

Installation manual

Solace - Axial fan

TP200/BA: Basic

TP200/RT: with Timer

TP200/HT: with Humidistat/Timer

Read this manual carefully before using the product and keep it in a safe place for reference.

This product was constructed up to standard and in compliance with regulations relating to electrical equipment and must be installed by technically qualified personnel. The manufacturer assumes no responsibility for damage to persons or property resulting from failure to observe the regulations contained in this booklet.



Fig. 1

PRECAUTIONS FOR INSTALLATION, USE AND MAINTENANCE

- The device should not be used for applications other than those specified in this manual.
- After removing the product from its packaging, verify its condition. In case of doubt, contact a qualified technician. Do not leave packaging within the reach of small children or people with disabilities.
- Do not touch the appliance with wet or damp hands/feet.
- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
- Do not use the product in the presence of flammable vapours, such as alcohol, insecticides, gasoline, etc.
- If any abnormalities in operation are detected, disconnect the device from the mains supply and contact a qualified technician immediately. Use original spare parts only for repairs.
- The electrical system to which the device is connected must comply with regulations.
- Before connecting the product to the power supply or the power outlet, ensure that:
 - the data plate (voltage and frequency) correspond to those of the electrical mains
 - the electrical power supply/socket is adequate for maximum device power. If not, contact a qualified technician.
- The device should not be used as an activator for water heaters, stoves, etc., nor should it discharge into hot air/fume vent ducts deriving from any type of combustion unit. It must expel air outside via its own special duct.
- Operating temperature: 0°C up to +50°C.
- The device is designed to extract clean air only, e.g. without grease, soot, chemical or corrosive agents, or flammable or explosive mixtures.
- Do not leave the device exposed to atmospheric agents (rain, sun, snow, etc.).
- Do not immerse the device or its parts in water or other liquids.
- Turn off the main switch whenever a malfunction is detected or when cleaning.
- For installation an omnipolar switch should be incorporated in the fixed wiring, in 1

accordance with the wiring regulations, to provide a full disconnection under overvoltage category III conditions (contact opening distance equal to or greater than 3mm).

- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- Do not obstruct the fan or exhaust grille to ensure optimum air passage.
- Ensure adequate air return into the room in compliance with existing regulations in order to ensure proper device operation.
- If the environment in which the product is installed also houses a fuel-operating device (water heater, methane stove etc., that is not a “sealed chamber” type), it is essential to ensure adequate air intake, to ensure good combustion and proper equipment operation.
- Install the product so that the impeller is not accessible from the air outlet side as verified by contact with the Test Finger in compliance with the current safety regulations.

• Ceiling installation

In order to guarantee the IPX4 degree of protection against moisture in case of ceiling installation, use the appropriate ceiling mount kit (TP202), which is not included. Use only the rear entry hole for supply cables. If there is a possibility of condensation along the air discharge duct, provide a drainage system to prevent condensation from discharging into the environment through the fan.

Attention: do not mount the product on the ceiling without this kit.

• Window installation

In case of window installation it is necessary to use the appropriate window kit, which is not included.

Attention: do not mount the product on the window without this kit.

INTRODUCTION

Solace (fig. 1) is an axial fan designed to ensure air extraction in small/medium-sized rooms such as bathrooms, toilets and kitchens.

Suitable for air discharge directly to the outside or in the presence of short ducted system. Wall, ceiling or window installation (fig. 2).

TECHNICAL SPECIFICATIONS

- Material: high quality, impact and UV-resistant ABS colour RAL 9010.
- Design front cover removable for cleaning without the use of tools.
- Rear reinforcement ring to prevent spigot deformation during installation.
- High efficiency aerodynamic fan with “winglet” blades to optimise quietness and efficiency.
- Single phase EC Brushless motor with integral thermal protection.
- Motor mounted on high quality ball bearings.
- The fan is double insulated: no earth connection is required.
- Trickle speed selectable during installation: 6, 8, 13l/s or off.
- Option to boost from trickle (or from off) through LS connection.
- Installation type selection available (through wall or ducted).
- IPX4 degree of protection.
- Max. consumption of fan is approximately 50mA.
- Power supply 220V to 240V~ 50Hz.

Model	Airflow		Static pressure Pa max	Power W max	Sound pressure dB(A) @3m
	m ³ /h	l/s			
Solace	83/47/29/21	23.1/13/8/6	27	2.5	26/23/13/11

VERSIONS

BASIC

The fan runs continuously at selected trickle speed (set by the jumper switch combination - fig. 16) and can be boosted with a dedicated ON/OFF switch (or PIR, CO2... sensor) or with a light switch (fig. 14A). Trickle speed can be set to off.

WITH OVER-RUN TIMER

The fan is provided with over-run timer, adjustable from 0 to approx. 30 minutes via trimmer (fig. 15B).

The fan runs continuously at selected trickle speed (set by the jumper switch combination - fig. 16) and can be boosted with a dedicated ON/OFF switch (or PIR, CO2... sensor) or with a light switch (fig. 14B). Trickle speed can be set to off.

When the external switch is turned on, the fan is boosted. After the external switch is turned off, the fan continues to run at boost speed for a settable period of time, then it returns to selected trickle speed. The over-run timer function is activated only if the external switch has been on for at least 60 seconds.

WITH HUMIDISTAT/TIMER

The fan is equipped with a humidity sensor, whose threshold is adjustable from 50% to 95% Relative Humidity via dedicated trimmer, and with a timer which is adjustable from 0 to approx. 30 minutes via dedicated trimmer (fig. 15C).

The fan runs continuously at selected trickle speed (set by the jumper switch combination - fig. 16), increases its speed in case the percentage of Relative Humidity exceeds the settable threshold, and can anyway be boosted with a dedicated ON/OFF switch (or PIR, CO2... sensor) or with a light switch (fig. 14C). Trickle speed can be set to off.

To deactivate the humidistat function, turn the trimmer HY completely clockwise.

Automatic humidistat operation: when the percentage of Relative Humidity exceeds the settable threshold, fan speed automatically increases to “comfort boost” speed, which is intermediate between the selected trickle speed and the boost speed. When the percentage of Relative Humidity goes below the threshold, the fan continues to function at “comfort boost” speed for a factory set period of time then returns to selected trickle speed.

Operation with external switch: when the external switch is turned on, the fan is boosted. After the external switch is turned off, the fan continues to run at boost speed for a settable period of time, then it returns to selected trickle speed (or to “comfort boost” speed in case automatic humidistat operation is on). The front cover LED indicates when the external switch is on. The over-run timer function is activated only if the external switch has been on for at least 60 seconds.

INSTALLATION TYPE SETTING

Installation type can be selected using JUMPER 1 between the following options: through wall or ducted (fig. 16).

TRICKLE SPEED SETTING

Trickle speed can be selected using JUMPER 2 and JUMPER 3 between the following options: 6, 8, 13/s or off (fig. 16).

STANDARD CONFORMITY

2014/35/EC Low Voltage Directive (LVD)

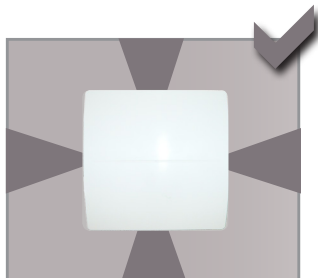
2014/30/EC Electromagnetic Compatibility (EMC),

in conformity with the following standards:

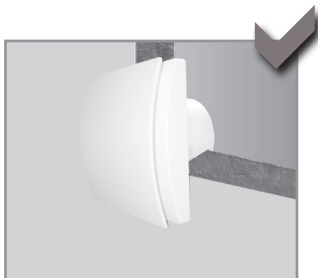
Electrical Safety: EN60335-1(2012)+A11+A13; EN 60335-2-80(2003)+A1+A2.

Electromagnetic Compatibility: EN 55014-1(2017); EN 55014-2(2015); EN 61000-3-2(2014); EN 61000-3-3(2013).

INSTALLATION (Fig.2)



perimetrical exhausting



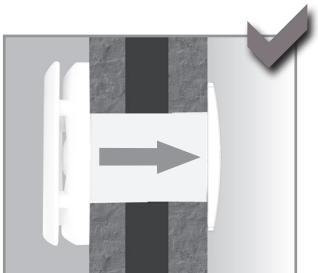
wall



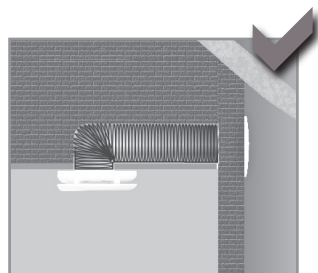
ceiling (accessory on demand)



window (kit on demand)

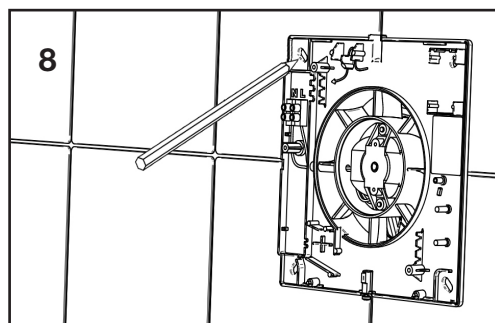
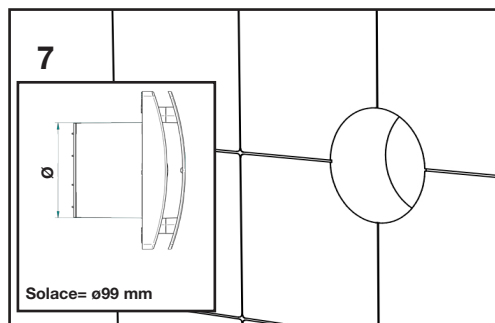
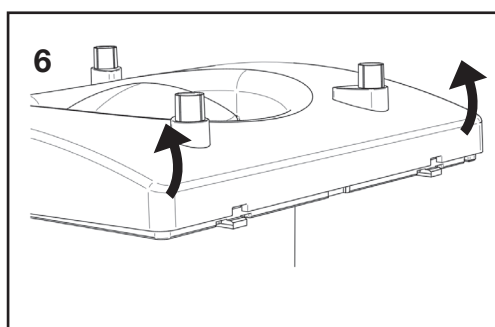
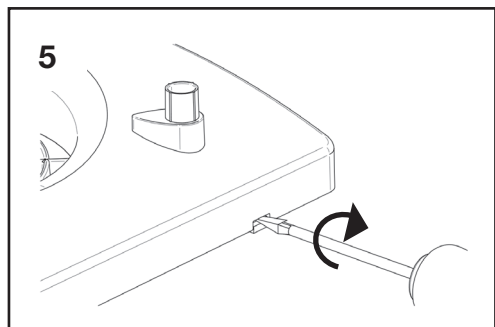
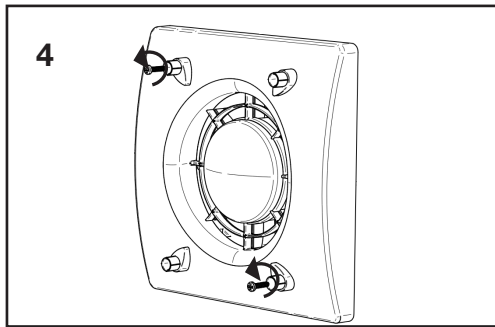
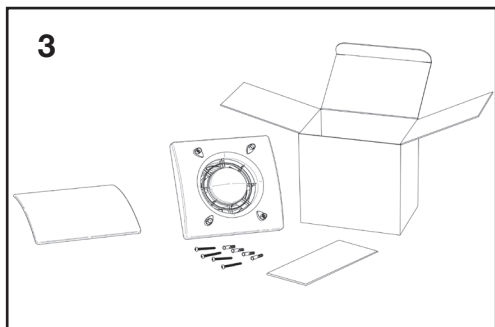


direct exhausting



short ducting

MOUNTING AND ELECTRICAL WIRING

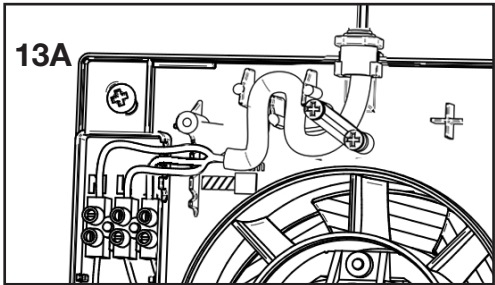
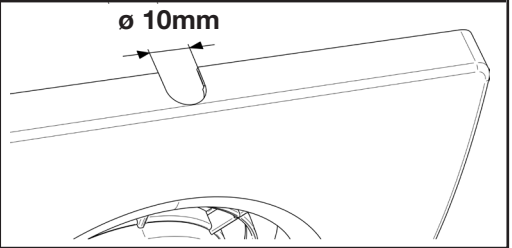
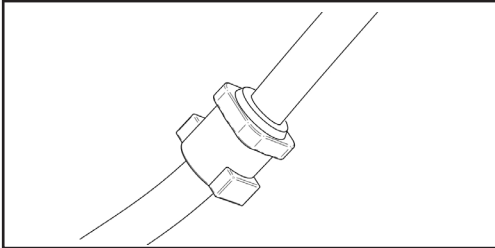
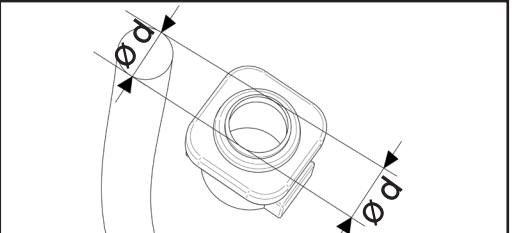
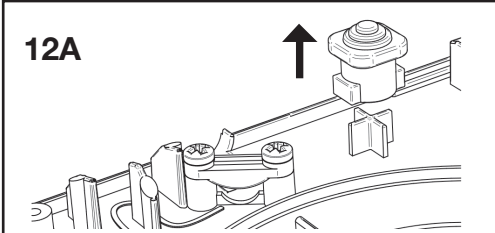
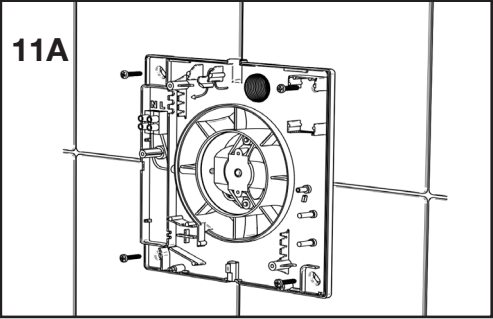
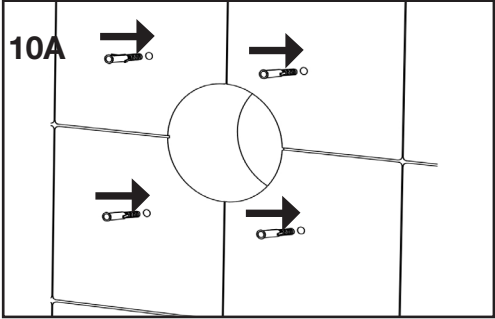
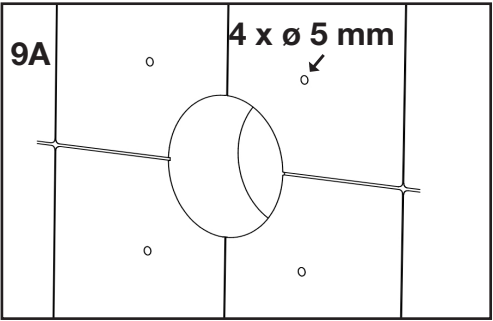


SURFACE CABLE

H03VV-F ; H05VV-F

3 X 0.5 ÷ 1.5 mm²

4 X 0.5 ÷ 1 mm²

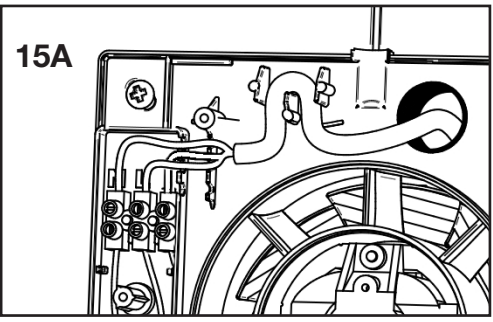
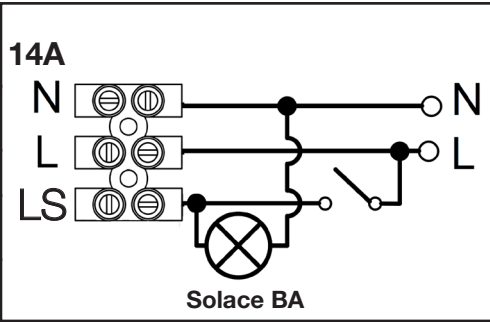
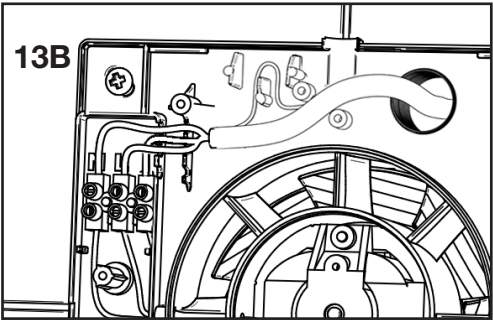
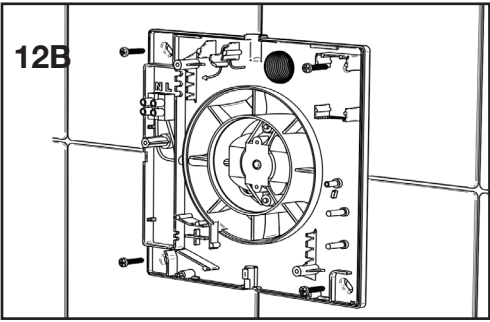
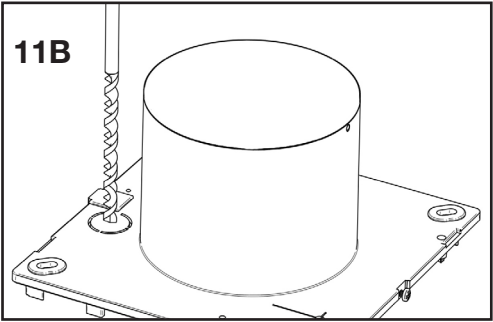
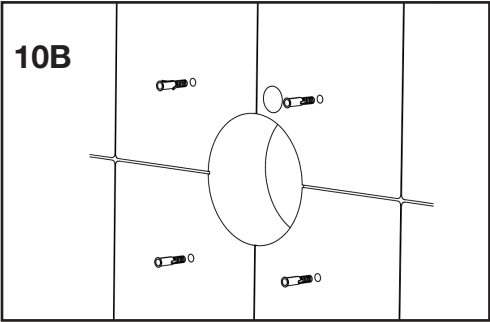
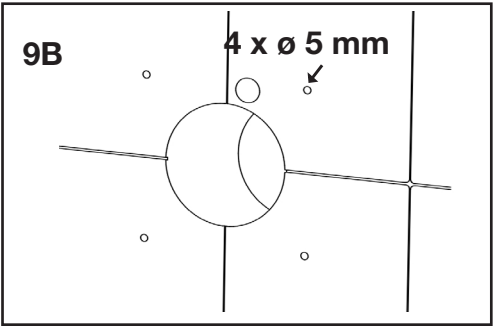


RECESSED CABLE ENTRY

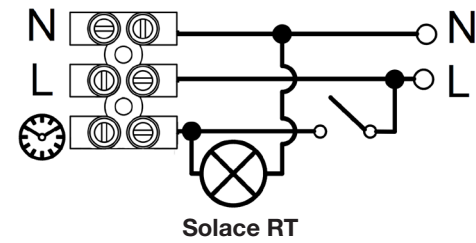
H03VV-F ; H05VV-F

3 X 0.5 ÷ 1.5 mm²

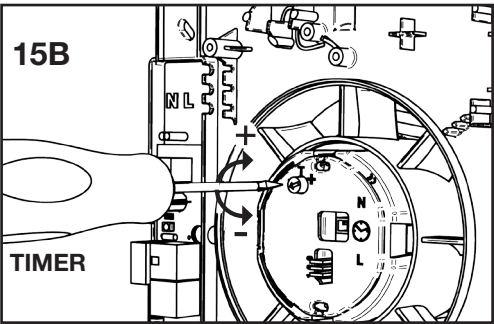
4 X 0.5 ÷ 1 mm²



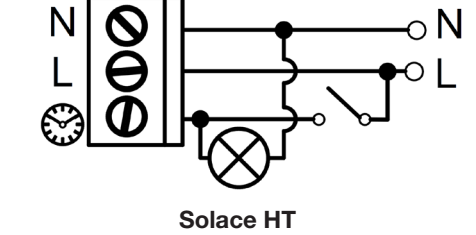
14B



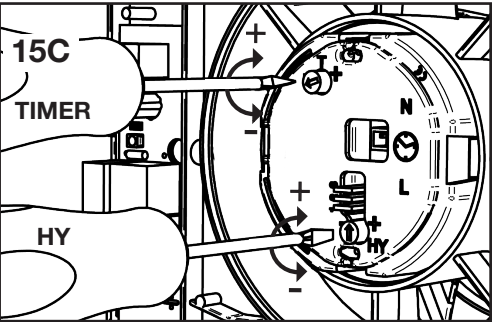
15B



14C



15C

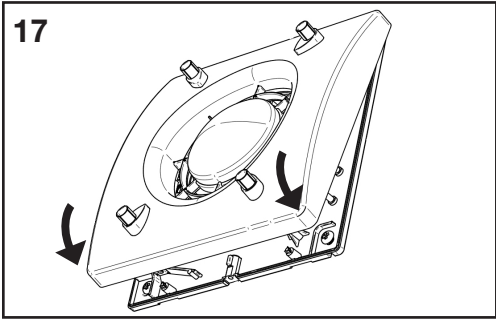


16

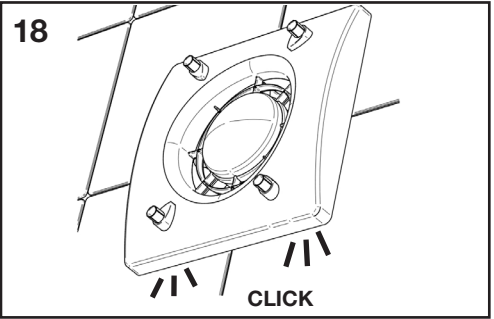
JUMPER			INSTALLATION	AIRFLOW
1	2	3		
			through wall	OFF
		✓	through wall	6l/s
	✓		through wall	8l/s
	✓	✓	through wall	13l/s
✓			in room	OFF
✓		✓	in room	6l/s
✓	✓		in room	8l/s
✓	✓	✓	in room	13l/s

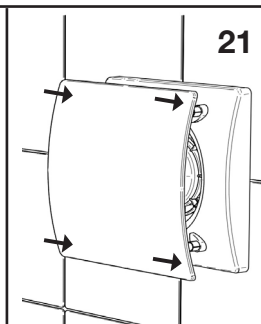
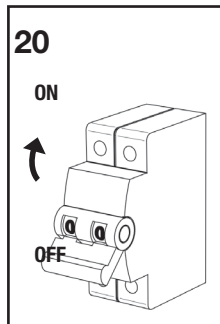
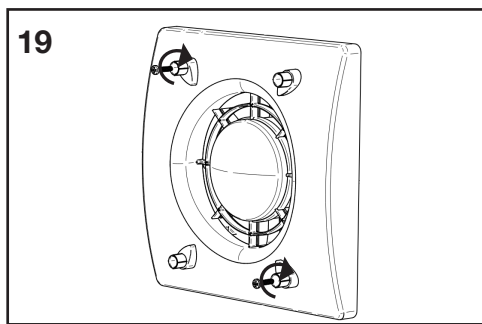
✓ = Jumper present

17

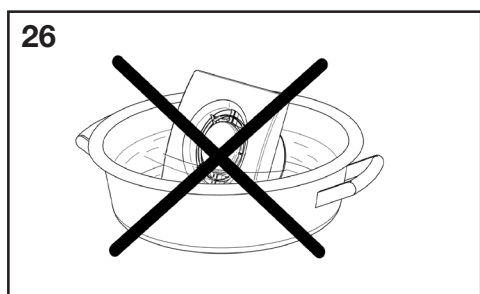
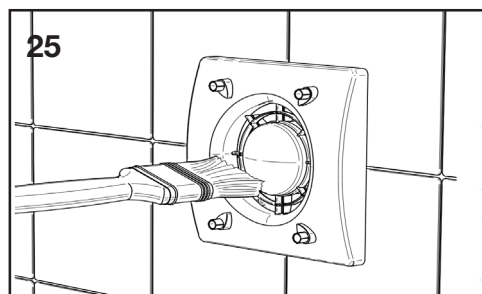
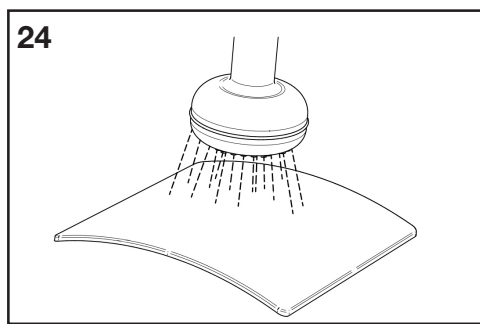
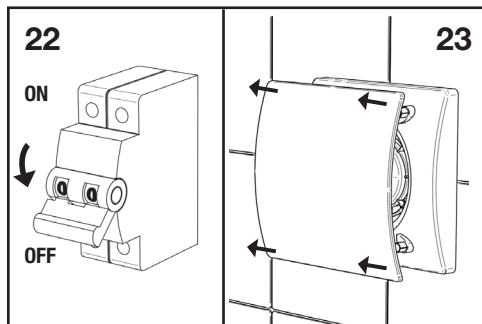


18





MAINTENANCE / CLEANING



DISPOSAL AND RECYCLING



Information on disposal of units at the end of life.

This product complies with EU Directive 2002/96/EC.

The symbol of the crossed-out dustbin indicates that this product must be collected separately from other waste at the end of its life. The user must, therefore, dispose of the product in question at suitable electronic and electro-technical waste disposal collection centres, or else send the product back to the retailer when purchasing a new, equivalent type device.

Separate collection of decommissioned equipment for recycling, treatment and environmentally compatible disposal helps to prevent negative effects on the environment and on health and promotes the recycling of the materials that make up the equipment.

Improper disposal of the product by the user may result in administrative sanctions as provided by law.

ErP Directive - Regulations 1253/2014 1254/2014

a)	Mark	-	TITON	
b)	Model	-	TP200/BA, TP200/RT	TP200/HT
c)	SEC class	-	E	C
c1)	SEC warm climates	kWh/m2.a	-5,4	-11,3
c2)	SEC average climates	kWh/m2.a	-13	-25,7
c3)	SEC cold climates	kWh/m2.a	-26,4	-50,7
	Energy label	-	No	
d)	Unit typology	-	Residential - unidirectional	
e)	Type of drive	-	multi speed drive	
f)	Type of Heat Recovery System	-	absent	
g)	Thermal efficiency of heat recovery	%	N/A	
h)	Maximum flow rate	m3/h	83	
i)	Electric power input at maximum flow rate	W	2,6	
j)	Sound power level (L_{WA})	dBA	44	
k)	Reference flow rate	m3/h	61	
l)	Reference pressure difference	Pa	10	
m)	Specific power input (SPI)	W/m3/h	0,028	
n1)	Control factor	-	1	0,65
n2)	Control typology	-	Manual control (no DCV)	Local demand control
o1)	Maximum internal leakage rate	%	N/A	
o2)	Maximum external leakage rate	%	N/A	
p1)	Internal mixing rate	%	N/A	
p2)	External mixing rate	%	N/A	
q)	Visual filter warning	-	N/A	
r)	Instructions to install regulated grilles	-	check the instruction booklet	
s)	Internet address for pre/disassembly instructions	-	www.titon.com	
t)	Airflow sensitivity to pressure variations	%	N/A	
u)	Indoor/outdoor air tightness	m3/h	52	
v1)	AEC - Annual electricity consumption - warm climates	kWh	0,4	0,2
v2)	AEC - Annual electricity consumption - average climates	kWh	0,4	0,2
v3)	AEC - Annual electricity consumption - cold climates	kWh	0,4	0,2
w1)	AHS - Annual heating saved - warm climates	kWh	6,3	11,9
w2)	AHS - Annual heating saved - average climates	kWh	14	26,2
w3)	AHS - Annual heating saved - cold climates	kWh	27,3	51,3



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