

Portable Rotary Screw Air Compressors

Capacities from 140 to 1687 cfm
Pressures from 102 to 508 psig



DACY SERIES

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 3.2~45m³/min working pressure 7~35bar 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.

Technical parameters

Type		DACY-3.2/8	DACY-5/7	DACY-6/7	DACY-5/8	DACY-6/8	DACY-5/9	DACY-6/9
Machine								
Free air delivery	m³/min	3.98	5.72	5.72	5.69	5.69	5.65	5.65
	cfm	140	202	202	201	201	200	200
Normal working pressure	bar(e)	8	7	7	8	8	9	9
	psig	116	102	102	116	116	130	130
Dimensions (without towbar) (mm)	L(mm)	2265	3075	3075	3075	3075	3075	3075
	W(mm)	1590	1900	1900	1900	1900	1900	1900
	H(mm)	1575	2040	2040	2040	2040	2040	2040
Weight	kg	900	1350	1350	1350	1350	1350	1350
Wheel qty		2	2	2	2	2	2	2
Size and No. of outlet valve		G 1/2" *1 G 1" *1	G 3/4" *1 G 1-1/4" *1	G 3/4" *1 G 1-1/4" *1	G 3/4" *1 G 1-1/4" *1	G 3/4" *1 G 1-1/4" *1	G 3/4" *1 G 1-1/4" *1	G 3/4" *1 G 1-1/4" *1
Diesel engine								
Manufacturer		Yangdong	Cummins	Cummins	Cummins	Cummins	Cummins	Cummins
Model		YSD490G	QSB3.9-C80-31	QSB3.9-C80-31	QSB3.9-C80-31	QSB3.9-C80-31	QSB3.9-C80-31	QSB3.9-C80-31
Rated power	kw	32	60	60	60	60	60	60
	hp	42	80	80	80	80	80	80
Type		Vertical, in-line, Water-cooled, 4-stroke, Direct injection	Turbocharging, Charge air cooling					
Bore*Stroke*No. of cylinders	mm	90*100*4	108*115*4	108*115*4	108*115*4	108*115*4	108*115*4	108*115*4
Engine speed (nominal)	RPM	2200	2200	2200	2200	2200	2200	2200
Engine speed (unloaded)	RPM	1400	1400	1400	1400	1400	1400	1400
Engine oil capacity	L	7	11	11	11	11	11	11
Coolant capacity	L	15	25	25	25	25	25	25
Storage battery current CCA		450	670	670	670	670	670	670
Fuel tank capacity	L	52	120	120	120	120	120	120
Compressor								
Compressed air vessel capacity	L	27	43	43	43	43	43	43
Lubricant capacity	L	18	30	30	30	30	30	30

Type		DACY-5/10	DACY-5/12	DACY-5/13	DACY-7.5/7	DACY-7/9	DACY-9/7	DACY-8/10
Machine								
Free air delivery	m³/min	5.61	5.52	5.47	7.50	7.02	9.32	8.00
	cfm	198	195	193	265	248	329	282
Normal working pressure	bar(e)	10	12	13	7	9	7	10
	psig	145	175	189	102	130	102	145
Dimensions (without towbar) (mm)	L(mm)	3075	3075	3075	3075	3075	3220	3220
	W(mm)	1900	1900	1900	1900	1900	2000	2000
	H(mm)	2040	2040	2040	2040	2040	2355	2355
Weight	kg	1350	1350	1350	1350	1350	1700	1700
Wheel qty		2	2	2	2	2	2	2
Size and No. of outlet valve		G 3/4" *1 G 1-1/4" *1	G 3/4" *1 G 1-1/4" *1	G 3/4" *1 G 1-1/4" *1	G 3/4" *1 G 1-1/4" *1	G 3/4" *1 G 1-1/4" *1	G 1" *1 G 1-1/2" *1	G 1" *1 G 1-1/2" *1
Diesel engine								
Manufacturer		Cummins	Cummins	Cummins	Cummins	Cummins	Cummins	Cummins
Model		QSB3.9-C80-31	QSB3.9-C80-31	QSB3.9-C80-31	QSB3.9-C80-31	QSB3.9-C80-31	QSB3.9-C100-31	QSB3.9-C100-31
Rated power	kw	60	60	60	60	60	74	74
	hp	80	80	80	80	80	100	100
Type		Turbocharging, Charge air cooling						
Bore*Stroke*No. of cylinders	mm	108*115*4	108*115*4	108*115*4	108*115*4	108*115*4	102*120*4	102*120*4
Engine speed (nominal)	RPM	2200	2200	2200	2200	2200	2250	2400
Engine speed (unloaded)	RPM	1400	1400	1400	1400	1400	1400	1400
Engine oil capacity	L	11	11	11	11	11	11	11
Coolant capacity	L	25	25	25	25	25	28	28
Storage battery current CCA		670	670	670	670	670	670	670
Fuel tank capacity	L	120	120	120	120	120	130	130
Compressor								
Compressed air vessel capacity	L	43	43	43	43	43	80	80
Lubricant capacity	L	30	30	30	30	30	45	45

Type		DACY-12/7	DACY-10/8	DACY-8.5/10	DACY-10/10	DACY-8.5/13	DACY-15/8	DACY-9/13
Machine								
Free air delivery	m³/min	12.00	10.35	10.28	10.28	8.50	15.00	9.00
	cfm	424	366	363	363	300	530	318
Normal working pressure	bar(e)	7	8	10	10	13	8	13
	psig	102	116	145	145	189	116	189
Dimensions (without towbar) (mm)	L(mm)	3220	3220	3220	3220	3220	3530	3530
	W(mm)	2000	2000	2000	2000	2000	2090	2090
	H(mm)	2355	2355	2355	2355	2355	2325	2325
Weight	kg	1700	1700	1700	1700	1700	2050	2050
Wheel qty		2	2	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 G 1-1/2" *1	G 1" *1 G 1-1/2" *1	G 1" *1 G 1-1/2" *1	G 1" *1 G 1-1/2" *1	G 1" *1 G 1-1/2" *1
Diesel engine								
Manufacturer		Cummins	Cummins	Cummins	Cummins	Cummins	Cummins	Cummins
Model		QSB3.9-C130-31	QSB3.9-C130-31	QSB3.9-C130-31	QSB3.9-C130-31	QSB3.9-C130-31	QSB5.9-C150-31	QSB5.9-C150-31
Rated power	kw	96	96	96	96	96	113	113
	hp	130	130	130	130	130	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	102*120*4	102*120*4
Engine speed (nominal)	RPM	2400	2400	2200	2400	2400	2200	2200
Engine speed (unloaded)	RPM	1400	1400	1400	1400	1400	1400	1400
Engine oil capacity	L	11	11	11	11	11	17.3	17.3
Coolant capacity	L	33	33	33	33	33	33	33
Storage battery current CCA		670	670	670	670	670	720	720
Fuel tank capacity	L	130	130	130	130	130	130	130
Compressor								
Compressed air vessel capacity	L	80	80	80	80	80	110	110
Lubricant capacity	L	45	45	45	45	45	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.

Technical parameters

Type		DACY-12/8	DACY-13/8	DACY-11/10	DACY-12/10	DACY-10/13	DACY-9/14	DACY-9/15
Machine								
Free air delivery	m ³ /min	12.00	13.00	11.27	12.00	10.05	9.00	9.00
	cfm	424	459	398	424	355	318	318
Normal working pressure	bar(e)	8	8	10	10	13	14	15
	psig	116	116	145	145	189	203	218
Dimensions (without towbar) (mm)	L(mm)	3530	3530	3530	3530	3530	3530	3530
	W(mm)	2090	2090	2090	2090	2090	2090	2090
	H(mm)	2325	2325	2325	2325	2325	2325	2325
Weight	kg	2050	2050	2050	2050	2050	2050	2050
Wheel qty		2	2	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 G 1-1/2" *1	G 1" *1 G 1-1/2" *1	G 1" *1 G 1-1/2" *1	G 1" *1 G 1-1/2" *1	G 1" *1 G 1-1/2" *1
Diesel engine								
Manufacturer		Cummins	Cummins	Cummins	Cummins	Cummins	Cummins	Cummins
Model		QSB5.9-C150-31	QSB5.9-C150-31	QSB5.9-C150-31	QSB5.9-C150-31	QSB5.9-C150-31	QSB5.9-C150-31	QSB5.9-C150-31
Rated power	kw	113	113	113	113	113	113	113
	hp	150	150	150	150	150	150	150
Turbocharging, Charge air cooling								
Type								
Bore*Stroke*No. of cylinders	mm	102*120*4	102*120*4	102*120*4	102*120*4	102*120*4	102*120*4	102*120*4
Engine speed (nominal)	RPM	2200	2200	2200	2200	2000	2200	2200
Engine speed (unloaded)	RPM	1400	1400	1400	1400	1400	1400	1400
Engine oil capacity	L	17.3	17.3	17.3	17.3	17.3	17.3	17.3
Coolant capacity	L	33	33	33	33	33	33	33
Storage battery current CCA		720	720	720	720	720	720	720
Fuel tank capacity	L	130	130	130	130	130	130	130
Compressor								
Compressed air vessel capacity	L	110	110	110	110	110	110	110
Lubricant capacity	L	55	55	55	55	55	55	55

Type		DACY-8/16	DACY-17/7	DACY-16/8	DACY-14/12	DACY-11/13	DACY-12/13	DACY-21/8
Machine								
Free air delivery	m ³ /min	8.24	17.77	16.17	14.00	11.67	12.00	21.52
	cfm	291	627	571	494	412	424	760
Normal working pressure	bar(e)	16	7	8	12	13	13	8
	psig	232	102	116	175	189	189	116
Dimensions (without towbar) (mm)	L(mm)	3530	3400	3400	3400	3400	3400	3400
	W(mm)	2090	1770	1770	1770	1770	1770	1770
	H(mm)	2325	2670	2670	2670	2670	2670	2670
Weight	kg	2050	3600	3600	3600	3600	3600	4000
Wheel qty		2	4	4	4	4	4	4
Size and No. of outlet valve		G 1" *1 G 1-1/2" *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	G 1" *1 G 2-1/2" *1
Diesel engine								
Manufacturer		Cummins	Cummins	Cummins	Cummins	Cummins	Cummins	Cummins
Model		QSB5.9-C150-31	QSB5.9-C180-31	QSB5.9-C180-31	QSB5.9-C180-31	QSB5.9-C180-31	QSB5.9-C180-31	QSC8.3-C215-30
Rated power	kw	113	132	132	132	132	132	160
	hp	150	180	180	180	180	180	215
Turbocharging, Charge air cooling								
Type								
Bore*Stroke*No. of cylinders	mm	102*120*4	102*120*4	102*120*4	102*120*4	102*120*4	102*120*4	114*135*6
Engine speed (nominal)	RPM	2100	2200	2400	2100	2300	2350	2000
Engine speed (unloaded)	RPM	1400	1400	1400	1400	1400	1400	1400
Engine oil capacity	L	17.3	17.3	17.3	17.3	17.3	17.3	28.6
Coolant capacity	L	33	33	33	33	33	33	50
Storage battery current CCA		720	720	720	720	720	720	830
Fuel tank capacity	L	130	300	300	300	300	300	360
Compressor								
Compressed air vessel capacity	L	110	189	189	189	189	189	189
Lubricant capacity	L	55	80	80	80	80	80	90

Type		DACY-20/10	DACY-18/10	DACY-15.5/13	DACY-15/16	DACY-10/20	DACY-17/14.5	DACY-15/18
Machine								
Free air delivery	m ³ /min	20.00	18.00	15.50	15.00	12.52	17.00	15.45
	cfm	706	636	547	530	442	600	546
Normal working pressure	bar(e)	10	10	13	16	20	15	18
	psig	145	145	189	232	290	218	261
Dimensions (without towbar) (mm)	L(mm)	3400	3400	3400	3400	3400	3400	3400
	W(mm)	1770	1770	1770	1770	1770	1770	1770
	H(mm)	2670	2670	2670	2670	2670	2670	2670
Weight	kg	3600	4000	4000	4000	4000	4000	4000
Wheel qty		4	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	"G 1" *1 G 2-1/2" *1
Diesel engine								
Manufacturer		Cummins	Cummins	Cummins	Cummins	Cummins	Cummins	Cummins
Model		QSC8.3-C215-30	QSC8.3-C215-30	QSC8.3-C215-30	QSC8.3-C215-30	QSC8.3-C215-30	QSC8.3-C215-30	QSC8.3-C260-30
Rated power	kw	160	160	160	160	160	194	194
	hp	215	215	215	215	215	260	260
Turbocharging, Charge air cooling								
Type								
Bore*Stroke*No. of cylinders	mm	114*135*6	114*135*6	114*135*6	114*135*6	114*135*6	114*135*6	114*135*6
Engine speed (nominal)	RPM	1800	2200	2200	2200	2100	1700	2050
Engine speed (unloaded)	RPM	1400	1400	1400	1400	1400	1400	1400
Engine oil capacity	L	28.6	28.6	28.6	28.6	28.6	28.6	28.6
Coolant capacity	L	50	50	50	50	50	50	50
Storage battery current CCA		830	830	830	830	830	830	830
Fuel tank capacity	L	360	360	360	360	360	360	360
Compressor								
Compressed air vessel capacity	L	189	189	189	189	189	189	189
Lubricant capacity	L	90	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-22.5/14	DACY-22.5/14G	DACY-19/14.5	DACY-18.5/18	DACY-18.5/18G	DACY-22/20	DACY-32/10
Machine								
Free air delivery	m³/min	22.50	22.50	19.00	18.50	18.50	22.00	32.00
	cfm	794	794	671	653	653	777	1130
Normal working pressure	bar(e)	14	14	15	18	18	20	10
	psig	203	203	218	261	261	290	145
Dimensions (without towbar) (mm)	L(mm)	3820	3820	3820	3820	3820	4000	4720
	W(mm)	1980	1980	1980	1980	1980	2300	2160
	H(mm)	2680	2680	2680	2680	2680	2750	3200
Weight	kg	4400	4500	4400	4400	4500	5500	5500
Wheel qty		4	4	4	4	4	4	4
Size and No. of outlet valve		G 1**1 G 2 **1	G 1**1 G 2 **1	G 1**1 G 2 **1	G 1**1 G 2 **1	G 1**1 G 2 **1	G 1**1 G 2 **1	G 1" **1 G 3 **1
Diesel engine								
Manufacturer		Cummins	Cummins	Cummins	Cummins	Cummins	Cummins	Cummins
Model		QSL8.9-C325-30	QSL8.9-C325-30	QSL8.9-C325-30	QSL8.9-C325-30	QSL8.9-C325-30	QSL8.9-C360-30	QSZ13-C400-30
Rated power	kw	239	239	239	239	239	264	298
	hp	325	325	325	325	325	359	405
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	116.5*148*6	159*159*6
Engine speed (nominal)	RPM	2200	2200	2200	2200	2200	2100	1900
Engine speed (unloaded)	RPM	1350	1350	1350	1350	1350	1350	1500
Engine oil capacity	L	28.6	28.6	28.6	28.6	28.6	28.6	46
Coolant capacity	L	80	80	80	80	80	80	160
Storage battery current CCA		830	830	830	830	830	830	930
Fuel tank capacity	L	590	590	590	590	590	660	780
Compressor								
Compressed air vessel capacity	L	189	189	189	189	189	220	220
Lubricant capacity	L	90	90	90	90	90	120	120

Type		DACY-25.5/20	DACY-21/25	DACY-20/25	DACY-25/25	DACY-34/25	DACY-45/10	DACY-33/35	DACY-39/25
Machine									
Free air delivery	m³/min	25.50	21.00	20.73	25.85	34.00	47.77	33.48	39.00
	cfm	900	742	732	913	1201	1687	1182	1377
Normal working pressure	bar(e)	20	25	25	25	25	10	35	25
	psig	290	363	363	363	363	145	508	363
Dimensions (without towbar) (mm)	L(mm)	4250	4250	4250	4250	4250	4720	4510	4510
	W(mm)	2220	2220	2220	2220	2220	2160	2160	2160
	H(mm)	3170	3170	3170	3170	3170	3200	3170	3170
Weight	kg	6500	6500	6500	6700	6900	6500	6900	6900
Wheel qty		4	4	4	4	4	4	4	4
Size and No. of outlet valve		G 2-1/2 **1	G 2-1/2 **1	G 2-1/2 **1	G 2-1/2 **1	G 2-1/2 **1	G 1**1 G 3 **1	G 2-1/2 **1	G 2-1/2 **1
Diesel engine									
Manufacturer		Cummins	Cummins	Cummins	Cummins	Cummins	Cummins	Cummins	Cummins
Model		QSZ13-C400-30	QSZ13-C400-30	QSZ13-C400-30	QSZ13-C500-30	KTA19-C600	QSZ13-C550-II	KTA19-P700	KTA19-P700
Rated power	kw	298	298	298	372	441	415	522	522
	hp	405	405	405	506	600	565	710	710
Type		Turbocharging, Charge air cooling							
Bore*Stroke*No. of cylinders	mm	130*163*6	130*163*6	130*163*6	130*163*6	159*159*6	130*163*6	159*159*6	159*159*6
Engine speed (nominal)	RPM	1900	1800	1800	1800	1800	1800	1800	1800
Engine speed (unloaded)	RPM	1500	1500	1500	1500	1400	1400	1200	1200
Engine oil capacity	L	46	46	46	46	46	46	46	46
Coolant capacity	L	160	160	160	160	160	160	200	200
Storage battery current CCA		930	930	930	930	930	930	930	930
Fuel tank capacity	L	780	780	780	780	780	780	780	780
Compressor									
Compressed air vessel capacity	L	220	220	220	220	220	247	247	247
Lubricant capacity	L	120	120	120	120	120	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.*