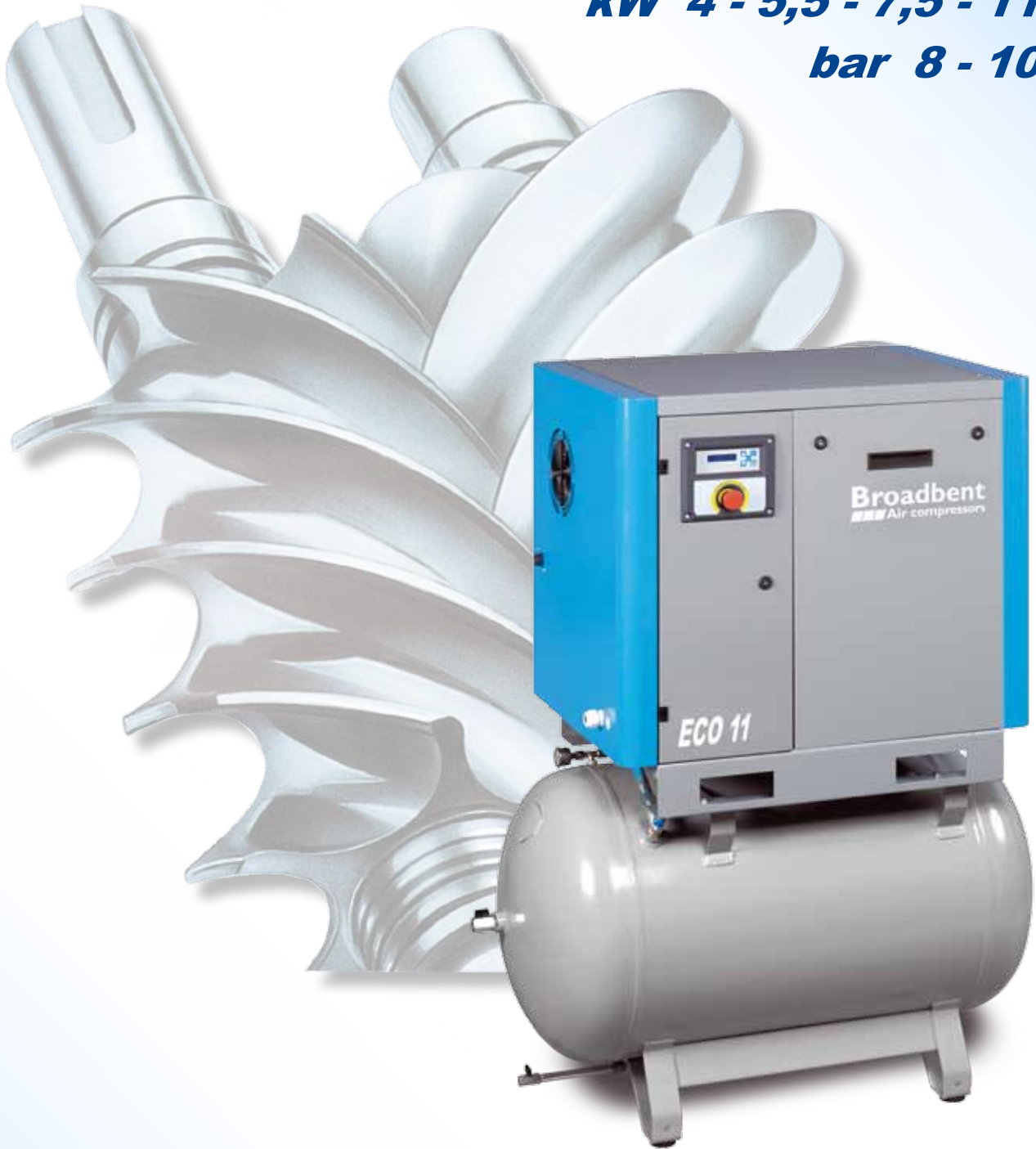


ECO

kW 4 - 5,5 - 7,5 - 11 - 15

bar 8 - 10 - 13



Broadbent

 **Air compressors**

ROTARY SCREW
COMPRESSORS



ECO series - Belt driven rotary screw compressors

Compact, heavy duty, quiet and highly reliable belt driven rotary screw compressors series, to satisfy all the requirements.

The ECO series comprises a comprehensive range of premium quality rotary screw air compressors from 4 kW to 15 kW. Each model is constructed to the highest standard using the best quality components in order to ensure a long life and total reliability.

The design of the ECO series benefits from years of experience in the production of innovative high quality air compressors where attention to detail and quality are at the highest level.



OUR OWN INTAKE REGULATOR

Normally open electro-pneumatic system: adjusts the compressor operation to guarantee minimum pressure when idle running and maximum saving upon start-up.

All this translates into an optimal energy cost/air delivery ratio.



SEPARATED COOLING SYSTEM

The centrifugal fan is activated automatically by the thermostatic control through the controller. This allows the machine to quickly reach and precisely maintain the ideal operating temperature.



THERMOSTATIC VALVE

The thermostatic valve regulates the oil temperature, preventing the formation of condensate inside the oil-separator vessel.



BELT-DRIVEN TRANSMISSION

The POLY-V belt-drive ensures significantly lower power losses and three times the service life compared to standard range "V" type belts fitted to other compressors on the market. Belt tensioning is carried out through a slider system.

EASE OF ACCESS TO ALL COMPONENTS

All main components can be readily accessed from the large front access door. This allows convenient inspection with fast and simple maintenance.

COMPACT, SPACE SAVING DESIGN

The compact design is ideal for installation when space is restricted or in situations when the compressor needs to be installed near the production activity.



PS 14 AND PS 26 AIR-ENDS

High performance and extremely reliable air-ends.

LOW NOISE LEVEL

The centrifugal fan design along with the careful arrangement of all other components within the machine added to extensive sound insulation results in the ECO, offering very low operating noise levels.



ECO series - High performance

The advanced controllers fitted to the ECO range have been specifically developed to guarantee optimum monitoring and regulation of the compressor's operation, allowing flexibility and full programming of the complete compressed air station for maximum efficiency and safety.



ELECTRONIC CONTROLLER (installed on models from 11 to 15 kW)

Controller with multi-function and multi-language backlight LCD graphic display, the menu is drop down type. In the main screen are displayed:

- Working pressure (offload/load);
- Oil temperature;
- Compressor status (stand-by, offload, load);
- Fan status (off/on);
- Date and time;
- Hours remaining before maintenance;

OPTIONAL EXPANSION MODULE*

GSM/GPRS/Ethernet/WiFi module (for on-line compressor status, remote assistance, connection with PC, Smartphone and Tablet, connection between neighbour compressors).

**on request*

MASTER/SLAVE FUNCTION

It is possible to connect up to 4 compressors for managing distribution of the workload in such a way to equalize the hours dynamically changing set of pressures of the various compressors.



ELECTRONIC CONTROLLER (installed on models from 4 to 7.5 kW)

The complete functioning of the compressor is precisely monitored by the advanced controller. This highly developed system allows the machine's operation to be fully programmed in several languages and also allows remote control, access to the maintenance schedule, etc.

The backlight display shows: working pressure, working/load hours, load/idle running, oil temperature.

The controller stores a fault log for easier troubleshooting. Start/stop and safety operation controls are easily accessible. It includes a phase sequence relay to check motor direction of rotation.



ECO Series

Model	Tank	Power		Air delivered			Max. Pressure		Sound level	Connection	Net Weights		Net Dimensions L x W x H
	lt	kW	HP	m ³ /min.	m ³ /h	CFM	bar	p.s.i.	dB(A)	G	Kg	Lbs	(cm)
ECO 4.0-08-270	270	4	5.5	0.58	34.8	20.5	8	116	60	1/2"	246	542	120 x 65 x 154
ECO 4.0-10-270	270	4	5.5	0.49	29.1	17.1	10	145	60	1/2"	246	542	120 x 65 x 154
ECO 5.5-08-270	270	5.5	7.5	0.72	43.2	25.4	8	116	64	1/2"	248	547	120 x 65 x 154
ECO 5.5-10-270	270	5.5	7.5	0.65	39	22.9	10	145	64	1/2"	248	547	120 x 65 x 154
ECO 7.5-08-270	270	7.5	10	1.25	75	44.1	8	116	66	1/2"	262	578	120 x 65 x 154
ECO 7.5-10-270	270	7.5	10	1.00	60	35.3	10	145	66	1/2"	262	578	120 x 65 x 154
ECO 7.5-13-270	270	7.5	10	0.75	45	26.5	13	188	66	1/2"	292	644	120 x 65 x 154
ECO 11-08-270	270	11	15	1.65	99	58.2	8	116	69	3/4"	300	662	155 x 70 x 153
ECO 11-10-270	270	11	15	1.50	90	53	10	145	69	3/4"	300	662	155 x 70 x 153
ECO 11-13-270	270	11	15	1.15	69	40.6	13	188	69	3/4"	328	723	155 x 70 x 153
ECO 15-08-270	270	15	20	2.15	129	75.9	8	116	70	3/4"	310	684	155 x 70 x 153
ECO 15-10-270	270	15	20	1.85	111	65.3	10	145	70	3/4"	310	684	155 x 70 x 153
ECO 15-13-270	270	15	20	1.55	93	54.7	13	188	70	3/4"	338	745	155 x 70 x 153

The air flow rates have been measured at the following working pressures:
 7.5 bar for model 8 bar - 9.5 bar for mod. 10 bar - 12.5 bar for mod. 13 bar.
 The data and performances were recorded in accordance with standard ISO 1217.
 The sound level was measured in accordance with PNEUROP/CAGI standards.

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