

ASYNCHRONOUS SCREW AIR COMPRESSOR



High efficiency, energy-saving and convenient maintenance:

Asynchronous screw air compressor, its main engine and motor are connected directly, central bracket, belt, belt sheave are not needed, the transmission ratio is 100%, the efficiency is increased 2-8% compared to the asynchronous motor with the same specification. The electric motor has no bearing or oil seal, thus the fault points of motor bearing is eliminated, cost is saved and the daily maintenance is reduced.

Simple structure, small volume and light weight:

The volume of elements of the main engine of synchronous screw air compressor is 1/2 smaller than that of general three-phase motor, while the weight is 1/3 lighter. The structure of the whole machine is simple, its volume is small, the design is reasonable, and the size of the appearance is obviously reduced, thus increasing the space utilization rate.

Technical parameters of asynchronous screw air compressor

Type		IMAMT 7.5A	IMAMT 10A	IMAMT 15A	IMAMT 20A	IMAMT 7.5A	IMAMT 15A	IMAMT 15A	IMAMT 20A
Motor power	KW	5.5	7.5	11	15	5.5	7.5	11	15
Air displacement/exhaust pressure	(m ³ /min) MPa	0.90.7	1.20.7	1.650.7	2.550.7	0.90.7	1.20.7	1.650.7	2.550.7
		0.80.8	1.10.8	1.530.8	2.250.8	0.80.8	1.10.8	1.530.8	2.250.8
		0.69/1.0	0.95/1.0	1.32/1.0	1.82/1.0	0.69/1.0	0.95/1.0	1.32/1.0	1.82/1.0
		0.6/1.25	0.8/1.25	1.1/1.25	1.55/1.25	0.6/1.25	0.8/1.25	1.1/1.25	1.55/1.25
Cooling mode		Air cooled	Air cooled	Air cooled	Air cooled	Air cooled	Air cooled	Air cooled	Air cooled
Drive mode		Directly connected	Directly connected	Directly connected	Directly connected	Directly connected	Directly connected	Directly connected	Directly connected
Starting mode		Y-Δ	Y-Δ	Y-Δ	Y-Δ	Soft start	Soft start	Soft start	Soft start
Length*Width*Height (mm)	L	1535	1535	1535	1535	1535	1535	1535	1535
	W	600	600	700	700	600	600	700	700
	H	1450	1450	1585	1585	1450	1450	1585	1585
Net weight	Kg	290	300	340	350	300	310	355	365
Noise	dB(A)	62±2	62±2	63±2	62±2	62±2	62±2	62±2	62±2
Diameter of outlet pipe		G3/4"	G3/4"	G3/4"	G3/4"	G3/4"	G3/4"	G3/4"	G3/4"
Tank volume (m ³)		0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3

		IMAM 7.5A	IMAM 10A	IMAM 15A	IMAM 20A	IMAM 25A	IMAM 30A	IMAM 40A	IMAM 50A	IMAM 60A	IMAM 75A	IMAM 100A	IMAM 150A	IMAM 175A
motor power	Kw	5.5	7.5	11	15	18.5	22	30	37	45	55	75	110	132
displacement/discharge pressure	(m ³ /min) MPa	0.90.7	1.20.7	1.650.7	2.550.7	3.220.7	3.60.7	5.20.7	6.50.7	7.360.7	10.80.7	13.50.7	21.60.7	25.20.7
		0.80.8	1.10.8	1.530.8	2.250.8	3.01/0.8	3.560.8	5.060.8	6.260.8	7.10.8	10.10.8	12.70.8	20.10.8	240.8
		0.69/1.0	0.95/1.0	1.32/1.0	1.82/1.0	2.52/1.0	3.07/1.0	4.53/1.0	5.8/1.0	6.47/1.0	8.5/1.0	11.3/1.0	17.5/1.0	21/1.0
		0.6/1.2	0.8/1.2	1.1/1.2	1.55/1.2	2.3/1.2	2.84/1.2	3.9/1.2	5.06/1.2	5.8/1.2	7.69/1.2	10/1.2	16/1.2	18.3/1.2
cooling method		air cooling	air cooling	air cooling	air cooling	air cooling	air cooling	air cooling	air cooling	air cooling	air cooling	air cooling	air cooling	air cooling
drive mode		direct drive	direct drive	direct drive	direct drive	direct drive	direct drive	direct drive	direct drive	direct drive	direct drive	direct drive	direct drive	direct drive
starting mode		direct	direct	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ
length*Height*Width (mm)	L	840	840	910	910	1000	1000	1100	1150	1150	1600	1600	2000	2000
	W	600	600	700	700	750	750	900	950	950	1200	1200	1550	1550
	H	880	880	1000	1000	1090	1090	1360	1350	1350	1590	1580	2000	2000
net weight	Kg	185	205	245	255	370	390	580	630	630	1250	1450	2200	2300
noise	dB(A)	60 ± 2	60 ± 2	60 ± 2	60 ± 2	62 ± 2	62 ± 2	62 ± 2	62 ± 2	62 ± 2	65 ± 2	65 ± 2	68 ± 2	68 ± 2
air outlet pipe diameter		G3/4"	G3/4"	G3/4"	G3/4"	G1 1/4"	G1 1/4"	G1 1/4"	G1 1/2"	G1 1/2"	G2"	G2"	DN65	DN65