

Exhaust ventilation

TAHA and TAVA



Description

Advantages

Accessories

Product installation

Range

Technical details

Electrical details

Acoustic and aeraulic details

Electrical connections

Maintenance

TAHA / TAVA air exhaust systems

TAHA and TAVA



TAHA



TAVA



TAHA micro-watt



TAVA micro-watt

Compliance

Product compliance with European regulation no. 1253 / 2014 with requirement levels of 1st January 2016:

- TAHA / TAVA with speed control.
- TAHA / TAVA micro-watt with speed control or control kit.

Advantages

- Airflow between 500 and 16,000 m³/h.
- Energy-efficient micro-watt ranges with EC motor.
- Constant pressure control kit (optional on micro-watt).
- Sleek design.
- Wide range of fitting accessories.



GENERAL INFORMATION

The TAHA and TAVA roof exhaust units are exhaust ventilation solutions that are easy to install, with a wide range of fitting accessories.

To reduce energy consumption, TAHA and TAVA are also available in micro-watt versions with a constant-pressure EC motor (kit available as accessory).

FIELD OF APPLICATION

Roof-mounted exhaust fan for mechanical exhaust ventilation in multi-family housing and residential commercial buildings.

DESCRIPTION

- 10 sizes, from 500 to 16,000 m³/h.
- Horizontal discharge (TAHA), vertical discharge (TAVA).
- Aluminium casing to ensure good resistance to corrosion.
- Protective screen.
- Backward curve centrifuge impeller.

TECHNICAL PRINCIPLE

Depending on the models, several operating modes are available:

- TAHA and TAVA units with AC or EC motors operate as soon as they are connected to the electrical network according to their airflow/pressure curve. Use a speed control (accessory) to adjust the operating point to the precise needs of the building.
- **TAHA and TAVA micro-watt** units can also be controlled directly using a 0-10V signal (e.g. CO₂ sensor or BMS signal).
- To optimise the energy consumption of TAHA and TAVA micro-watt units, we recommend that they are controlled using the **constant pressure control kit** (accessory). The roof fan will then operate at the same pressure whatever the variations in airflow and will adjust its speed and power consumption to the actual airflow needs of the building.

This kit enables two pressure settings: one for the day and one for the night, which enables even greater savings at night time, when in general ventilation needs are lower.

Switching from one setting to the other is done via a signal sent to a dry contact input from a clock, a switch or BMS.

ROOF UNIT SELECTION GUIDE

	Horizontal discharge	Vertical discharge
	TAHA	TAVA
Energy savings	TAHA MICRO-WATT	TAVA MICRO-WATT
Optimised energy savings	TAHA MICRO-WATT + constant pressure control kit	TAVA MICRO-WATT + constant pressure control kit

For the precise selection of a model from our range according to airflow / pressure requirements, we recommend you use the poWair® software.

ACCESSORY SELECTION GUIDE

Requirement	Solutions
Installation on a flat roof without need for stonework base	- Insulated roof socket to prevent condensation and reduce radiated noise. - Or insulated roof socket with silencer to prevent condensation, reduce radiated noise and lower noise pollution inside the building (see acoustic attenuation values below).
Energy savings:	Automatic shutter to prevent entrance of outside air and reduce energy loss through avoidable heating or cooling.
Connection to circular ductwork	Connecting flange or rectangular/circular plate (for insulated roof base with or without silencer).
Reduced transmission of vibrations to circular ductwork	Flexible collar
Replacement of old VT, VDA and Thelia roof fan units	Adapter kit

Acoustic attenuation achieved using insulated roof socket with silencer

Reference	Base model	Average attenuation (dB)	Octave band (Hz)						
			125	250	500	1000	2000	4000	8000
11024446	220	12.5	1	3	13	17	13	16	14
11024447	280	12.8	1	2	6	14	18	17	14
11024448	355	11.8	2	3	7	18	16	11	10
11024449	450	11	2	3	6	18	14	9	9
11024450	560	6.5	0	1	5	10	8	6	5

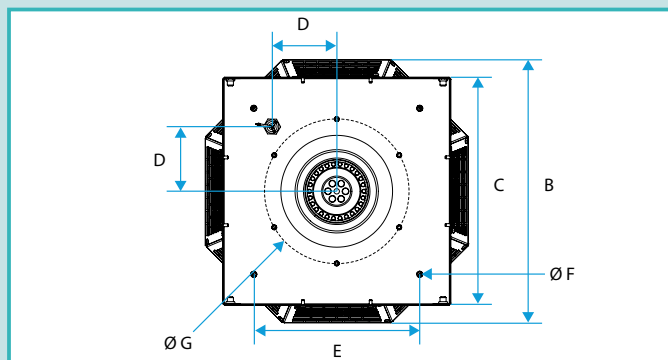
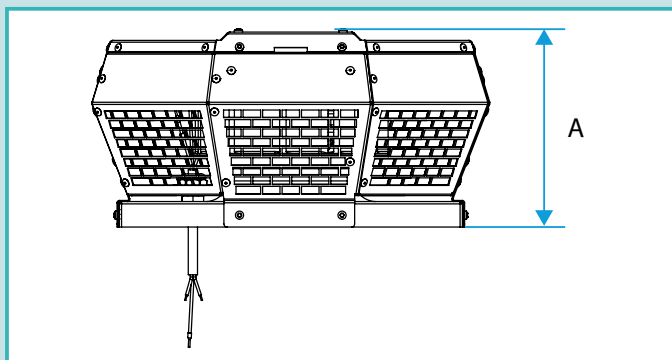
* Compliant with eco-design regulation 1253/2014.

TAHA / TAVA air exhaust systems

TAHA and TAVA

DIMENSIONS (mm) – WEIGHT (kg)

TAHA and TAHA micro-watt

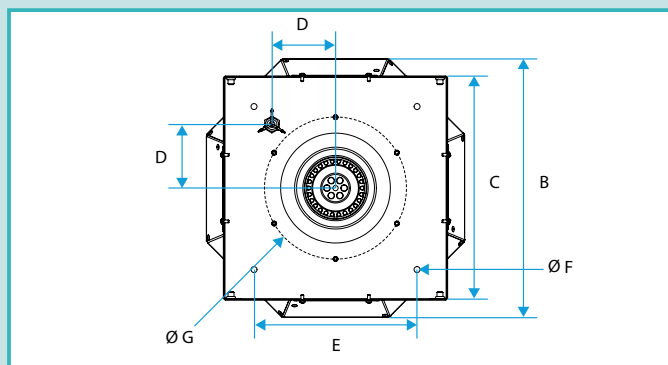
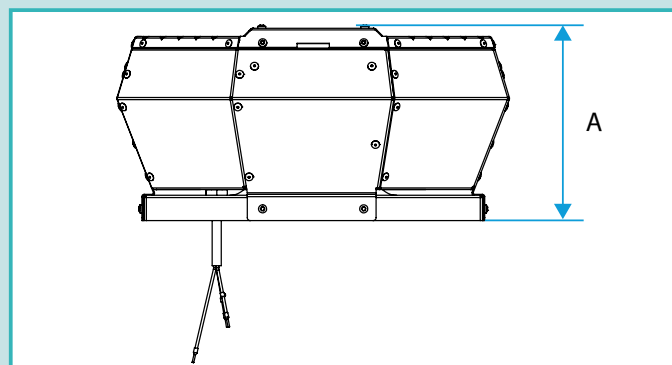


Type	A	B	C	D	E	F	G	Weight of TAHA	Weight of TAHA micro-watt
190 ⁽¹⁾	190	388	337	95	245	4 x Ø9	Ø213 6xM6	4.5	-
220	190	388	337	95	245	4 x Ø9	Ø213 6xM6	4.9	5.1
280 ⁽²⁾	249	541	437	135	330	4 x Ø9	Ø286 M6x15 (6x)	-	8
315 ⁽¹⁾	249	541	437	135	330	4 x Ø9	Ø286 M6x15 (6x)	7.8	-
355 ⁽¹⁾	333	745	598	192,5	450	4 x Ø11	Ø438 M6x15 (6x)	16.5	-
400 ⁽¹⁾	333	745	598	192,5	450	4 x Ø11	Ø438 M6x15 (6x)	19.5	-
450	418	860	670	222.5	535	4 x Ø11	Ø438 M6x15 (6x)	29.7	21.5
500	418	860	670	222.5	535	4 x Ø11	Ø438 M6x15 (6x)	42	37
560	521	1165	931	300	750	4 x Ø11	Ø605 M8x15	51	51
630 ⁽²⁾	521.3	1165	931	307	750	4 x Ø11	Ø604 M8x20 (8x)	-	67

(1) For TAHA only

(2) For TAHA micro-watt only

TAVA and TAVA micro-watt



Type	A	B	C	D	E	F	G	Weight of TAVA	Weight of TAVA micro-watt
190 ⁽³⁾	190	388	337	95	245	4 x Ø9	Ø213 6xM6	4.5	-
220	190	388	337	95	245	4 x Ø9	Ø213 6xM6	5.0	5.1
250 ⁽³⁾	190	388	337	95	245	4 x Ø9	Ø213 M6x15 (6x)	5.6	-
280	249	541	437	135	330	4 x Ø9	Ø286 M6x15 (6x)	8.2	8
315 ⁽³⁾	249	541	437	135	330	4 x Ø9	Ø286 M6x15 (6x)	8.3	-
355 ⁽³⁾	333	745	598	192.5	450	4 x Ø11	Ø438 M6x15 (6x)	16.5	-
400 ⁽³⁾	333	745	598	192.5	450	4 x Ø11	Ø438 M6x15 (6x)	19.5	-
450	418	860	670	222.5	535	4 x Ø11	Ø438 M6x15 (6x)	26	21.5
500	418	860	670	222.5	535	4 x Ø11	Ø438 M6x15 (6x)	34	37
560	521	1165	931	300	750	4 x Ø11	Ø605 M8x15	53.5	51
630 ⁽⁴⁾	521,3	1165	931	307	750	4 x Ø11	Ø604 M8x20 (8x)	-	67

(3) For TAVA only

(4) For TAVA micro-watt only

TAHA and TAVA air exhaust systems

TAHA and TAVA

TECHNICAL DETAILS OF ACCESSORIES

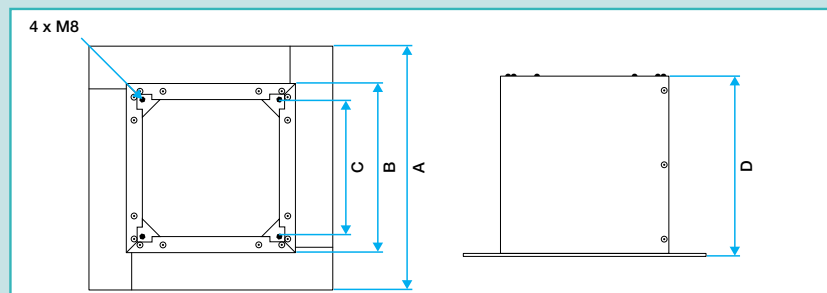
Insulated flat roof socket



Description

- Aluminium casing.
- 30 mm insulation on inner surfaces to reduce noise and condensation.

DIMENSIONS (mm) – WEIGHT (kg)



Reference	Base model	A	B	C	D	Weight
11024440	220	430	300	245	320	2.9
11024441	280	526	396	330	320	3.9
11024442	355	685	555	450	320	5.0
11024443	450	744	614	535	320	NC
11024444	560	1026	896	750	320	9.0

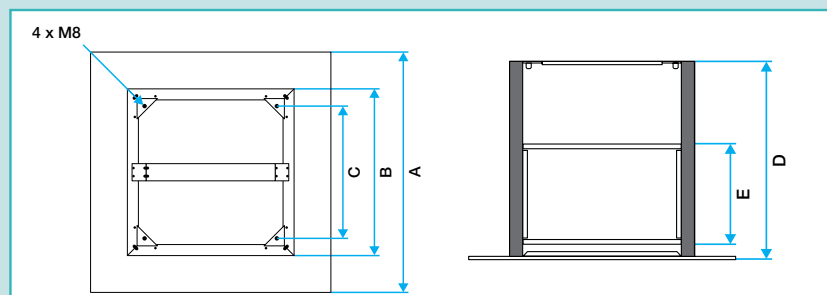
Insulated flat roof socket with silencer



Description

- Aluminium casing.
- 30 mm insulation on inner surfaces to reduce noise and condensation.
- Built-in silencer with baffles.

DIMENSIONS (mm) – WEIGHT (kg)



Reference	Base model	A	B	C	D	E	Weight
11024446	220	430	300	245	620	410	6.9
11024447	280	526	396	330	620	381	9
11024448	355	685	555	450	620	312	12.0
11024449	450	744	614	535	620	323	13.0
11024450	560	1026	896	750	620	314	19.0

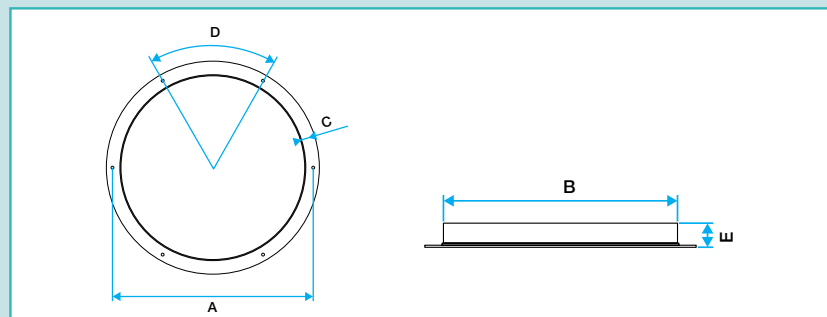
Connection flange



Description

- Inlet flange to connect a circular duct-work to the roof fan or to a circular accessory (flexible collar and automatic shutter).
- Galvanised steel.

DIMENSIONS (mm) – WEIGHT (kg)



Reference	Flange model	Ø A	Ø B	C	D	E	Weight
11024452	180	213	179	6 x Ø7	6 x 60°	40	0.3
11024453	250	286	249	6 x Ø7	6 x 60°	40	0.4
11024454	400	438	399	6 x Ø7	6 x 60°	40	0.7
11024455	560	605	572	8 x Ølong 10x14	8 x 45°	30	1.9

TAHA and TAVA air exhaust systems

TAHA and TAVA

TECHNICAL DETAILS OF ACCESSORIES

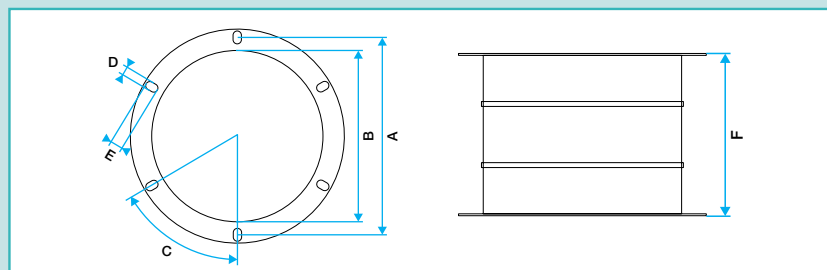
Flexible collar



Description

- Reduces transmission of vibrations between the roof fan and the duct or other circular accessories.
- Galvanised steel with a plastic band (PES).
- Resistant up to 75 °C.

DIMENSIONS (mm) – WEIGHT (kg)



Reference	Sleeve model	A	B	C	D	E	F	Weight
11024457	180	217	183	6 x 60°	8	4	95-115	1.0
11024458	250	286	252	6 x 60°	10	4	95-115	1.3
11024459	400	438	402	6 x 60°	10	4	95-115	2.3
11024460	560	605	569	8 x 45°	10	4	95-115	4.5

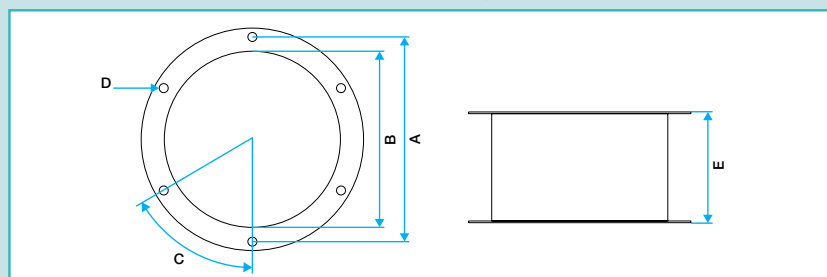
Automatic shutter



Description

- Automatic shutter.
- Galvanised steel.

DIMENSIONS (mm) – WEIGHT (kg)



Reference	Damper model	Ø A	Ø B	C	D	E	Weight
11024462	180	217	183	6 x 60°	6 x Oblong 8x12	115	1.2
11024463	250	286	255	6 x 60°	6 x Ø10°	156	2.0
11024464	400	438	406	6 x 60°	6 x Ø10°	220	4.2
11024465	560	605	573	8 x 45°	8 x Ø10°	255	7.5

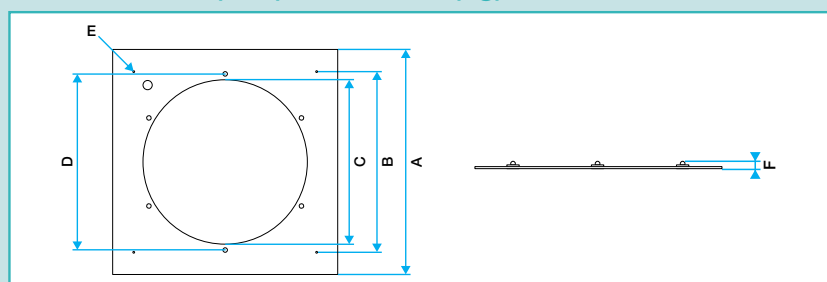
Connection plate



Description

- Galvanised steel plate.
- Serves to connect the square base with circular accessories (damper, flexible sleeve, flange).

DIMENSIONS (mm) – WEIGHT (kg)



Reference	Type of plate	Ø A	Ø B	Ø C	D	E	F	Weight
11024470	220	295	220	185	Ø213 6x M6	4x Ø6.5	13	0.5
11024471	280	395	310	255	Ø286 6x M6	4x Ø6.5	13	0.8
11024472	355	438	450	407	Ø438 6x M6	4x Ø6.5	13	1.4
11024473	450	605	450	407	Ø438 6x M6	4 x Ø 6.5	13	2.0
11024474	560	605	670	575	Ø605 8x M8	4x Ø9	14	4.2

Constant pressure control kit



Description

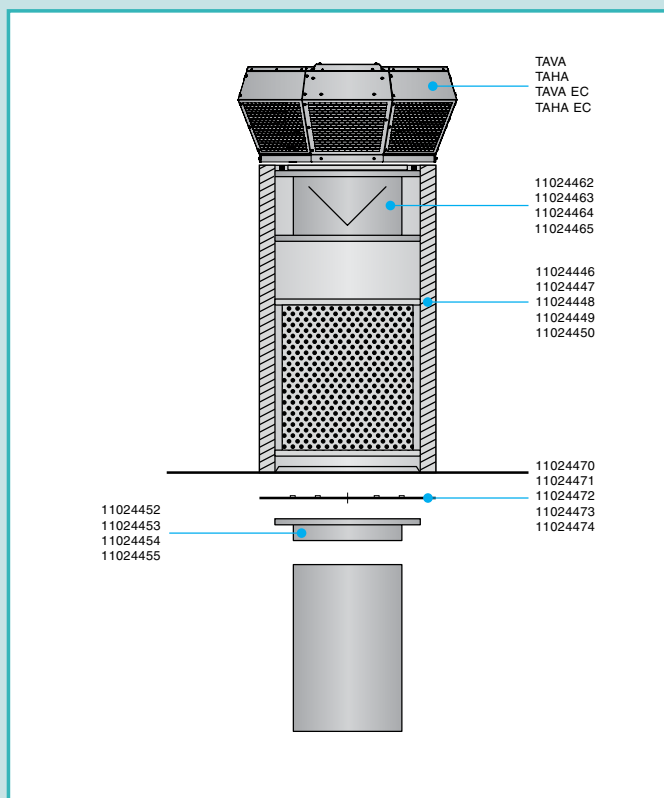
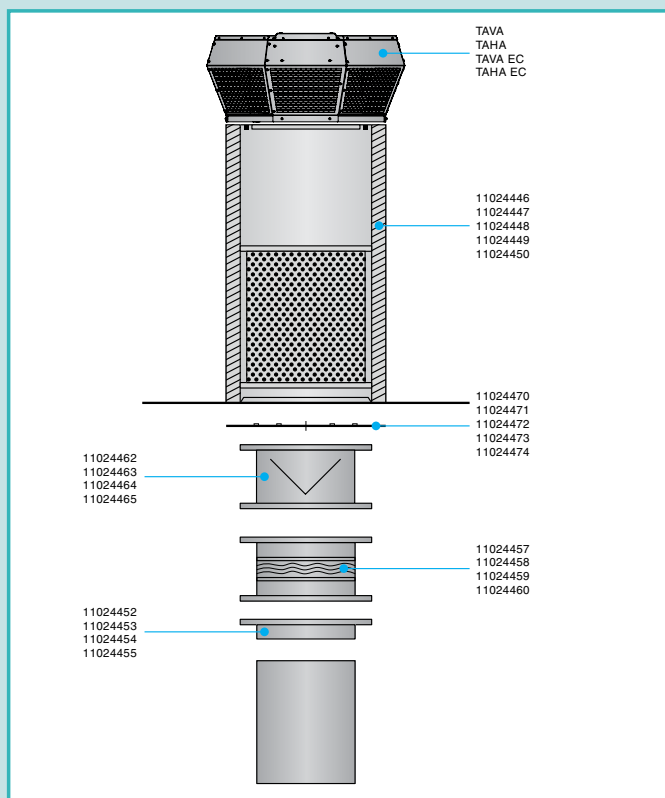
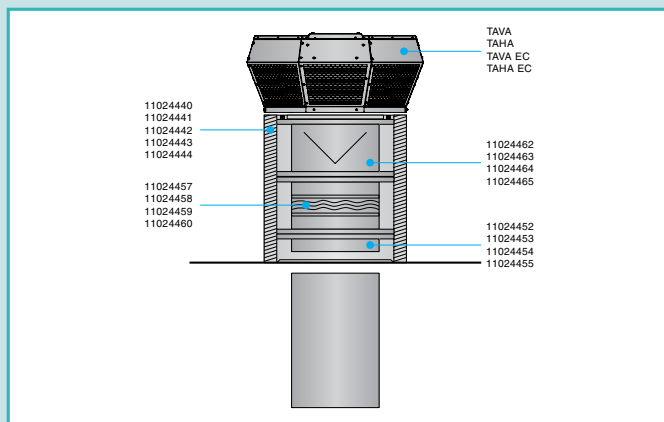
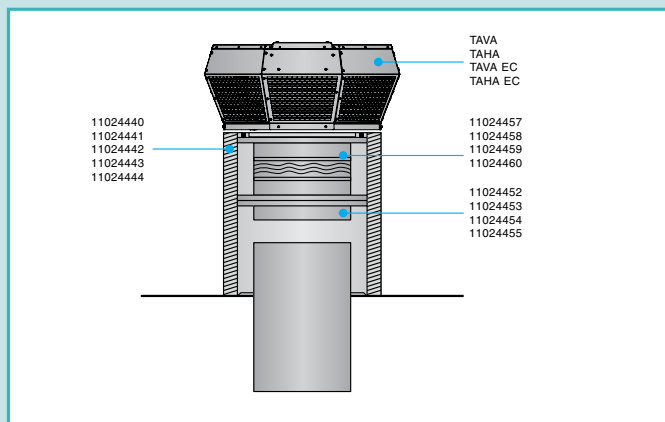
- Provides constant pressure control for VC micro-watt duct fans and TAHA / TAVA micro-watt roof fans.
- 2 pressure settings: daytime and night time with dry contact switching.
- Pressure values can be adjusted to between 10 and 990 Pa.
- 230V - 50/60 Hz power supply.
- IP55 protection rating.

TAHA and TAVA air exhaust systems

TAHA and TAVA

PRODUCT INSTALLATION

Examples of installation with accessories



COMPATIBILITY OF ACCESSORIES

Dimensions of TAVA, TAHA, TAVA micro-watt, TAHA micro-watt	Insulated roof socket	Insulated roof socket with silencer	Connection flange	Flexible collar	Automatic shutter	Connection plate
190	11024446	11024440	11024452	11024457	11024462	11024470
220	11024446	11024440	11024452	11024457	11024462	11024470
250	11024446	11024440	11024452	11024457	11024462	11024470
280	11024447	11024441	11024453	11024458	11024463	11024471
315	11024447	11024441	11024453	11024458	11024463	11024471
355	11024448	11024442	11024454	11024459	11024464	11024472
400	11024448	11024442	11024454	11024459	11024464	11024472
450	11024449	11024443	11024454	11024459	11024464	11024473
500	11024449	11024443	11024454	11024459	11024464	11024473
560	11024450	11024444	11024455	11024460	11024465	11024474
630	11024450	11024444	11024455	11024460	11024465	11024474

TAHA / TAVA air exhaust systems

Product accessories

RANGE

Horizontal discharge - AC motor	
Designation	Code
TAHA 190 M2	11024100
TAHA 220 M2	11024102
TAHA 315 M4	11024106
TAHA 355 M4	11024107
TAHA 400 M4	11024108
TAHA 450 T4	11024109
TAHA 500 T4	11024110
TAHA 560 T4	11024111

Horizontal discharge - EC motor	
Designation	Code
TAHA 220 M MICRO-WATT	11024125
TAHA 280 M MICRO-WATT	11024127
TAHA 450 M MICRO-WATT	11024130
TAHA 500 T MICRO-WATT	11024131
TAHA 560 T MICRO-WATT	11024132
TAHA 630 T MICRO-WATT	11024133

Vertical discharge - AC motor	
Designation	Code
TAVA 190 M2	11024112
TAVA 220 M2	11024114
TAVA 250 M4	11024116
TAVA 280 M4	11024117
TAVA 315 M4	11024118
TAVA 355 M4	11024119
TAVA 400 M4	11024120
TAVA 450 T4	11024121
TAVA 500 T4	11024122
TAVA 560 T4	11024123

Vertical discharge - EC motor	
Designation	Code
TAVA 220 M MICRO-WATT	11024135
TAVA 280 M MICRO-WATT	11024137
TAVA 450 M MICRO-WATT	11024140
TAVA 500 T MICRO-WATT	11024141
TAVA 560 T MICRO-WATT	11024142
TAVA 630 T MICRO-WATT	11024143

INSTALLATION ACCESSORIES

Designation	Code
Constant pressure control kit for TAHA / TAVA micro-watt	11024467
Pressure tube kit	11024466
Insulated flat roof base 220	11024440
Insulated flat roof base 280	11024441
Insulated flat roof base 355	11024442
Insulated flat roof base 450	11024443
Insulated flat roof base 560	11024444
Insulated flat roof base with silencer 220	11024446
Insulated flat roof base with silencer 280	11024447
Insulated flat roof base with silencer 355	11024448
Insulated flat roof base with silencer 450	11024449
Insulated flat roof base with silencer 560	11024450
Connection flange 180	11024452
Connection flange 250	11024453
Connection flange 400	11024454
Connection flange 560	11024455
Backdraft damper 180	11024462
Backdraft damper 250	11024463
Backdraft damper 400	11024464
Backdraft damper 560	11024465
Flexible sleeve 180	11024457
Flexible sleeve 250	11024458
Flexible sleeve 400	11024459
Flexible sleeve 560	11024460
Rectangular / Circular plate 220	11024470
Rectangular / Circular plate 280	11024471
Rectangular / Circular plate 355	11024472
Rectangular / Circular plate 450	11024473
Rectangular / Circular plate 560	11024474

ELECTRICAL ACCESSORIES

Speed controller	
Designation	Code
TAHA/TAVA 190 to TAHA/TAVA 355	11086572
TAHA/TAVA 400	11086024
TAHA/TAVA 450	11086096
TAHA/TAVA 500	11086097
TAHA/TAVA 560	11086098
Proximity switch	
Designation	Code
TAHA/TAVA 190 to 400	11056196
TAHA/TAVA 450/500/560	11057606
Thermal-magnetic circuit breaker	
Designation	Code
TAHA/TAVA 355 and 450	11057052 (1.6A – 2.5 A)
TAHA/TAVA 400 and 500	11057053 (2.5A – 4A)
TAHA/TAVA 560	11057054 (4A – 6.3A)

VT, THELIA AND VDA REPLACEMENT KIT

Speed controller	
Designation	Code
VDA 250 kit / TAHA-TAVA 315	11024428
VDA 355 kit / TAHA-TAVA 400	11024429
VDA 450 kit / TAHA-TAVA 450	11024430
THELIA 550 kit / TAHA-TAVA 450	11024431
THELIA 600 kit / TAHA-TAVA 500	11024432
THELIA 700 kit / TAHA-TAVA 500	11024433
THELIA 850 kit / TAHA-TAVA 630	11024434
VT 535 Kit / TAHA-TAVA 280-315	11024435
VT 535 Kit / TAHA-TAVA 355	11024436
VT 750 Kit / TAHA-TAVA 280-315	11024437
VT 750 Kit / TAHA-TAVA 355-400	11024438
VT 930 Kit / TAHA-TAVA 400-450	11024439

TAHA and TAVA air exhaust systems

TAHA and TAVA

TECHNICAL DETAILS

General details

Material:

- Aluminium casing to ensure good resistance to corrosion.
- Galvanised steel baseplate.
- IP rating = X4

Fan motor:

- Backward-curve impeller for optimal efficiency.
- Single-phase or 3-phase power supply depending on size.
- Motor IP rating:

Motor IP rating	TAHA / TAVA	TAHA / TAVA MICRO-WATT
IP33	190, 220, 250*, 280*, 315	280
IP44	355	-
IP54	400, 450, 500, 560	220, 450, 500, 560, 630

Thermal protection:

- AC models: Internal thermal contact up to size 315. Larger sizes: protect with a circuit breaker.
- Micro-watt models: internal electronic temperature control.

Micro-watt models: possibility of direct control via sensor (or BMS) using a 0-10V signal input.

* For TAVA only

TAHA and TAVA air exhaust systems

TAHA and TAVA

ELECTRICAL DETAILS

	U	f	P	I _{max}	Maximum ambient temp and operating temp
	[V]	[Hz]	[W]	[A]	[°C]
TAHA 190 M2	230V single-phase	50	66	0.4	45
TAHA 220 M2	230V single-phase	50	110	0.6	60
TAHA 315 M4	230V single-phase	50	115	0.6	80
TAHA 355 M4	230V single-phase	50	255	1.3	40
TAHA 400 M4	230V single-phase	50	456	2.7	65
TAHA 450 T4	400V 3-phase	50	690	1.5	60
TAHA 500 T4	400V 3-phase	50	1507	3.5	55
TAHA 560 T4	400V 3-phase	50	1958	4.8	60

	U	f	P	I _{max}	Maximum ambient temp and operating temp
	[V]	[Hz]	[W]	[A]	[°C]
TAHA 220 M micro-watt	230V single-phase	50	120	1.0	60
TAHA 280 M micro-watt	230V single-phase	50	283	2.0	55
TAHA 450 M micro-watt	230V single-phase	50	511	2.4	50
TAHA 500 T micro-watt	400V 3-phase	50	1328	2.1	50
TAHA 560 T micro-watt	400V 3-phase	50	2334	3.6	60
TAHA 630 T micro-watt	400V 3-phase	50	2757	4.2	55

	U	f	P	I _{max}	Maximum ambient temp and operating temp
	[V]	[Hz]	[W]	[A]	[°C]
TAVA 190 M2	230V single-phase	50	67	0.4	40
TAVA 220 M2	230V single-phase	50	110	0.6	60
TAVA 250 M4	230V single-phase	50	52	0.3	70
TAVA 280 M4	230V single-phase	50	82	0.4	70
TAVA 315 M4	230V single-phase	50	114	0.6	80
TAVA 355 M4	230V single-phase	50	249	1.3	45
TAVA 400 M4	230V single-phase	50	452	2.6	65
TAVA 450 T4	400V 3-phase	50	641	1.5	60
TAVA 500 T4	400V 3-phase	50	1467	3.4	55
TAVA 560 T4	400V 3-phase	50	1911	4.8	60

	U	f	P	I _{max}	Maximum ambient temp and operating temp
	[V]	[Hz]	[W]	[A]	[°C]
TAVA 220 M micro-watt	230V single-phase	50	113	0.9	60
TAVA 280 M micro-watt	230V single-phase	50	268	1.9	55
TAVA 450 M micro-watt	230V single-phase	50	509	2.3	50
TAVA 500 T micro-watt	400V 3-phase	50	1331	2.1	50
TAVA 560 T micro-watt	400V 3-phase	50	2263	3.5	60
TAVA 630 T micro-watt	400V 3-phase	50	2627	4.0	55

Operation at **60Hz** possible on TAHA / TAVA range with AC motor up to and including size 315.

TAHA and TAVA air exhaust systems

TAHA and TAVA

ACOUSTIC DETAILS

TAHA

	Pressure (Pa)	Airflow (m ³ /h)		Sound power (LW) in dB(A)								
				Σ	63	125	250	500	1k	2k	4k	8k
TAHA 190 M2	300	77	Lwc - intake - dB	65	38	49	58	60	60	58	51	42
			Lwc - discharge - dB	69	39	51	59	64	64	63	55	46
	200	251	Lwc - intake - dB	61	34	45	51	55	56	55	51	41
			Lwc - discharge - dB	65	35	45	54	59	60	60	54	44
100	398	Lwc - intake - dB	64	36	47	56	60	59	57	50	41	
		Lwc - discharge - dB	68	38	49	58	64	63	62	55	45	
TAHA 220 M2	400	156	Lwc - intake - dB	66	34	46	54	60	61	59	56	50
			Lwc - discharge - dB	71	36	48	58	64	66	66	59	50
	300	398	Lwc - intake - dB	67	32	45	54	61	62	60	58	53
			Lwc - discharge - dB	71	34	47	57	64	66	67	60	53
200	600	Lwc - intake - dB	66	34	46	54	60	61	59	56	50	
		Lwc - discharge - dB	71	36	48	58	64	66	66	59	50	
TAHA 315 M4	200	570	Lwc - intake - dB	64	43	54	57	60	56	54	49	39
			Lwc - discharge - dB	68	47	56	61	63	63	60	53	43
	150	1092	Lwc - intake - dB	61	32	54	51	56	53	52	51	39
			Lwc - discharge - dB	65	34	55	54	60	59	56	55	41
100	1410	Lwc - intake - dB	63	30	54	51	57	54	54	56	48	
		Lwc - discharge - dB	66	32	54	55	60	60	59	59	49	
TAHA 355 M4	300	1251	Lwc - intake - dB	65	41	52	54	58	58	61	54	43
			Lwc - discharge - dB	72	40	55	60	63	65	68	58	49
	200	2115	Lwc - intake - dB	71	36	53	56	61	61	69	62	50
			Lwc - discharge - dB	74	37	58	62	65	67	71	65	52
100	2620	Lwc - intake - dB	74	37	54	58	63	63	70	70	53	
		Lwc - discharge - dB	78	40	57	63	67	70	73	75	55	
TAHA 400 M4	400	1730	Lwc - intake - dB	66	43	58	57	60	59	59	55	46
			Lwc - discharge - dB	73	46	62	64	67	67	67	60	50
	300	2793	Lwc - intake - dB	71	41	59	60	63	61	67	64	51
			Lwc - discharge - dB	75	42	62	65	68	68	68	69	53
150	3570	Lwc - intake - dB	74	42	60	63	68	65	64	71	58	
		Lwc - discharge - dB	78	43	63	68	72	72	68	71	58	
TAHA 450 T4	500	2340	Lwc - intake - dB	76	42	59	63	70	72	71	64	55
			Lwc - discharge - dB	81	46	64	69	73	78	76	69	59
	350	3973	Lwc - intake - dB	73	42	60	63	68	66	66	62	56
			Lwc - discharge - dB	78	44	64	69	71	74	70	65	58
200	4820	Lwc - intake - dB	77	45	62	67	72	70	72	66	64	
		Lwc - discharge - dB	82	47	66	72	75	78	75	68	66	
TAHA 500 T4	800	1890	Lwc - intake - dB	77	52	66	70	72	69	68	66	60
			Lwc - discharge - dB	83	60	70	76	78	77	74	71	64
	600	5160	Lwc - intake - dB	76	44	66	70	69	69	67	65	60
			Lwc - discharge - dB	82	47	72	75	78	76	72	68	63
300	7480	Lwc - intake - dB	79	50	70	71	71	72	70	66	69	
		Lwc - discharge - dB	85	54	71	76	80	79	76	71	75	
TAHA 560 T4	700	4892	Lwc - intake - dB	81	59	71	72	74	74	73	70	64
			Lwc - discharge - dB	86	55	76	78	79	81	78	72	64
	450	8450	Lwc - intake - dB	80	61	68	71	74	74	72	68	63
			Lwc - discharge - dB	87	52	78	79	80	82	77	70	67
250	10260	Lwc - intake - dB	82	58	69	74	76	75	72	68	73	
		Lwc - discharge - dB	89	55	80	80	83	84	78	72	78	

TAHA and TAVA air exhaust systems

TAHA and TAVA

ACOUSTIC DETAILS

TAHA micro-watt

	Pressure (Pa)	Airflow (m ³ /h)		Sound power (LW) in dB(A)								
				Σ	63	125	250	500	1k	2k	4k	8k
TAHA 220 M micro-watt	450	353	Lwc - intake - dB	71	45	58	60	66	66	63	61	51
			Lwc - discharge - dB	73	45	57	63	67	67	67	60	50
	300	602	Lwc - intake - dB	68	42	51	57	63	63	60	61	50
			Lwc - discharge - dB	70	40	52	61	64	64	64	59	49
	100	844	Lwc - intake - dB	71	43	49	58	64	66	64	63	58
			Lwc - discharge - dB	74	42	50	61	67	68	68	66	59
TAHA 280 M micro-watt	700	609	Lwc - intake - dB	84	51	59	72	78	82	71	72	69
			Lwc - discharge - dB	82	48	58	67	72	80	70	69	65
	400	1265	Lwc - intake - dB	78	34	46	65	68	71	68	72	74
			Lwc - discharge - dB	79	38	51	65	69	77	70	68	65
	200	1699	Lwc - intake - dB	85	38	50	71	74	83	71	73	75
			Lwc - discharge - dB	86	40	54	70	73	85	74	71	69
TAHA 450 M micro-watt	500	1725	Lwc - intake - dB	76	52	63	67	72	70	69	62	52
			Lwc - discharge - dB	80	55	66	72	74	75	72	65	55
	400	2621	Lwc - intake - dB	75	44	60	62	68	70	69	62	51
			Lwc - discharge - dB	77	46	59	65	69	74	72	65	54
	200	4701	Lwc - intake - dB	74	43	63	64	69	66	68	65	58
			Lwc - discharge - dB	79	46	63	70	73	75	73	67	60
TAHA 500 T micro-watt	850	2488	Lwc - intake - dB	79	55	68	72	73	71	69	66	61
			Lwc - discharge - dB	85	58	73	78	80	79	76	72	65
	550	5609	Lwc - intake - dB	76	43	70	68	69	69	67	64	61
			Lwc - discharge - dB	82	47	72	75	78	76	72	68	64
	250	8077	Lwc - intake - dB	80	52	70	71	72	73	72	68	74
			Lwc - discharge - dB	86	53	74	77	81	81	77	72	76
TAHA 560 T micro-watt	750	7317	Lwc - intake - dB	84	52	79	77	77	75	74	69	66
			Lwc - discharge - dB	86	54	77	80	80	81	76	71	65
	550	9473	Lwc - intake - dB	85	50	81	77	77	76	72	67	68
			Lwc - discharge - dB	88	54	78	81	82	83	77	71	68
	150	12272	Lwc - intake - dB	88	55	81	79	80	78	76	72	82
			Lwc - discharge - dB	91	58	82	83	84	86	81	76	82
TAHA 630 T micro-watt	700	9153	Lwc - intake - dB	83	54	74	76	76	76	75	74	68
			Lwc - discharge - dB	87	54	78	80	80	81	77	74	68
	550	11252	Lwc - intake - dB	84	51	76	77	76	76	74	75	72
			Lwc - discharge - dB	88	54	80	81	81	82	77	73	71
	250	14418	Lwc - intake - dB	86	53	77	78	78	77	77	77	79
			Lwc - discharge - dB	91	57	83	83	84	85	82	76	81

TAHA and TAVA air exhaust systems

TAHA and TAVA

ACOUSTIC DETAILS

TAVA

	Pressure (Pa)	Airflow (m ³ /h)		Sound power (LW) in dB(A)								
				Σ	63	125	250	500	1k	2k	4k	8k
TAVA 190 M2	300	127	Lwc - intake - dB	64	38	46	52	60	59	56	52	41
			Lwc - discharge - dB	66	39	47	55	62	60	59	52	42
	200	281	Lwc - intake - dB	64	35	45	50	58	58	56	57	44
			Lwc - discharge - dB	65	35	45	53	69	59	59	57	44
	100	400	Lwc - intake - dB	65	33	46	52	59	59	57	60	46
			Lwc - discharge - dB	66	35	46	54	61	60	60	59	46
TAVA 220 M2	400	224	Lwc - intake - dB	66	36	46	54	61	61	57	55	50
			Lwc - discharge - dB	68	37	48	57	63	63	62	56	48
	300	405	Lwc - intake - dB	66	35	46	54	61	61	58	57	53
			Lwc - discharge - dB	67	38	47	55	62	61	61	55	47
	200	560	Lwc - intake - dB	66	35	46	54	61	61	57	56	53
			Lwc - discharge - dB	68	36	47	57	63	62	62	57	51
TAVA 250 M4	140	69	Lwc - intake - dB	59	35	47	49	52	55	52	46	37
			Lwc - discharge - dB	61	36	48	50	54	55	56	46	37
	100	324	Lwc - intake - dB	61	21	36	44	51	54	59	47	35
			Lwc - discharge - dB	62	25	42	46	53	55	60	47	35
	60	460	Lwc - intake - dB	62	25	39	46	53	56	58	54	35
			Lwc - discharge - dB	63	26	44	48	55	56	60	55	36
TAVA 280 M4	190	195	Lwc - intake - dB	60	42	49	52	54	53	51	49	40
			Lwc - discharge - dB	63	44	48	53	58	58	57	50	40
	150	469	Lwc - intake - dB	58	38	45	49	53	52	50	47	38
			Lwc - discharge - dB	61	39	46	51	56	56	55	49	39
	100	724	Lwc - intake - dB	57	31	43	49	53	51	49	49	38
			Lwc - discharge - dB	62	34	44	52	59	56	54	50	38
TAVA 315 M4	200	546	Lwc - intake - dB	62	42	54	54	58	55	52	48	38
			Lwc - discharge - dB	64	41	51	55	60	59	55	50	41
	100	1175	Lwc - intake - dB	61	38	53	51	56	53	51	51	38
			Lwc - discharge - dB	64	34	51	54	60	58	55	52	41
	50	1412	Lwc - intake - dB	62	37	50	51	56	54	54	55	46
			Lwc - discharge - dB	65	34	50	55	60	59	57	55	46
TAVA 355 M4	300	1315	Lwc - intake - dB	64	32	48	52	57	57	60	53	44
			Lwc - discharge - dB	66	37	54	57	59	60	61	54	43
	200	1878	Lwc - intake - dB	67	32	50	54	59	58	63	60	45
			Lwc - discharge - dB	69	39	56	59	61	62	63	61	45
	100	2254	Lwc - intake - dB	69	36	53	57	61	60	62	66	48
			Lwc - discharge - dB	72	43	59	63	64	65	63	67	48
TAVA 400 M4	400	1612	Lwc - intake - dB	68	42	57	59	64	62	61	56	47
			Lwc - discharge - dB	72	44	62	64	66	66	63	57	48
	300	2308	Lwc - intake - dB	69	37	57	59	62	61	63	60	48
			Lwc - discharge - dB	73	40	62	65	66	67	65	61	49
	150	3090	Lwc - intake - dB	72	40	59	62	65	64	64	68	54
			Lwc - discharge - dB	76	42	63	68	69	70	67	69	53
TAVA 450 T4	500	2155	Lwc - intake - dB	73	49	60	64	69	66	65	60	53
			Lwc - discharge - dB	76	50	62	68	69	71	68	63	54
	350	3281	Lwc - intake - dB	72	43	60	62	68	64	63	60	51
			Lwc - discharge - dB	76	47	62	69	69	71	68	63	53
	200	4225	Lwc - intake - dB	75	46	60	65	70	67	68	65	56
			Lwc - discharge - dB	78	48	63	70	71	73	71	66	58
TAVA 500 T4	800	1539	Lwc - intake - dB	81	61	73	74	76	74	73	68	61
			Lwc - discharge - dB	80	59	67	72	74	74	72	67	59
	600	4262	Lwc - intake - dB	81	59	73	73	74	73	74	70	63
			Lwc - discharge - dB	80	53	69	72	74	74	71	67	60
	300	6271	Lwc - intake - dB	85	61	77	78	78	77	78	75	67
			Lwc - discharge - dB	83	53	70	75	77	77	75	71	67
TAVA 560 T4	750	3984	Lwc - intake - dB	84	57	69	76	78	77	76	74	67
			Lwc - discharge - dB	83	58	71	76	76	78	76	70	62
	450	7944	Lwc - intake - dB	80	62	70	72	74	74	72	68	64
			Lwc - discharge - dB	82	51	72	73	76	78	75	68	64
	150	10076	Lwc - intake - dB	82	59	70	74	76	75	73	68	76
			Lwc - discharge - dB	85	55	73	75	78	80	77	72	76

TAHA and TAVA air exhaust systems

TAHA and TAVA

ACOUSTIC DETAILS

TAVA micro-watt

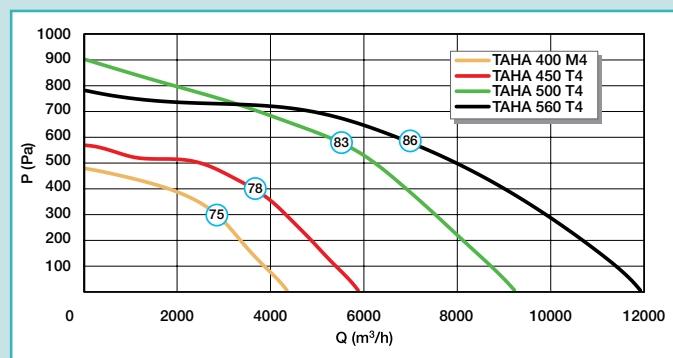
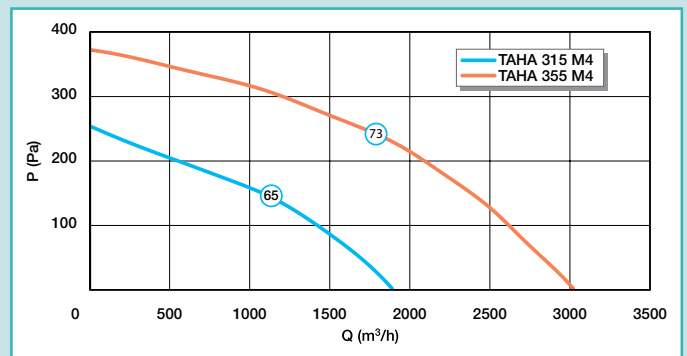
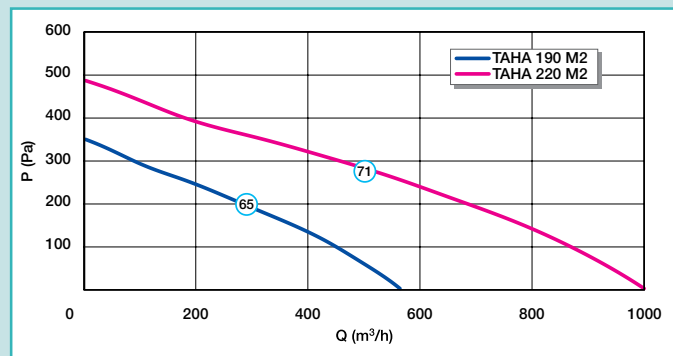
	Pressure (Pa)	Airflow (m ³ /h)		Sound power (LW) in dB(A)								
				Σ	63	125	250	500	1k	2k	4k	8k
TAVA 220 M micro-watt	450	351	Lwc - intake - dB	71	45	58	60	66	66	63	61	51
			Lwc - discharge - dB	73	45	57	63	67	67	67	60	50
	300	600	Lwc - intake - dB	68	42	51	57	63	63	60	61	50
			Lwc - discharge - dB	70	40	52	61	64	64	64	59	49
	150	786	Lwc - intake - dB	70	42	49	57	64	64	62	62	55
			Lwc - discharge - dB	72	41	50	60	66	66	67	64	57
TAVA 280 M micro-watt	700	609	Lwc - intake - dB	84	51	59	72	78	82	71	72	69
			Lwc - discharge - dB	82	48	58	67	72	80	70	69	65
	400	1273	Lwc - intake - dB	78	34	46	66	68	71	68	72	74
			Lwc - discharge - dB	79	38	51	65	69	78	70	68	65
	200	1699	Lwc - intake - dB	85	38	50	71	74	83	71	73	75
			Lwc - discharge - dB	86	40	54	70	73	85	74	71	69
TAVA 450 M micro-watt	550	1583	Lwc - intake - dB	77	55	65	70	73	68	66	61	52
			Lwc - discharge - dB	78	57	67	72	72	73	69	62	53
	300	3366	Lwc - intake - dB	70	39	56	62	66	62	62	57	49
			Lwc - discharge - dB	73	42	61	66	67	68	65	59	50
	150	4480	Lwc - intake - dB	71	40	59	63	66	64	63	57	52
			Lwc - discharge - dB	76	43	62	69	69	71	68	62	56
TAVA 500 T micro-watt	900	2179	Lwc - intake - dB	79	55	68	72	73	71	69	66	61
			Lwc - discharge - dB	85	58	73	78	80	79	76	72	65
	500	5226	Lwc - intake - dB	76	43	70	68	69	69	67	64	61
			Lwc - discharge - dB	82	47	72	75	78	76	72	68	64
	200	6997	Lwc - intake - dB	78	51	68	71	72	71	71	68	68
			Lwc - discharge - dB	84	55	70	75	79	79	77	73	70
TAVA 560 T micro-watt	800	6537	Lwc - intake - dB	84	54	78	77	77	75	75	70	65
			Lwc - discharge - dB	85	54	76	79	78	79	75	69	62
	500	9309	Lwc - intake - dB	85	51	82	78	77	76	73	68	70
			Lwc - discharge - dB	87	54	77	81	80	81	76	69	66
	200	11191	Lwc - intake - dB	87	55	82	79	80	78	75	71	81
			Lwc - discharge - dB	89	58	80	82	83	84	80	74	78
TAVA 630 T micro-watt	800	5818	Lwc - intake - dB	86	62	76	80	79	79	78	74	68
			Lwc - discharge - dB	85	60	77	78	78	79	76	72	64
	500	10563	Lwc - intake - dB	84	51	76	77	76	76	74	75	72
			Lwc - discharge - dB	85	54	78	78	78	79	76	73	69
	200	13130	Lwc - intake - dB	86	53	78	78	77	77	77	77	80
			Lwc - discharge - dB	88	57	78	80	81	82	80	76	78

TAHA and TAVA air exhaust systems

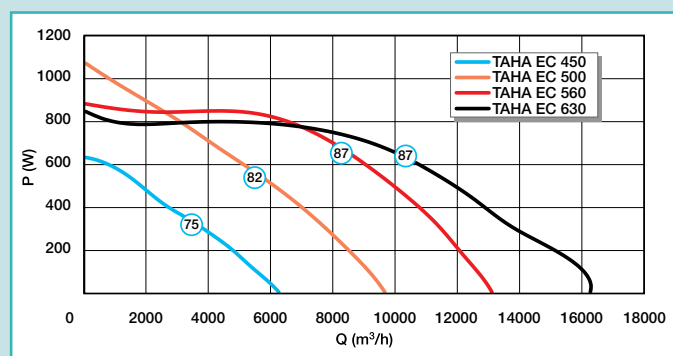
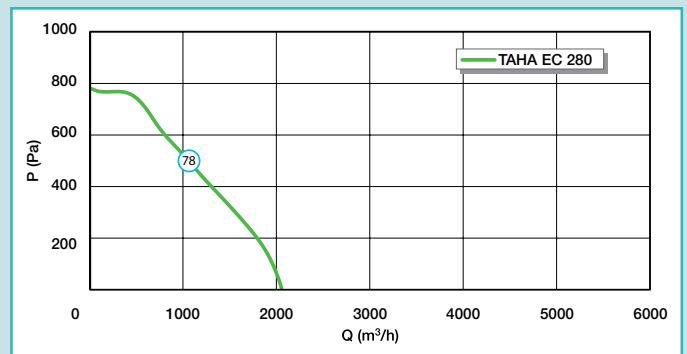
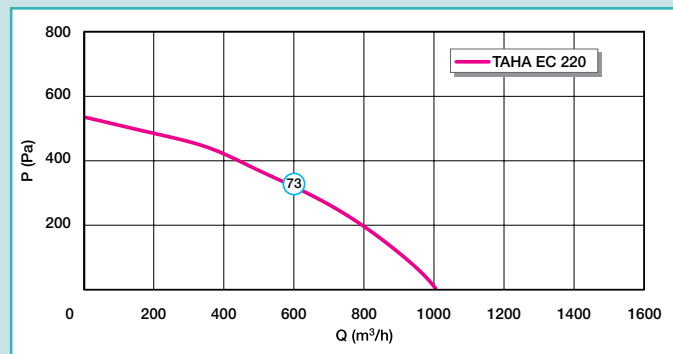
TAHA and TAVA

AIRFLOW DETAILS

TAHA



TAHA micro-watt



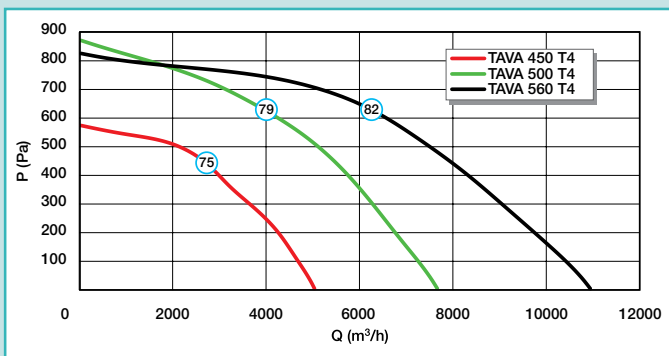
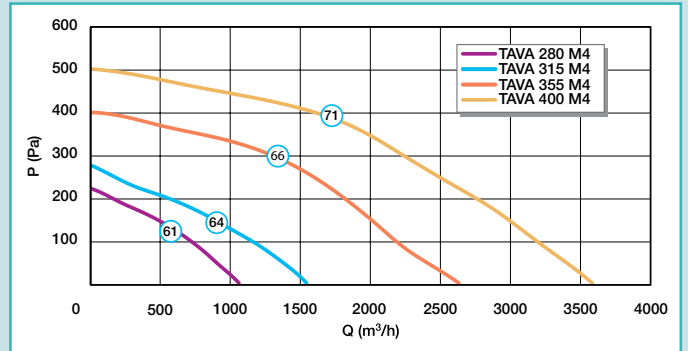
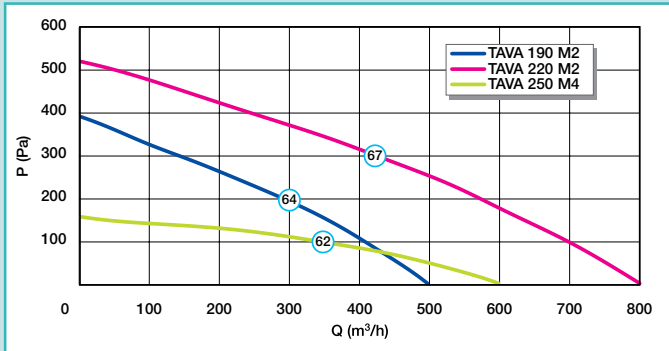
- Airflow curves established at 50Hz in accordance with NF-E 51.705.
- Sound power levels of fan unit in dB(A), air intake connected.

TAHA and TAVA air exhaust systems

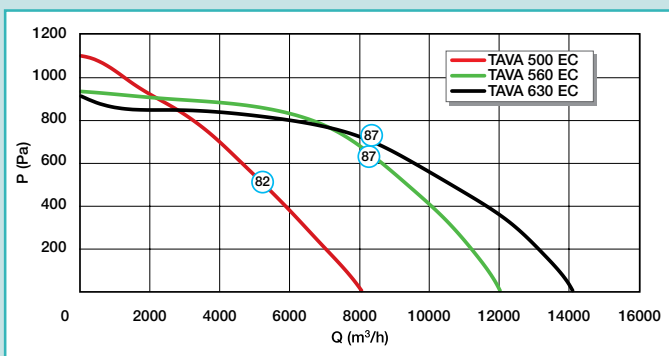
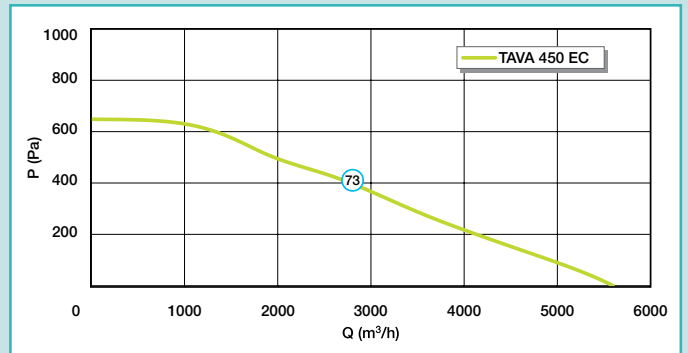
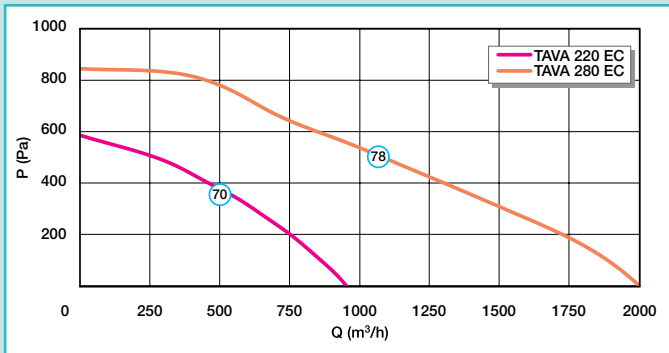
TAHA and TAVA

AIRFLOW DETAILS

TAVA



TAVA micro-watt

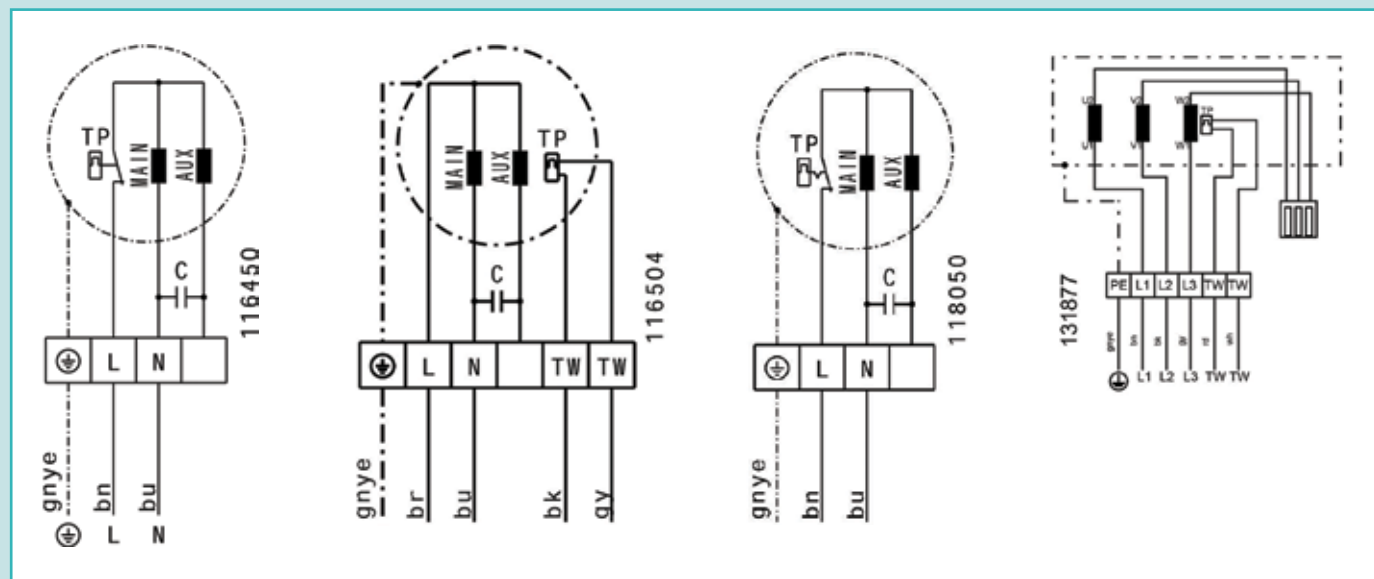


- Airflow curves established at 50Hz in accordance with NF-E 51.705.
- Sound power levels of fan unit in dB(A), air intake connected.

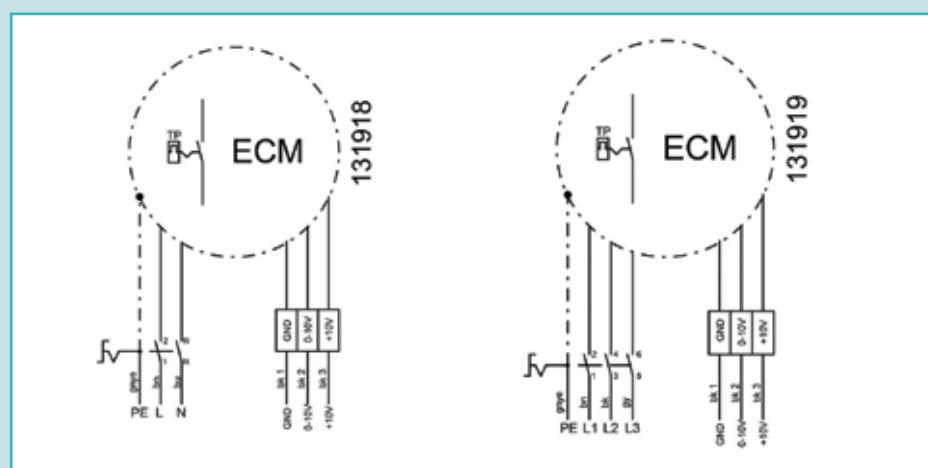
TAHA and TAVA air exhaust systems

TAHA and TAVA

ELECTRICAL CONNECTIONS



Code	Model	Wiring diagram
11024100	TAHA / TAVA 190 M2	118050
11024102	TAHA / TAVA 220 M2	
11024104	TAVA 250 M4	
11024105	TAVA 280 M4	
11024106	TAHA / TAVA 315 M4	
11024107	TAHA / TAVA 355 M4	116450
11024108	TAHA / TAVA 400 M4	
11024109	TAHA / TAVA 450 T4	
11024110	TAHA / TAVA 500 T4	116504
11024111	TAHA / TAVA 560 T4	
		131877

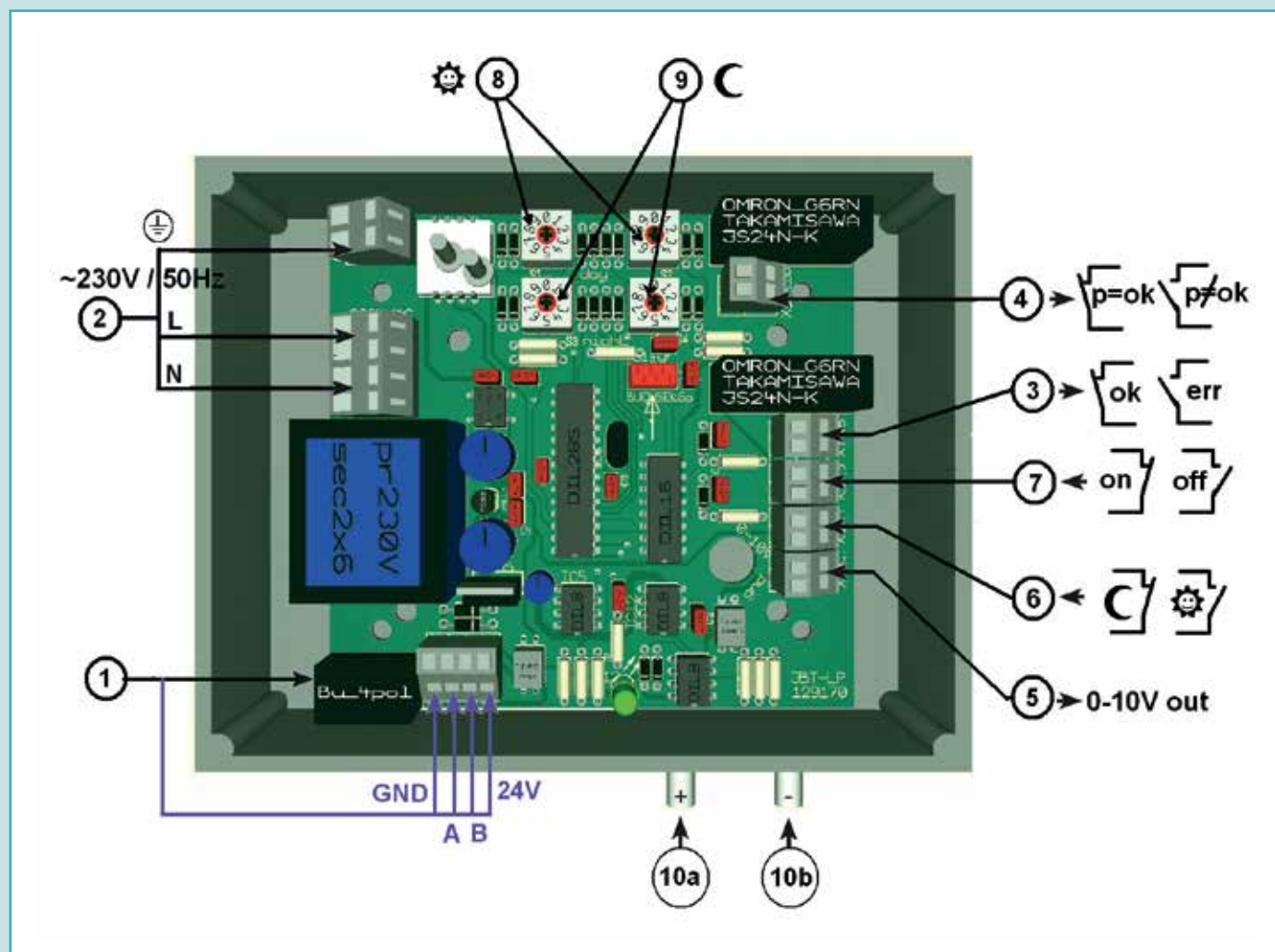


Code	Model	Wiring diagram
11024125	TAHA / TAVA 220 M MICRO-WATT	131918
11024127	TAHA / TAVA 280 M MICRO-WATT	
11024128	TAHA / TAVA 315 M MICRO-WATT	
11024131	TAHA / TAVA 450 T MICRO-WATT	131919
11024132	TAHA / TAVA 500 T MICRO-WATT	
11024133	TAHA / TAVA 560 T MICRO-WATT	

TAHA and TAVA air exhaust systems

TAHA and TAVA

CONTROL KIT



- ① Do not use for TAHA / TAVA micro-watt.
- ② Power supply.
- ③ Do not use for TAHA / TAVA micro-watt.
- ④ Free contact for set point reached alert e.g using a lamp (I max = 1A, U = 24V).
- ⑤ 0-10V signal for TAHA / TAVA micro-watt speed control.
- ⑥ Dry contact for switching between daytime setting and night time setting (open = daytime, closed = night time).
- ⑦ Do not use for TAHA / TAVA micro-watt.
- ⑧ Adjustment of daytime pressure setting (10 – 990 Pa). Adjust two potentiometers using a screwdriver: S1 = hundreds unit, S2 = tens unit).
- ⑨ Adjustment of night time pressure setting (10 – 990 Pa). Adjust two potentiometers using a screwdriver: S3 = hundreds unit, S4 = tens unit).
- ⑩ Differential pressure sensor connector. For TAHA / TAVA micro-watt: only connect 10b as pressure measured on exhaust " - ".

TAHA and TAVA air exhaust systems

TAHA and TAVA

MAINTENANCE

Servicing

- **Remove dust from the fan blades** and internal components as often as necessary and at least once a year, to prevent imbalance and wear on the bearings.
- **Do not use a high pressure spray or steam wash to clean the fan unit or the motor.**
- Check that the motor is correctly mounted.
- Check that there are no abnormal noises.
- The motors we install have sufficient lubrication for their service life and need no specific servicing.

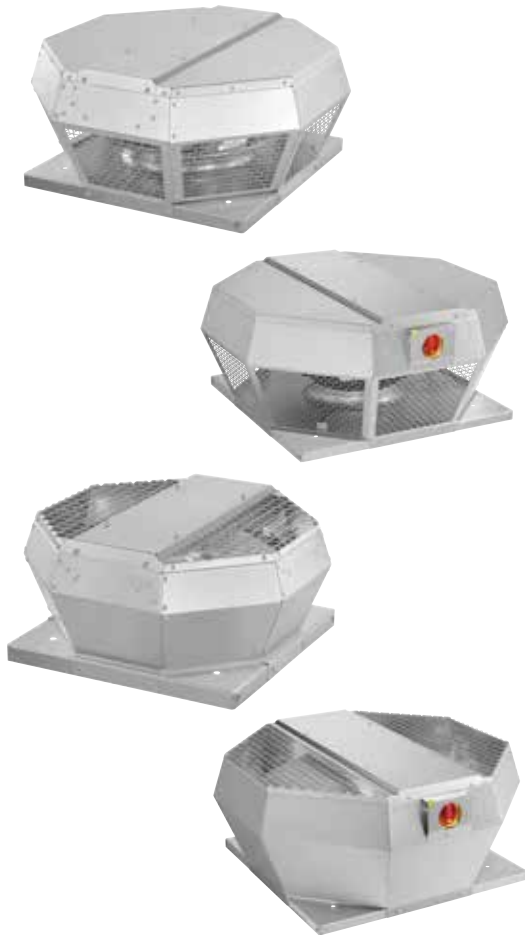
List of product spare parts

Code	Designation
11100488	TAHA/TAVA 190 M2 motorised impeller
11100490	TAHA/TAVA 220 M2 motorised impeller
11100492	TAVA 250 M4 motorised impeller
11100502	TAVA 280 M4 motorised impeller
11100495	TAHA/TAVA 315 M4 motorised impeller
11100503	TAHA/TAVA 355 M4 motorised impeller
11100504	TAHA/TAVA 400 M4 motorised impeller
11100505	TAHA/TAVA 450 T4 motorised impeller
11100506	TAHA/TAVA 500 T4 motorised impeller
11100507	TAHA/TAVA 560 T4 motorised impeller
11100491	TAHA/TAVA 220 M micro-watt motorised impeller
11100494	TAHA/TAVA 280 M micro-watt motorised impeller
11100498	TAHA/TAVA 450 M micro-watt motorised impeller
11100499	TAHA/TAVA 500 T micro-watt motorised impeller
11100500	TAHA/TAVA 560 T micro-watt motorised impeller



Exhaust ventilation

TAHA and TAVA



Principle

- Extracts stale air from dwellings or commercial premises.
- Vertical or horizontal discharge.
- Fitted on sloping or flat roof.

Advantages

- Airflow between 500 and 16,000 m³/h.
- Energy-efficient micro-watt ranges with EC motor.
- Constant pressure control kit (optional on micro-watt).
- Sleek design.
- Wide range of fitting accessories.

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