

# T110 KD Utility

Portable compressor



## Standard Scope of Supply

The Chicago Pneumatic **T110 KD Utility** is a silenced, single-stage, oil-injected screw compressor, 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 CPS 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

T110 KD Utility

single stage - 100 psi – Kubota diesel engine

## Standard Features

- 25Hp Engine with 110 CFM Free Air Delivery
- 10% compact and 3-layer stackable
- 3 layers Zincor, Primer and Powder coating
- Spin on type compressor oil separator
- 110% Spillage Free Containment Frame
- Single side service
- Low noise emissions
- 1500 hours service interval

## Benefits

- 110 CFM free air delivery @ 100 psig
- Save transport and storage cost
- Optimal protection against corrosion
- Easy, intuitive and fast service.
- Protects environment, avoids costly clean up liability
- Change of consumable in 1 hour
- Able to work in noise sensitive area
- Increase uptime, save service cost

**Technical Data**

Compressor	Units	T110 KD Utility
Actual free air delivery <sup>1</sup> (FAD)	cfm	110
Normal effective working pressure	Psi	100
Maximum unloading pressure	Psi	128
Minimum working pressure	Psi	29
Max. sound pressure level @ 23' (7m) at normal working speed & pressure <sup>2</sup>	dB(a)	70
Compression Stages		1
Air Receiver Capacity	US Gal (L)	1.98 (7.5)
Compressor oil capacity	US Gal (L)	1.32 (5.0)
Approximate air outlet temperature	°F (°C)	185 (85)
Air Compressor outlets		2 x G <sup>3</sup> / <sub>4</sub> "
Max. ambient temperature (at sea level) <sup>3</sup>	°F (°C)	122 (50)
Minimum starting temperature (without cold weather options)	°F (°C)	14 (-10)
Minimum starting temperature (with cold weather options)	°F (°C)	-4 (-20)
<b>Engine</b>	<b>Kubota</b>	<b>D902</b>
Emissions Regulation	US EPA	Tier 4 Final
Output at rated speed (2700 rpm) <sup>4</sup>	HP	25
Number of cylinders		3
Displacement	cu in (L)	54.8 (0.898)
Engine speed (Unloaded)	rpm	2000
Engine speed (Maximum loaded)	rpm	3600
Engine oil capacity	US Gal (L)	0.8 (3.0)
Engine coolant capacity	US Gal (L)	1.3 (5.0)
Fuel tank capacity	US Gal (L)	5.3 (20)
Optional extended fuel tank capacity	US Gal (L)	2.6 (10)
Fuel consumption at 100% load	Gal/Hr (L/Hr)	1.49 (5.63)
Fuel consumption at 75% load	Gal/Hr (L/Hr)	1.22 (4.62)
Fuel consumption at 50% load	Gal/Hr (L/Hr)	0.89 (3.35)
Fuel consumption at 25% load	Gal/Hr (L/Hr)	0.58 (2.20)
Electrical System (Negative Ground)	V	12

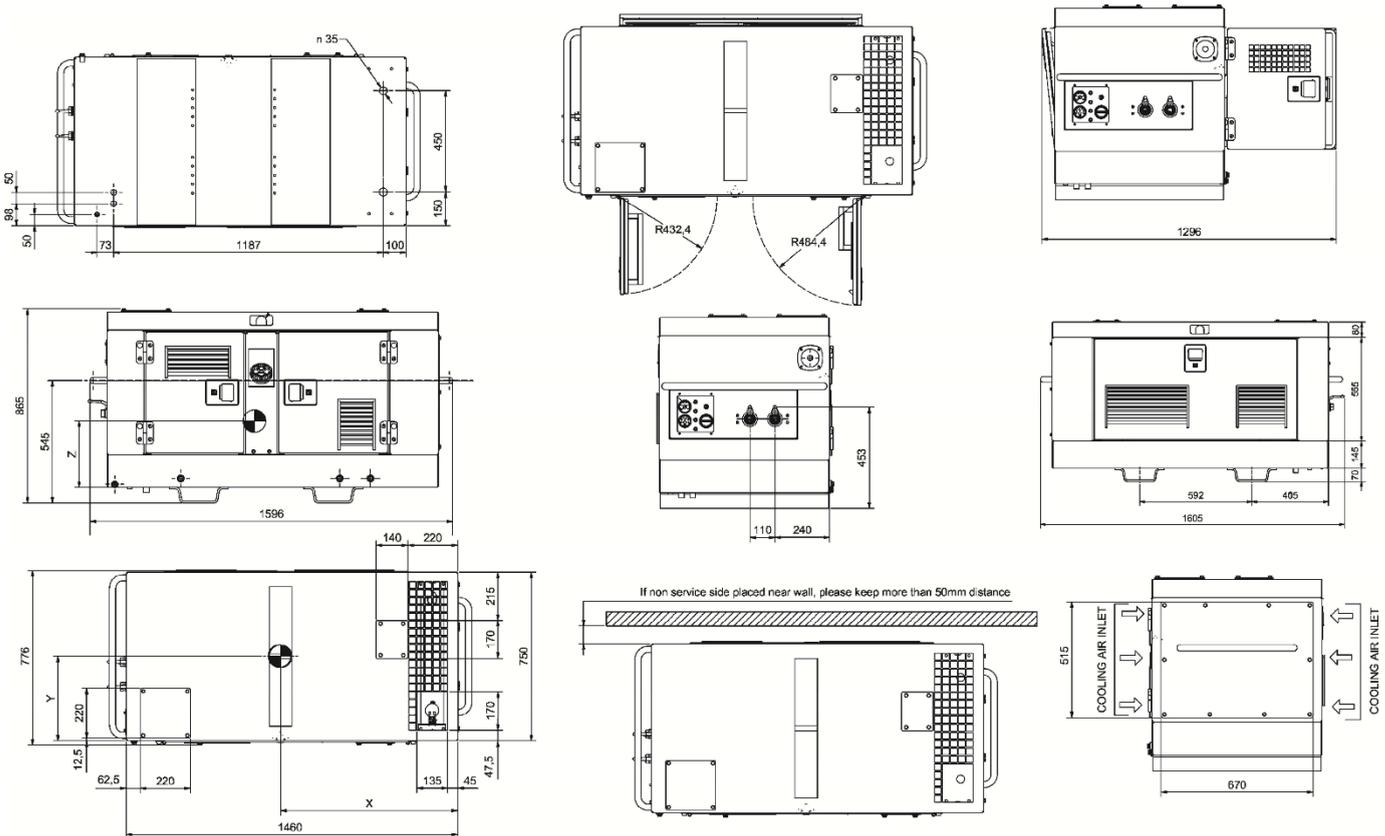
<sup>1</sup> According to ISO 1217 ed.3 1996 annex D

<sup>2</sup> Measured in accordance with ISO 2151 under free field conditions @ 7m distance

<sup>3</sup> Consult Chicago Pneumatic for proper de-rating instructions for operation beyond ambient limitations

<sup>4</sup> Horsepower limited by Engine ECU

## Dimensions



## Weight (Wet - Ready-to-operate)

		T110 KD Utility
Support mounted	lb (Kg)	1102 (500)

## Dimensions

		T110 KD Utility
Support mounted (Inches)	L x W x H	62.2 x 29.1 x 33.5

## 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 D902

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.

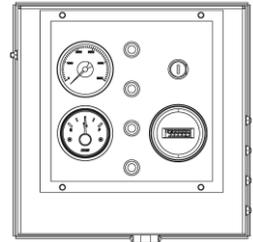
## Electrical System

The **T110 KD Utility** is equipped with a 12 Volt negative ground electrical starting 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 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 **T110 KD Utility** 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:** Programs are available; please contact your local sales representative for more info.