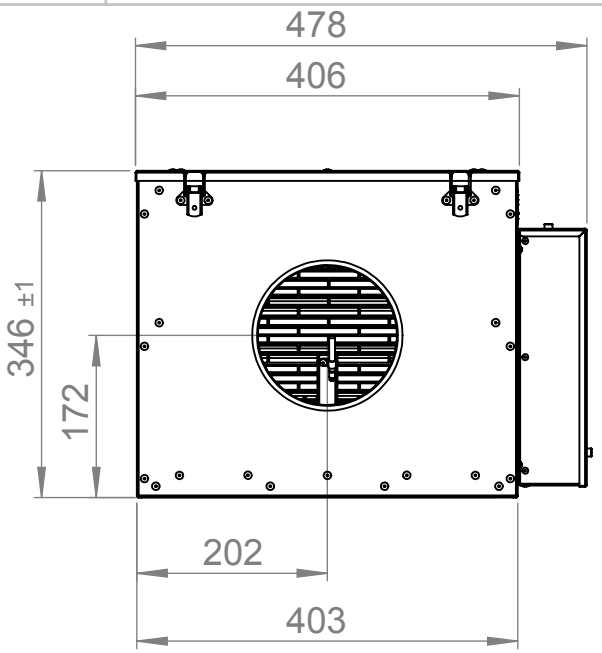
Filter		Supply air	
Length	mm	-	-
Surface	m^2	-	-
Starting Pressure Drop	Pa	-	-
Filter class		-	-

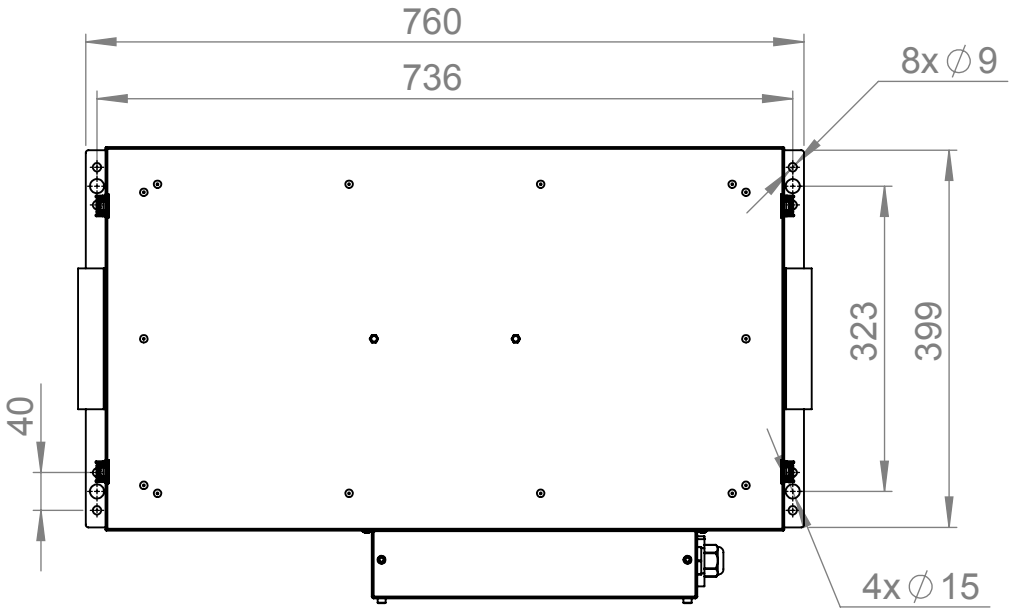
Electric Heater Battery		Supply air	
Air In Temperature	°C	-12	-
Air Out Temperature	°C	22	-
Power	kW	3,09	-
Installed Capacity	kW	3	-
Air Pressure Loss	Pa	2	-
Voltage	V	400	-
Steps		-	-

Fan		Supply air	
Air volume	m^3/h	273,0	-
Static Pressure	Pa	419,0	-
Voltage	V	230	-
Frequency	Hz	50	-
Current	A	0,8	-
Power consumption	W	96	-
Rotation speed	1/min	3425	-
Rated voltage	V	230	-
Rated frequency	Hz	50	-
Max. power consumption	W	103	-
Rated current	A	0,8	-
Motor protection		TEC	-
SFP Unit	$W/(m^3/s)$	1271	-

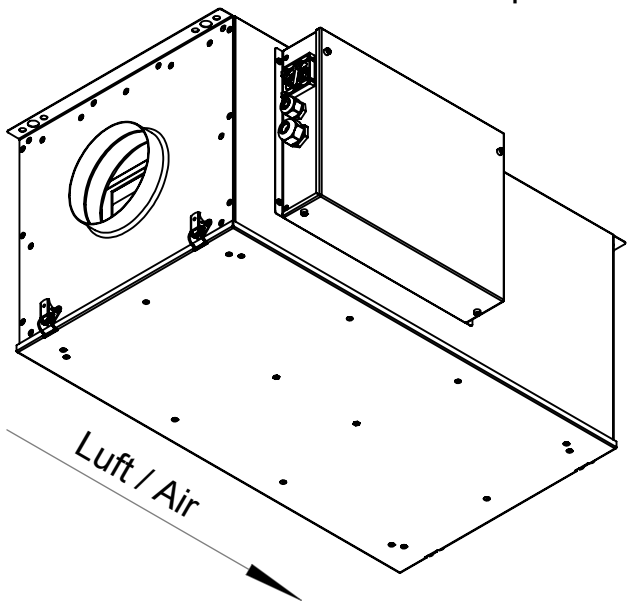
Ventas A/S - Gefionsvej 13 - 3400 Hillerød - tlf.: 49758810 - ventas@ventas.dk - www.ventas.dk







Einbaulage/
Installation position



ruck Ventilatoren
Max-Planck-Str. 5
D-97944 Boxberg

1:8 A4 mm

Protection Mark according to ISO16016
General tolerances DIN ISO 2768-c

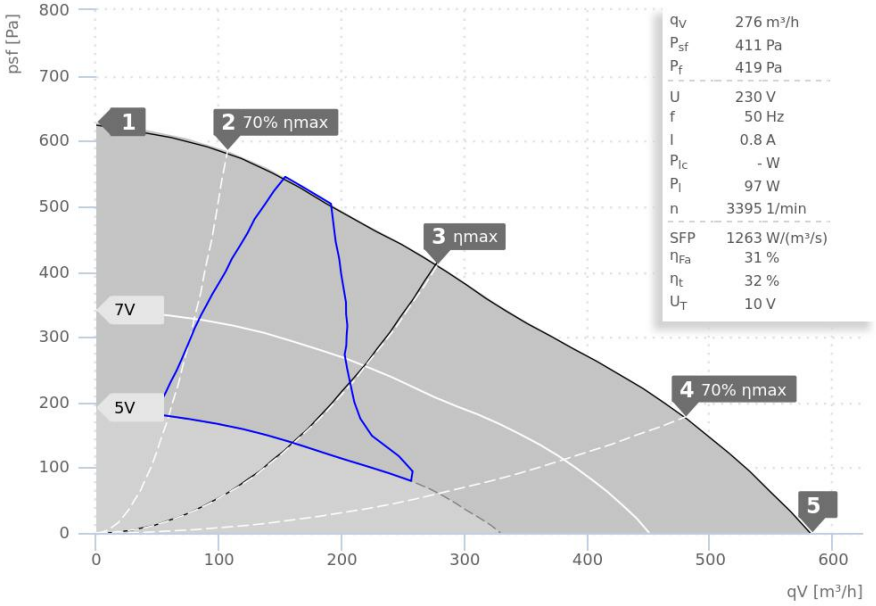
Created	h.sachsenheimer	16.01.2020
Drawn	h.sachsenheimer	16.01.2020
Released	h.sachsenheimer	17.01.2020
Disabled		

FFH150EC20

153232 00

DATA SHEET

FFH 160 EC 20 | 153235 | Page 1



— **ErP compliant range**

- Compact supply air unit
- With EC motor
- 3 free adjustable speed steps from 0 - 100%
- Independent 0-10 V output for external extract fan
- Sensor input for need-based regulation e.g. according to CO2, humidity, etc.
- Digital communication via Modbus interface
- Integrated outdoor air filter
- Integrated electric heater

Operating Point		1	2	3	4	5
Current I	A	0,5	0,7	0,8	0,8	0,8
Power consumption P_1	W	60	79	98	103	97
Rotation speed n	1/min	3648	3626	3403	3367	3426
Fresh Air L_{WA5}	dB(A)	68	67	65	66	68
Extract air L_{WA5}	dB(A)	-	-	-	-	-
Supply air L_{WA6}	dB(A)	71	70	69	70	72
Exhaust Air L_{WA6}	dB(A)	-	-	-	-	-
Housing radiation L_{WA2}	dB(A)	57	56	54	54	56

FFH 160 EC 20 | 153235	
Voltage U_N	230 V 1~
Current I_{max}	13,9 A
Conveyed medium temperature t_M	40 °C
Speed Control	3-2-1
Motor protection	TEC
Power Rating P	3124 W
IP complete unit	-
Weight	24,7 kg
Insulation class motor	F
Number of poles	-
IP motor	IP33
IP terminal box	-
IP complete unit	-
Min. operating temperature	-30 °C

Print 15.01.2022

SELECTION DATA

FFH 160 EC 20 | 153235 | Page 2

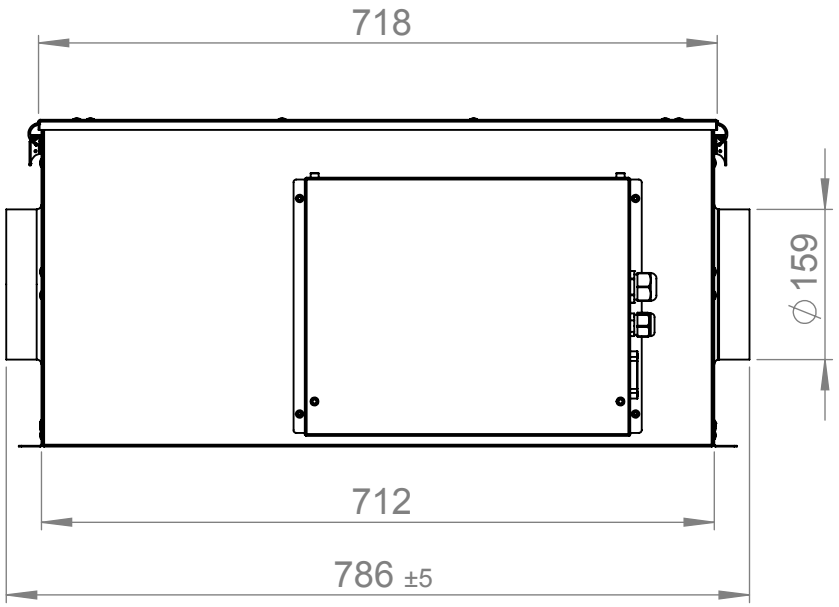
Selection Data		Supply air	
Air volume	m^3/h	276	-
External Pressure	Pa	411	-

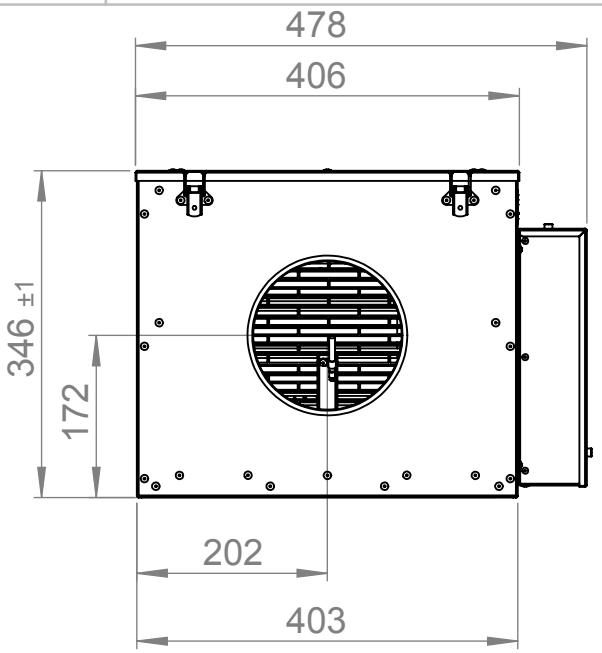
Filter		Supply air	
Length	mm	-	-
Surface	m^2	-	-
Starting Pressure Drop	Pa	-	-
Filter class		-	-

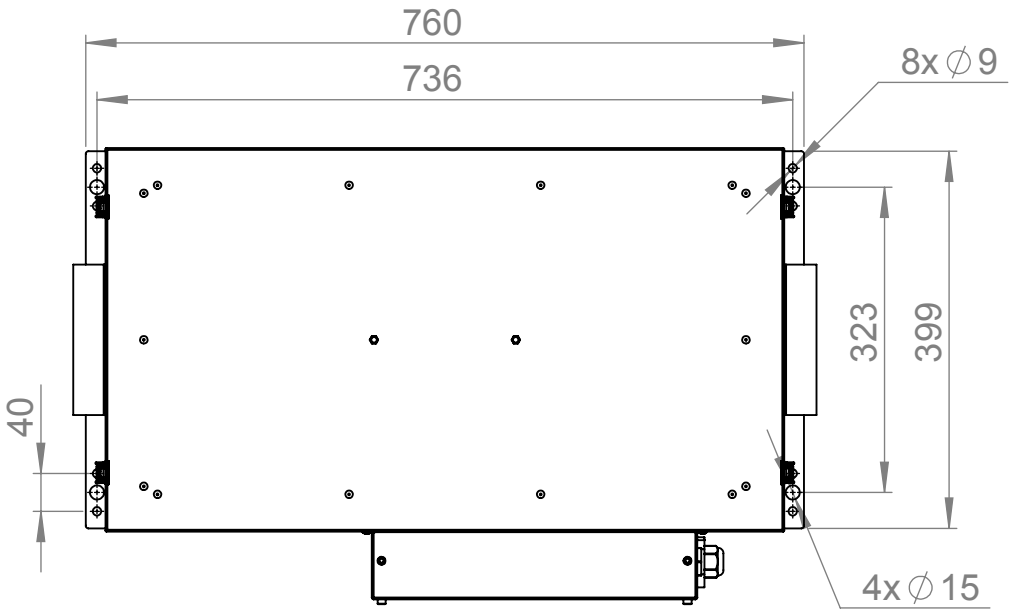
Electric Heater Battery		Supply air	
Air In Temperature	°C	-12	-
Air Out Temperature	°C	22	-
Power	kW	3,13	-
Installed Capacity	kW	3	-
Air Pressure Loss	Pa	2	-
Voltage	V	400	-
Steps		-	-

Fan		Supply air	
Air volume	m^3/h	276,0	-
Static Pressure	Pa	411,0	-
Voltage	V	230	-
Frequency	Hz	50	-
Current	A	0,8	-
Power consumption	W	97	-
Rotation speed	1/min	3395	-
Rated voltage	V	230	-
Rated frequency	Hz	50	-
Max. power consumption	W	104	-
Rated current	A	0,8	-
Motor protection		TEC	-
SFP Unit	$W/(m^3/s)$	1263	-

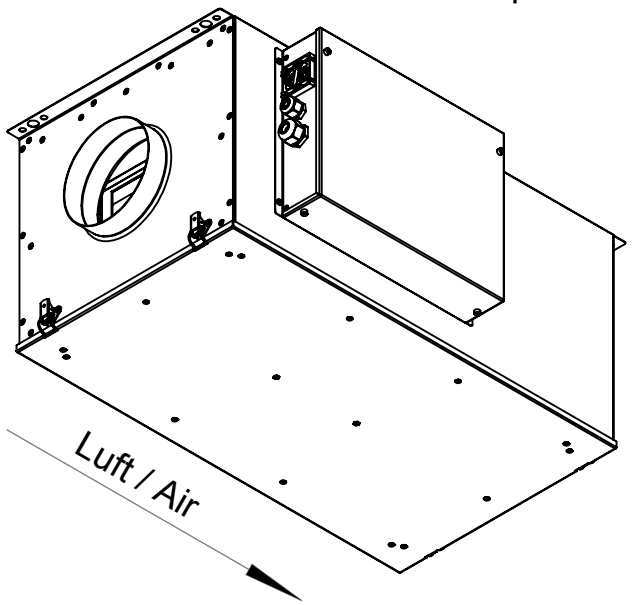
Ventas A/S - Gefionsvej 13 - 3400 Hillerød - tlf.: 49758810 - ventas@ventas.dk - www.ventas.dk







Einbaulage/
Installation position



ruck Ventilatoren
Max-Planck-Str. 5
D-97944 Boxberg

1:8 A4 mm

Protection Mark according to ISO16016
General tolerances DIN ISO 2768-c

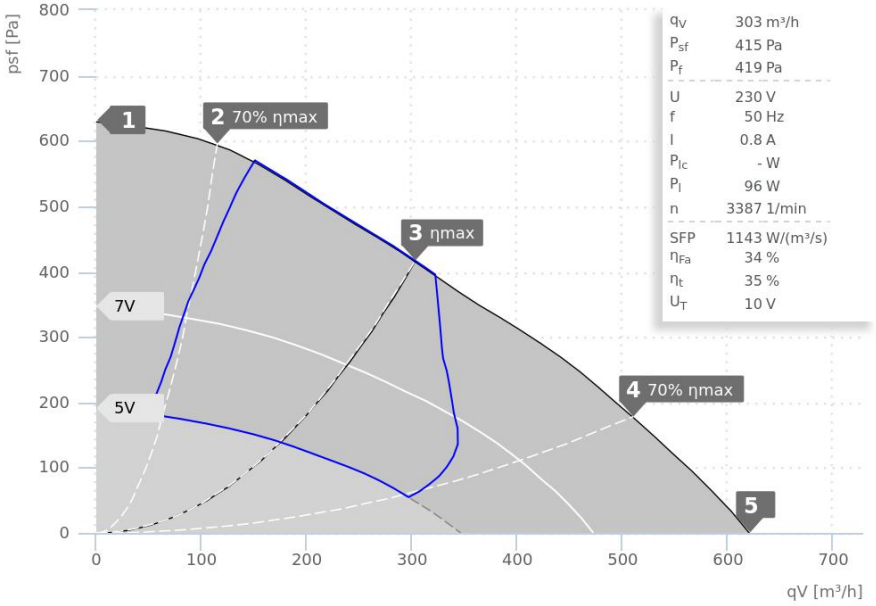
Created	h.sachsenheimer	16.01.2020
Drawn	h.sachsenheimer	16.01.2020
Released	h.sachsenheimer	17.01.2020
Disabled		

FFH160EC20

153235 00

DATA SHEET

FFH 200 EC 20 | 153239 | Page 1



— **ErP compliant range**

- Compact supply air unit
- With EC motor
- 3 free adjustable speed steps from 0 - 100%
- Independent 0-10 V output for external extract fan
- Sensor input for need-based regulation e.g. according to CO2, humidity, etc.
- Digital communication via Modbus interface
- Integrated outdoor air filter
- Integrated electric heater

Operating Point		1	2	3	4	5
Current I	A	0,5	0,7	0,8	0,8	0,8
Power consumption P_1	W	58	77	97	99	93
Rotation speed n	1/min	3648	3620	3394	3377	3453
Fresh Air L_{WA5}	dB(A)	70	69	66	68	70
Extract air L_{WA5}	dB(A)	-	-	-	-	-
Supply air L_{WA6}	dB(A)	72	71	69	70	73
Exhaust Air L_{WA6}	dB(A)	-	-	-	-	-
Housing radiation L_{WA2}	dB(A)	57	56	53	54	56

FFH 200 EC 20 | 153239	
Voltage U_N	400 V 3~N
Current I_{max}	7,4 A
Conveyed medium temperature t_M	40 °C
Speed Control	3-2-1
Motor protection	TEC
Power Rating P	4622 W
IP complete unit	-
Weight	24,2 kg
Insulation class motor	F
Number of poles	-
IP motor	IP33
IP terminal box	-
IP complete unit	-
Min. operating temperature	-30 °C

SELECTION DATA

FFH 200 EC 20 | 153239 | Page 2

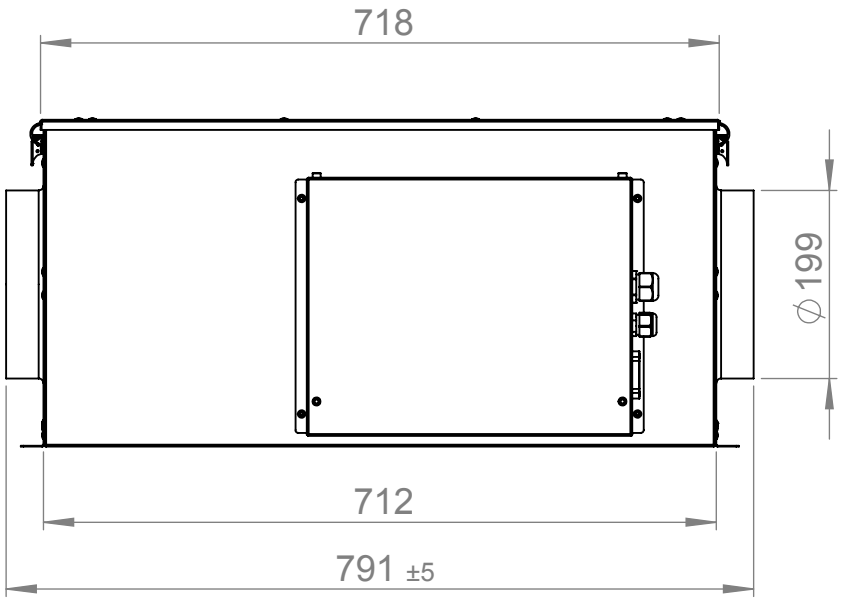
Selection Data		Supply air	
Air volume	m^3/h	303	-
External Pressure	Pa	415	-

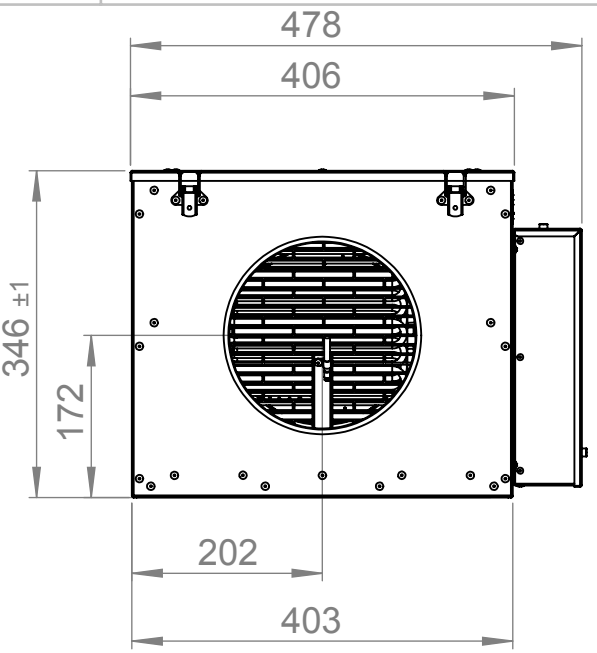
Filter		Supply air	
Length	mm	-	-
Surface	m^2	-	-
Starting Pressure Drop	Pa	-	-
Filter class		-	-

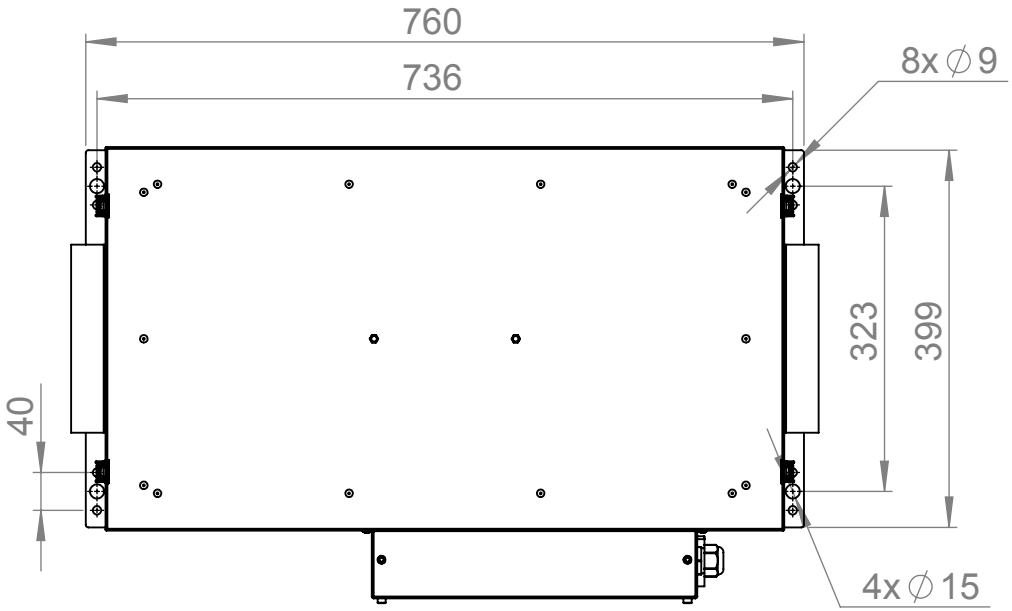
Electric Heater Battery		Supply air	
Air In Temperature	°C	-12	-
Air Out Temperature	°C	22	-
Power	kW	3,43	-
Installed Capacity	kW	4,5	-
Air Pressure Loss	Pa	2	-
Voltage	V	400	-
Steps		-	-

Fan		Supply air	
Air volume	m^3/h	303,0	-
Static Pressure	Pa	415,0	-
Voltage	V	230	-
Frequency	Hz	50	-
Current	A	0,8	-
Power consumption	W	96	-
Rotation speed	1/min	3387	-
Rated voltage	V	230	-
Rated frequency	Hz	50	-
Max. power consumption	W	102	-
Rated current	A	0,8	-
Motor protection		TEC	-
SFP Unit	$W/(m^3/s)$	1143	-

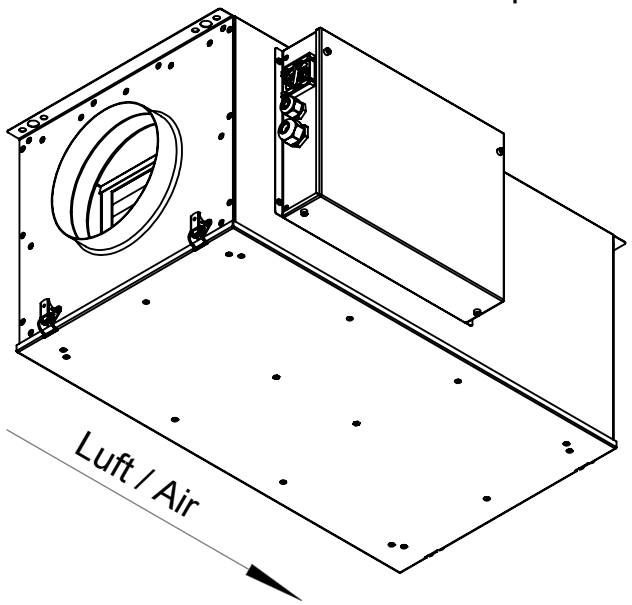
Ventas A/S - Gefionsvej 13 - 3400 Hillerød - tlf.: 49758810 - ventas@ventas.dk - www.ventas.dk







Einbaulage/
Installation position



ruck Ventilatoren
Max-Planck-Str. 5
D-97944 Boxberg

1:8 A4 mm

Protection Mark according to ISO16016
General tolerances DIN ISO 2768-c

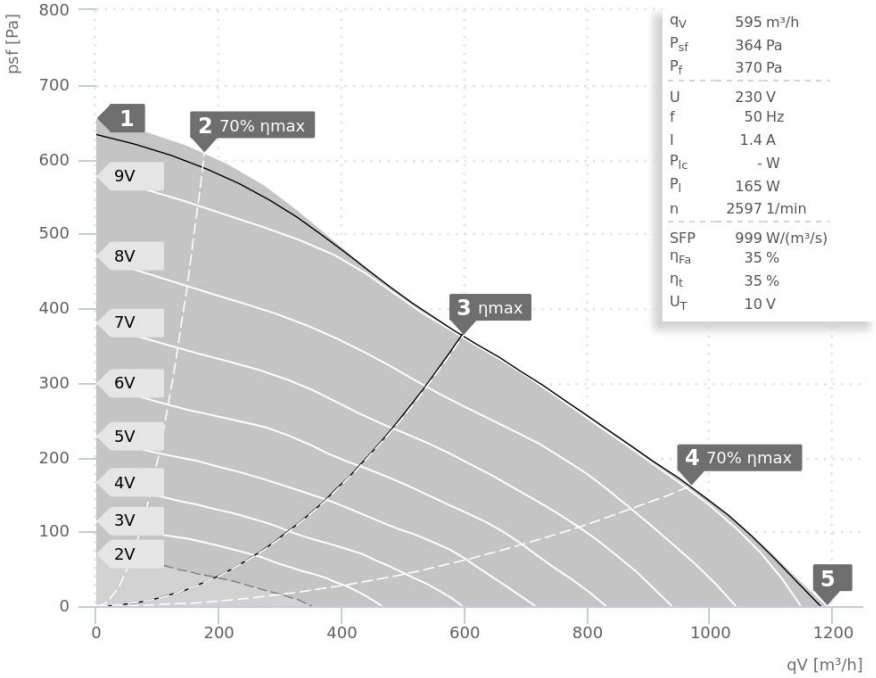
Created	h.sachsenheimer	16.01.2020
Drawn	h.sachsenheimer	16.01.2020
Released	h.sachsenheimer	17.01.2020
Disabled		

FFH200EC20

153239 00

DATA SHEET

FFH 250 EC 20 | 153376 | Page 1



- Compact supply air unit
- With EC motor
- 3 free adjustable speed steps from 0 - 100%
- Independent 0-10 V output for external extract fan
- Sensor input for need-based regulation e.g. according to CO2, humidity, etc.
- Digital communication via Modbus interface
- Integrated outdoor air filter
- Integrated electric heater

Operating Point		1	2	3	4	5
Current I	A	0,7	1,0	1,4	1,4	1,3
Power consumption P_1	W	88	114	165	168	158
Rotation speed n	1/min	2819	2805	2599	2605	2676
Fresh Air L_{WA5}	dB(A)	75	74	71	69	72
Extract air L_{WA5}	dB(A)	-	-	-	-	-
Supply air L_{WA6}	dB(A)	72	71	69	70	73
Exhaust Air L_{WA6}	dB(A)	-	-	-	-	-
Housing radiation L_{WA2}	dB(A)	61	60	57	53	55

FFH 250 EC 20 | 153376	
Voltage U_N	400 V 3~N
Current I_{max}	14,5 A
Conveyed medium temperature t_M	40 °C
Speed Control	0-10V
Motor protection	TEC
Power Rating P	9200 W
IP complete unit	-
Weight	37,8 kg
Insulation class motor	F
Number of poles	-
IP motor	IP54
IP terminal box	-
IP complete unit	-
Min. operating temperature	-30 °C

Print 15.01.2022

SELECTION DATA

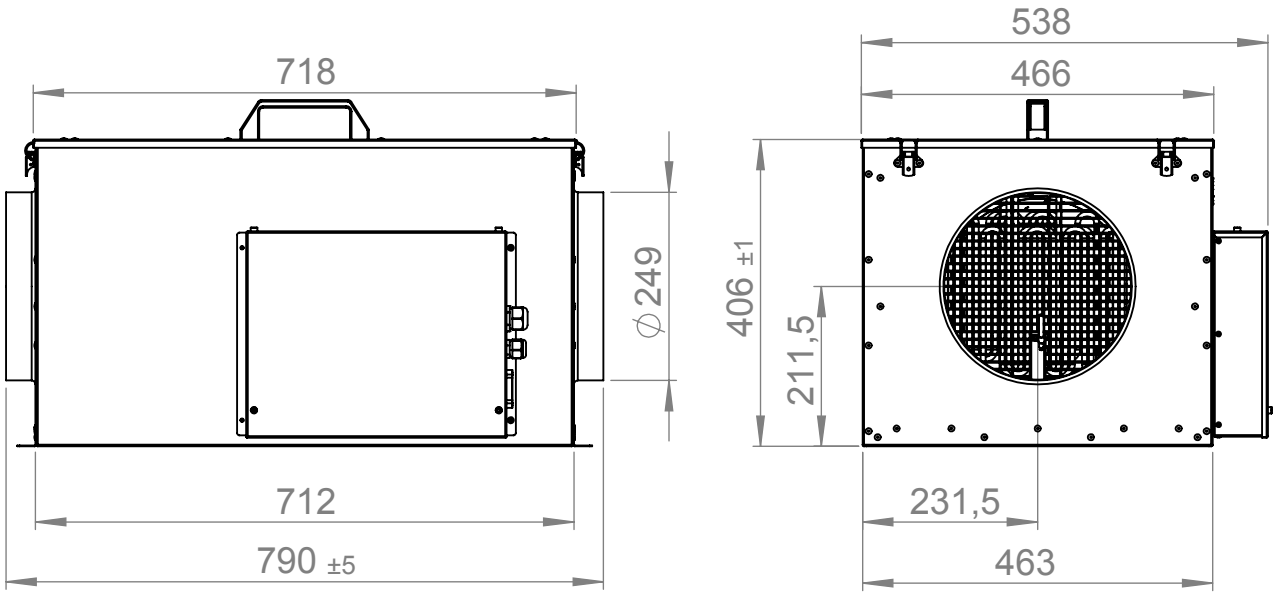
FFH 250 EC 20 | 153376 | Page 2

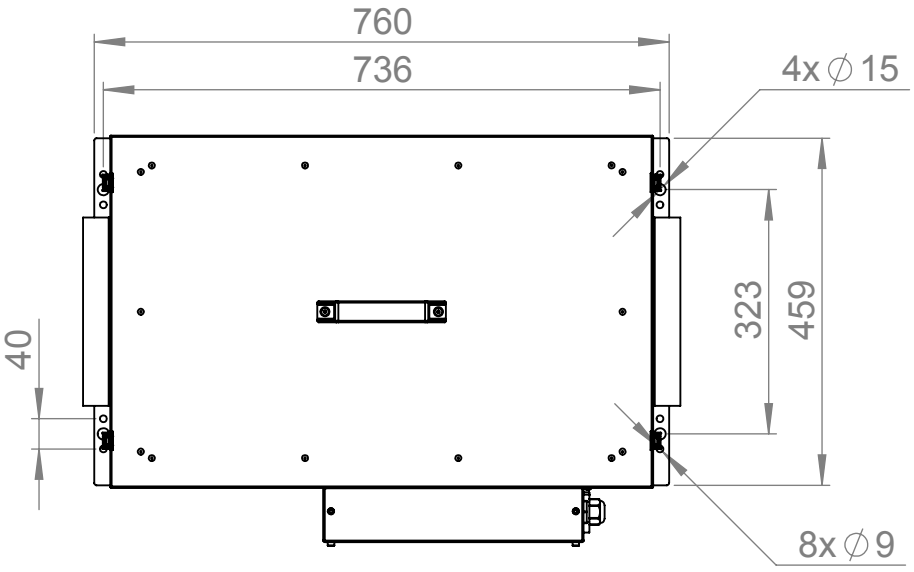
Selection Data		Supply air	
Air volume	m^3/h	595	-
External Pressure	Pa	364	-

Filter		Supply air	
Length	mm	-	-
Surface	m^2	-	-
Starting Pressure Drop	Pa	-	-
Filter class		-	-

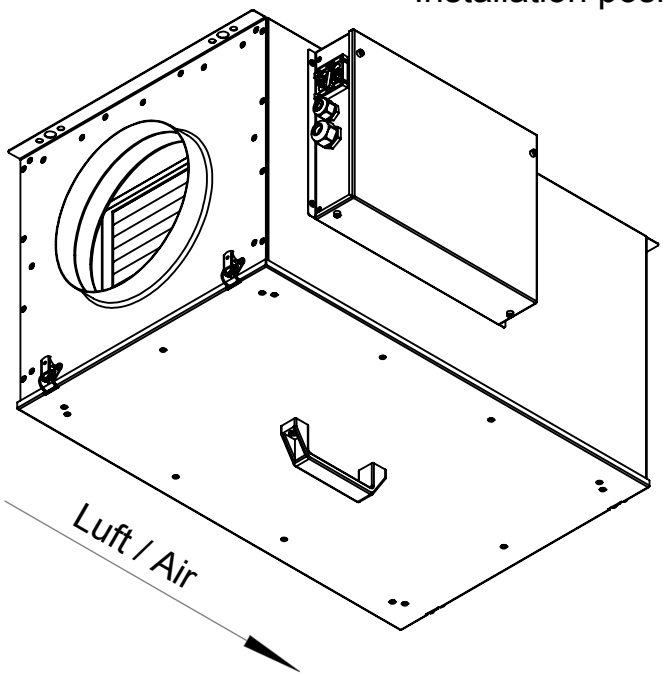
Electric Heater Battery		Supply air	
Air In Temperature	°C	-12	-
Air Out Temperature	°C	22	-
Power	kW	6,74	-
Installed Capacity	kW	9	-
Air Pressure Loss	Pa	8	-
Voltage	V	400	-
Steps		-	-

Fan		Supply air	
Air volume	m^3/h	595,0	-
Static Pressure	Pa	364,0	-
Voltage	V	230	-
Frequency	Hz	50	-
Current	A	1,4	-
Power consumption	W	165	-
Rotation speed	1/min	2597	-
Rated voltage	V	230	-
Rated frequency	Hz	50	-
Max. power consumption	W	171	-
Rated current	A	1,4	-
Motor protection		TEC	-
SFP Unit	$W/(m^3/s)$	999	-





Einbaulage/
Installation position



ruck Ventilatoren
Max-Planck-Str. 5
D-97944 Boxberg

1:10 A4 mm

Protection Mark according to ISO16016
General tolerances DIN ISO 2768-c

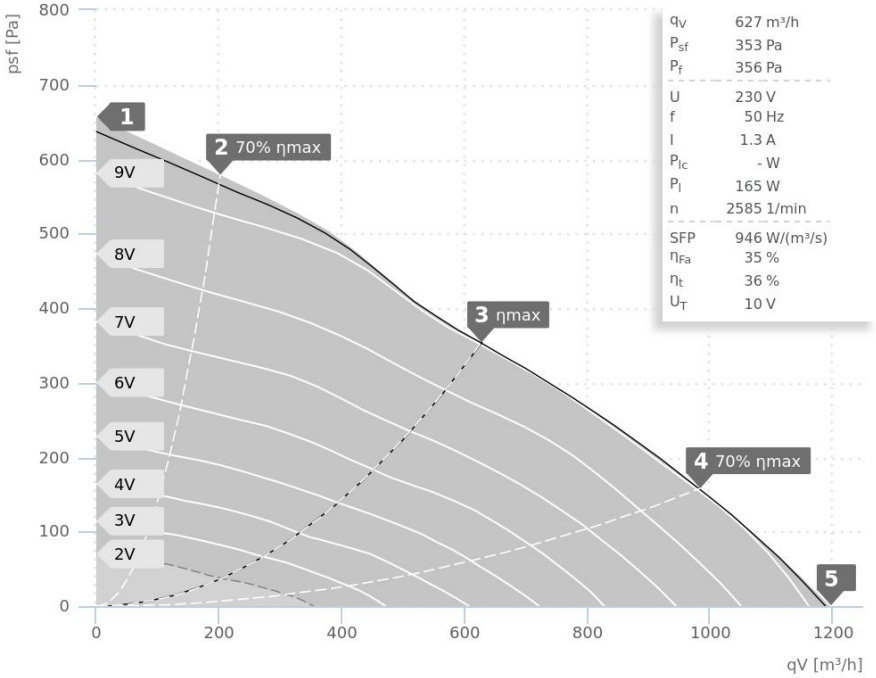
Created	h.sachsenheimer	20.01.2020
Drawn	h.sachsenheimer	20.01.2020
Released	h.sachsenheimer	21.01.2020
Disabled		

FFH250EC20

153376 00

DATA SHEET

FFH 315 EC 20 | 153379 | Page 1



- Compact supply air unit
- With EC motor
- 3 free adjustable speed steps from 0 - 100%
- Independent 0-10 V output for external extract fan
- Sensor input for need-based regulation e.g. according to CO2, humidity, etc.
- Digital communication via Modbus interface
- Integrated outdoor air filter
- Integrated electric heater

Operating Point		1	2	3	4	5
Current I	A	0,7	1,1	1,3	1,3	1,2
Power consumption P_1	W	86	125	165	163	151
Rotation speed n	1/min	2819	2773	2587	2592	2665
Fresh Air L_{WA5}	dB(A)	77	75	72	71	74
Extract air L_{WA5}	dB(A)	-	-	-	-	-
Supply air L_{WA6}	dB(A)	74	72	71	73	76
Exhaust Air L_{WA6}	dB(A)	-	-	-	-	-
Housing radiation L_{WA2}	dB(A)	60	59	56	53	56

FFH 315 EC 20 | 153379	
Voltage U_N	400 V 3~N
Current I_{max}	14,5 A
Conveyed medium temperature t_M	40 °C
Speed Control	0-10V
Motor protection	TEC
Power Rating P	9200 W
IP complete unit	-
Weight	36,7 kg
Insulation class motor	F
Number of poles	-
IP motor	IP54
IP terminal box	-
IP complete unit	-
Min. operating temperature	-30 °C

Print 15.01.2022

SELECTION DATA

FFH 315 EC 20 | 153379 | Page 2

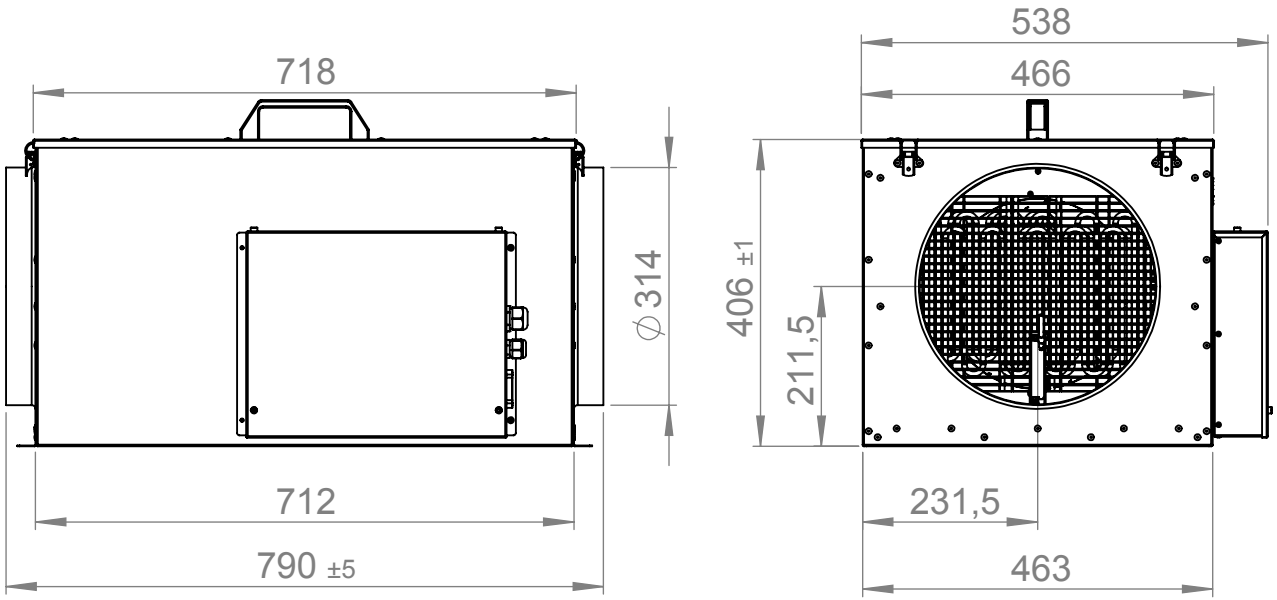
Selection Data		Supply air	
Air volume	m^3/h	627	-
External Pressure	Pa	353	-

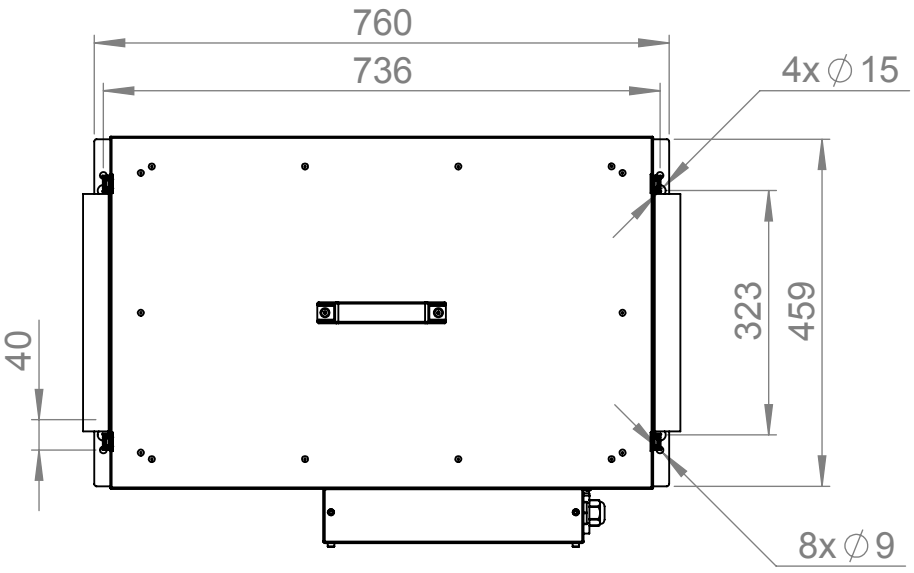
Filter		Supply air	
Length	mm	-	-
Surface	m^2	-	-
Starting Pressure Drop	Pa	-	-
Filter class		-	-

Electric Heater Battery		Supply air	
Air In Temperature	°C	-12	-
Air Out Temperature	°C	22	-
Power	kW	7,11	-
Installed Capacity	kW	9	-
Air Pressure Loss	Pa	8	-
Voltage	V	400	-
Steps		-	-

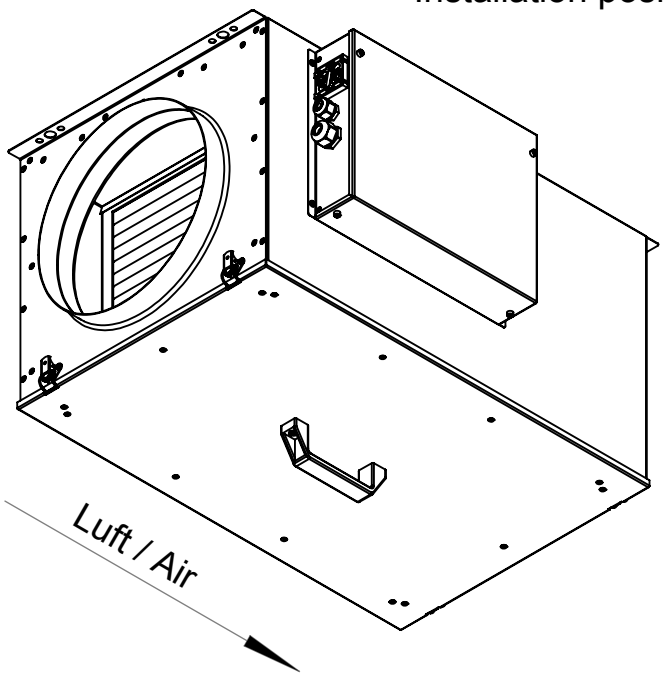
Fan		Supply air	
Air volume	m^3/h	627,0	-
Static Pressure	Pa	353,0	-
Voltage	V	230	-
Frequency	Hz	50	-
Current	A	1,3	-
Power consumption	W	165	-
Rotation speed	1/min	2585	-
Rated voltage	V	230	-
Rated frequency	Hz	50	-
Max. power consumption	W	169	-
Rated current	A	1,3	-
Motor protection		TEC	-
SFP Unit	$W/(m^3/s)$	946	-

Ventas A/S - Gefionsvej 13 - 3400 Hillerød - tlf.: 49758810 - ventas@ventas.dk - www.ventas.dk





Einbaulage/
Installation position



ruck Ventilatoren
Max-Planck-Str. 5
D-97944 Boxberg

1:10 A4 mm

Protection Mark according to ISO16016
General tolerances DIN ISO 2768-c

Created	h.sachsenheimer	21.01.2020
Drawn	h.sachsenheimer	21.01.2020
Released	h.sachsenheimer	21.01.2020
Disabled		

FFH315EC20

153379 00

VENTAS VENTILATORER