# ANEST ANATA

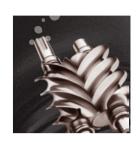


## **ENERGY MK2**

KW 7.5-90 ENERGY

kW 110-250 bar 7,5-10-13

ROTARY SCREW COMPRESSORS







### ENERGY ENERGY MK2 (7.5-90 kW) -ENERGY (110-250 kW)

ENERGY MK2 and ENERGY variable speed screw compressors allow for power savings on average between 30%-40% over conventional controlled compressors. ENERGY Series allows for an air supply with minimal peaks, in doing so supplying only the air required for production minimising service costs and operating costs. Designed to operate in the harshest working conditions 24 hours per day. The controller is able to control up to 4 units from one common control panel. All ENERGY Series is equipped as standard with power filters, harmonising the incoming voltage and protecting the inverter and compressor components from surges.



#### **DNAIR2 CONTROLLER**

The innovative DNAir2 controller is utilised on all ENERGY models. Specially designed for simple and flexible programming, it adjusts and controls the operation of the compressor, guaranteeing its efficiency and safety. The user-friendly interface consists of a large backlit LCD display, with simple and clearly understood icons.

All commands and functions are accessed easily using multilingual drop-down menus.

It is possible for up to 4 compressors to be connected simultaneously. The controller software provides the ability to balance each machine's operating hours and at the same time the pre-set pressure values are rotated along with the machine sequence.

#### **VARIABLE SPEED DRIVE**

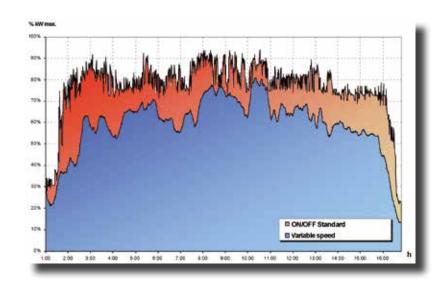
The latest generation inverter drive, allows for a controlled use of energy minimising  $\rm CO_2$  output and lowering energy costs. The inverter and controller ensure for precise control of pressures and volume of the compressor by monitoring production requirements and varying the compressor output and speed without the use of an encoder.

#### **EFFICIENCY CLASS IE3 MOTOR**

- ° Variable speed driving motor IP 55, Class F
- ° High efficiency motor.
- ° Low service factor on the main drive motor

#### **ENERGY CONSUMPTION COMPARISON**

Input power fluctuation during working time





#### **TRANSMISSION**

Original design offering the highest efficiency with ultimate reliability in both the direct and gear adopted versions.

#### **HIGH EFFICIENCY DRIVE SYSTEM**

The air end is directly driven by the electric motor by means of a flexible coupling with an efficiency up to 99,9%.

#### **AIR COOLING**

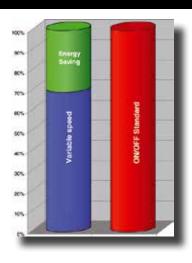
Oversized combined air/oil cooler
Low discharge temperatures
Thermostatically controlled cooling fan
Low outlet temperatures
Low compression temperatures
Extended coolant operating life



#### **VARIABLE SPEED DRIVE**

The initial capital outlay of any air compressor represents on average a small percentage of the total cost of operating the compressor over its operating life. The absorbed power of any compressor represents the highest cost of the unit over its operating life.

Compressed air, if incorrectly used, is one of the most expensive forms of services any production facility will operate. The installation of an Energy Series variable speed compressor can, on average, reduce running costs by between 30% - 40% respect a standard on/off screw compressor.



#### ADVANTAGES OF OPERATING A VARIABLE SPEED COMPRESSOR

- Regulation of the speed of the motor to match constantly the plant air demand
- Provides a constant air pressure selectable to any value between 6 and 13 Bar, depending on the chosen compressor model
- Soft start reduces current peaks and allows for additional energy savings
- Air output constantly varying between 30% and 100% of the compressor total capacity



	Max Pr	essure	F.A.D		Power	Noise level	Weight	Dimensions
Model	bar	Psig	[m3/min] MIN - MAX	[CFM] MIN - MAX	[kW-Hp] nom	dB(A)	kg	L x W x H (mm)
ENERGY MK2 7.5 - 7.5	7.5	109	0.6 - 1.3	21 - 46	7.5 - 10	63	194	940 x 770 x 1020
ENERGY MK2 7.5 - 10	10	145	0.5 - 1.1	18 - 39	7.5 - 10	63	15-	940 X 770 X 1020
ENERGY MK2 16 - 7.5	7.5	109	0.95 - 2.5	34 - 88	15 - 20	68	595	1200 x 810 x 1180
ENERGY MK2 16 - 10	10	145	0.84 - 2.1	30 - 74	15 - 20			
ENERGY MK2 18.5 - 7.5	7.5	109	1.07 - 3.1	38 - 109	18.5 - 25	62	696	1500 x 1000 x 1600
ENERGY MK2 18.5 - 10	10	145	0.93 - 2.6	33 - 92	10.5 - 25			
ENERGY MK2 22 - 7.5	7.5	109	1.17 - 3.6	41 - 127		64	731	1500 x 1000 x 1600
ENERGY MK2 22 - 10	10	145	1.17 - 3.01	41 - 106	22 - 30	62		
ENERGY MK2 22 - 13	13	189	0.96 - 2.56	34 - 90		62		
ENERGY MK2 30 - 7.5	7.5	109	1.98 - 4.85	70 - 171	20 40	68	1100	1800 x 1160 x 1780
ENERGY MK2 30 - 10	10	145	1.6 - 4.3	57 - 152	30 - 40			
<b>ENERGY MK2 37 - 7.5</b>	7.5	109	2.68 - 6.6	95 - 233	37 - 50	70	1190 1130 1130	1800 x 1160 x 1780
ENERGY MK2 37 - 10	10	145	1.71 - 5.4	61 - 191		69		
ENERGY MK2 37 - 13	13	189	1.7 - 4.52	60 - 160		67		
ENERGY MK2 45 - 7.5	7.5	109	3.0 - 8.2	106 - 290	45 - 60	72	1326	1920 x 1420 x 1880
ENERGY MK2 45 - 10	10	145	2.4 - 6.7	85 - 237				
ENERGY MK2 55 - 7.5	7.5	109	3.6 - 10.1	127 - 357	55 - 75	72	1383	1920 x 1420 x 1880
ENERGY MK2 55 - 10	10	145	3.0 - 8.3	106 - 293				
ENERGY MK2 55 - 13	13	189	2.3 - 6.5	81 - 230				
ENERGY MK2 75 - 7.5	7.5	109	4.5 - 12.6	159 - 445	75 - 100	69	3000	2560 x 1660 x 2230
ENERGY MK2 75 - 10	10	145	3.8 - 10.5	134 - 371				
ENERGY MK2 75 - 13	13	189	3.48 - 8.7	123 - 307				
ENERGY MK2 76 - 7.5	7.5	109	4.9 - 13.5	173 - 477	75 - 100	67	3035	2560 x 1660 x 2230
ENERGY MK2 76 - 10	10	145	4.2 - 11.7	148 - 413		66		
ENERGY MK2 76 - 13	13	189	3.5 - 9.69	124 - 342		67		
ENERGY MK2 90 - 7.5	7.5	109	5.7 - 15.9	201 - 562	90 - 125	68	3110	2560 x 1660 x 2230
ENERGY MK2 90 - 10	10	145	4.8 - 13.4	170 - 473		70		
ENERGY MK2 90 - 13	13	189	3.7 - 10.4	131 - 367		66		

#### ENERGY Series: 110-250 kW

	Max Pr	essure	F.A	D	Power	Noise level	Weight	Dimensions		
Model	bar	Psig	[m3/min] MIN - MAX	[CFM] MIN - MAX	[kW-Hp] nom	dB(A)	kg	L x W x H (mm)		
ENERGY 110 - 7.5	7.5	109	3.9 - 18.5	138 - 653	440 450	7.5	2960	0000 4550 0400		
ENERGY 110 - 10	10	145	4.5 - 15.9	159 - 561	110 - 150	75	2860	2900 x 1550 x 2160		
ENERGY 110 - 13	13	189	4.4 - 13.5	155 - 477						
ENERGY 132 - 7.5	7.5	109	3.5 - 22.2	125 - 784	422 490	7.5	2960	0000 4550 0400		
ENERGY 132 - 10	10	145	5.4 - 19	191 - 671	132 - 180	75	2860	2900 x 1550 x 2160		
ENERGY 132 - 13	13	189	6.2 - 16.1	220 - 569						
ENERGY 150 - 7.5	7.5	109	5 - 25.6	176 - 904						
ENERGY 150 - 10	10	145	5.1 - 22.9	181 - 809	160 - 220	74	3350	2900 x 1550 x 2160		
ENERGY 150 - 13	13	189	6 - 19.4	212 - 685						
ENERGY 200 - 7.5	7.5	109	9.4 - 33.5	334 - 1183						
ENERGY 200 - 10	10	145	9.9 - 28.5	350 - 1006	200 - 270	76	4670	3300 x 2100 x 2160		
ENERGY 200 - 13	13	189	9.2 - 24.6	325 - 869						
ENERGY 250 - 7.5	7.5	109	9.9 - 42.1	349 - 1487						
ENERGY 250 - 10	10	145	9.6 - 35.7	339 - 1261	250 - 340	76	4830	3300 x 2100 x 2160		
ENERGY 250 - 13	13	189	9.7 - 30.6	342 - 1081						

Reference conditions: air intake temperature 20°C (68°F) - atmospheric pressure 1 bar (14.5 psig). The air flow rates have been measured at the following working pressures: 7 bar for mod. 7.5 bar - 9.5 bar for mod. 10 bar - 12.5 bar for mod. 13 bar The data and performances were measured in accordance with ISO1217 standards. The sound level was measured in accordance with ISO3744 standards.

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