

# Gardner Denver

## Screw Compressors ESM 2-5 Series

### Maximum flexibility

Installation of the ESM 2–5 range is quick and easy due to the flexible and compact design. Based on the individual customer requirements, the compressors can be combined with different options to provide everything from a stand alone compressor to the complete compressor station.

Options include:

- Compressor base mounted
- Compressor mounted on a tank
- Complete compressor station includes compressor and refrigerant dryer, both mounted on a tank

### Easy to use

Thanks to user-friendly design of the ESM 2–5 range, the compressors are ready for plug & play operation. Maintenance is made easy by the removable side doors providing you with quick and easy access to all service points. The simple design minimizes the number of moving parts and as a result reliability is increased and maintenance costs reduced.

The compressors are belt driven, designed for the highest performance – providing hours of reliable operation.

Thanks to the low noise level of the ESM 2–5 range, the compressor can be installed at the point of use – requiring no additional cost for a separate compressor room or expensive pipework.



## User friendly control system

The Start/Stop operation ensures no idling time and no idling energy costs. The ESM 2–5 as standard are equipped with Start/Stop control and direct online starting. Hour meter and pressure gage are also included.

The ESM 4–5 compressors as a premium option are equipped with Star/Delta starting and the electronic Air Basic 2 controller, which provides the user with data on total hours of operation, operating temperature and additional information such as:

- Air filter replacement
- Oil filter replacement
- Separator filter replacement
- Oil change
- Regular maintenance advice
- Pressure setting can be easily adjusted via the controller



With star delta the compressors can be set to unloaded running with timed stop adjustable between 0 and 3 minutes.

## Technical Data

Type	Maximum pressure <sup>1)</sup>		Volume flow <sup>1)</sup>		Motor power		Net weight <sup>2)</sup>	Net level <sup>3)</sup>	Dimensions in mm	
	bar	psig	m <sup>3</sup> /min	cfm	kW	hp			Standard Compressor	Complete Compressor Station <sup>2)</sup>
									(LxWxH) mm	(LxWxH) mm
ESM 2	10	145	0.24	9	2.2	3	100	61	620 x 600 x 840	
ESM 2-270	10	145	0.24	9	2.2	3	205	61		1540 x 600 x 1400 (270 l receiver)
ESM 3	10	145	0.36	13	3	4	100	61	620 x 600 x 840	
ESM 3-270	10	145	0.36	13	3	4	205	61		1540 x 600 x 1400 (270 l receiver)
ESM 4	10	145	0.53	19	4	5.5	105	62	620 x 600 x 840	
ESM 4-270	10	145	0.53	19	4	5.5	210	62		1540 x 600 x 1400 (270 l receiver)
ESM 4-500	10	145	0.53	19	4	5.5	255	62		1950 x 680 x 1520 (500 l receiver)
ESM 5	10	145	0.67	24	5.5	7	105	66	620 x 600 x 840	
ESM 5-270	10	145	0.67	24	5.5	7	210	66		1540 x 600 x 1400 (270 l receiver)
ESM 5-500	10	145	0.67	24	5.5	7	255	66		1950 x 680 x 1520 (500 l receiver)

<sup>1)</sup> Capacity and power measurements according to ISO 1217 Edition 4 Annex C. Measured at maximum pressure without any options. <sup>2)</sup> Total weight of complete compressor station on 270/500 l receiver: ESM 2–ESM 3 = 252/- kg, ESM 4 = 253/290 kg, ESM 5 = 257/295 kg. <sup>3)</sup> Noise values determined according to ISO 2151; Tolerance ± 3dB(A)

## Standard Equipment

- DOL starting
- Overload relay motor protection
- Start/Stop control with pressure switch
- On/Off switch
- Electric motors, IP55, F-class insulation
- Oil level monitoring, sight glass
- Belt transmission
- Safety devices for:
  - Motor over temperature
  - Compressor over temperature, trip at 110°C
  - Compressor over pressure (safety valve)
- Running condition indicators:
  - Pressure
  - Hour-meter
- Epoxy powder coated enclosure
- Oil thermostat
- Factory filled with AEON lubricant

## Optional Equipment

- ESM 4 – ESM 5 available with Start/Delta starting and AirBasic2 controller. Pressure sensor for pressure control
- ESM 4 – ESM 5 with a larger 500 ltr receiver
- Prefilter and microfilter combination
- Timed or float drains for receiver mounted units
- Refrigerant dryer ESM 2 –5 Guaranteed best performance combined with low pressure losses
- Pressure dew point +3°C (ISO 7183, A)
- Environmentally friendly refrigerant R134a
- Digital controller displaying:
  - Dew point indication
  - Additional energy saving mode
  - Maintenance display
  - Fault memory

# Gardner Denver

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For additional information please contact Gardner Denver or your local representative.

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