

4. Energy Saving Economic Range - ASC-ARPM Screw Compressor

ASC010-ARPM (7.5kw) – ASC220-ARPM (160kw)

Adopting frequency conversion speed control to make full use of energy-saving effects to create a new generation of energy-saving compressors that saves electricity and energy.

The conventional speed regulation method of the air compressor is to adjust the intake volume by adjusting the inlet valve the input power is large and a large amount of energy is consumed in the current-carrying process of the valve. When using the variable frequency speed, if the flow requirements are reduced, the requirements can be met by reducing the speed of the host.

Super-level energy efficiency motor

The permanent magnet frequency conversion synchronous motor used in ASC-ARPM compressors passes national level efficiency laboratory test, have exceeded the national first-class energy efficiency standards.

High degree of protection design

Safety and reliability have been guaranteed. The motor adopts IP54 protection grade design, which can prevent failure caused by dirty environments.

Comparison of different speed efficiency of Permanent Magnet Synchronous and Asynchronous induction motors

Due to different working principles, permanent magnet variable frequency synchronous motors maintain more than 95% efficiency and higher power factors at different speeds. The efficiency of permanent magnet frequency conversion synchronous motors at low speed is 20% higher than traditional asynchronous motors.

Features at a Glance

- High efficiency Air End
- Designed for high ambient temperatures
- Mineral Coolant
- German Technology
- Leak proof rigid steel oil piping
- IP54 Permanent Magnet synchronous motor
- Generously dimensioned after cooler
- ASME Certified Separator Vessel
- One (1) year mechanical warranty on machine
- Two (2) years warranty on the Air End



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Type	Power	Work Pressure	Rated air displacement		Noise dB (A) ± 2	Air outlet pipe diameter	Drive mode	Oil volume/ Mineral Oil	Main motor		Machine size:L xWxH mm	Machine weight:kg
	KW/HP	BAR	M ³ /min	CFM					Rated Motor :AMPS	Protection Level		
ASC010-ARPM	7.5/10	8	1.1	38	≤ 62 ± 2	3/4"	Direct Drive	5	14	IP54	950 650 900	260
		10	0.9	31								
ASC020-ARPM	15/20	8	2.3	52	≤ 64 ± 2	3/4"	Direct Drive	10	27.2	IP54	1160 700 1100	350
		10	2	70								
ASC030-ARPM	22/30	8	3.8	134	≤ 65 ± 2	1"	Direct Drive	15	40.2	IP54	1200 900 1150	530
		10	3.6	127								
ASC040-ARPM	30/40	8	5.2	183	≤ 65 ± 2	1 1/2"	Direct Drive	15	55	IP54	1400 900 1225	630
		10	4.8	169								
ASC050-ARPM	37/50	8	6.5	229	≤ 66 ± 2	1 1/2"	Direct Drive	20	67.3	IP54	1560 1000 1365	750
		10	5.7	201								
ASC060-ARPM	45/60	8	7.5	264	≤ 66 ± 2	1 1/2"	Direct Drive	20	80.7	IP54	1560 1000 1365	830
		10	6.8	240								
ASC075-ARPM	55/75	8	10.5	370	≤ 68 ± 2	2"	Direct Drive	45	98	IP54	1800 1070 1490	1120
		10	8.9	314								
ASC100-ARPM	75/100	8	13.5	476	≤ 72 ± 2	2"	Direct Drive	45	132.4	IP54	1800 1070 1490	1290
		10	11.5	406								
ASC120-ARPM	90/120	8	16.5	582	≤ 72 ± 2	2"	Direct Drive	75	159	IP54	2100 1400 1780	1900
		10	13.7	483								
ASC150-ARPM	110/150	8	20.5	723	≤ 75 ± 2	2	Direct Drive	75	193	IP54	2500 1450 1800	2300
		10	17.9	632								
ASC175-ARPM	132/175	8	24	847	≤ 75 ± 2	2 1/2'	Direct Drive	85	231.6	IP54	2700 1550 1800	3500
		10	21.3	752								
ASC220-ARPM	160/220	8	28.5	1006	≤ 75 ± 2	2 1/2"	Direct Drive	85	274	IP54	2700 1550 1800	3800
		10	25.5	900								



Please note: Slow curve breaker sizes must be determined by a qualified electrician. Rule of thumb is 2 - 2.2 times the kW rating for the unit.