



USER MANUAL

TSK and TSK-V



Types of roof fan:

TSK

Code	Model	Speed (rpm)	Intensity Max (A)			Airflow (m3/h)	Sound Pressure level (dBA)	Weight Aprox (Kg)
			230V	400V	Power (kW)			
54001101	TSK-280-4T	1350	1,66	0,96	0,25	1450	37	25
54001102	TSK-280-4M	1380	0,65	-	0,25	1450	37	25
54001201	TSK-315-4T	1350	1,66	0,96	0,25	2100	41	25
54001202	TSK-315-4M	1380	0,95	-	0,25	2100	41	25
54001203	TSK-315-6T	900	1,51	0,87	0,25	1400	30	25
54001204	TSK-315-6M	890	0,5	-	0,25	1400	30	25
54001301	TSK-355-4T	1350	1,66	0,96	0,25	3100	45	32
54001302	TSK-355-4M	1380	1,35	-	0,25	3100	45	32
54001303	TSK-355-6T	900	1,51	0,87	0,25	2000	33	33
54001304	TSK-355-6M	890	0,65	-	0,25	2000	33	33
54001401	TSK-400-4T	1380	2,92	1,69	0,55	4950	48	35
54001402	TSK-400-4M	1380	3,3	-	0,55	4950	48	35
54001403	TSK-400-6T	900	2,24	1,3	0,37	3200	37	35
54001404	TSK-400-6M	910	0,95	-	0,37	3200	37	35
54001502	TSK-450-4T	1410	3,1	1,79	0,75	7000	55	52
54001503	TSK-450-4M	1380	4,4	-	0,75	7000	55	52
54001504	TSK-450-6T	900	2,24	1,3	0,37	4500	44	51
54001505	TSK-450-6M	910	1,8	-	0,37	4500	44	51
54001601	TSK-500-4T	1430	5,96	3,44	1,5	10200	59	60
54001602	TSK-500-6T	900	2,24	1,3	0,37	6900	47	53
54001603	TSK-500-6M	910	2	-	0,37	6900	47	53
54001701	TSK-630-6T	945	4,88	2,82	1,1	12000	51	95
54001702	TSK-630-8T	695	3,53	2,04	0,55	8900	44	95
54001801	TSK-710-6T	955	9,3	5,3	2,2	17300	54	115
54001802	TSK-710-8T	705	5,63	3,25	1,1	12900	46	102
54001901	TSK-800-6T	960	16,5	9,46	4	24700	58	160
54001902	TSK-800-8T	705	7,1	4,1	1,5	18400	50	142

TSK-V

Code	Model	Speed (rpm)	Intensity Max (A)			Airflow (m3/h)	Sound Pressure level (dBA)	Weight Aprox (Kg)
			230V	400V	Power (kW)			
54011101	TSKV-280-4T	1350	1,66	0,96	0,25	1450	37	25
54011102	TSKV-280-4M	1380	0,65	-	0,25	1450	37	25
54011201	TSKV-315-4T	1350	1,66	0,96	0,25	2100	41	25
54011202	TSKV-315-4M	1380	0,95	-	0,25	2100	41	25
54011203	TSKV-315-6T	900	1,51	0,87	0,25	1400	30	25
54011204	TSKV-315-6M	890	0,5	-	0,25	1400	30	25
54011301	TSKV-355-4T	1350	1,66	0,96	0,25	3100	45	32
54011302	TSKV-355-4M	1380	1,35	-	0,25	3100	45	32
54011303	TSKV-355-6T	900	1,51	0,87	0,25	2000	33	33
54011304	TSKV-355-6M	890	0,65	-	0,25	2000	33	33
54011401	TSKV-400-4T	1380	2,92	1,69	0,55	4950	48	35
54011402	TSKV-400-4M	1380	3,3	-	0,55	4950	48	35
54011403	TSKV-400-6T	900	2,24	1,3	0,37	3200	37	35
54011404	TSKV-400-6M	910	0,95	-	0,37	3200	37	35
54011501	TSKV-450-4T	1410	3,1	1,79	0,75	7000	55	52
54011502	TSKV-450-4M	1380	4,4	-	0,75	7000	55	52
54011503	TSKV-450-6T	900	2,24	1,3	0,37	4500	44	51
54011504	TSKV-450-6M	910	1,8	-	0,37	4500	44	51
54011601	TSKV-500-4T	1430	5,96	3,44	1,5	10200	59	60
54011602	TSKV-500-6T	900	2,24	1,3	0,37	6900	47	53
54011603	TSKV-500-6M	910	2	-	0,37	6900	47	53
54011701	TSKV-630-6T	945	4,88	2,82	1,1	12000	51	95
54011702	TSKV-630-8T	695	3,53	2,04	0,55	8900	44	95
54011802	TSKV-710-6T	955	9,3	5,3	2,2	17300	54	115
54011803	TSKV-710-8T	705	5,63	3,25	1,1	12900	46	102
54011901	TSKV-800-6T	960	16,5	9,46	4	24700	58	160
54011902	TSKV-800-8T	705	7,1	4,1	1,5	18400	50	142

1. Start

All fans produced by SISTEVEN, hereinafter the manufacturer, and the full line of accessories, have been manufactured in accordance with the strictest standards in relation to quality assurance, systems and production processes.

Their project, testing, manufacture and control structure has been configured in line with EU standards and regulations, especially in reference to current safety standards.

The materials used in our fans, and the standardized components of which they are made meet the same standards and, when so required, are backed up by the corresponding quality certificates.

The Original Manual was written in Spanish

The manufacturer reserves the right to make modifications without prior notice

All the documentation in this manual is the property of the manufacturer, and its total or partial reproduction is prohibited.

2. Product Definition

TSKV: 400°C/2h centrifugal roof fans with vertical outlet air, hood in aluminum.

TSK: 400°C/2h centrifugal roof fans with horizontal outlet air, hood in aluminum.

IMPORTANT:

This product is not suitable for use in explosive environments. (TSK-TSKV)

The maximum temperature of air to be transported is between -25°C and +80°C for ongoing use or 400°C/2h. (RFHD)

The maximum temperature of air to be transported is between -20°C and +80°C. (TSK-TSKV)

3. General Information

- Always check the products received.
- After unpacking the equipment, it must be checked to make sure that it is not damaged. Damaged products must never be installed.
- This equipment must not be used for purposes other than those for which it was designed; it must only operate under the conditions described in this manual.
- In the event of a defect or malfunction, this must be reported to the authorized representative, with a description of the problem, in order to coordinate its return or possible repair.

4. Transportation, storage and handling

- Always hold the equipment at the points provided for this. Do not lift it by the electrical cables, connection boxes, or the air inlet or outlet.
- Before installation, store the equipment in a clean, dry place, protected from inclement weather.

5. Safety

- Do not disassemble or modify the equipment. This could negatively affect the equipment or even cause accidents.
- Do not put your fingers or any objects into the protective grilles on ducts, inlet or outlet. If this were to occur, immediately disconnect the equipment's power supply.
- Never use a damaged power cable.
- Do not operate the equipment if it has been forcibly installed on a curved or unstable surface.
- Do not perform equipment inspection or maintenance without first checking the following:
That the equipment has been disconnected from the electrical supply and the safety switch is locked.
That all its components are at rest.

- The equipment must not be operated unless it has been properly installed and the inlet and outlet have been protected, if necessary.

In designing and manufacturing the various Series of the manufacturer's Fans and Extractors, Hazard Elimination has been taken into account, in order to meet the conditions for Integrated Safety.

When their configuration and manufacturing processes permit this, the manufacturer directly incorporates the most appropriate Safety Devices. If the conditions for installation or use mean that these devices cannot be incorporated at source, all additional safety accessories are available for implementation when the equipment is installed and before it is put into service.

6. Installation and Assembly

This equipment may only be installed by a qualified technician who is familiar with the installation, monitoring and maintenance of this type of equipment, and uses suitable tools.

Mechanical

- To ensure safe operation, the equipment must be firmly fixed.
- The installation must prevent contact with the fan's impeller, through the use of grilles, accessories, or by installing a connecting tube of a suitable length.
- The equipment must be installed in such a way that the whole of its surface area is adhered to the surface on which it is installed.
- The installation must be such that the weight of the duct system is not supported by the equipment.
- Once the mechanical assembly is complete, it is important to check that the impeller turns freely, with no friction or tension
- If there is a possibility of water condensing in the equipment, external preventive measures must be taken.

Electrical

- Check if the equipment is connected to the power source in accordance with the instructions on the cover of the connection box.
- For the electrical supply connection for this fan, special cable certified as compliant with fire regulations must be used, of a suitable cross-section for the current the fan uses. (RFV, RFH)
- Select a power cable with a suitable cross-section for the current used by the equipment. (RFHD)
- **IMPORTANT:** When the equipment is controlled by reducing the voltage, the motor current may be higher than the rated value.
- Check if the electrical characteristics stated on the plate correspond to the power supply.
- An external protective component must be connected (a relay, magneto-thermal protection system or fuse), in accordance with current regulations.
- The equipment's earth connection must be connected.
- If the motor speed control is used, it must be guaranteed that the motor will operate correctly.
- It is necessary to ensure a minimum rotation speed that will allow the extraction non-return valves to be activated (if they have been installed).

Start-up

- Before starting up the machine, check that all the joints and closures are correctly assembled, to prevent external particles or fluids entering the equipment.
- After starting up the motor, it is important to check that the motor is turning correctly, without vibrations or unusual noises.
- A check must be made to ensure that the motor's actual power consumption does not exceed the level stated on the equipment's label and that it does not heat up excessively.
- The machine must not be switched on and off intermittently, as this could damage the winding of the motor or the insulation, due to overheating.

7. Maintenance

Maintenance must be performed by qualified technicians.

- The bearings are greased and sealed for life. Nevertheless, changing them about every 20.000 hours effective running time is recommended.
- If the fan is not equipped with an air filter, the only maintenance required is to clean the impeller; this must be done at least once every six months.
- Care must be taken when cleaning the impeller, in order not to affect its balance.
- It is not advisable to use chemical cleaners or aggressive substances, as they could damage the equipment.
- If a part must be replaced, consult the distributor.

8. Disposal

Careless or negligent disposal of the equipment may cause contamination. The disposal process must be carried out in compliance with the standards and regulations applicable in the country.

9. Warranty

Incorrect use of the equipment and failure to follow up the instructions in this manual may result in the cancellation of the warranty.

10. Wiring diagrams

Voltaje (V)	Connection
380-415	Y
220-240	D

