

Portable Rotary Screw Air Compressors

Capacities from 177 to 1638 cfm, 5.00 to 46.38 m³/min

Pressures from 102 to 508 psi(g), 7 to 35 bar(g)

Emission standard: Tier 3



DACY SERIES

Denair diesel portable screw air compressors are widely used in all kinds of heavy duty industries, such as mining, hydropower, oil and gas exploitation, borehole, shipyard, construction, chemical industry, quarry, sandblasting, pipeline pressure test, public works, etc. Free air delivery 5.00~46.38 m³/min working pressure 7~35 bar make these compressors fit for almost any application.



PORTABLE ROTARY SCREW AIR COMPRESSORS

Features and advantages



Diesel Engine

Heavy Duty and Less Fuel Consumption compared to similar engine designs, better in durability and longevity.



Chassis

Damped chassis and wear resistant type.



Compressor Shell

Shell is made of thickness 2mm cold-roll steel sheets with special flame-retardant sound-proof material.



State-of-the-art Screw Element

- Original DENAIR air end
- Advanced SAP profile design
- The material of the rotors is American specialty steel
- Superior Sweden SKF element bearings



Superior Air Filter and Oil Filter

- Superior air filter with two-stage dust removal and filtering system with efficiency of up to 99.9% even in heavy-duty environments
- Extends the service life of the compressor parts and components, ensures high air quality
- Quality oil filter with excellent oil purification capability ensures a clean and safe oil system
- Long service period and easy filter change reduce maintenance costs.



Skid mounted type is available

Technical parameters

Type		DACY-5/7	DACY-5/13	DACY-7/7	DACY-7/10	DACY-7/13
Machine						
Free air delivery*	m³/min	5.00	5.00	7.50	7.00	7.59
	cfm	177	177	265	247	268
Normal working pressure	bar(g)	7	13	7	10	13
	psi(g)	102	189	102	145	189
Maximum design pressure	bar(g)	7	13	7	10	13
	psi(g)	102	189	102	145	189
Dimensions(without towbar)	L(mm)	2210	3020	3020	3020	3220
	W(mm)	1450	1650	1650	1650	2000
	H(mm)	1365	1730	1730	1730	2355
Weight	kg	900	1300	1300	1300	1700
Wheel qty		2	2	2	2	2
Size and No. of outlet valve		G 3/4**3	G 3/4**2 G 1**1	G 3/4**2 G 1**1	G 3/4**2 G 1**1	G 1**1 G 1-1/2**1
Diesel engine						
Manufacturer		Yanmar	Yanmar	Yanmar	Yanmar	Cummins
Model		4TNV94L	4TNV98T	4TNV98T	4TNV98T	QSB3.9-C100-31
Rated power	kW	35.5	64	64	64	74
	hp	47	80	80	80	100
Type		Turbocharging, Charge air cooling				
Bore*Stroke*No. of cylinders	mm	94*110*4	98*110*4	98*110*4	98*110*4	102*120*4
Engine speed (nominal)	RPM	2400	2500	2500	2400	2500
Engine speed (unloaded)	RPM	1400	1400	1400	1400	1400
Engine oil capacity	L	7	12	12	12	11
Coolant capacity	L	8	15.5	15.5	15.5	28
Storage battery current CCA		670	830	830	830	670
Fuel tank capacity	L	70	100	100	100	130
Compressor						
Compressed air vessel capacity	L	30	45	45	45	80
Lubricant capacity	L	15	25	25	25	40
Type		DACY-10/8	DACY-12/7	DACY-12/8	DACY-10/13	DACY-11/10
Machine						
Free air delivery*	m³/min	10.35	12.00	12.00	10.05	11.00
	cfm	365	424	424	355	388
Normal working pressure	bar(g)	8	7	8	13	10
	psi(g)	116	102	116	189	145
Maximum design pressure	bar(g)	8	7	8	13	10
	psi(g)	116	102	116	189	145
Dimensions(without towbar)	L(mm)	3220	3220	3840	3530	3840
	W(mm)	2000	2000	1880	2090	1880
	H(mm)	2355	2355	2100	2325	2100
Weight	kg	1700	1700	1800	2050	1800
Wheel qty		2	2	2	2	2
Size and No. of outlet valve		G 1**1 G 1-1/2**1	G 1**1 G 1-1/2**1	G 1-1/2**1 G 3/4**1	G 1**1 G 1-1/2**1	G 1-1/2**1 G 3/4**1
Diesel engine						
Manufacturer		Cummins	Cummins	Cummins	Cummins	Cummins
Model		QSB3.9-C100-31	QSB3.9-C125-30	QSB3.9-C150-31	QSB5.9-C150-31	QSB3.9-C150-31
Rated power	kW	74	92	110	110	110
	hp	100	125	150	150	150
Type		Turbocharging, Charge air cooling				
Bore*Stroke*No. of cylinders	mm	102*120*4	102*120*4	102*120*4	102*120*6	102*120*4
Engine speed (nominal)	RPM	2500	2250	2300	2000	2300
Engine speed (unloaded)	RPM	1400	1400	1400	1400	1400
Engine oil capacity	L	11	11	11	17.3	11
Coolant capacity	L	28	33	27	33	27
Storage battery current CCA		670	670	720	720	720
Fuel tank capacity	L	130	130	160	130	160
Compressor						
Compressed air vessel capacity	L	80	80	90	110	90
Lubricant capacity	L	40	40	40	50	40
Type		DACY-13/13	DACY-16/10	DACY-17/8	DACY-13/20	DACY-17/13
Machine						
Free air delivery*	m³/min	13.00	16.00	17.00	13.50	17.00
	cfm	459	565	600	477	600
Normal working pressure	bar(g)	13	10	8	20	13
	psi(g)	189	145	116	290	189
Maximum design pressure	bar(g)	13	10	8	20	13
	psi(g)	189	145	116	290	189
Dimensions(without towbar)	L(mm)	4400	4400	4400	4400	4400
	W(mm)	2050	2050	2050	2050	2050
	H(mm)	2300	2300	2300	2300	2300
Weight	kg	2500	2500	2500	3000	3000
Wheel qty		2	2	2	4	4
Size and No. of outlet valve		G 1-1/2**1 G 3/4**1	G 1-1/2**1 G 3/4**1	G 1-1/2**1 G 3/4**1	G 1-1/2**1 G 3/4**1	G 1-1/2**1 G 3/4**1
Diesel engine						
Manufacturer		Cummins	Cummins	Cummins	Cummins	Cummins
Model		QSB5.9-C190-31	QSB5.9-C190-31	QSB5.9-C190-31	QSB5.9-C210-30	QSB5.9-C210-30
Rated power	kW	142	142	142	154	154
	hp	190	190	190	210	210
Type		Turbocharging, Charge air cooling				
Bore*Stroke*No. of cylinders	mm	102*120*6	102*120*6	102*120*6	114*135*6	114*135*6
Engine speed (nominal)	RPM	2100	2200	2200	2000	2100
Engine speed (unloaded)	RPM	1400	1400	1400	1400	1400
Engine oil capacity	L	18	18	18	18	18
Coolant capacity	L	45	45	45	45	45
Storage battery current CCA		720*2	720*2	720*2	720*2	720*2
Fuel tank capacity	L	240	240	240	240	240
Compressor						
Compressed air vessel capacity	L	120	120	120	120	120
Lubricant capacity	L	55	55	55	55	55

*) Free air delivery in accordance with ISO 1217 : 2009, Annex C: Absolute intake pressure 1 bar (a), cooling and air intake temperature 20°C.

Note: Skid-mounted type is available.

Specifications are subject to change without notice.

Technical parameters

Type		DACY-15/18	DACY-20/13	DACY-21/10	DACY-24/8	DACY-23/13
Machine						
Free air delivery*	m³/min	15.00	20.00	21.00	24.00	23.00
	cfm	530	706	742	847	812
Normal working pressure	bar(g)	18	13	10	8	13
	psi(g)	261	189	145	116	189
Maximum design pressure	bar(g)	18	13	10	8	13
	psi(g)	261	189	145	116	189
Dimensions(without towbar)	L(mm)	4400	3400	3400	3400	4150
	W(mm)	2050	1770	1770	1770	1960
	H(mm)	2300	2770	2770	2770	2450
Weight	kg	3000	4000	4000	4000	4400
Wheel qty		4	4	4	4	4
Size and No. of outlet valve		G 1-1/2**1 G 3/4**1	G 1**1 G 2-1/2**1	G 1**1 G 2-1/2**1	G 1**1 G 2-1/2**1	G 1**1 G 2-1/2**1
Diesel engine						
Manufacturer		Cummins	Cummins	Cummins	Cummins	Cummins
Model		QSB5.9-C210-31	QSC8.3-C260-30	QSC8.3-C260-30	QSC8.3-C260-30	QSL8.9-C325-30
Rated power	kW	154	194	194	194	242
	hp	210	260	260	260	329
Type		Turbocharging, Charge air cooling				
Bore*Stroke*No. of cylinders	mm	114*135*6	114*135*6	114*135*6	114*135*6	114*144.5*6
Engine speed (nominal)	RPM	1950	1820	2050	2200	2100
Engine speed (unloaded)	RPM	1400	1350	1350	1350	1400
Engine oil capacity	L	18	28.6	28.6	28.6	27.6
Coolant capacity	L	45	50	50	50	70
Storage battery current CCA		720*2	720*2	720*2	720*2	830
Fuel tank capacity	L	240	360	360	360	496
Compressor						
Compressed air vessel capacity	L	120	189	189	189	182
Lubricant capacity	L	55	80	80	80	110
Type		DACY-27/10	DACY-22/20	DACY-27/12	DACY-32/10	DACY-26/25
Machine						
Free air delivery*	m³/min	27.00	22.00	27.00	32.00	26.00
	cfm	953	777	953	1130	918
Normal working pressure	bar(g)	10	20	12	10	25
	psi(g)	145	290	174	145	363
Maximum design pressure	bar(g)	10	20	12	10	25
	psi(g)	145	290	174	145	363
Dimensions(without towbar)	L(mm)	4150	4250	4250	4250	4275
	W(mm)	1960	2000	2000	2000	2100
	H(mm)	2450	2650	2650	2650	2205
Weight	kg	4400	5500	5500	5500	6000
Wheel qty		4	4	4	4	4
Size and No. of outlet valve		G 1**1 G 2-1/2**1	G 1**1 G 2-1/2**1	G 1**1 G 2-1/2**1	G 1**1 G 2-1/2**1	G 2**1 G 3/4**1
Diesel engine						
Manufacturer		Cummins	Cummins	Cummins	Cummins	Cummins
Model		QSL8.9-C325-30	QSL8.9-C360-30	QSL8.9-C360-30	QSL8.9-C360-30	QSZ13-C550-30
Rated power	kW	242	264	264	264	410
	hp	329	359	359	359	550
Type		Turbocharging, Charge air cooling				
Bore*Stroke*No. of cylinders	mm	114*144.5*6	114*144.5*6	114*144.5*6	114*144.5*6	130*163*6
Engine speed (nominal)	RPM	2050	2100	2050	2050	1700
Engine speed (unloaded)	RPM	1400	1400	1400	1400	1350
Engine oil capacity	L	27.6	27.6	27.6	27.6	45
Coolant capacity	L	70	75	75	75	75
Storage battery current CCA		830	830	830	830	930*2
Fuel tank capacity	L	496	540	540	540	800
Compressor						
Compressed air vessel capacity	L	182	212	212	212	190
Lubricant capacity	L	110	120	120	120	150
Type		DACY-33/25	DACY-34/30	DACY-45/10	DACY-33/35	DACY-39/25
Machine						
Free air delivery*	m³/min	33.00	34.00	46.38	33.10	39.00
	cfm	1166	1200	1638	1165	1377
Normal working pressure	bar(g)	25	30	10	35	25
	psi(g)	363	435	145	508	363
Maximum design pressure	bar(g)	25	30	10	35	25
	psi(g)	363	435	145	508	363
Dimensions(without towbar)	L(mm)	4275	4275	4275	5100	5100
	W(mm)	2100	2100	2100	2200	2200
	H(mm)	2205	2205	2205	2870	2870
Weight	kg	6000	6000	6000	7000	7000
Wheel qty		4	4	4	4	4
Size and No. of outlet valve		G 2**1 G 3/4**1	G 2**1 G 3/4**1	G 2**1 G 3/4**1	G 2**1 G 3/4**1	G 2**1 G 3/4**1
Diesel engine						
Manufacturer		Cummins	Cummins	Cummins	Cummins	Cummins
Model		QSZ13-C550-30	QSZ13-C550-30	QSZ13-C550-30	KTA19-C700	KTA19-C700
Rated power	kW	410	410	410	522	522
	hp	550	550	550	700	700
Type		Turbocharging, Charge air cooling				
Bore*Stroke*No. of cylinders	mm	130*163*6	130*163*6	130*163*6	159*159*6	159*159*6
Engine speed (nominal)	RPM	1700	1750	1750	1800	1900
Engine speed (unloaded)	RPM	1350	1350	1350	1300	1300
Engine oil capacity	L	45	45	45	84.4	84.4
Coolant capacity	L	75	75	75	30.3	30.3
Storage battery current CCA		930*2	930*2	930*2	930*2	930*2
Fuel tank capacity	L	800	800	800	1000	1000
Compressor						
Compressed air vessel capacity	L	190	190	190	300	300
Lubricant capacity	L	150	150	150	180	180

*) Free air delivery in accordance with ISO 1217 : 2009, Annex C: Absolute intake pressure 1 bar (a), cooling and air intake temperature 20°C.

Note: Skid-mounted type is available.

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Denair Energy Saving Technology (Shanghai) Plc.

No. 6767, Tingfeng Rd., Jinshan District,
Shanghai 201502, China
Tel.: +86 21 3783 1829
Fax: +86 21 6040 5929

info@denair.net
www.denair.net

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Never use compressed air as breathing air without prior purification in accordance with local legislation and standards.