400 Series JD T4F

Portable compressor

Standard Scope of Supply

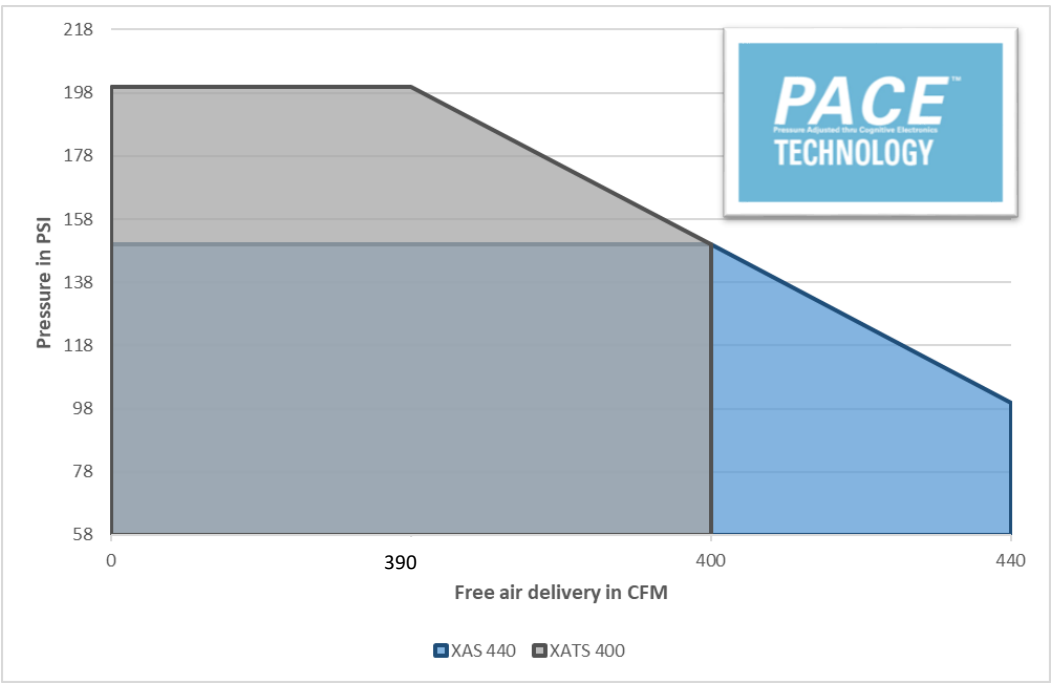
The Atlas Copco **400 Series JD T4F** is a single-stage, oil-injected, rotary screw type air compressor, powered by a liquid-cooled, four-cylinder turbocharged diesel engine.

The unit consists of an air end, diesel engine with exhaust treatment, cooling circuit, air/oil separation and control systems - all enclosed within a sound dampened HardHat™ enclosure.

A range of undercarriage formats, factory and locally installed options are available.

Special attention has been given to the overall product quality, user friendliness, ease of serviceability, and economical operation to ensure best in class cost of ownership.

Pressure and Flow



Available Models

XAS 440 JD T4F	single stage – 100 to 150 psi – John Deere engine
XATS 400 JD T4F	single stage – 150 to 200 psi – John Deere engine

Features	Benefits
• John Deere T4F engine	• Meets all current T4F emission regulations. • Integrated exhaust aftertreatment makes T4F integration easy • 5 Year extended warranty from factory on John Deere Engine (must be registered with John Deere to qualify).
• Atlas Copco Controller XC2003 PACE Pressure Adjusted through Cognitive Electronics	• Proven controller for easy operation and diagnostics of the compressor and engine. • Allows operator to view compressor parameters including: Pressure settings, reading engine codes, two programmable service timers, all temperatures and pressures of compressor, fuel levels and consumptions, and load/unload compressor.
• Low Fuel Shutdown	• Reduces downtime on site when operator runs out of fuel as there is no longer a need to “re-prime” the fuel system
• Heavy Duty Single Axle Trailer w/ 15" tires	• Well balanced for safer towing or moving around site • High ground clearance for rough site and road conditions
• HardHat™ enclosure	• Heavy ¼” double wall polyethylene enclosure • Dent and UV Resistant • Keeps looking new for longer and adds to resale value
• Cold Weather Package	• Features required for reliable cold weather operation. Including: synthetic compressor oil (Paroil S) and block heater.
• 110% Spillage Free Containment Frame	• Protects environment from spill/ leaks, avoids costly clean up

Optional Features	Benefits
• Aftercooler, water separator w/ filters	• Provides cool, dry, clean air for applications where instrument quality air is required.

Technical Data

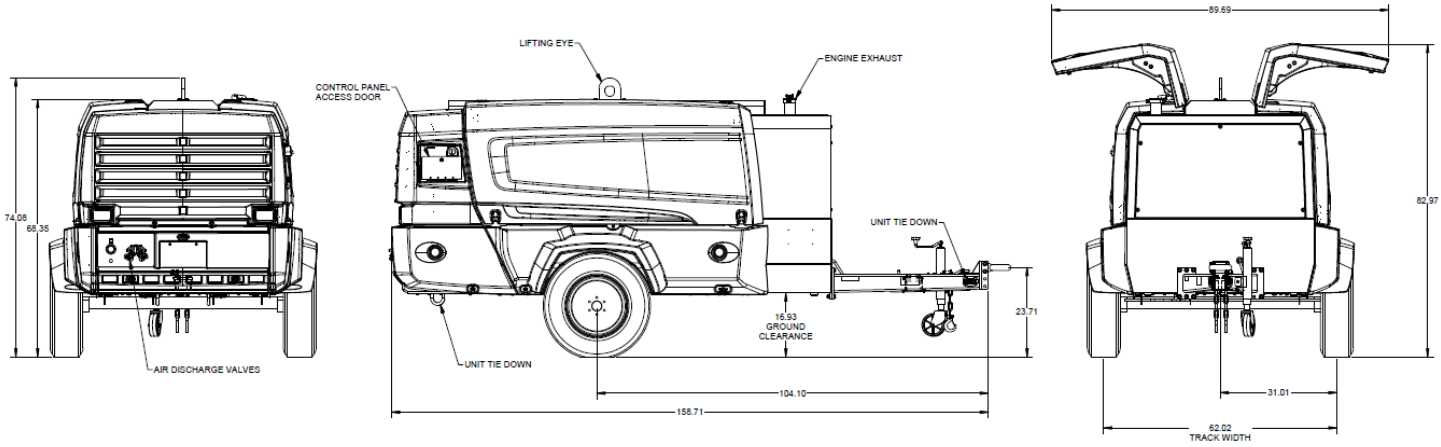
Compressor		XAS 440 JD T4F		XATS 400 JD T4F	
Actual free air delivery[1] (FAD)	Cfm	440	400	397	390
Normal effective working pressure	Psi	100	150	150	200
Maximum unloading pressure	Psi	175		175 (225)	
Minimum working pressure	Psi	58		58	
Max. sound pressure level @ 23' (7m) at normal working speed & pressure[2]	dB(a)	76		76	
Compression Stages		1		1	
Air Receiver Capacity	US Gal (L)	11 (41.6)		11 (41.6)	
Compressor oil capacity	US Gal (L)	6.3 (23.8)		6.3 (23.8)	
Approximate air outlet temperature	°F (°C)	200 (93)		200 (93)	
Air Compressor outlets		2 x ¾" & 1 x 1 ½"		2 x ¾" & 1 x 1 ½"	
Max. ambient temperature (at sea level)[3]	°F (°C)	115 (46)		115 (46)	
Maximum altitude	Ft (m)	14,000 (4267)		14,000 (4267)	
Minimum starting temperature (without cold weather options)	°F (°C)	14 (-10)		14 (-10)	
Minimum starting temperature (with cold weather options)	°F (°C)	-4 (-20)		-4 (-20)	

Engine	John Deere	4045HFC04	4045HFC04
Emissions Regulation	US EPA Tier	T4F	T4F
Output at rated speed (2400 rpm)	HP	134	148
Number of cylinders		4	4
Aspiration		Turbocharged	Turbocharged
Displacement	cu in (L)	269 (4.5)	269 (4.5)
Engine speed (Unloaded)	Rpm	1500	1500
Engine speed (Maximum loaded)	Rpm	2400	2250
Engine oil capacity	US Gal (L)	5.4 (20.5)	5.4 (20.5)
Engine oil required		Low Ash Oil per API CJ-4, ACEA C9	
Engine coolant capacity	US Gal (L)	6.25 (23.6)	6.25 (23.6)
Fuel tank capacity	US Gal (L)	52 (197)	52 (197)
Fuel consumption at 0% load	Gal/Hr (L/Hr)	1.7 (6.4)	1.7 (6.4)
Fuel consumption at 100% load	Gal/Hr (L/Hr)	6.5 (24.5)	6.5 (24.5)
DEF tank capacity	US Gal (L)	5.7 (21.7)	5.7 (21.7)
DEF consumption at 100% load	Gal/Hr (L/Hr)	0.30 (1,1)	0.30 (1,1)
Battery Capacity (Cold Cranking Amps[4])	A	1100	1100

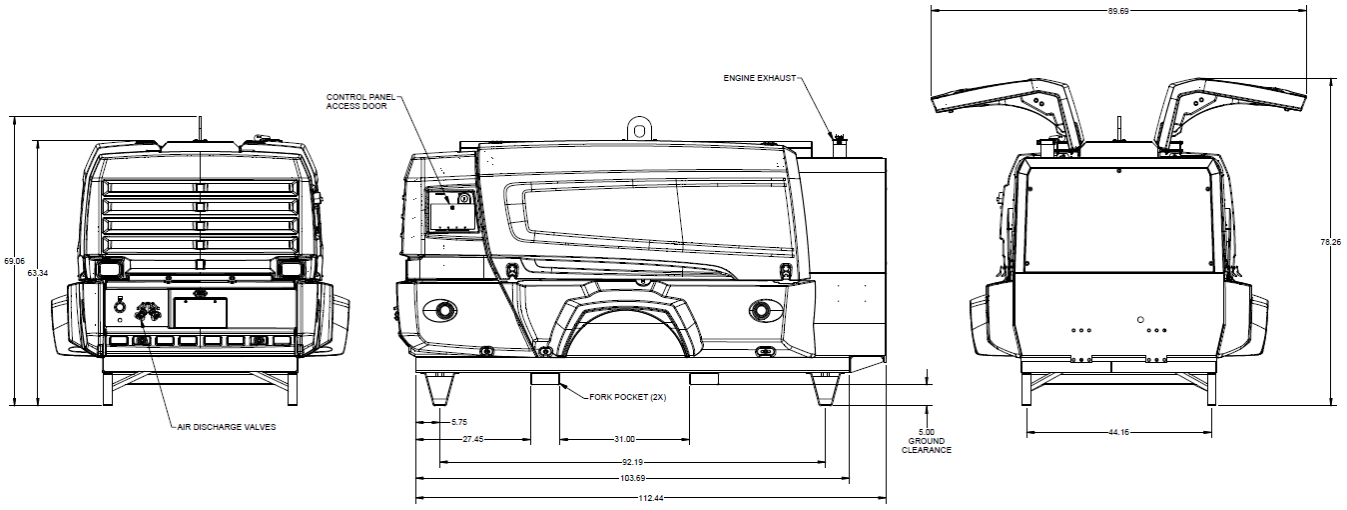
1 According to ISO 1217 ed.3 1996 annex D
2 Measured in accordance with ISO 2151 under free field conditions @ 7m distance
3 Consult Atlas Copco for proper de-rating instructions for operation beyond ambient limitations
4 According to DIN 72311

Dimensions

Trailer mounted



Support mounted



Weight (Wet - Ready-to-operate)

		XAS 440 JD T4F	XATS 400 JD T4F
Trailer mounted	lb (Kg)	4555 (2066)	4470 (2028)
Support mounted	lb (Kg)	4183 (1897)	4183 (1897)

Dimensions

		XAS 440 JD T4F	XATS 400 JD T4F
Trailer mounted (Inches)	L x W x H	161 x 71.5 x 70	161 x 71.5 x 70
Support mounted (Inches)	L x W x H	113 x 71.5 x 65	113 x 71.5 x 65

Principle Data

Compressor Element

The quality of a compressor can be measured through the reliability, efficiency and durability of the compressor element used. Through decades of expertise in the design of compressor elements, Atlas Copco remains a world leader in designing the most efficient and reliable compressors on the market. With air-end efficiency, maintenance intervals are extended and fuel consumption is reduced.

The 400 Series JD T4F compressor utilizes Atlas Copco's C106 element and is driven from the diesel engine through a gear box with a rubber disc coupler.

The compressor system comes with Atlas Copco ParOil compressor oil. The oil cooler comes equipped with a standard thermostatic by-pass valve for superior cold weather lubrication.

Air/Oil Separator

Air and oil separation is achieved through a centrifugal oil separator combined with a filter element. Separators are available in ASME/CRN approved versions and are stamped accordingly.

Designed for a higher maximum working pressure, the separator is equipped with a sealed high pressure safety relief valve, minimum pressure valve, automatic blow-down valve, and pressure regulator.

Air/Oil Separator Tank:

Volume	11 US Gal / 42 L
Certifications	ASME / CRN
MAWP	261psi @ 266°F

Cooling System

The cooling system consists of integrated side-by-side aluminum oil cooler with axial fan to ensure optimum cooling. The cooling system is suitably designed for continuous operation in ambient conditions up to 125°F, with canopy door closed for the 400 Series JD T4F.

Compressor Regulating System

The compressor regulating system consists of an air filter, air receiver/oil separator, compressor element, unloader assembly with unloader valve, blow down valve and loading valve.

Economic power consumption is assured by the fully automatic 100% step-less speed regulator that adapts engine speed to air demand.

Discharge Outlets

Compressed air is available from 2 x 3/4" claw type (Chicago) outlet valves (XAS 440 version only) and 1 x 1 ½" NPT valve.

Engine

John Deere 4045HFC04

John Deere 4045HFC04 T4F turbo charged four-cylinder, liquid-cooled diesel engine provides ample power to operate the compressor continuously at full-load.

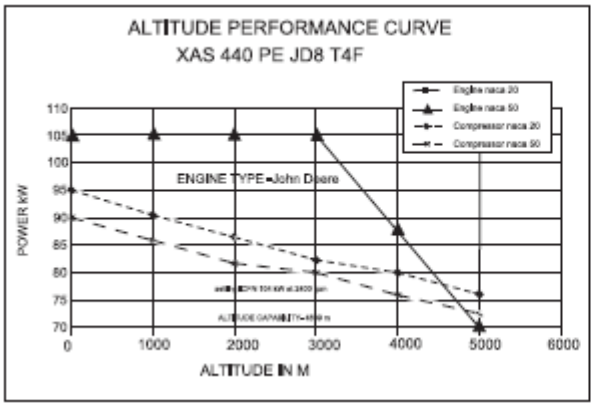
Meets all US EPA and Environment Canada exhaust legislations with Final Tier 4 compliance.

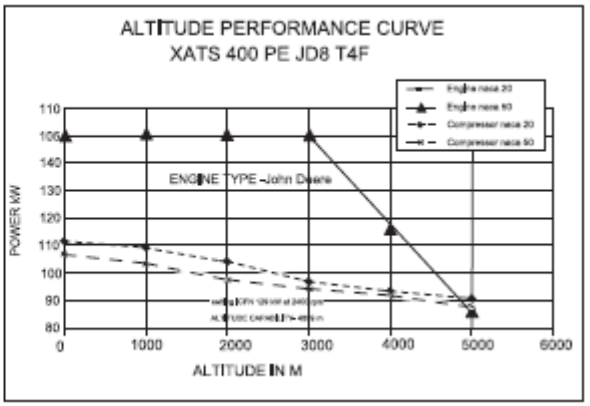
The US EPA engine family is "EJDXL04.5315" and rated at 134hp at 2400 rpm, in accordance to SAE Standard for the XAS 440 JD T4F.

The US EPA engine family is "EJDXL04.5315" and rated at 148hp at 2200 rpm, in accordance to SAE Standard for the XATS 400 JD T4F.

Engine starting capacity at 14°F (-10°C) without the addition of cold start options. Cold start options are available up to -4°F (-20°C).

The 52Gal (192L) fuel tank enables operation for over 8 hours at full load and comes standard with a low fuel shutdown at 5%.





Emissions Treatment

The John Deere 4045HFC04 after treatment consists of a Diesel Oxidization Catalyst (DOC) and Selective Catalytic Reduction (SCR). The SCR utilizes the temperature of the exhaust to passively regenerate during normal use.

Electrical System

The **400 Series JD T4F** is equipped with a 12 Volt negative ground electrical starting system.

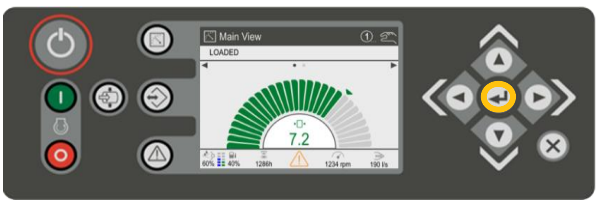
Instrumentation

The instrument control panel is located on the back, of the compressor canopy with easy access.

Standard instrument package includes fully diagnostic ECU controller with large 3.5" display. The intuitive Atlas Copco XC2003 controller is easy to operate with all functions conveniently at your fingertips. The controller also manages the engine ECU operating system, and a number of safety warnings, shut downs on various parameters (listed below) and full digital pressure control with PACE.

XC2003 Controller Functionality:

- Displayed while running
  - Hours
  - Fuel level
  - RPM
  - Outlet pressure
- Compressor measurements displayed
  - Running hours
  - Fuel level
  - Clock
  - Battery voltage
  - Running hours
  - Regulating pressure
  - Emergency stop count
  - Average fuel consumption
  - Minor and major service counters in hours and days
- Warnings and Shutdowns
  - High temperature engine coolant
  - High temperature compressor oil
  - Engine oil pressure
  - Low fuel level
  - Low coolant
- Settings
  - Reset service timers
  - Diagnostics for engine ECU
  - Language settings
  - Unit of measure changes
  - Electronic pressure adjustment (**PACE**)
  - Presetting two (high/low) pressure settings
- Operational Buttons
  - Start and stop of the unit
  - View measurements, settings and alarms
  - Multi position cursor to navigate menus
  - PACE digital pressure control
- Engine measurements displayed
  - Current fuel rate
  - Engine coolant temperature
  - Engine oil pressure
  - Engine RPM
- Alarms
  - View current & historical alarms present
  - History of last 20 alarms and events with time and date stamps
  - DM1 & DM2: View current engine codes (SPN/FMI)



Bodywork

HardHat™: Our HardHat™ version comes standard with dual wall, ¼" thick, Polyethylene material providing superior corrosion, and UV protection against fading and discoloration. As well as unmatched dent and damage resistance. The canopy is sound attenuated to meet the most current legal noise requirements. A clamshell style hood offers easy service access to all components.

Undercarriage

The **400 Series JD T4F** compressor is available with two undercarriage alternatives, providing utmost flexibility in installation or towing requirements.

- Single axle trailer setup with:
  - DOT approved light package
  - Adjustable height pintle hitch (3" lunette)
  - 5,200 lbs torsional axle
  - 15" Rims w/ ST225/75D15 8 Ply Tires (weight rating 2,540 lbs @ 65psi)
  - Electric trailer brakes as standard (with 7 pin flat blade connector)
  - 750lbs jack leg stand, with wheel
- Support mounted version, on steel frame, less undercarriage is available

Factory Options Available

- Support Mounted (skid)
- Loose Ball Coupling 2" or 2 5/16"
- OSHA ¾" valves
- Aftercoolor with water separator
- Aftercoolor with water separator and DD/PD coalescing filters
- Special color canopy doors
- LoJack (Theft recovery system)
- Telematics

Manufacturing & Environmental Standards

The **400 Series JD T4F** is manufactured following stringent ISO 9001 regulations, and a fully implemented Environmental Management System fulfilling ISO 14001 requirements.

Attention has been given to ensure minimum negative impact to the environment.

The **400 Series JD T4F** meets all current EPA and Environment Canada exhaust and noise emission directives.

Supplied Documentation

The unit is delivered with documentation regarding:

- Hard copies of the Atlas Copco Operators Safety and Instruction Manual, John Deere Engine Manual and Parts book, as well as electronic copies, available upon request.
- Warranty Registration card for John Deere Engine and Atlas Copco Compressor (Units must be registered upon receipt).
- Test certificate for air delivery pressure and capacity, acc. ISO 1217 (Upon request only).
- Certificate for air/oil separator vessel and safety valve approval, ASME (Upon request only).

Warranty Coverage

John Deere Engine: John Deere Diesel engines are warranted to be free from defects with regard to materials and workmanship for the period of twelve (12) months from the date of initial startup, prior to the accumulation of 2000 running hours. All John Deere powered air compressors are subject to a 5 year (5,000hr) limited extended warranty. The extended warranty must be registered with John Deere by the original purchaser, at time of purchase, in order to qualify. Please see John Deere's air compressor extended warranty terms, conditions and further details.

Atlas Copco Compressor: Warrantied to be free from defects with regard to material and workmanship for the period of eighteen (18) months from date of shipment from the factory, or twelve (12) months from date of initial start-up, whichever occurs first, without limitation of running hours.

Air compressor element assemblies used in Atlas Copco portable air compressors, is warranted to be free from defects with regard to materials and workmanship for the period of thirty (30) months from date of shipment from the factory, or twenty four (24) months from date of initial start up, whichever occurs first, without limitation of running hours. Atlas Copco service kits including parts and oils (PAR Oil's) must be used to maintain warranty. Failure to register warranty upon initial start-up may cause warranty claim delays or rejection of claims.

PRODUCT: Portable Compressors	EXTENDED WARRANTY PERIOD*: 24 months from date of end of initial standard warranty term. For the compressor's air system **, the warranty period is an additional 96 months from the end of the 24 month extended warranty term. For the engine, see Footnote 1 below.
* Requirements for Extended Warranty; · Service maintenance must be completed according to published intervals while utilizing genuine Atlas Copco/Chicago Pneumatic/American Pneumatic Tool parts and lubricants. Record of such maintenance must be entered onto Machines Online for the specific serial number and include all required information including date service performed, service interval performed, and part numbers used. · Oil sample (engine or compressor) to be taken at any time of failure and available upon request · Oil sample kit part number 9753300442 available for purchase · Unit must be available for onsite inspection by a representative of Power Technique North America if required · Unit must be available for transport to a Power Technique North America service center location if required · Failed components must be retained and available for return and inspection if required	
** Air end system component exclusions: Electrical components (i.e. Sensors, wiring), Perishable items (i.e. Rubber, plastics), Wear and air regulation items (i.e. Check valves, couplings)	
Note: End users are authorized to complete the required preventative maintenance utilizing genuine parts and lubricants purchased from an authorized dealer. Service maintenance recorded into Machines Online are to be completed by the authorized dealer where products purchased or another authorized dealer after providing proof of purchase for genuine parts and fluids utilized..	
Note: Equipment/machinery/components/Accessories/parts/items sold by SELLER but not manufactured by SELLER or an affiliate (including but not limited to a Product's engine, alternator, tires, battery, carrier, electrical equipment, and hydraulic transmission, if applicable) are not warranted by SELLER and shall carry whatever warranty (if any) which the manufacturer has conveyed to SELLER to the extent it can be passed on to the purchaser.	