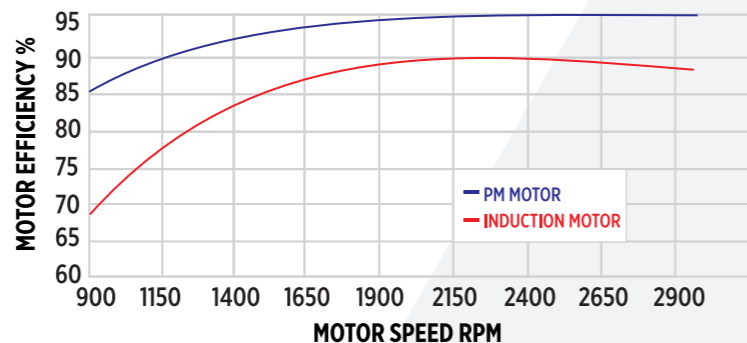
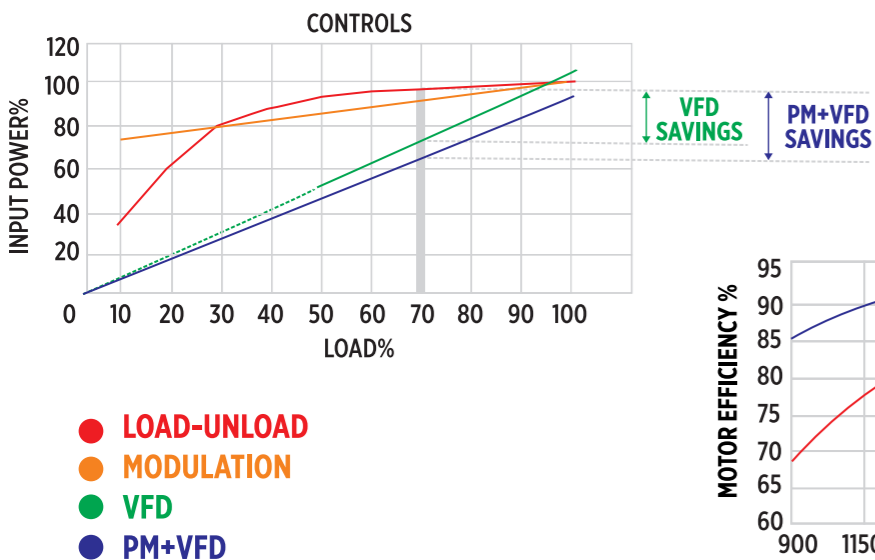




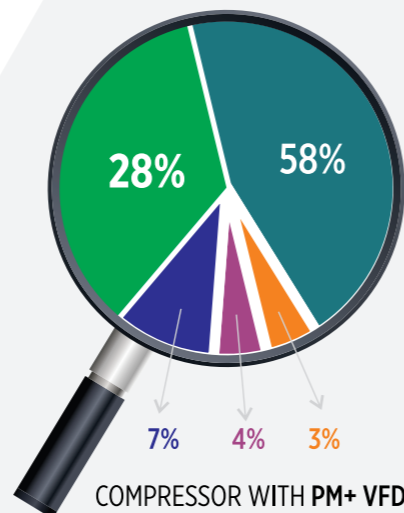
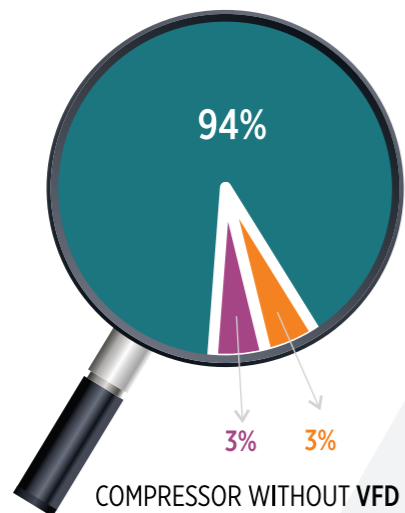
**PM+VFD SAVING CHART**



EXAMPLE: FOR A DEMAND OF 70% OF FULL LOAD, THE SAVINGS FROM PM+VFD COMPARED TO FIXED SPEED COMPRESSOR WILL BE ABOUT 35% OF FULL LOAD POWER

**10 YEARS LIFE CYCLE COST**

- ELECTRICITY
- VFD SAVING
- PM MOTOR SAVING
- EQUIPMENT
- MAINTENANCE



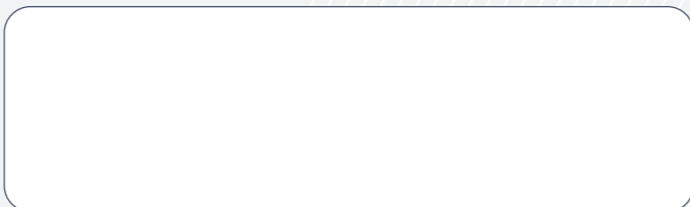
**OTHER PRODUCTS**

- SCREW AIR COMPRESSOR PM+VFD
- TWO STAGE SCREW AIR COMPRESSOR
- RECIPROCATING AIR COMPRESSOR
- 100% OIL FREE AIR COMPRESSOR
- VACUUM PUMPS
- REFRIGERANT TYPE AIR DRYER
- AIR RECEIVER TANK
- LINE FILTER
- COMPRESSED AIR LINE



(AN ISO 13485:2016 CERTIFIED COMPANY)  
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 enquiry@empirecompressor.com  
 www.empirecompressor.com

DEALER & DISTRIBUTOR



**TWO STAGE SCREW AIR COMPRESSOR**



**HEART OF YOUR EMPIRE**



(AN ISO 13485:2016 CERTIFIED COMPANY)



## TWO STAGE **SCREW** AIR COMPRESSOR



### TECHNICAL SPECIFICATION OF TWO STAGE SCREW AIR COMPRESSOR

MODEL		ECTS-30D	ECTS-40D	ECTS-50D	ECTS-60D	ECTS-75D	ECTS-100D
POWER	(KW)	22	30	37	45	55	75
FREE AIR DELIVERY	CFM	148	235	268	346	452	596
		144	225	250	342	441	582
		123	190	208	275	377	459
		113	170	190	229	303	388
	(M <sup>3</sup> /MIM) MPA	4.2/0.7 4.1/0.8 3.5/1.0 3.2/1.3	6.6/0.7 6.3/0.8 5.4/1.0 4.8/1.3	7.6/0.7 7.1/0.8 5.9/1.0 5.4/1.3	9.8/0.7 9.7/0.8 7.8/1.0 6.5/1.3	12.8/0.7 12.5/0.8 10.7/1.0 8.6/1.3	16.9/0.7 16.5/0.8 13.0/1.0 11.0/1.3
NOISE	(DB)	70±2	72±2	72±2	72±2	74±2	74±2
DRIVEN METHOD		DIRECT DRIVEN	DIRECT DRIVEN	DIRECT DRIVEN	DIRECT DRIVEN	DIRECT DRIVEN	DIRECT DRIVEN
START METHOD		PM VFD	PM VFD	PM VFD	PM VFD	PM VFD	PM VFD
MACHINE DIMENSION	(L*W*H) MM	1500*1020*1310	1900*1260*1600	1900*1260*1600	1900*1260*1600	2450*1660*1700	2450*1660*1700
	WEIGHT (KG)	730	1030	1080	1680	1780	1880
AIR OUTLET	INCH / MM	DN40	DN40	DN40	DN65	DN65	DN65

D: DIRECT DRIVEN COOLING TYPE : AIR COOING

### FEATURES

Two-stage compression reduces the compression ratio of each stage, reduces internal leakage, improves volumetric efficiency, reduces bearing load, and increases the life of the air end.

Two-stage PM VSD replaces single-stage compression, and the displacement is increased by nearly 15%, which can achieve an additional 15% energy saving effect.

The rotor adopts the latest patented rotor UV profile, which has been refined by more than 20 procedures to ensure the accuracy, reliability, and effectiveness of the rotor profile,

Two-stage PM VSD air compressor mainframe is more efficient and more energy-saving. It can save up to 40% energy compared with ordinary industrial frequency machines.

### MORE ENERGY EFFICIENT

Two-stage PM VSD rotor is directly driven through the gears, and each stage of the rotor can obtain the best speed. The Air end is always running at the best energy-saving speed. The frequency conversion soft-start reduces the energy consumption of the air compressor during startup. By controlling the pressure between stages, the compressor works at the best efficiency point under different working conditions.

Low noise and low vibration. No motor and bearing noise, no gear noise, no coupling noise.

ECTS-125D	ECTS-150D	ECTS-175D	ECTS-200D	ECTS-250D
90	110	132	160	185
734 699 618 505	900 868 724 621	1045 988 830 699	1186 1151 1006 804	1398 1342 1147 974
20.8/0.7 19.8/0.8 17.5/1.0 14.3/1.3	25.5/0.7 24.6/0.8 20.5/1.0 17.6/1.3	29.6/0.7 28.0/0.8 23.5/1.0 19.8/1.3	33.6/0.7 32.6/0.8 28.5/1.0 23.8/1.3	39.6/0.7 38.0/0.8 32.5/1.0 27.6/1.3
76±2	76±2	76±2	78±2	78±2
DIRECT DRIVEN	DIRECT DRIVEN	DIRECT DRIVEN	DIRECT DRIVEN	DIRECT DRIVEN
PM VFD	PM VFD	PM VFD	PM VFD	PM VFD
2450*1660*1700	3150*1980*2150	3150*1980*2150	3800*1980*2150	3800*1980*2150
2800	3160	3280	3390	3590
DN65	DN65	DN80	DN80	DN80

