GLOBE ENERGY

DENAIR®

Portable
Rotary Screw
Air Compressors

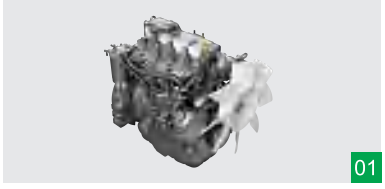
Capacities from 185 to 1600 cfm, 5.00 to 45.00 m^3/min
Pressures from 102 to 508 psi(g), 7 to 35 bar(g)
Emission standard: Tier 3

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 m^3/min working pressure 7~35bar make these compressors fit for almost any application.

PORTABLE ROTARY SCREW AIR COMPRESSORS

Features and advantages


01

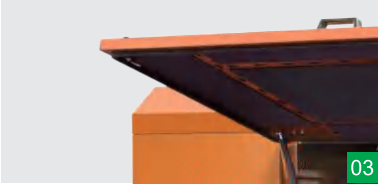
Yanmar Engine

Yanmar engine typically boast significant advantages in performance, reliability, and efficiency.


02

Smartgen Controller

It has significant advantages in intelligence, versatility, user-friendliness, reliability, and customization.


03

Compressor Shell

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


04

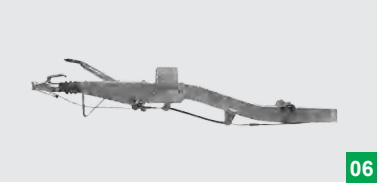
State-of-the-art Screw Element

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


05

Super 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.


06

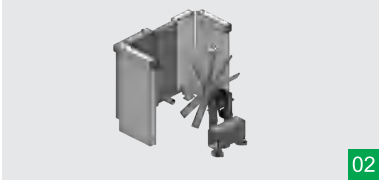
High Speed Hitch and Axle(optional)

DENAIR®

01

Cummins Engine

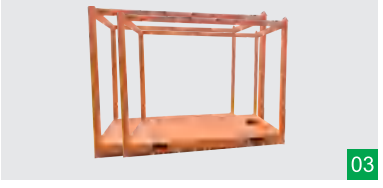
Heavy Duty and Less Fuel Consumption compared to similar engine designs, better in durability and longevity.



02

Cooling System

It can improve heat dissipation efficiency, enhance equipment performance, prolong service life, increase stability, and promote energy conservation and environmental protection.



03

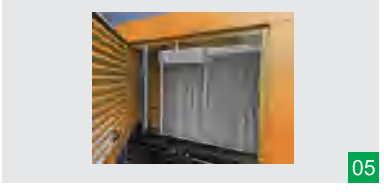
DNV Frame(optional)

The DNV frame can significantly enhance safety, reliability, and environmental friendliness, while ensuring operational compliance and risk management.

04

Double Stage Screw Element

Double stage air end have significant advantages in terms of efficiency, temperature control, adaptability, lifespan, cooling requirements, operational stability, and compression ratio.



05

After Inner Cooler(optional)

The application of an integrated aftercooler in a compressor can significantly enhance system efficiency, reliability, and safety, while improving air quality and extending equipment lifespan.

06

Skid Mounted Type(optional)

Skid-mounted compressors, with their convenient transportation and installation, high level of integration, flexibility, and cost efficiency, have become the ideal choice for various industrial applications.

Technical parameters

Type		DACY0507	DACY0513	DACY0707	DACY0710	DACY1008
Machine						
Free air delivery*	m³/min	5.00	5.00	7.50	7.00	10.00
	cfm	185	185	265	247	375
Normal working pressure	bar(g)	7	13	7.0	10	8
	psi(g)	102	189	102	145	116
Maximum design pressure	bar(g)	7	13	7.0	10	8
	psi(g)	102	189	102	145	116
Dimensions(without towbar)	L(mm)	2210	3020	3020	3020	3240
	W(mm)	1450	1650	1650	1650	1880
	H(mm)	1365	1730	1730	1730	2100
Weight	kg	900	1300	1300	1300	1800
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 3/4"*1 G 1-1/2"*1
Diesel engine						
Manufacturer		Yanmar	Yanmar	Yanmar	Yanmar	Cummins
Model		4TNV94L	4TNV98T	4TNV98T	4TNV98T	QSB3.9-C110-31
Rated power	kW	34.6	64	64	64	81
	hp	47	80	80	80	110
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	2400	2400	2400	2500
Engine speed (unloaded)	RPM	1700	1800	1800	1800	1700
Engine oil capacity	L	7	12	12	12	11
Coolant capacity	L	8	15.5	15.5	15.5	28
Storage battery current CCA		680	830	830	830	720
Fuel tank capacity	L	70	100	100	100	160
Compressor						
Compressed air vessel capacity	L	30	45	45	45	90
Lubricant capacity	L	15	25	25	25	40

Type		DACY1010	DACY1207	DACY1208	DACY1013	DACY1110
Machine						
Free air delivery*	m³/min	10.00	12.00	12.00	10.00	11.00
	cfm	375	425	425	375	400
Normal working pressure	bar(g)	10	7	8	13	10
	psi(g)	145	102	116	189	145
Maximum design pressure	bar(g)	10	7	8	13	10
	psi(g)	145	102	116	189	145
Dimensions(without towbar)	L(mm)	3240	3240	3240	3240	3240
	W(mm)	1880	1880	1880	1880	1880
	H(mm)	2100	2100	2100	2100	2100
Weight	kg	1800	1800	1800	1800	1800
Wheel qty		2	2	2	2	2
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		QSB3.9-C130-32	QSB3.9-C130-32	QSB3.9-C150-31	QSB3.9-C150-31	QSB3.9-C150-31
Rated power	kW	97	97	110	110	110
	hp	130	130	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*4	102*120*4
Engine speed (nominal)	RPM	2500	2250	2300	2300	2300
Engine speed (unloaded)	RPM	1700	1700	1700	1700	1700
Engine oil capacity	L	11	11	11	11	11
Coolant capacity	L	27	27	27	27	27
Storage battery current CCA		720	720	720	720	720
Fuel tank capacity	L	160	160	160	160	160
Compressor						
Compressed air vessel capacity	L	90	90	90	90	90
Lubricant capacity	L	40	40	40	40	40

Type		DACY1313	DACY1610	DACY1708	DACY1320	DACY1713
Machine						
Free air delivery*	m³/min	13.00	16.00	17.00	13.00	17.00
	cfm	460	565	600	460	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)	3500	3500	3500	3500	3500
	W(mm)	2050	2050	2050	2050	2050
	H(mm)	2300	2300	2300	2300	2300
Weight	kg	2400	2400	2400	2700	3000
Wheel qty		2	2	2	2	2
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	102*120*6	102*120*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		2*760	2*760	2*760	2*760	2*760
Fuel tank capacity	L	240	240	240	250	250
Compressor						
Compressed air vessel capacity	L	112	112	112	112	112
Lubricant capacity	L	50	50	50	60	60

**) 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		DACY1518	DACY2013	DACY2110	DACY2508	DACY2114
Machine						
Free air delivery*	m³/min	15.00	20.00	21.00	25.00	21.00
	cfm	530	710	750	885	750
Normal working pressure	bar(g)	18	13	10	8	14
	psi(g)	260	189	145	116	203
Maximum design pressure	bar(g)	18	13	10	8	14
	psi(g)	260	189	145	116	203
Dimensions(without towbar)	L(mm)	3500	4230	4230	4230	4230
	W(mm)	2050	1850	1850	1850	1850
	H(mm)	2300	2280	2280	2280	2280
Weight	kg	3000	4000	4000	4000	4000
Wheel qty		2	4	4	4	4
Size and No. of outlet valve		G 1-1/2"*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		QSB5.9-C210-30	QSC8.3-C260-30	QSC8.3-C260-30	QSC8.3-C260-30	QSB8.3-C260-30
Rated power	kW	154	194	194	194	194
	hp	210	260	260	260	260
Type		Turbocharging, Charge air cooling				
Bore*Stroke*No. of cylinders	mm	102*120*6	114*135*6	114*135*6	114*135*6	114*135*6
Engine speed (nominal)	RPM	1950	2050	2100	2000	2000
Engine speed (unloaded)	RPM	1400	1400	1400	1400	1400
Engine oil capacity	L	18	24	24	24	24
Coolant capacity	L	45	45	45	45	45
Storage battery current CCA		2*760	2*830	2*830	2*830	2*830
Fuel tank capacity	L	250	380	380	380	380
Compressor						
Compressed air vessel capacity	L	112	130	130	130	130
Lubricant capacity	L	60	75	75	75	75

Type		DACY2710	DACY2420	DACY2712	DACY3210	DACY2325
Machine						
Free air delivery*	m³/min	27.00	24.00	27.00	32.00	23.00
	cfm	950	850	950	1130	815
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)	4520	4520	4520	4520	4520
	W(mm)	2000	2000	2000	2000	2000
	H(mm)	2350	2350	2350	2350	2350
Weight	kg	4400	5500	5500	5500	5500
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		QSL8.9-C325-30	QSL8.9-C360-30	QSL8.9-C360-30	QSL8.9-C360-30	QSL8.9-C360-30
Rated power	kW	242	264	264	264	264
	hp	325	360	360	360	360
Type		Turbocharging, Charge air cooling				
Bore*Stroke*No. of cylinders	mm	114*144.5*6	114*114.5*6	114*144.5*6	114*144.5*6	114*144.5*6
Engine speed (nominal)	RPM	2050	2000	2100	2050	2000
Engine speed (unloaded)	RPM	1400	1400	1400	1400	1400
Engine oil capacity	L	24	24	24	24	24
Coolant capacity	L	70	75	75	75	75
Storage battery current CCA		830	830	830	830	830
Fuel tank capacity	L	496	520	520	520	520
Compressor						
Compressed air vessel capacity	L	182	210	246	246	210
Lubricant capacity	L	110	100	110	110	100

Type		DACY3425	DACY3330	DACY4510	DACY3335	DACY3925
Machine						
Free air delivery*	m³/min	34.00	33.00	45.00	33.00	39.00
	cfm	1200	1160	1600	1160	1375
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	4480	5100	5100
	W(mm)	2100	2100	2160	2200	2200
	H(mm)	2205	2205	2980	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 1"*1 G 3"*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	1750	1700	1850	1800	1900
Engine speed (unloaded)	RPM	1350	1350	1300	1300	1300
Engine oil capacity	L	40	40	40	35	35
Coolant capacity	L	75	75	75	100	100
Storage battery current CCA		2*930	2*930	2*930	2*930	2*930
Fuel tank capacity	L	800	800	800	1000	1000
Compressor						
Compressed air vessel capacity	L	190	190	247	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.

Specifications are subject to change without notice.

P-DNR202404-11 Specifications are subject to change without prior notice.
Never use compressed air as breathing air without prior purification in accordance with local legislation and standards.

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