

# U 75-110 PACE KD WUX

## Portable Compressor



### Standard Scope of Supply

The Atlas Copco U 75, U 110 and U 110 PACE are 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.

The Unique feature of this new range is the PACE functionality coupled with the intuitive XC2003 controller.

This pioneering technology enables multiple pressure and flow settings, ensuring you match air flow and pressure to your application needs.

### Available Models

U 75	Single Stage – 75 cfm – Kubota Diesel Engine
U 110	Single Stage – 100 cfm – Kubota Diesel Engine
U 110 PACE	Single Stage – 45-100 cfm – Kubota Diesel Engine

### Features

- 10% compact and 3-layer stackable
- PACE
- 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
- You control the pressure and flow
- Optimal protection against corrosion
- Change of consumable in 1 hour
- Able to work in noise sensitive area
- Increase uptime, save service cost
- Air and power combined in one machine

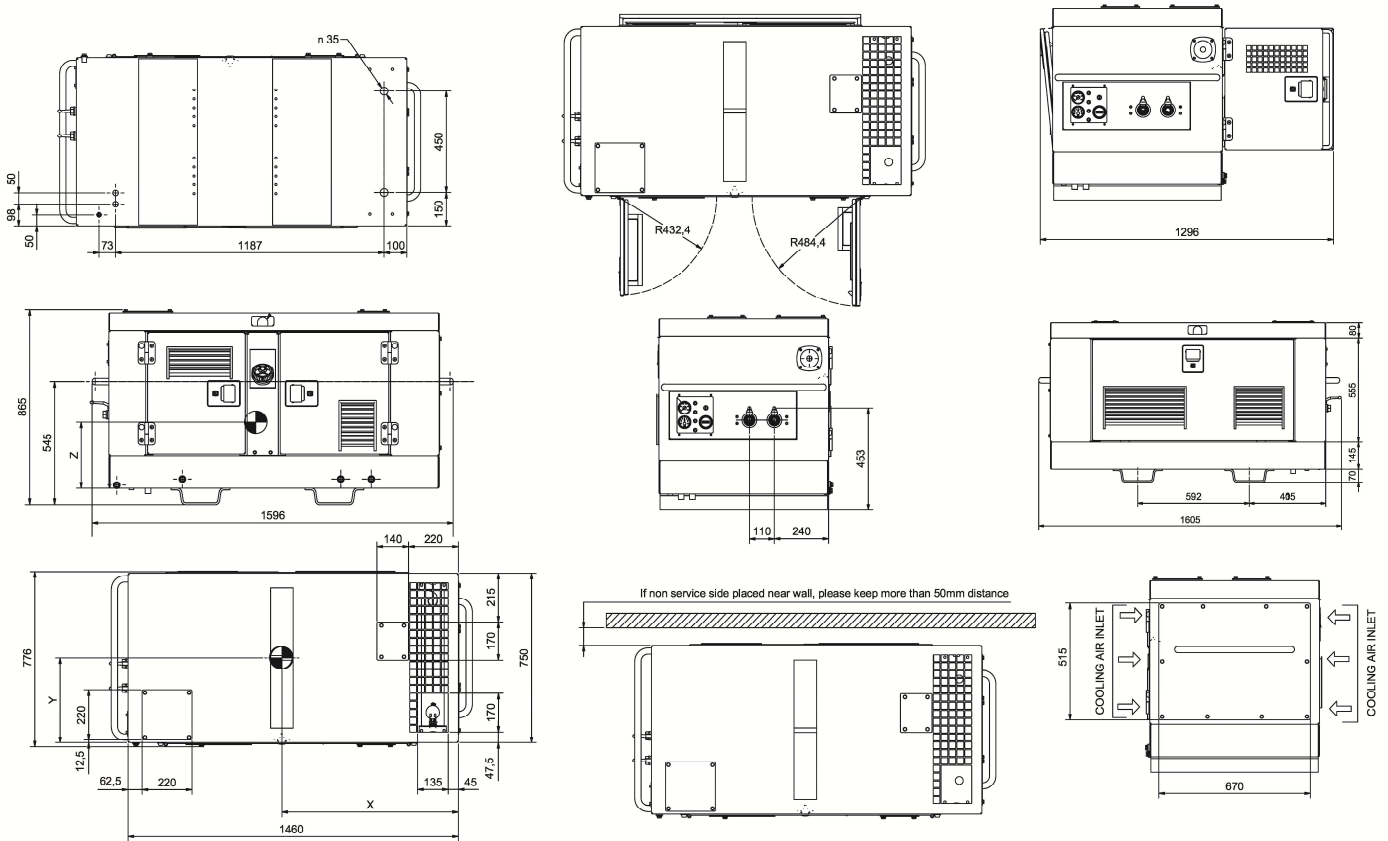
## Technical data basic unit\*

Model		U 75	U 110	U 110 PACE
Normal effective working pressure	bar	7	7	5-10.5
Absolute inlet pressure	bar	1	1	1
Relative air humidity	%	0	0	0
Air inlet temperature	°C	20	20	20
Minimum effective receiver pressure	bar	2	2	2
Maximum effective receiver pressure (Unloaded)	bar	8.8	8.8	8.8
Actual free air delivery	m <sup>3</sup> /min	2.1	2.8	1.3-2.8
Fuel consumption				
at 100% FAD (full load)	kg/h	3.83	4.68	4.68
at 75% FAD	kg/h	3.05	3.84	3.84
at 50% FAD	kg/h	2.48	2.79	2.79
at 25% FAD	kg/h	1.53	1.83	1.83
Specific fuel consumption at 100% FAD	g/m <sup>3</sup>	33.86	31.59	31.59
Max. sound pressure level (L <sub>w</sub> @ 2000/14/EC)	dB(A)	97	98	98
Max. sound pressure level (L <sub>p</sub> @ ISO 2151)	dB(A)	70	70	70
Compressed air temperature at outlet without aftercooler	°C	85	85	85
Max. ambient temperature at sea level with aftercooler	°C	50	50	50
Min. starting temperature with cold weather equipment	°C	-20	-20	-20
Min. starting temperature without cold weather equipment	°C	-10	-10	-10
Number of compression stages		1	1	1
<b>Engine</b>		Kubota	Kubota	Kubota
Type		D722	D902	D902
Coolant		Parcool	Parcool	Parcool
Number of cylinders		3	3	3
Bore	mm	67	72	72
Stroke	mm	68	73.6	73.6
Swept volume	l	0.719	0.898	0.898
Engine power at normal shaft speed @ SAE J 1995	kW	14.9	18.5	18.5
Full Load	rpm	3400	3600	3600
Unload	rpm	1800	2000	2000
Capacity of oil sump	l	3	3	3
Capacity of cooling system	l	5	5	5
Capacity of compressor oil system	l	5	5	5
Net capacity of air receiver	l	7.5	7.5	7.5
Air volume at inlet grating (approx.)	m <sup>3</sup> /s	0.75	0.75	0.75
Capacity of standard fuel tanks	l	20	20	20
Optional extended fuel tank	l	10	10	10
Dimensions (L x W x H)	mm	1580 x 740 x 850	1580 x 740 x 850	1580 x 740 x 850
Weight – Wet *	kg	500	500	500

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

Introduction of intuitive PACE functionality allows the compressor to operate at any pressure setting between 5 and 10.5 bar.

The compressor can have 2 pressure presets and we can use the controller to toggle between the pressure presets

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 2 x G3/4 outlet valves.

## Engine

### Kubota Diesel Engine

The compressor is driven by a liquid-cooled, three-cylinder Kubota D722 - D902 diesel engine. The engine's power is transmitted to the compressor element through a heavy-duty coupling.

## Electrical System

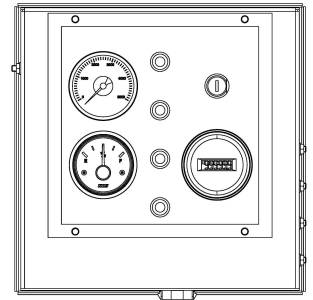
The U 75, U 110 and U 110 PACE are equipped with a 12-volt negative ground electrical system.

### Instrumentation – U 75 and 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.



### Instrumentation – U 110 PACE - XC2003

The XC2003 control panel is located on the side of the compressor canopy.

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 and shut downs on various parameters (listed below).

#### XC2003 Controller Functionality:

- Displayed while running
  - Hours
  - Fuel level
  - DEF level
  - RPM
  - Outlet pressure
- Operational Buttons
  - Start and stop of the unit
  - View measurements, settings and alarms
  - Multi position cursor to navigate menus
- 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
- Engine measurements displayed
  - Current fuel rate
  - Engine coolant temperature
  - Engine oil pressure
  - DPF Soot level
  - Engine RPM
- Warnings and Shutdowns
  - High temperature engine coolant
  - High temperature compressor oil
  - Engine oil pressure
  - Low fuel level
  - High DPF soot level
- 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)
- Settings
  - Manual regeneration of DPF
  - Reset service timers
  - Diagnostics for engine ECU
  - Language settings
  - Unit of measure changes



## Safety Devices

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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

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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

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The U 75, U 100 and U 110 PACE are 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

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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

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- 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.