

## Air source truck technical description

### 1 Unit description

The whole machine of the air source car is assembled on a car chassis, and the cover is made of steel frame with aluminum plate on the outside, sound-absorbing cotton in the middle, and a structure of mesh plate inside. The diesel engine is located at the front of the car, the compressor is located in the middle and rear of the car, and the rear of the car is a hose box for hoses. The compressor gearbox is connected to the diesel engine through an elastic coupling. The compartment is hollow at the bottom to ensure that the diesel engine water tank has sufficient cooling air.

### 2 Air source truck parameter table

No	category	project	unit	parameter
1	Air source truck	model		QYC373
2		Intake pressure	Atm	1
3		Intake air temperature	°C	20
4		Supply pressure	PSIG	35-42 (starting pressure)/25-30

				(auxiliary pressure)
5		Mass Flow	PPM	180
6		Supply air temperature	°C	≤240
7		Compressed medium		air
8		Fuel tank capacity	L	400
9		Sustainable working hours	H	4
10		Dimensions	mm	7250 (length) x 2200 (width) x 2900 (height)
11		Total unit weight	kg	9000
12	diesel engine	model		NTA855-P450 Cummins diesel engine

13		power	kW	373
14		Rotating speed	r/min	1800
15		Torque	N·m	1723
16		Oil pressure	bar	3-6
17		Fuel consumption	kg/h	61
18		weight	kg	1376
19	compressor	model		CT0911-00-00
20		Rotor speed	r/min	5546
21		Lubricating oil pressure	bar	2-5 (low voltage protection)
22		Lubricating oil temperature	°C	≤70 (high temperature protection)
23		Exhaust gas temperature	°C	≤240 (adjustable above 210°C)

24		Exhaust pressure	PSIG	42 (adjustable down)
25		Mass Flow	PPM	180
26		Shaft power		≤280kw

