



Standard Scope of Supply

The Chicago Pneumatic **T190-12** and **T250-7** are silenced, single-stage, oil-injected screw compressors, powered by liquid-cooled, four-cylinder Kubota diesel engine.

The unit consist of one high efficient compressor element, diesel engine, cooling, air/oil separation and control systems - all enclosed within silenced strong steel canopy.

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.

Available Models

T190-12	Single Stage - 190 cfm - 175 psi - Kubota Diesel Engine
T250-7	Single Stage - 250 cfm - 100 psi - Kubota Diesel Engine

Features

- 10% compact and 3-layer stackable.
- 3 layers Zincor, Primer and Powder coating
- Single side service.
- Low noise emissions.
- 1500 hours service interval.
- Generator option

Benefits

- Save transport and storage cost
- Optimal protection against corrosion.
- Change of consumables in 1 hour.
- Able to work in noise sensitive area.
- Increase uptime, save service cost
- Air and power combined in one machine



Technical Data

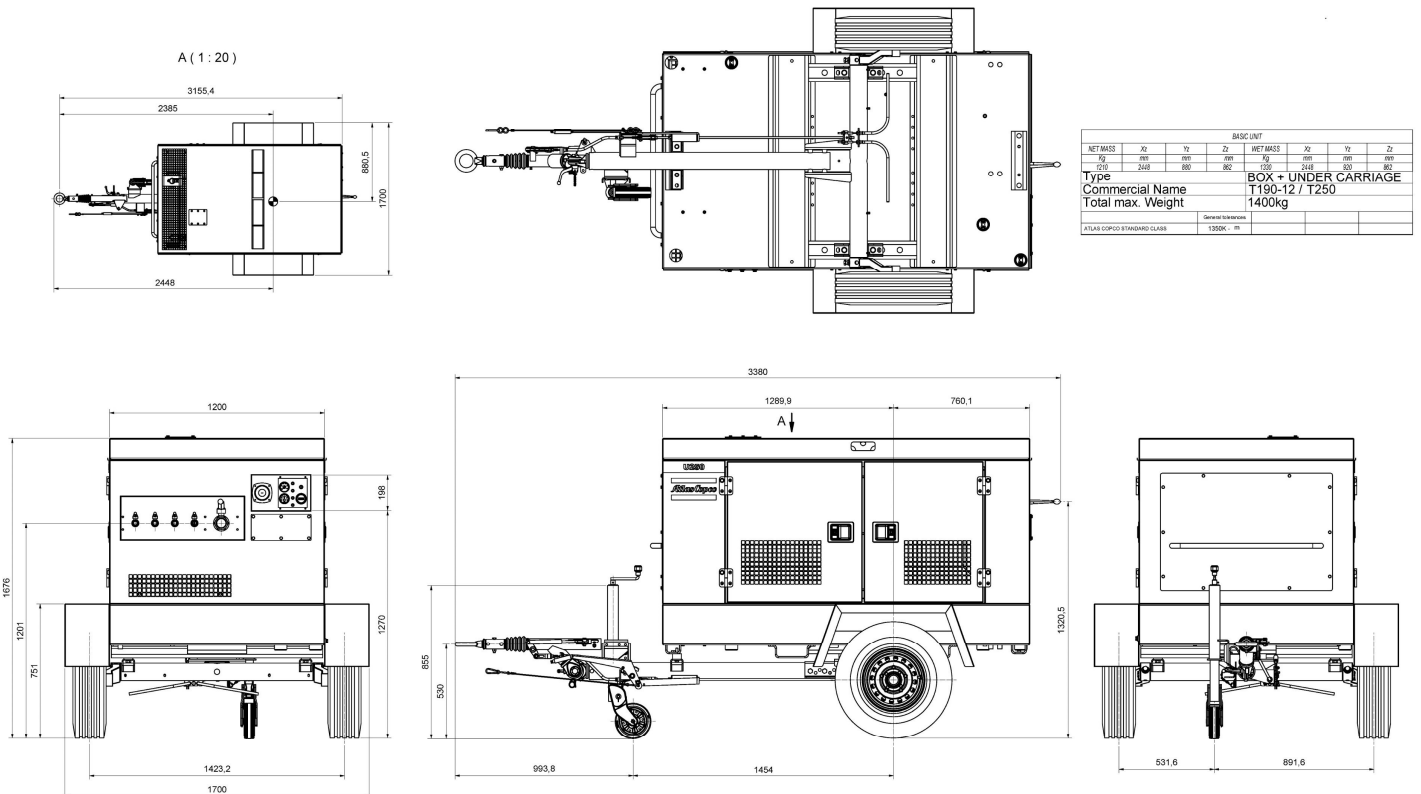
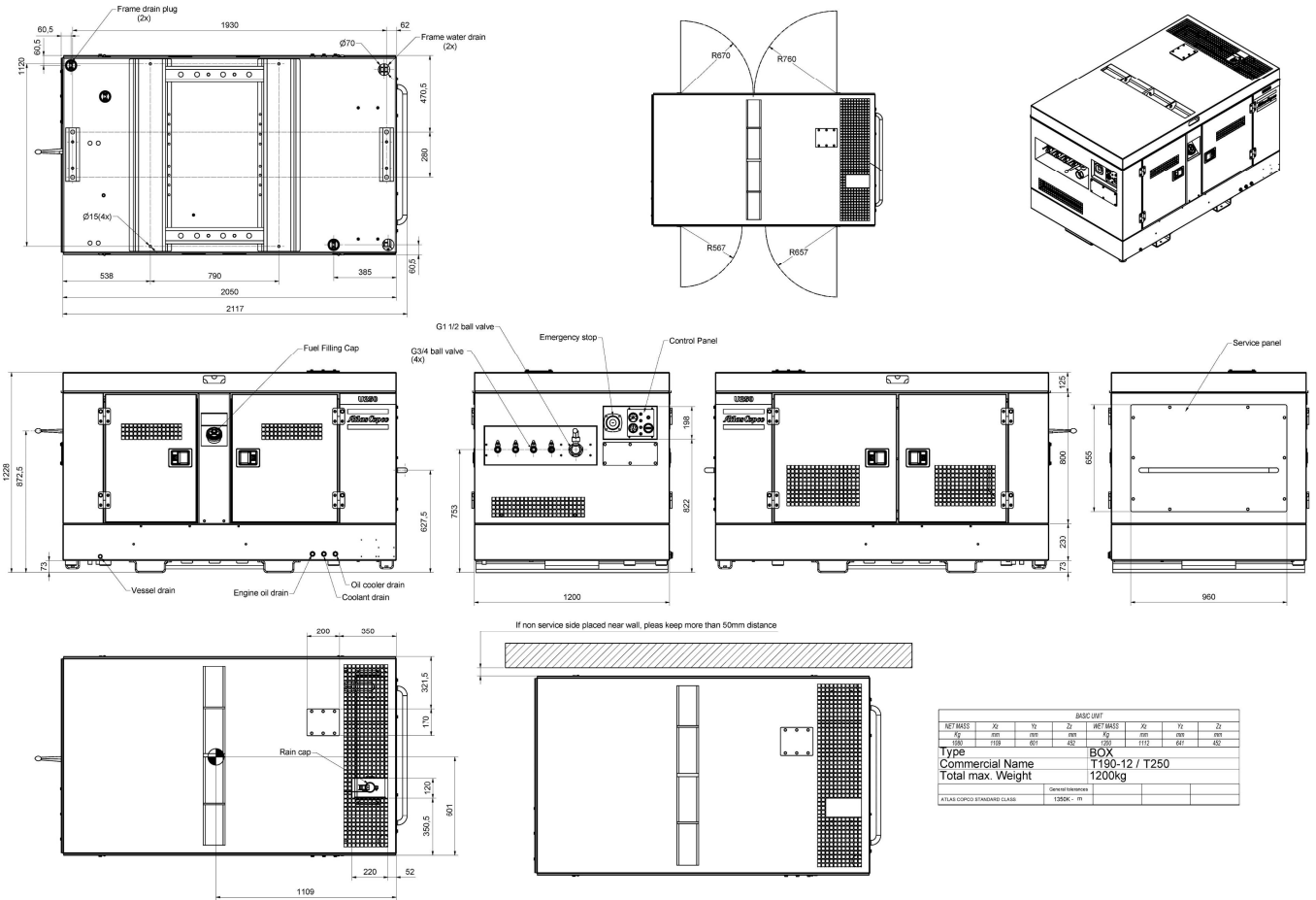
Compressor		T190-12	T250-7
Normal effective working pressure	bar	12	7
Absolute inlet pressure	bar	1	1
Relative air humidity	%	0	0
Air inlet temperature	°C	20	20
Minimum effective receiver pressure	bar	4	5
Maximum effective receiver pressure (Unloaded)	bar	14	8.3
Actual free air delivery	m³/min	5.5	7.1
Fuel consumption			
at 100% FAD (full load)	kg/h	10.93	10.93
at 75% FAD	kg/h	7.81	7.81
at 50% FAD	kg/h	6.38	6.38
at 25% FAD	kg/h	5.02	5.02
Specific fuel consumption at 100% FAD	g/m³	26.734	26.734
Max. sound pressure level (Lw @ 2000/14/EC)	dB(A)	-	-
Max. sound pressure level (Lp @ ISO 2151)	dB(A)	-	-
Compressed air temperature at outlet without aftercooler	°C	90	90
Max. ambient temperature at sea level with aftercooler	°C	50	50
Min. starting temperature with cold weather equipment	°C	-20	-20
Min. starting temperature without cold weather equipment	°C	-10	-10
Number of compression stages		1	1

Engine		Kubota	Kubota
Type		V2403T	V2403T
Coolant		Liquid (glycol 50%)	Liquid (glycol 50%)
Number of cylinders		4	4
Bore	mm	87	87
Stroke	mm	102.4	102.4
Swept volume	l	2.4	2.4
Engine power at normal shaft speed @ SAE J 1995	kW	47.9	47.9
Full Load	rpm	2700	2700
Unload	rpm	1600	1600
Capacity of oil sump	l	9.5	9.5
Capacity of compressor oil system	l	11	11
Net capacity of air receiver	l	30	30
Air volume at inlet grating (approx.)	m³/s	2.7	2.7
Capacity of standard fuel tanks	l	100	100
Optional extended fuel tank	l	30	30
Weight - Box*	kg	1200	1200
Weight - Box + Undercarriage*	kg	1400	1400

*Refer to data plate for exact value



Dimensions



Principle Data

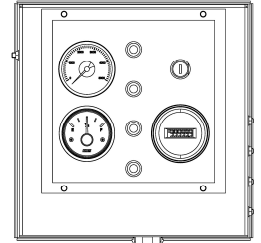
Compressor Element

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, the result is the production of most efficient and reliable compressors on the market.

Air/Oil Separator

Air and oil separation is achieved through a centrifugal oil separator combined with a filter element.

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



Cooling System

The engine is provided with a coolant cooler and the compressor is provided with an oil cooler. The cooling air is generated by a fan, driven by the engine.

Compressor Regulating System

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

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

Discharge Outlets

Compressed air is available from 4 x G $\frac{3}{4}$ and 1 x G $1\frac{1}{2}$ (option) outlet valves.

Engine

Kubota Diesel Engine

The compressor is driven by a liquid-cooled, four-cylinder Kubota V2403T diesel engine. The engine's power is transmitted to the compressor element through a heavy-duty coupling.

Electrical System

The **T190-12** and **T250-7** are equipped with a 12-volt negative ground electrical system.

Instrumentation

The instrument control panel is located on the side of the compressor canopy.

The control panel has the following: Engine ignition key port, Pressure gauge, Battery malfunction indicator, Compressor outlet temperature high indicator, Fuel gauge, Meter for running hours and Oil temperature indicator.

Starting is achieved with a three-position switch for ease of operation

Safety Devices

The compressor is standard equipped with safety devices for the compressor and the engine. The unit will be completely turned off should:

- Engine coolant temperature rise too high
- Engine oil pressure drop too low
- Outlet temperature of the compressed air goes outside a specified range
- Low fuel level

Bodywork

The compressor is delivered as standard with a zinc or coated steel canopy with double-layer powder coat paint finish providing excellent corrosion protection. The canopy is sound attenuated to meet the most current legal noise requirements. Wide doors provide complete service access to all components.



Manufacturing & Environmental Standards

The **T190-12** and **T250-7** are manufactured following the stringent ISO 9001 regulations, and by a fully implemented Environmental Management System fulfilling ISO 14001 requirements. Attention has been given to ensure minimum negative impact to the environment.

Supplied Documentation

The unit is delivered with the following documents and certificates:

- Spare parts list for compressor.
- Instruction manual for both compressor and Engine
- Machine test certificate
- Vessel certificate

Warranty Coverage

- Please refer to product presentation for warranty info.
- Extended Warranty Programs are available; please contact your local sales representative for more info.



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