



HEART OF YOUR EMPIRE



AN ISO 9001:2015 & ISO 13485:2016 CERTIFIED COMPANY

[www.empirecompressor.com](http://www.empirecompressor.com)

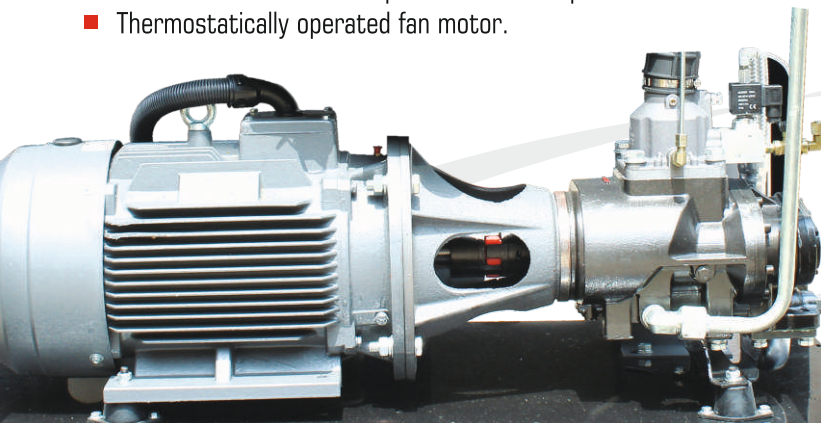
# TECHNICAL SPECIFICATION OF SCREW AIR COMPRESSOR

MODEL	Power (KW)	RPM min	Free Air Delivery				Noise (db)	Machine Dimension (L*W*H)mm	Weight (KG)	Air outlet Inch/mm
			CFM		(m <sup>3</sup> /min)/Mpa					
ECI-10D	7.50	2900	45.92	40.00	1.30/0.7	1.13/0.8	62±2	900*650*920	215	G1 3/4"
			33.55	30.37	0.95/1.0	0.86/1.3				
ECI-15D	11	2900	65.34	58.00	1.85/0.7	1.64/0.8	62±2	1080*700*1090	335	G1 1"
			49.44	46.26	1.40/1.0	1.31/1.3				
ECI-20D	15	2900	91.83	90.00	2.60/0.7	2.54/0.8	62±2	1080*700*1090	335	G1 1"
			77.70	56.86	2.20/1.0	1.61/1.3				
ECI-25D	18.50	2900	113.02	109.49	3.20/0.7	3.10/0.8	63±2	1300*855*1150	465	G1 1"
			92.53	74.17	2.62/1.0	2.10/1.3				
ECI-30D	22	2900	134.21	130.00	3.80/0.7	3.68/0.8	63±2	1320*880*1070	468	G1 1"
			113.02	98.90	3.20/1.0	2.80/1.3				
ECI-40D	30	2900	183.66	178.00	5.20/0.7	5.03/0.8	63±2	1500*1000*1330	620	G1 1.5"
			158.94	134.21	4.50/1.0	3.80/1.3				
ECI-50D	37	2900	240.17	230.00	6.80/0.7	6.51/0.8	63±2	1500*1000*1330	630	G1 1.5"
			197.79	173.06	5.60/1.0	4.90/1.3				
ECI-60D	45	2900	282.56	276.00	8.00/0.7	7.81/0.8	68±2	1500*1000*1380	825	G1 1.5"
			247.24	204.85	7.00/1.0	5.80/1.3				
ECI-75D	55	2900	381.45	356.73	10.80/0.7	10.10/0.8	68±2	2045*1250*1705	1250	G2"
			317.88	300.22	9.00/1.0	8.50/1.3				
ECI-100D	75	2900	480.35	469.75	13.60/0.7	13.30/0.8	68±2	2045*1250*1705	1450	G2"
			409.71	353.20	11.60/1.0	10.00/1.3				
ECI-120D	90	2900	582.78	547.46	16.50/0.7	15.50/0.8	68±2	2340*1480*1820	1820	DN50
			515.67	434.43	14.60/1.0	12.30/1.3				
ECI-150D	110	2900	759.38	724.06	21.50/0.7	20.50/0.8	68±2	2568*1620*1985	1970	DN65
			618.10	572.18	17.50/1.0	16.20/1.3				
ECI-175D	132	2900	925.38	883.00	26.20/0.7	25.00/0.8	72±2	2568*1620*1985	2400	DN65
			777.04	724.06	22.00/1.0	20.50/1.3				
ECI-200D	160	2900	1013.68	974.83	28.70/0.7	27.60/0.8	72±2	2720*1750*2125	2600	DN65
			868.87	759.38	24.60/1.0	21.50/1.3				

**D** : Direct Driven | **Cooling Type** : Air Cooling

## FEATURES

- 2 Years of warranty for Screw Air End.
- Oil cooler is designed at 45° C ambient Temp. which is suitable for Indian Industrial circumstances.
- All Parts are designed with universal design code / standard.
- Consumable Cost is low up to 35% as compare to others.
- Thermostatically operated fan motor.



### One-to-One Gear Less Direct Drive Screw Air Compressor

At low speed 2900 RPM Large Air end are more efficient than high speed Air ends, delivering more compressed air for same drive power, Lower speed means increased efficiency and durability with reduced compressed air cost, Less wear & less maintenance cost.

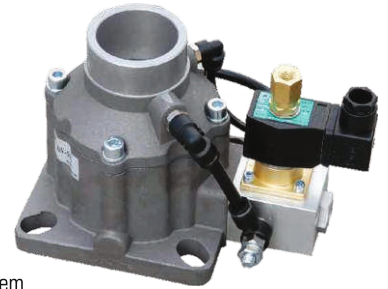
### FILTER SYSTEM

Germany brand oil filter  
 Germany brand air filter  
 Germany brand air oil separator  
 Equipped with differential pressure transducer



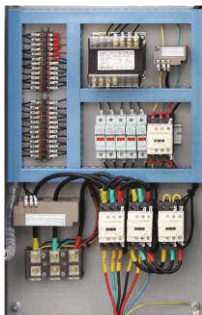
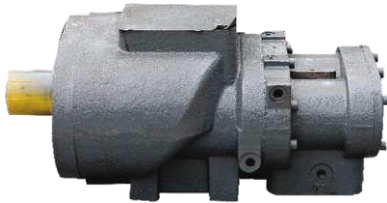
### INTAKE VALVE

Advance air flow control system  
 Air delivery adjustment range 0-100%  
 Balance air supply and air consumption  
 Energy saving



### AIR END

Large rotors and large bearings to ensure low speed  
 Linear screw rotor  
 Third generation 5:6 male and female helical rotors  
 SKF bearings  
 High performance, low noise, low vibration  
 Outstanding durability and long serving life



### ELECTRICAL COMPONENTS

France original Schneider electrical components  
 Default phase protection  
 Over temperature protection  
 Idle load protection  
 Automatic unloading  
 Automatically adjust air delivery



### INTELLIGENT CONTROLLER

Automatic reminding for maintenance & replacement  
 Intelligent human-computer interface  
 Automatic trouble diagnosis  
 Automatic alarm  
 Communicate with all VFD (Touch+Keypad)



### MOTOR

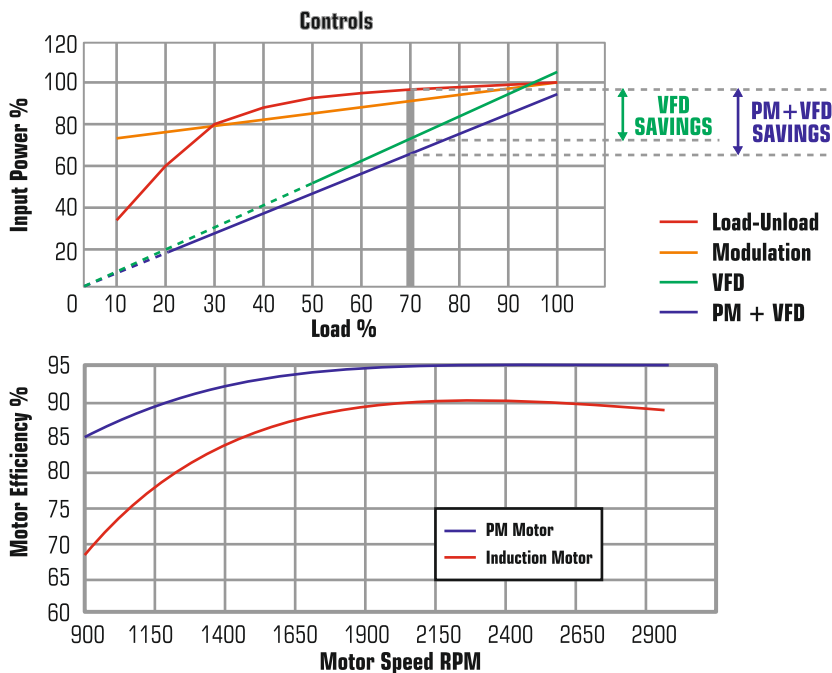
High efficiency IE3 / IE4  
 Energy saving  
 Insulation grade F  
 Protection grade IP55  
 Reliable & long lasting durability

## OTHER PRODUCTS

- Reciprocating Air Compressors
- Air Dryers
- High Pressure Air Compressors
- 100% Oil Free Compressors
- Vacuum Pumps
- Air Receivers
- Line Filters

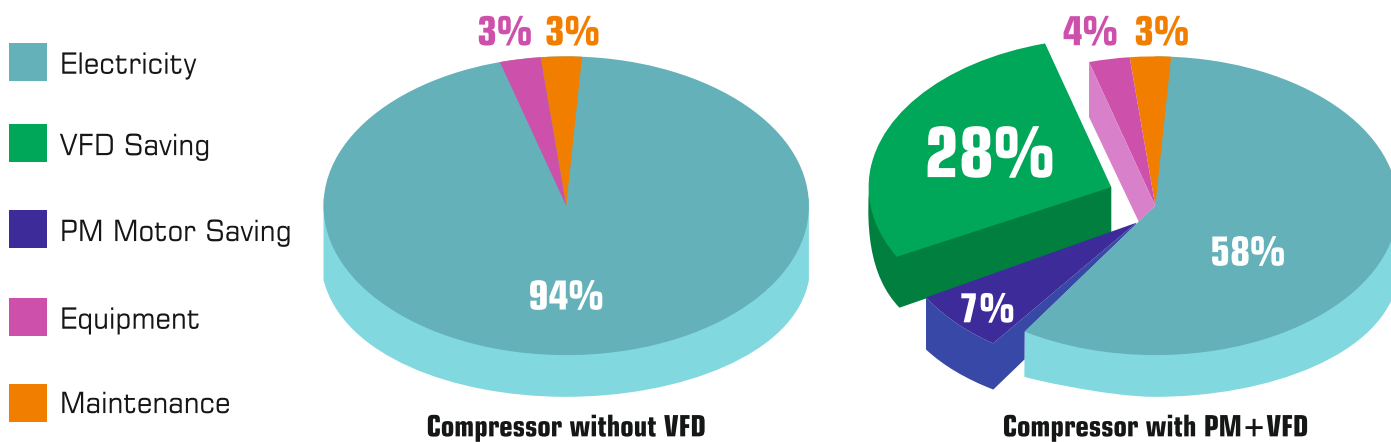
# TECHNICAL SPECIFICATION OF PM+VFD SCREW COMPRESSOR

MODEL	CAPACITY (CFM)	Working Pressure (Kg/cm <sup>2</sup> )
ECPM-10D	42.00	8.00
ECPM-20D	90.00	8.00
ECPM-30D	130.00	8.00
ECPM-40D	178.00	8.00
ECPM-50D	230.00	8.00
ECPM-60D	276.00	8.00
ECPM-75D	356.73	8.00
ECPM-100D	469.75	8.00
ECPM-120D	547.46	8.00
ECPM-150D	724.06	8.00
ECPM-175D	883.00	8.00
ECPM-200D	974.83	8.00



**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 YEAR LIFE CYCLE COST



## ADVANTAGES

- MECHANICAL**
- Minimum Maintenance
  - Soft Start
  - Smooth Control
- ELECTRICAL**
- Low Starting Current
  - High Efficiency
  - Improved Power Factor
  - Reduced Maximum Demand



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