

Portable Rotary Screw Air Compressors

Capacities from: 120 to 1638 cfm, 3.40 to 46.38 m³/min

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

Emission standard: Tier 2



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 3.4~46.38m³/min working pressure 7~35bar make these compressors fit for almost any application.



PORTABLE ROTARY SCREW AIR COMPRESSORS

Features and advantages



01

Diesel Engine

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



02

Chassis

Damped chassis and wear resistant type.



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

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-3.2/8	DACY-5/7	DACY-5/13	DACY-6/7	DACY-7/7	DACY-7/10
Machine							
Free air delivery*	m³/min	3.40	5.52	5.31	6.00	7.00	7.00
	cfm	120	195	187	212	247	247
Normal working pressure	bar(g)	8	7	13	7	7	10
	psi(g)	116	102	189	102	102	145
Maximum design pressure	bar(g)	8	15	15	13	10	10
	psi(g)	116	218	218	189	145	145
Dimensions(without towbar)	L(mm)	2263	3120	3120	3120	3120	3120
	W(mm)	1590	1860	1860	1860	1860	1860
	H(mm)	1543	1800	1800	1800	1800	1800
Weight	kg	900	1500	1500	1500	1500	1500
Wheel qty		2	2	2	2	2	2
Size and No. of outlet valve		G 1/2"*1 G 1"*1	G 3/4"*2 G 1-1/4"*1	G 3/4"*2 G 1-1/4"*1	G 3/4"*2 G 1-1/4"*1	G 3/4"*2 G 1-1/4"*1	G 3/4"*2 G 1-1/4"*1
Diesel engine							
Manufacturer		Yangdong	Cummins	Cummins	Cummins	Cummins	Cummins
Model		YSD490G	4BT3.9-C80	4BT3.9-C80	4BT3.9-C80	4BT3.9-C80	4BT3.9-C80
Rated power	kW	32	60	60	60	60	60
	hp	42	80	80	80	80	80
Type		Turbocharging, Charge air cooling					
Bore*Stroke*No. ofcylinders	mm	90*100*4	102*120*4	102*120*4	102*120*4	102*120*4	102*120*4
Engine speed (nominal)	RPM	2200	2200	2200	2200	2200	2200
Engine speed (unloaded)	RPM	1400	1400	1400	1400	1400	1400
Engine oil capacity	L	7	9	9	9	9	9
Coolant capacity	L	15	20	20	20	20	20
Storage battery current CCA		450	670	670	670	670	670
Fuel tank capacity	L	52	80	80	80	80	80
Compressor							
Compressed air vessel capacity	L	27	48	48	48	48	48
Lubricant capacity	L	16	20	20	20	20	20

Type		DACY-7/13	DACY-8/10	DACY-9/8	DACY-8/15	DACY-9/13	DACY-12/7
Machine							
Free air delivery*	m³/min	7.00	8.36	9.00	8.10	9.00	12.00
	cfm	247	295	318	300	318	424
Normal working pressure	bar(g)	13	10	8	15	13	7
	psi(g)	189	145	116	218	189	102
Maximum design pressure	bar(g)	14	10	8	15	13	8
	psi(g)	203	145	116	218	189	116
Dimensions(without towbar)	L(mm)	3360	3360	3360	3360	3360	3360
	W(mm)	2010	2010	2010	2010	2010	2010
	H(mm)	2050	2050	2050	2050	2050	2050
Weight	kg	2000	2000	2000	2000	2000	2000
Wheel qty		2	2	2	2	2	2
Size and No. of outlet valve		G 1"*2 G 1-1/2"*1	G 1"*2 G 1-1/2"*1	G 1"*2 G 1-1/2"*1	G 1"*2 G 1-1/2"*1	G 1"*2 G 1-1/2"*1	G 1"*2 G 1-1/2"*1
Diesel engine							
Manufacturer		Cummins	Cummins	Cummins	Cummins	Cummins	Cummins
Model		4BT3.9-C100	4BT3.9-C100	4BT3.9-C100	4BT3.9-C125	4BT3.9-C125	4BT3.9-C125
Rated power	kW	74	74	74	93	93	93
	hp	100	100	100	125	125	125
Type		Turbocharging, Charge air cooling					
Bore*Stroke*No. ofcylinders	mm	102*120*4	102*120*4	102*120*4	102*120*4	102*120*4	102*120*4
Engine speed (nominal)	RPM	2200	2100	2200	2000	2200	2200
Engine speed (unloaded)	RPM	1400	1400	1400	1400	1400	1400
Engine oil capacity	L	9	9	9	9	9	9
Coolant capacity	L	30	30	30	30	30	30
Storage battery current CCA		670	670	670	670	670	670
Fuel tank capacity	L	126	126	126	126	126	126
Compressor							
Compressed air vessel capacity	L	80	80	80	80	80	80
Lubricant capacity	L	40	40	40	45	45	45

Type		DACY-8/16	DACY-9/15	DACY-10/13	DACY-11/10	DACY-13/10	DACY-16/8
Machine							
Free air delivery*	m³/min	8.01	9.00	10.00	11.47	13.00	16.00
	cfm	283	318	353	405	459	565
Normal working pressure	bar(g)	16	15	13	10	10	8
	psi(g)	232	218	189	145	145	116
Maximum design pressure	bar(g)	16	15	14	10	10	8
	psi(g)	232	218	203	145	145	116
Dimensions(without towbar)	L(mm)	3740	3740	3740	3740	3740	3740
	W(mm)	2110	2110	2110	2110	2110	2110
	H(mm)	2240	2240	2240	2240	2240	2240
Weight	kg	3000	3000	3000	3000	3000	3000
Wheel qty		2	2	2	2	2	2
Size and No. of outlet valve		G 1"*2 G 2"*1	G 1"*2 G 2"*1	G 1"*2 G 2"*1	G 1"*2 G 2"*1	G 1"*2 G 2"*1	G 1"*2 G 2"*1
Diesel engine							
Manufacturer		Cummins	Cummins	Cummins	Cummins	Cummins	Cummins
Model		6BT5.9-C150	6BT5.9-C150	6BT5.9-C150	6BT5.9-C150	6BT5.9-C150	6BT5.9-C150
Rated power	kW	110	110	110	110	110	110
	hp	150	150	150	150	150	150
Type		Turbocharging, Charge air cooling					
Bore*Stroke*No. ofcylinders	mm	102*120*6	102*120*6	102*120*6	102*120*6	102*120*6	102*120*6
Engine speed (nominal)	RPM	2100	2300	2500	2300	2450	2300
Engine speed (unloaded)	RPM	1400	1400	1400	1400	1400	1400
Engine oil capacity	L	16.3	16.3	16.3	16.3	16.3	16.3
Coolant capacity	L	30	30	30	30	30	30
Storage battery current CCA		670	670	670	670	670	670
Fuel tank capacity	L	190	190	190	190	190	190
Compressor							
Compressed air vessel capacity	L	155	155	155	155	155	155
Lubricant capacity	L	50	50	50	50	50	50

*)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.

Technical parameters

Type		DACY-17/7	DACY-10/16	DACY-12/13	DACY-16/10	DACY-17/8	DACY-18/7
Machine							
Free air delivery*	m³/min	17.00	10.00	12.00	16.00	17.00	18.00
	cfm	600	353	424	565	600	636
Normal working pressure	bar(g)	7	16	13	10	8	7
	psi(g)	102	232	189	145	116	102
Maximum design pressure	bar(g)	7	16	13	10	8	7
	psi(g)	102	232	189	145	116	102
Dimensions(without towbar)	L(mm)	3740	3790	3790	3790	3790	3790
	W(mm)	2110	2110	2110	2110	2110	2110
	H(mm)	2240	2390	2390	2390	2390	2390
Weight	kg	3000	3200	3200	3200	3200	3200
Wheel qty		2	2	2	2	2	2
Size and No. of outlet valve		G 1"×2 G 2"×1	G 1"×2 G 2"×1	G 1"×2 G 2"×1	G 1"×2 G 2"×1	G 1"×2 G 2"×1	G 1"×2 G 2"×1
Diesel engine							
Manufacturer		Cummins	Cummins	Cummins	Cummins	Cummins	Cummins
Model		6BT5.9-C150	6BTA5.9-C180	6BTA5.9-C180	6BTA5.9-C180	6BTA5.9-C180	6BTA5.9-C180
Rated power	kW	110	132	132	132	132	132
	hp	150	180	180	180	180	180
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	102*120*6
Engine speed (nominal)	RPM	2450	2500	2400	2350	2500	2500
Engine speed (unloaded)	RPM	1400	1400	1400	1400	1400	1400
Engine oil capacity	L	16.3	16.3	16.3	16.3	16.3	16.3
Coolant capacity	L	30	35	35	35	35	35
Storage battery current CCA		670	670	670	670	670	670
Fuel tank capacity	L	190	190	190	190	190	190
Compressor							
Compressed air vessel capacity	L	155	155	155	155	155	155
Lubricant capacity	L	50	55	55	55	55	55

Type		DACY-10/20	DACY-15/18	DACY-17/13	DACY-18/12	DACY-21/8	DACY-23/8
Machine							
Free air delivery*	m³/min	12.16	15.00	17.00	18.00	21.36	23.00
	cfm	429	455	600	636	754	812
Normal working pressure	bar(g)	20	18	13	12	8	8
	psi(g)	290	261	189	174	116	116
Maximum design pressure	bar(g)	20	18	13	12	8	8
	psi(g)	290	261	189	174	116	116
Dimensions(without towbar)	L(mm)	3920	3920	3920	3920	3920	3920
	W(mm)	1800	1800	1800	1800	1800	1800
	H(mm)	2380	2380	2380	2380	2380	2380
Weight	kg	3700	3700	3700	3700	3700	3700
Wheel qty		4	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 1"×1 G 2-1/2"×1	G 1"×1 G 2-1/2"×1
Diesel engine							
Manufacturer		Cummins	Cummins	Cummins	Cummins	Cummins	Cummins
Model		6CTA8.3-C215	6CTA8.3-C215	6CTA8.3-C215	6CTA8.3-C215	6CTA8.3-C215	6CTA8.3-C215
Rated power	kW	160	160	160	160	160	160
	hp	215	215	215	215	215	215
Type		Turbocharging, Charge air cooling					
Bore*Stroke*No. of cylinders	mm	114*135*6	114*135*6	114*135*6	114*135*6	114*135*6	114*135*6
Engine speed (nominal)	RPM	2100	2200	2050	2100	2050	2100
Engine speed (unloaded)	RPM	1400	1400	1400	1400	1400	1400
Engine oil capacity	L	27.6	27.6	27.6	27.6	27.6	27.6
Coolant capacity	L	50	50	50	50	50	50
Storage battery current CCA		720	720	720	720	720	720
Fuel tank capacity	L	360	360	360	360	360	360
Compressor							
Compressed air vessel capacity	L	189	189	189	189	189	189
Lubricant capacity	L	90	90	90	90	90	90

Type		DACY-17/16	DACY-19/14	DACY-20/13	DACY-21/10	DACY-23/10	DACY-25/8
Machine							
Free air delivery*	m³/min	17.00	19.00	20.00	21.73	23.00	25.00
	cfm	600	671	706	767	812	883
Normal working pressure	bar(g)	16	14	13	10	10	8
	psi(g)	232	203	189	145	145	116
Maximum design pressure	bar(g)	16	14	13	10	10	8
	psi(g)	232	203	189	145	145	116
Dimensions(without towbar)	L(mm)	3920	3920	3920	3920	3920	3920
	W(mm)	1800	1800	1800	1800	1800	1800
	H(mm)	2380	2380	2380	2380	2380	2380
Weight	kg	4400	4400	4400	4400	4400	4400
Wheel qty		4	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 1"×1 G 2-1/2"×1	G 1"×1 G 2-1/2"×1
Diesel engine							
Manufacturer		Cummins	Cummins	Cummins	Cummins	Cummins	Cummins
Model		6CTA8.3-C260	6CTA8.3-C260	6CTA8.3-C260	6CTA8.3-C260	6CTA8.3-C260	6CTA8.3-C260
Rated power	kW	194	194	194	194	194	194
	hp	260	260	260	260	260	260
Type		Turbocharging, Charge air cooling					
Bore*Stroke*No. of cylinders	mm	114*135*6	114*135*6	114*135*6	114*135*6	114*135*6	114*135*6
Engine speed (nominal)	RPM	1950	1820	1900	2100	2150	2000
Engine speed (unloaded)	RPM	1400	1400	1400	1400	1400	1400
Engine oil capacity	L	27.6	27.6	27.6	27.6	27.6	27.6
Coolant capacity	L	55	55	55	55	55	55
Storage battery current CCA		720	720	720	720	720	720
Fuel tank capacity	L	400	400	400	400	400	400
Compressor							
Compressed air vessel capacity	L	189	189	189	189	189	189
Lubricant capacity	L	90	90	90	90	90	90

*)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.

Technical parameters

Type		DACY-18/18	DACY-20/16	DACY-22/14	DACY-27/10	DACY-28/8	DACY-22/20
Machine							
Free air delivery*	m³/min	19.91	20.00	22.00	27.00	28.00	22.00
	cfm	703	706	777	953	989	777
Normal working pressure	bar(g)	18	16	14	10	8	20
	psi(g)	261	232	203	145	116	290
Maximum design pressure	bar(g)	18	16	14	10	8	20
	psi(g)	261	232	203	145	116	290
Dimensions (without towbar)	L(mm)	4150	4150	4150	4150	4150	4250
	W(mm)	1960	1960	1960	1960	1960	2000
	H(mm)	2450	2450	2450	2450	2450	2650
Weight	kg	4500	4500	4500	4500	4500	5500
Wheel qty		4	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 1"×1 G 2-1/2"×1	G 1"×1 G 2-1/2"×1
Diesel engine							
Manufacturer		Cummins	Cummins	Cummins	Cummins	Cummins	Cummins
Model		6LTAA8.9-C325	6LTAA8.9-C325	6LTAA8.9-C325	6LTAA8.9-C325	6LTAA8.9-C325	6LTAA9.5-C360
Rated power	kW	239	239	239	239	239	264
	hp	325	325	325	325	325	360
Type		Turbocharging, Charge air cooling					
Bore*Stroke*No. of cylinders	mm	114*145*6	114*145*6	114*145*6	114*145*6	114*145*6	116.5*148*6
Engine speed (nominal)	RPM	2100	2050	2150	2150	2200	2200
Engine speed (unloaded)	RPM	1400	1400	1400	1400	1400	1400
Engine oil capacity	L	27.6	27.6	27.6	27.6	27.6	27.6
Coolant capacity	L	60	60	60	60	60	65
Storage battery current CCA		830	830	830	830	830	830
Fuel tank capacity	L	590	590	590	590	590	640
Compressor							
Compressed air vessel capacity	L	185	185	185	185	185	215
Lubricant capacity	L	110	110	110	110	110	115

Type		DACY-27/12	DACY-32/10	DACY-26/25	DACY-34/25	DACY-45/10	DACY-33/35
Machine							
Free air delivery*	m³/min	27.00	32.00	26.00	34.00	46.38	33.00/39.00
	cfm	953	1130	918	1200	1638	1165/1377
Normal working pressure	bar(g)	12	10	25	25	10	35/25
	psi(g)	174	145	363	363	145	508/363
Maximum design pressure	bar(g)	12	10	25	25	10	35/25
	psi(g)	174	145	363	363	145	508/363
Dimensions (without towbar)	L(mm)	4250	4250	4700	4700	4412	5000
	W(mm)	2000	2000	2100	2100	2160	2200
	H(mm)	2650	2650	2900	2900	2900	2900
Weight	kg	5500	5500	4800	6800	7000	7200
Wheel qty		4	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 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
Diesel engine							
Manufacturer		Cummins	Cummins	Cummins	Cummins	Cummins	Cummins
Model		6LTAA9.5-C360	6LTAA9.5-C360	QSZ13-C550	QSZ13-C550	QSZ13-C550	KTA19-P700
Rated power	kW	264	264	410	410	410	522
	hp	360	359	550	550	550	700
Type		Turbocharging, Charge air cooling					
Bore*Stroke*No. of cylinders	mm	116.5*148*6	116.5*148*6	130*163*6	130*163*6	130*163*6	159*159*6
Engine speed (nominal)	RPM	2200	2200	1800	1800	1850	1800
Engine speed (unloaded)	RPM	1400	1400	1300	1300	1350	1300
Engine oil capacity	L	27.6	27.6	35	35	35	38
Coolant capacity	L	65	65	160	160	160	160
Storage battery current CCA		830	830	930	930	930	300Ah
Fuel tank capacity	L	640	640	600	600	660	800
Compressor							
Compressed air vessel capacity	L	215	215	247	247	247	247
Lubricant capacity	L	115	115	140	140	140	140

*)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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