

Product Reference
U 110 KD WUX

Portable Compressor



Standard Scope of Supply

The Atlas Copco U 110 is silenced, single-stage, oil-injected screw compressors, powered by liquid-cooled, three-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 XA 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

U 110

Single Stage – 110 cfm – 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

Benefits

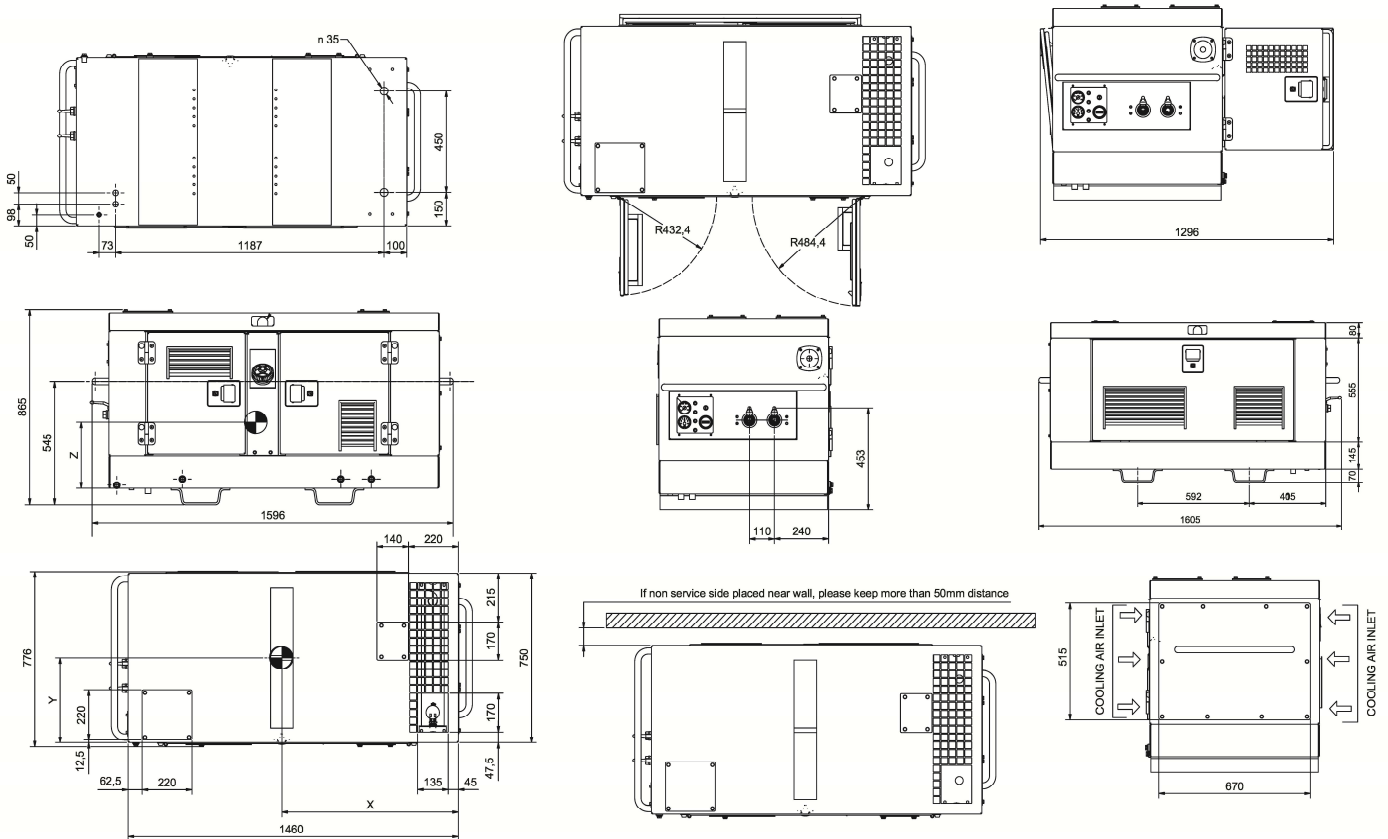
- Save transport and storage cost
- Optimal protection against corrosion
- Change of consumable in 1 hour
- Able to work in noise sensitive area
- Increase uptime, save service cost

Technical data basic unit*

Model		U 110
Actual free air delivery (FAD)	cfm	110
Normal effective working pressure	psi	100
Absolute inlet pressure	psi	14.5
Relative air humidity	%	0
Air inlet temperature	°F (°C)	68 (20)
Minimum effective receiver pressure	psi	29
Maximum effective receiver pressure (Unloaded)	psi	128
Fuel consumption		
at 100% FAD (full load)	Gal/h (L/h)	1.49 (5.63)
at 75% FAD	Gal/h (L/h)	1.22 (4.62)
at 50% FAD	Gal/h (L/h)	0.89 (3.35)
at 25% FAD	Gal/h (L/h)	0.58 (2.20)
Max. sound power level (Lw @ 2000/14/EC)	dB(A)	98
Max. sound pressure level @ 23' / 7m (Lp @ ISO 2151)	dB(A)	70
Compressed air temperature at outlet without aftercooler	°F (°C)	185 (85)
Max. ambient temperature at sea level with aftercooler	°F (°C)	122 (50)
Min. starting temperature with cold weather equipment	°F (°C)	-4 (-20)
Min. starting temperature without cold weather equipment	°F (°C)	14 (-10)
Number of compression stages		1
Engine		Kubota
Type		D902
Coolant		Parcool
Number of cylinders		3
Displacement	cu in (L)	54.8 (0.898)
Engine power at normal shaft speed @ SAE J 1995	HP	25
Full Load	rpm	3600
Unload	rpm	2000
Capacity of oil sump	US Gal (L)	0.79 (3)
Capacity of cooling system	US Gal (L)	1.32 (5)
Capacity of compressor oil system	US Gal (L)	1.32 (5)
Net capacity of air receiver	US Gal (L)	1.98 (7.5)
Air volume at inlet grating (approx.)	cu ft/s	26.5
Capacity of standard fuel tanks	US Gal (L)	5.28 (20)
Optional extended fuel tank	US Gal (L)	2.64 (10)
Dimensions (L x W x H)	in	62.20 x 29.13 x 33.46
Weight – Wet *	lb (kg)	1102.3 (500)

*Refer to data plate for exact value

Dimensions (mm)



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 is provided with a continuous pneumatic regulating system and a blow-off valve which is integrated in the unloader assembly.

Discharge Outlets

Compressed air is available from 2 x G3/4 outlet valves.

Engine

Kubota Diesel Engine

The compressor is driven by a liquid-cooled, three-cylinder Kubota D902 diesel engine. The engine's power is transmitted to the compressor element through a heavy-duty coupling.

Electrical System

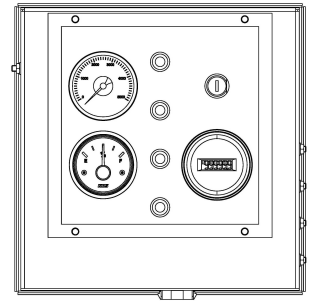
The U 110 is equipped with a 12-volt negative ground electrical system.

Instrumentation – U 110 - Control Panel

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

The main switch is a protection against unintended starting of the compressor.

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 U 110 is manufactured following 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.

* **Note:** Due to continuous improvements in the products, the technical specifications are subject to change without prior notice.