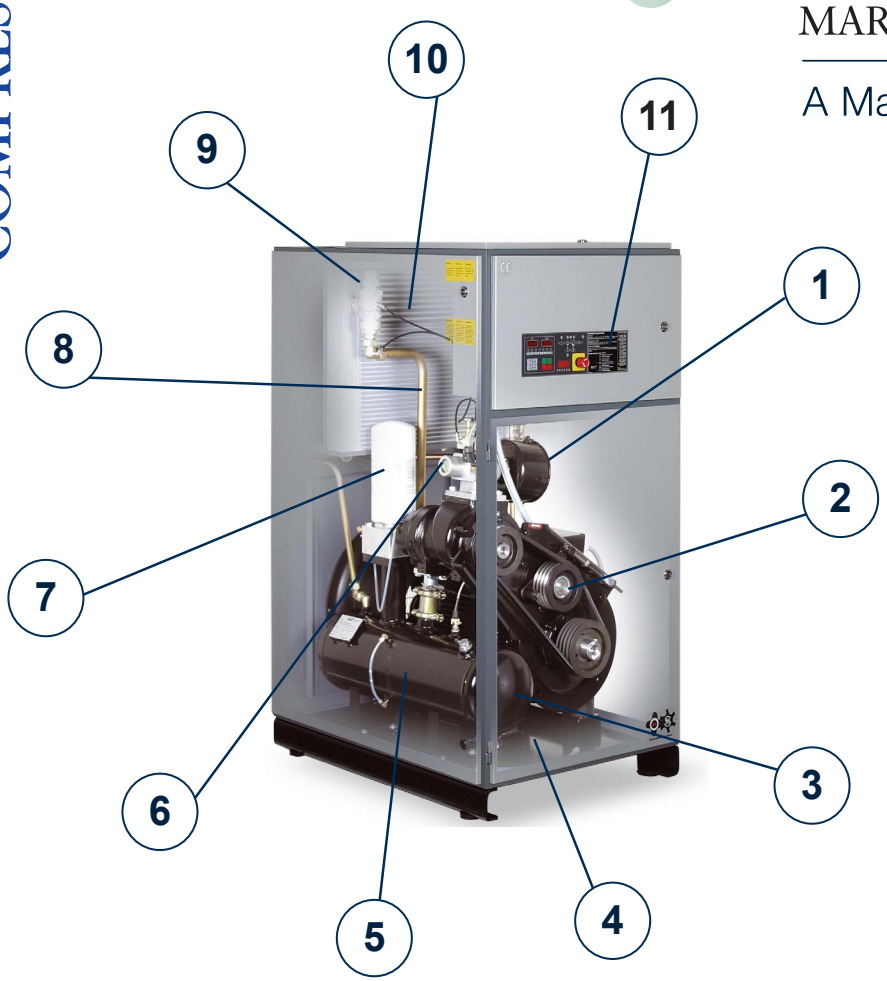
COMPRESSORS

HATLAPA
MARINE EQUIPMENT
A MacGregor company



MAIN FEATURES OF HSC SCREW COMPRESSORS

The possible applications of HSC screw compressors are almost unlimited and as individual as the available designs. Even the small HSC with 4 kW motor rating has the potential of a top performer. The design features and advantages are consistently apparent in all HSC models, e.g. the integrated oil sump, the unrestrictive access to all sides and the PROCON control system.

PRODUCT FEATURES

1. **Two-stage suction inlet filter:** The entry of foreign bodies is prevented by a cyclonic separator, fitted with a fine pre-filter.

2. **Equipped for the future:** Different pressures are achievable via the flexibility of utilising a belt drive. In addition, this facilitates smooth starting, absorbing the ensuing starting torques effectively.

3. **Drive:** HSC screw compressors are manufactured to high standards of quality. This includes the use of IP55 tested motors, meeting Class F insulation and Class F temperature rise requirements.

4. **Integrated oil sump:** Designed to prevent the escape of used oil to the environment. A hose supplied shortens the oil change time.

5. **Three-stage air/oil separation:** A cyclone separator, a gravity separator and a filter produce high air quality resulting in a residual oil content of approx. 2mg/m³.

6. **Suction control:** The use of hard anodised surfaces guarantees the highest durability and control capability. No adjustments are required for standard Hatlapa suction regulators. If required a proportional controller can be supplied. This provides smooth flow adjustment for the air demand.

7. **External fine separator:** Well-proportioned fine separator elements reduce internal pressure losses. The elements can be changed in just seconds.

8. **Piping:** Rugged, high quality pipe and fittings, designed and installed to enable ease of access for maintenance.

9. **Accessibility:** All side panels are removable. This feature allows unhindered access to all areas.

10. **Compact aluminium cooler:** The composite design unifies oil and air cooling in a single assembly. The design enables ease of cleaning.

11. **Operating pressures:** The rugged, modular construction of the HSC screw compressors allows pressures from 7.5 to 13 bar.

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Model	Motor capacity	Max. pressure	Flow capacity*	Sound level dB(A)	Weight Kg	Air connection G	Dimensions mm L W H
Compact screw compressors V-belt drive							
HSC 4	4	7.5 10	31.8 25.2	68	264	1/2“	695 650 1115
HSC 5.5	5.5	7.5 10	46.8 39.6	68	269	1/2“	695 650 1115
HSC 7.5	7.5	7.5 10	4.2 53.4	69	270	1/2“	695 650 1115
HSC 11	11	7.5 10	105 88.8	71	334	1“	690 805 1195
HSC 15	15	10	124.8	73	346	1“	690 805 1195
HSC 18.5	18.5	7.5 10	183 155.4	70	433	1“	740 900 1385
HSC 22	22	7.5 10	207 181.8	72	466	1“	740 900 1385
HSC 30	30	7.5 10	279 247.2	75	690	1 1/4“	815 1110 1635
HSC 37	37	7.5 10	336 312	77	710	1 1/2“	815 1110 1635
HSC 45	45	7.5 10	450.6 391.2	77	890	1 1/2“	890 1400 1715
HSC 55	55	7.5 10	529.2 465.6	79	955	1 1/2“	890 1400 1715
HSC 75	75	7.5 10	666 614.4	85	1360	1 1/2“	1000 1750 1855

* according to ISO 1217
Other sizes, pressures and marine approvals (watercooling, top acoustic cover) on request. Ambient temperature 45°C (50°C on request).

PROCON Control

Screw compressors of the HSC series are equipped as standard with PROCON, an integrated microprocessor control system. PROCON simplifies operation and provides many performance features. All settings can be made conveniently on a control panel. Numerous operating modes permit optimisation of the existing operating parameters.

An integrated diagnostic system monitors all safety-related operating conditions.

- System pre-start diagnostic checking
- Service maintenance indication
- Automatic start-up after power failure
- On reaching the final pressure, PROCON calculates and instigates required run-on time (Saving up to 60 % of energy costs in idle operation)
- The air system pressure sensor ensures precise control up to the pressure required (this pressure is adjustable in increments of 0.2 bar)
- In “auto mode” the compressor runs only on air demand
- Corrosion resistant contacts are provided for connection to a master control system
- Switchable remote and local function
- Electronic base-load change-over function regulated via second pressure band (optional)

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Illustrations, technical data, weights and dimensions are subject to alteration without previous notice.