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Sodeca CAM-545-2T-4, 1010401

High-Pressure Centrifugal Fan

MODEL CAM-545-2T-4 (REFERENCE: 1010401)

Brand: Sodeca

1. PRODUCT OVERVIEW

The Sodeca CAM-545-2T-4 is a high-pressure, single-suction centrifugal fan designed for industrial applications. It features a robust construction with a steel sheet casing and an aluminum cast turbine, ensuring durability and efficient performance.



Figure 1: Sodeca CAM-545-2T-4 High-Pressure Centrifugal Fan. This image shows the overall beige-colored fan unit with its distinctive spiral casing and rectangular outlet.

Key Features:

- High-pressure centrifugal fan with 3Kw power.
- Manufactured by Sodeca, a specialist in industrial fan design.
- Compact dimensions: 65.4 x 47.4 x 77.2 centimeters.
- Equipped with an IE3 efficiency motor (for powers $\geq 0.75\text{kW}$, excluding single-phase, 2-speed, and 8-pole).
- Class F motors with ball bearings and IP55 protection.
- Suitable for air transport temperatures from -20°C to $+120^{\circ}\text{C}$.
- Anti-corrosive polyester resin finish, polymerized at 190°C .

2. SAFETY INFORMATION

Read all safety instructions carefully before installation, operation, or maintenance of the fan. Failure to comply with these instructions may result in serious injury or damage to the equipment.

- **Electrical Safety:** Ensure the fan is properly grounded. All electrical connections must be performed by a qualified electrician in accordance with local and national electrical codes. Disconnect power before any installation, maintenance, or repair work.
- **Moving Parts:** Keep hands, clothing, and tools clear of the fan's rotating parts during operation. Install appropriate guards if the fan is accessible.
- **Ventilation:** Ensure adequate ventilation in the installation area to prevent overheating of the motor.
- **Temperature Limits:** Do not operate the fan outside the specified air transport temperature range (-20°C to $+120^{\circ}\text{C}$).
- **Mounting:** Securely mount the fan on a stable, level surface capable of supporting its weight (68 kg) and operational vibrations.
- **Personal Protective Equipment (PPE):** Always wear appropriate PPE, such as safety glasses, gloves, and hearing protection, when working with the fan.

3. COMPONENTS AND PARTS

The Sodeca CAM-545-2T-4 centrifugal fan consists of the following primary components:

- **Casing:** Constructed from durable steel sheet, providing protection for internal components.
- **Turbine:** An aluminum cast turbine (or steel sheet for models 752, 880, and 980) designed for high-pressure air movement.
- **Motor:** An IE3 efficiency motor (for powers $\geq 0.75\text{kW}$), Class F insulated, with ball bearings and IP55 protection. Available in three-phase configurations: 230/400V-50Hz (up to 4kW) and 400/690V-50Hz (above 4kW).
- **Inlet and Outlet:** Designed for single aspiration and efficient air discharge.
- **Mounting Base:** Integrated base for secure installation.

4. SETUP AND INSTALLATION

Proper installation is crucial for the fan's performance and longevity. It is highly recommended that installation be performed by qualified personnel.

4.1. Unpacking and Inspection

- Carefully remove the fan from its packaging.
- Inspect the fan for any signs of shipping damage. Report any damage to the carrier immediately.
- Verify that all components listed in the packing list are present.

4.2. Mounting

- Select a stable, level, and vibration-free mounting surface capable of supporting the fan's 68 kg weight.
- Ensure sufficient clearance around the fan for airflow, maintenance, and service access.
- Secure the fan to the mounting surface using appropriate fasteners through the designated mounting holes on the base.

4.3. Electrical Connection

- Before connecting, ensure the power supply matches the fan's voltage requirements (230/400V-50Hz or 400/690V-50Hz).
- All wiring must comply with local and national electrical codes.
- Connect the fan to a dedicated circuit with appropriate overcurrent protection.
- Ensure proper grounding to prevent electrical shock.
- Consult the motor's wiring diagram (usually found on the motor's terminal box cover) for correct connections.

4.4. Ductwork Connection (if applicable)

- Connect the inlet and outlet ducts to the fan using flexible connectors to minimize vibration transmission.
- Ensure ductwork is properly sealed to prevent air leakage.
- Avoid sharp bends or obstructions in the ductwork that could impede airflow.

5. OPERATION

Once installed and all safety checks are complete, the fan can be operated.

5.1. Pre-Operation Checks

- Verify all electrical connections are secure.
- Ensure no foreign objects are in the fan's inlet or outlet.
- Confirm all guards are in place.

5.2. Starting the Fan

- Turn on the main power supply to the fan.
- Listen for any unusual noises or vibrations during startup. If any are detected, immediately shut down the fan and investigate the cause.
- Allow the fan to reach its operating speed.

5.3. Shutting Down the Fan

- Turn off the power supply to the fan using the designated switch.
- For extended periods of non-use or maintenance, disconnect the main power at the circuit breaker.

6. MAINTENANCE

Regular maintenance is essential to ensure the fan's optimal performance and extend its lifespan. Always disconnect power before performing any maintenance.

6.1. Cleaning

- Periodically inspect and clean the fan impeller and casing to prevent dust and debris buildup, which can reduce efficiency and cause imbalance.
- Use a soft brush or compressed air for cleaning. Avoid using harsh chemicals that could damage the finish.

6.2. Bearing Inspection

- The motor is equipped with sealed ball bearings (IP55 protection) that typically do not require lubrication.
- Listen for unusual bearing noises (grinding, squealing) during operation. If detected, consult a qualified technician.

6.3. Electrical Checks

- Periodically check electrical connections for tightness and signs of corrosion.
- Inspect the power cable for any damage.

6.4. General Inspection

- Check for loose fasteners, excessive vibration, or unusual odors.
- Ensure the fan's mounting is secure.

7. TROUBLESHOOTING

This section provides solutions to common issues. For problems not listed here, or if solutions do not resolve the issue, contact a qualified technician or Sodeca support.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Fan does not start	No power supply; tripped circuit breaker; faulty wiring; motor issue.	Check power supply; reset circuit breaker; inspect wiring (by qualified electrician); contact service.
Excessive noise or vibration	Loose mounting; unbalanced impeller (due to dirt/damage); worn bearings.	Tighten mounting bolts; clean impeller; inspect impeller for damage; contact service for bearing replacement.
Reduced airflow	Blocked inlet/outlet; dirty impeller; ductwork obstruction; incorrect motor speed.	Clear obstructions; clean impeller; check ductwork; verify motor wiring/speed settings.
Motor overheating	Insufficient ventilation; excessive load; motor fault.	Ensure adequate ventilation; check for airflow obstructions; contact service.

8. SPECIFICATIONS

Detailed technical specifications for the Sodeca CAM-545-2T-4 Centrifugal Fan.

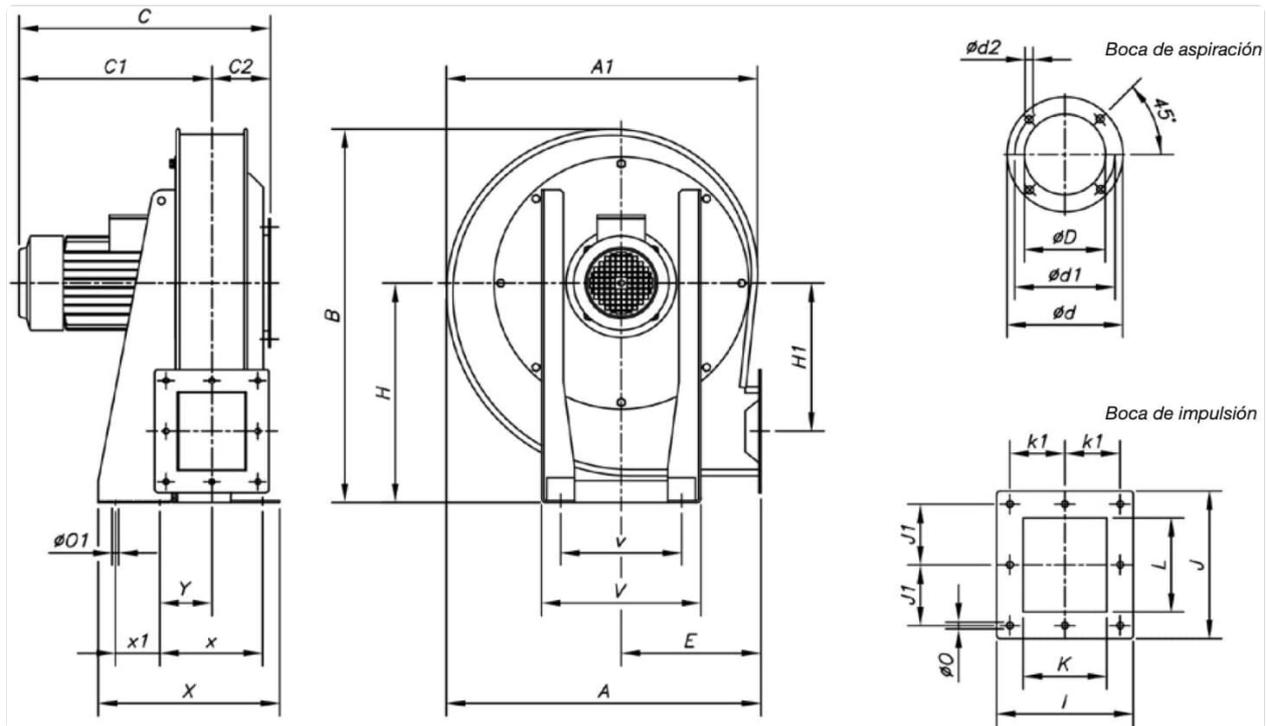


Figure 2: Technical drawing showing detailed dimensions and aspiration/impulsion ports of the Sodeca CAM-545-2T-4 fan.

Attribute	Value
Manufacturer	Sodeca
Manufacturer Product Identifier	1010401
Product Model Number	1010401
Product Dimensions (L x W x H)	65.4 x 47.4 x 77.2 cm

Attribute	Value
Product Weight	68 kg
Color	Beige
Included Components	Centrifugal fan unit
Batteries Required	No
Motor Efficiency	IE3 (for powers $\geq 0.75\text{kW}$, except single-phase, 2-speed, 8-pole)
Motor Protection	IP55
Motor Voltage/Frequency	Three-phase 230/400V-50Hz (up to 4kW), 400/690V-50Hz (above 4kW)
Max Air Transport Temperature	-20°C to +120°C
Finish	Anti-corrosive polyester resin
ASIN	B08S9739WR
First Available on Amazon.es	January 6, 2021

9. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided with your purchase or contact your point of sale. Sodeca products are designed for durability and performance, backed by their expertise in industrial ventilation.

For technical support, spare parts, or service inquiries, please contact Sodeca directly or your authorized distributor. You can find contact information on the official Sodeca website: www.sodeca.com

When contacting support, please have your product model number (CAM-545-2T-4 or 1010401) and serial number (if applicable) ready.

	<p>SODECA HATCH/HP Dynamic Smoke Exhaust Ventilators - Technical Data</p> <p>Detailed technical specifications, performance data, acoustic characteristics, dimensions, and installation information for SODECA HATCH/HP dynamic smoke exhaust ventilators with high thermal efficiency enclosures, designed for smoke evacuation in case of fire.</p>
	<p>SODECA PURI-50 Air Purifier: User Manual, Specifications, and Operation Guide</p> <p>Comprehensive user manual for the SODECA PURI-50 Air Purifier. Includes safety warnings, operating instructions, technical specifications, maintenance, cleaning, and FAQ. Learn how to use and care for your PURI-50.</p>
	<p>SODECA Catálogo de Preços Março 2022: Soluções de Ventilação e Purificação de Ar</p> <p>Consulte a tabela de preços de março de 2022 da SODECA para soluções de ventilação e purificação de ar. Descubra ventiladores industriais e domésticos, sistemas de desenfumagem, pressurização e mais.</p>
	<p>SODECA: Ventiladores y Extractores Industriales para Atmosferas Explosivas ATEX</p> <p>Descubra la gama de ventiladores y extractores industriales 'Heavy Duty' de SODECA, diseñados para aplicaciones exigentes, incluyendo atmósferas explosivas (ATEX), entornos marinos, químicos y más. Cumplimiento de normativas y alta eficiencia.</p>
	<p>SODECA EC Technology Solutions: Advanced Ventilation Systems</p> <p>Explore SODECA's comprehensive range of EC Technology ventilation solutions, including industrial fans, extractors, and air purifiers designed for energy efficiency and optimal performance. Discover technical specifications and product benefits.</p>
	<p>Grundfos Alldos High Pressure Injectors Installation and Operating Instructions</p> <p>This document provides comprehensive installation and operating instructions for Grundfos Alldos high-pressure injectors, models 545-1380, 545-1380.1, 545-1381, 545-1381.1, 545-1382, and 545-1382.1. It covers safety information, technical data, installation, commissioning, operation, maintenance, spare parts, and dimensioning tables.</p>



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ECODESIGN INFORMATION AirtechnicCAM 545 2T 3 IE3 A Static VSD not necessary 1 04 67 73 9 2
239 1618 3343 2920 CAM 4 61 2vmcustom files 735 1713783284airtechnic gr media plg vmcustom
1713783284 |||

ECODESIGN INFORMATION According to Regulation EU No 327/2011 of the European Commission, implement ... Speed e N kw Efficiency Efficiency grade Input power Model CAM-540-2T IE3 CAM-545-2T-3 IE3 **CAM-545-2T-4** IE3 CAM-550-2T-5.5 IE3 CAM-550-2T-7.5 IE3 CAM-752-2T-7.5 IE3 CAM-752-2T-10 IE3 CAM-760-...
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CAM
High pressure, single inlet, centrifugal fans with sheet steel casing and cast aluminium impeller.

Order code: **IE3** **IE2** **IE1** **IE0**

Technical characteristics table:

Model	Speed	Maximum air flow (m³/s)	Max. pressure (Pa)	Max. power (kW)	Efficiency (%)	Energy class
CAM-540-2T-IE3	900	1.50	1200	0.50	80	IE3
CAM-545-2T-3-IE3	900	2.00	1500	0.70	80	IE3
CAM-545-2T-4-IE3	900	2.00	1500	0.70	80	IE3
CAM-550-2T-5.5-IE3	900	2.50	1800	0.90	80	IE3
CAM-550-2T-7.5-IE3	900	3.00	2100	1.10	80	IE3
CAM-752-2T-7.5-IE3	1450	3.00	2100	1.10	80	IE3
CAM-752-2T-10-IE3	1450	3.50	2400	1.30	80	IE3
CAM-760-2T-10-IE3	1450	4.00	2700	1.50	80	IE3

Acoustic characteristics table:

Model	Speed	Max. sound power level (dB)	Max. sound pressure level (dB)
CAM-540-2T-IE3	900	75	65
CAM-545-2T-3-IE3	900	80	70
CAM-545-2T-4-IE3	900	80	70
CAM-550-2T-5.5-IE3	900	85	75
CAM-550-2T-7.5-IE3	900	90	80
CAM-752-2T-7.5-IE3	1450	90	80
CAM-752-2T-10-IE3	1450	95	85
CAM-760-2T-10-IE3	1450	100	90

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CAM High pressure, single inlet, centrifugal fans with sheet steel casing and cast aluminium impelle ... 900 r/min 50 Hz Motor power HP Technical characteristics Model CAM-540-2T IE3 CAM-545-2T-3 IE3 **CAM-545-2T-4** IE3 CAM-550-2T-5.5 IE3 CAM-550-2T-7.5 IE3 CAM-752-2T-7.5 IE3 CAM-752-2T-10 IE3 CAM-760-...
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TABELA DE PREÇOS
MARCHA 2022



[SODECA Catálogo de Preços Março 2022: Soluções de Ventilação e Purificação de Ar](#)

Consulte a tabela de preços de março de 2022 da SODECA para soluções de ventilação e purificação de ar. Descubra ventiladores industriais e domésticos, sistemas de desenfumagem, pressurização e mais.

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SOLUÇÕES EM VENTILAÇÃO E PURIFICAÇÃO DE AR

INDUSTRIAL FANS
CATÁLOGO GENERAL



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Sodeca Industrial Fans coevagi 2024 01 |||

INDUSTRIAL FANS CATLOGO GENERAL Ventiladores diseñados para satisfacer todo tipo demandas de aplica ... fsico polos motor 2=2900 r/min 50 Hz Potencia motor CV Modelo CAM-540-2T IE3 CAM-545-2T-3 IE3 **CAM-545-2T-4** IE3 CAM-550-2T-5.5 IE3 CAM-550-2T-7.5 IE3 CAM-752-2T-7.5 IE3 CAM-752-2T-10 IE3 CAM-760-... lang:es score:16 filesize: 72.64 M page_count: 340 document date: 2022-05-26

Edición 2024

INDUSTRIAL FANS
GENERAL CATALOGUE



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INDUSTRIAL FANS GENERAL CATALOGUE Fans designed to meet any kind of industrial application req ... 900 r/min 50 Hz Motor power HP Technical characteristics Model CAM-540-2T IE3 CAM-545-2T-3 IE3 **CAM-545-2T-4** IE3 CAM-550-2T-5.5 IE3 CAM-550-2T-7.5 IE3 CAM-752-2T-7.5 IE3 CAM-752-2T-10 IE3 CAM-760-... lang:en score:16 filesize: 47.01 M page_count: 340 document date: 2024-12-13

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MARZO 2022



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SEPTIEMBRE 2021

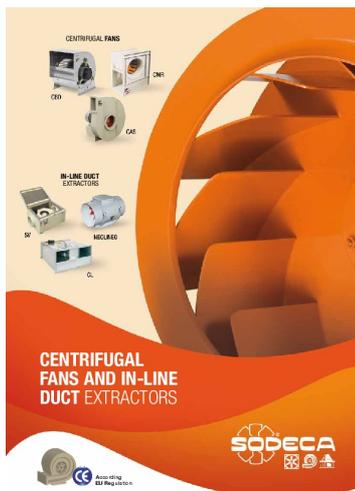


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TARIFA PRECIOS
SEPTIEMBRE 2021

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TARIFA PRECIOS SEPTIEMBRE 2021 VENTILATION AND AIR PURIFICATION SOLUTIONS SODECA centra su activi ... y turbina en fundicin de aluminio COD MOD 1010396 CAM-540-2T IE3 1010400 CAM-545-2T-3 IE3 **1010401 CAM-545-2T-4 IE3** 1010405 CAM-550-2T-5.5 IE3 1010407 CAM-550-2T-7.5 IE3 1010410 CAM-752-2T-7.5 IE3 10...

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EXTRACTORES HELICOIDALES MURALES PARED

• Serie HCD

Código	Artículo	€	IVA (21%)
VE 92 134	HCD-50-400	900	107,25
VE 92 136	HCD-50-400	900	115,40
VE 92 137	HCD-50-400	1.200	138,24
VE 92 138	HCD-60-400	1.200	144,00
VE 92 139	HCD-60-400	1.100	132,40

• Serie HCD (Antidiflagrante)

Código	Artículo	€	IVA (21%)
VE 92 772	HCDP-20-400	800	95,20
VE 92 774	HCDP-20-400	1.700	201,30
VE 92 776	HCDP-30-400	2.800	334,76
VE 92 778	HCDP-40-400	4.400	528,44
VE 92 779	HCDP-40-400	6.400	770,24
VE 92 780	HCDP-40-400	8.400	1.008,00
VE 92 781	HCDP-50-400	800	95,20
VE 92 782	HCDP-50-400	1.700	201,30
VE 92 783	HCDP-50-400	2.800	334,76
VE 92 784	HCDP-50-400	4.400	528,44
VE 92 785	HCDP-50-400	6.400	770,24
VE 92 786	HCDP-50-400	8.400	1.008,00
VE 92 787	HCDP-60-400	8.000	960,00

• Serie HRE (Rotor Externo)

Código	Artículo	€	IVA (21%)
VE 92 273	HRE-20-400	1.000	120,00
VE 92 274	HRE-20-400	1.700	201,30
VE 92 275	HRE-20-400	2.200	264,20
VE 92 276	HRE-20-400	1.500	178,50
VE 92 277	HRE-20-400	2.200	264,20
VE 92 278	HRE-20-400	1.500	178,50
VE 92 279	HRE-20-400	2.200	264,20
VE 92 280	HRE-20-400	1.500	178,50
VE 92 281	HRE-20-400	2.200	264,20
VE 92 282	HRE-20-400	1.500	178,50
VE 92 283	HRE-20-400	2.200	264,20
VE 92 284	HRE-20-400	2.400	288,00

VENTILACION INDUSTRIAL

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