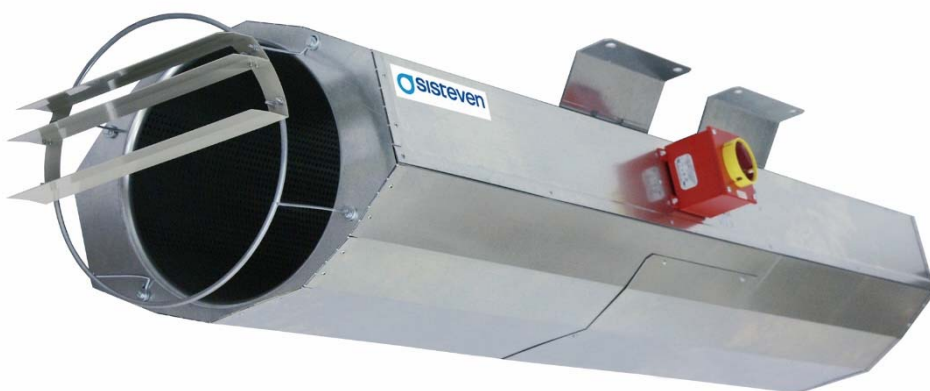




# USER MANUAL

JET TST and JET TST S



## Types of Jet fans:

JET TST UNI: Impulse axial fan single direction

JET TST S UNI: Impulse axial fan single direction (short case)

JET TST REV: Impulse axial fan reversible direction

JET TST S REV: Impulse axial fan reversible direction (short case)

Code	Model	Speed (rpm)	Intensity Max (A)		Airflow (m3/h)	Thrust (N)	Speed Inlet	Power (kW)	Sound Pressure level (dBA)	Weight Aprox (Kg)
			400V							
52023001	JET TST-UNI-29-2/AT-F-400	2860 / 1430	1,5 / 0,55		4000 / 2000	21 / 5	16,8 / 8,4	0,55 / 0,15	37 / 22	69
52023002	JET TST-UNI-35-2/AT-F-400	2875 / 1430	2,1 / 0,8		6360 / 3180	36 / 9	17,8 / 8,9	0,85 / 0,2	52 / 37	70
52023003	JET TST-UNI-38-2/AT-1,5 F400	2900 / 1450	2,9 / 1,1		8450 / 4225	57 / 15	20,7 / 10,3	1,1 / 0,25	47 / 32	94
52023004	JET TST-UNI-40-2/AT-1,5 F400	2900 / 1450	2,9 / 1,1		9250 / 4625	60 / 15	20,4 / 10,2	1,1 / 0,25	53 / 38	104
52023005	JET TST-UNI-45-2/AT-2 F400	2940 / 1460	4,4 / 1,4		10800 / 5400	62 / 15	18,1 / 9	1,5 / 0,37	57 / 42	140
52023006	JET TST-UNI-45-2/AT-3 F400	2930 / 1450	5,7 / 1,8		13200 / 6600	92 / 23	22,1 / 11,0	2,2 / 0,6	58 / 43	141
52023007	JET TST-UNI-50-2/AT-6 F400	2930 / 1450	10 / 3,2		19700 / 9850	165 / 41	26,4 / 13,2	4,5 / 1,3	60 / 45	234
52021001	JET TST-S-UNI-29-2/AT-F-400	2860 / 1430	1,5 / 0,55		4000 / 2000	21 / 5	16,8 / 8,4	0,55 / 0,15	39 / 24	55
52021002	JET TST-S-UNI-35-2/AT-F-400	2875 / 1430	2,1 / 0,8		6360 / 3180	36 / 9	17,8 / 8,9	0,85 / 0,2	54 / 39	56
52021003	JET TST-S-UNI-38-2/AT-1,5 F400	2900 / 1450	2,9 / 1,1		8450 / 4225	57 / 15	20,7 / 10,3	1,1 / 0,25	49 / 34	76
52021004	JET TST-S-UNI-40-2/AT-1,5 F400	2900 / 1450	2,9 / 1,1		9250 / 4625	60 / 15	20,4 / 10,2	1,1 / 0,25	55 / 40	83
52021005	JET TST-S-UNI-45-2/AT-2 F400	2940 / 1460	4,4 / 1,4		10800 / 5400	62 / 15	18,1 / 9	1,5 / 0,37	59 / 44	112
52021006	JET TST-S-UNI-45-2/AT-3 F400	2930 / 1450	5,7 / 1,8		13200 / 6600	92 / 23	22,1 / 11,0	2,2 / 0,6	60 / 45	113
52021007	JET TST-S-UNI-50-2/AT-6 F400	2930 / 1450	10 / 3,2		19700 / 9850	165 / 41	26,4 / 13,2	4,5 / 1,3	62 / 47	187
52024001	JET TST-REV-29-2/AT-F-400	2860 / 1430	1,5 / 0,55		3400 / 1700	15 / 4	14,3 / 7,1	0,55 / 0,15	38 / 23	67
52024002	JET TST-REV-35-2/AT-F-400	2875 / 1430	2,1 / 0,8		5940 / 2970	31 / 8	16,7 / 8,3	0,85 / 2	51 / 36	70
52024003	JET TST-REV-38-2/AT-1,5 F400	2940 / 1460	4,4 / 1,4		8200 / 4100	54 / 14	20,1 / 10	1,5 / 0,37	49 / 34	97
52024004	JET TST-REV-40-2/AT-1,5 F400	2940 / 1460	4,4 / 1,4		9250 / 4625	60 / 15	20,4 / 10,2	1,5 / 0,37	52 / 37	106
52024005	JET TST-REV-45-2/AT-2 F400	2940 / 1460	4,4 / 1,4		10300 / 5150	56 / 14	17,2 / 8,6	1,5 / 0,37	56 / 41	139
52024006	JET TST-REV-45-2/AT-3 F400	2930 / 1450	5,7 / 1,8		12800 / 6400	87 / 22	21,4 / 10,7	2,2 / 0,6	57 / 42	141
52024007	JET TST-REV-50-2/AT-6 F400	2930 / 1450	10 / 3,2		19000 / 9500	153 / 38	25,4 / 12,7	4,5 / 1,3	60 / 45	284
52022001	JET TST-S-REV-29-2/AT-F-400	2860 / 1430	1,5 / 0,55		3400 / 1700	15 / 4	14,3 / 7,1	0,55 / 0,15	40 / 25	55
52022002	JET TST-S-REV-35-2/AT-F-400	2875 / 1430	2,1 / 0,8		5940 / 2970	31 / 8	16,7 / 8,3	0,85 / 2	53 / 38	56
52022003	JET TST-S-REV-38-2/AT-1,5 F400	2940 / 1460	4,4 / 1,4		8200 / 4100	54 / 14	20,1 / 10	1,5 / 0,37	51 / 36	77
52022004	JET TST-S-REV-40-2/AT-1,5 F400	2940 / 1460	4,4 / 1,4		9250 / 4625	60 / 15	20,4 / 10,2	1,5 / 0,37	53 / 39	85
52022005	JET TST-S-REV-45-2/AT-2 F400	2940 / 1460	4,4 / 1,4		10300 / 5150	56 / 14	17,2 / 8,6	1,5 / 0,37	58 / 43	111
52022006	JET TST-S-REV-45-2/AT-3 F400	2930 / 1450	5,7 / 1,8		12800 / 6400	87 / 22	21,4 / 10,7	2,2 / 0,6	59 / 44	113
52022007	JET TST-S-REV-50-2/AT-6 F400	2930 / 1450	10 / 3,2		19000 / 9500	153 / 38	25,4 / 12,7	4,5 / 1,3	62 / 47	227
52031001	JET TST-UNI-29-2/AT-F-300	2860 / 1430	1,5 / 0,55		4000 / 2000	21 / 5	16,8 / 8,4	0,55 / 0,15	37 / 22	69
52031001	JET TST-UNI-35-2/AT-F-300	2875 / 1430	2,1 / 0,8		6360 / 3180	36 / 9	17,8 / 8,9	0,85 / 0,2	52 / 37	70
52031001	JET TST-UNI-38-2/AT-1,5 F300	2900 / 1450	2,9 / 1,1		8450 / 4225	57 / 15	20,7 / 10,3	1,1 / 0,25	47 / 32	94
52031001	JET TST-UNI-40-2/AT-1,5 F300	2900 / 1450	2,9 / 1,1		9250 / 4625	60 / 15	20,4 / 10,2	1,1 / 0,25	53 / 38	104
52031001	JET TST-UNI-45-2/AT-2 F300	2940 / 1460	4,4 / 1,4		10800 / 5400	62 / 15	18,1 / 9	1,5 / 0,37	57 / 42	140
52031001	JET TST-UNI-45-2/AT-3 F300	2930 / 1450	5,7 / 1,8		13200 / 6600	92 / 23	22,1 / 11,0	2,2 / 0,6	58 / 43	141
52031001	JET TST-UNI-50-2/AT-6 F300	2930 / 1450	10 / 3,2		19700 / 9850	165 / 41	26,4 / 13,2	4,5 / 1,3	60 / 45	234
52031001	JET TST-S-UNI-29-2/AT-F-300	2860 / 1430	1,5 / 0,55		4000 / 2000	21 / 5	16,8 / 8,4	0,55 / 0,15	39 / 24	55
52031002	JET TST-S-UNI-35-2/AT-F-300	2875 / 1430	2,1 / 0,8		6360 / 3180	36 / 9	17,8 / 8,9	0,85 / 0,2	54 / 39	56
52031003	JET TST-S-UNI-38-2/AT-1,5 F300	2900 / 1450	2,9 / 1,1		8450 / 4225	57 / 15	20,7 / 10,3	1,1 / 0,25	49 / 34	76
52031004	JET TST-S-UNI-40-2/AT-1,5 F300	2900 / 1450	2,9 / 1,1		9250 / 4625	60 / 15	20,4 / 10,2	1,1 / 0,25	55 / 40	83
52031005	JET TST-S-UNI-45-2/AT-2 F300	2940 / 1460	4,4 / 1,4		10800 / 5400	62 / 15	18,1 / 9	1,5 / 0,37	59 / 44	112
52031006	JET TST-S-UNI-45-2/AT-3 F300	2930 / 1450	5,7 / 1,8		13200 / 6600	92 / 23	22,1 / 11,0	2,2 / 0,6	60 / 45	113
52031007	JET TST-S-UNI-50-2/AT-6 F300	2930 / 1450	10 / 3,2		19700 / 9850	165 / 41	26,4 / 13,2	4,5 / 1,3	62 / 47	187
52034001	JET TST-REV-29-2/AT-F-300	2860 / 1430	1,5 / 0,55		3400 / 1700	15 / 4	14,3 / 7,1	0,55 / 0,15	38 / 23	67
52034002	JET TST-REV-35-2/AT-F-300	2875 / 1430	2,1 / 0,8		5940 / 2970	31 / 8	16,7 / 8,3	0,85 / 2	51 / 36	70
52034003	JET TST-REV-38-2/AT-1,5 F300	2940 / 1460	4,4 / 1,4		8200 / 4100	54 / 14	20,1 / 10	1,5 / 0,37	49 / 34	97
52034004	JET TST-REV-40-2/AT-1,5 F300	2940 / 1460	4,4 / 1,4		9250 / 4625	60 / 15	20,4 / 10,2	1,5 / 0,37	52 / 37	106
52034005	JET TST-REV-45-2/AT-2 F300	2940 / 1460	4,4 / 1,4		10300 / 5150	56 / 14	17,2 / 8,6	1,5 / 0,37	56 / 41	139
52034006	JET TST-REV-45-2/AT-3 F300	2930 / 1450	5,7 / 1,8		12800 / 6400	87 / 22	21,4 / 10,7	2,2 / 0,6	57 / 42	141
52034007	JET TST-REV-50-2/AT-6 F300	2930 / 1450	10 / 3,2		19000 / 9500	153 / 38	25,4 / 12,7	4,5 / 1,3	60 / 45	284
52032001	JET TST-S-REV-29-2/AT-F-300	2860 / 1430	1,5 / 0,55		3400 / 1700	15 / 4	14,3 / 7,1	0,55 / 0,15	40 / 25	55
52032002	JET TST-S-REV-35-2/AT-F-300	2875 / 1430	2,1 / 0,8		5940 / 2970	31 / 8	16,7 / 8,3	0,85 / 2	53 / 38	56
52032003	JET TST-S-REV-38-2/AT-1,5 F300	2940 / 1460	4,4 / 1,4		8200 / 4100	54 / 14	20,1 / 10	1,5 / 0,37	51 / 36	77
52032004	JET TST-S-REV-40-2/AT-1,5 F300	2940 / 1460	4,4 / 1,4		9250 / 4625	60 / 15	20,4 / 10,2	1,5 / 0,37	53 / 39	85
52032005	JET TST-S-REV-45-2/AT-2 F300	2940 / 1460	4,4 / 1,4		10300 / 5150	56 / 14	17,2 / 8,6	1,5 / 0,37	58 / 43	111
52032006	JET TST-S-REV-45-2/AT-3 F300	2930 / 1450	5,7 / 1,8		12800 / 6400	87 / 22	21,4 / 10,7	2,2 / 0,6	59 / 44	113
52032007	JET TST-S-REV-50-2/AT-6 F300	2930 / 1450	10 / 3,2		19000 / 9500	153 / 38	25,4 / 12,7	4,5 / 1,3	62 / 47	227

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

## 2. Product Definition

JET TST / S: 300°C or 400°C single or reversible direction.

**IMPORTANT:** This product is not suitable for use in explosive environments.

The ideal temperature of air to be transported through a JET TST / S is between -20°C and +70°C for ongoing use.

## 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.
- Before starting up the equipment, it is important to ensure the safety and installation instructions in this document have been read.

## 4. Transport, storage and handling

- Always hold the equipment at the points provided for this. Do not lift by 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 object 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
- Sufficient space must be provided for opening the hatch cover.
- The equipment must be installed in such a way that the whole of the area is attached to the surface on which it is mounted; it has built-in fixing points for this purpose.
- When installing a single-direction unit, ensure that the direction of airflow is correct in accordance with arrows indicating flow direction through 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 connection diagram in this document.
- For the electrical supply connection for this fan, special cable certified as compliant with fire regulations must be used, of suitable cross-section for the current the fan uses.
- **IMPORTANT:** When the equipment is controlled by reducing the voltage, the motor current may be higher than the rated value.
- Check in the electrical characteristics must be connected ( a relay, magneto-thermal protection system or fuse), in the accordance with the 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.

### Start-up

- 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 maintained 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

