

SECTION **9**

AIR COMPRESSORS

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Superb durability

- A job-proven Komatsu construction equipment engine with excellent durability is mounted.
- The Z-screw is well balanced, and the bearings are semipermanent . In addition, the construction is simple and the reliability is high.
- The blades have high resistance to wear, and there is almost no drop in the amount of discharge air caused by wear of the blades.

Excellent economy

- The optimum matching between the low fuel consumption engine and the high efficiency Z-screw ensures reduced fuel consumption.

Easy transportation and storage

- A compact, high output engine and simple Z-screw are used, so the compressors are lighter and more compact than those of other companies.

Easy operation

- A fully automatic control system using an IC controller is used to make starting operations extremely easy (silenced type).
- An automatic load reducing device and loading button type are used to make starting easy(standard type).

Low noise

- The use of a large muffler and sound suppressing material, and the use of an in take duct make the noise extremely low(low-noise type).

High levels of safety

- A monitor system is used, so when there is an abnormality, starting is prevented or an emergency stop is activated.

Easy maintenance

- Daily inspection and maintenance is made easier by the simplification of drainage of oil from the reservoir, together with the use of a one-piece compressor case, cartridge type filter element, and tilting hood(EC35Z(S),EC50Z(S)).

Specifications

AIR COMPRESSORS

| Item | Model | EC25Z-1 | EC35Z-2 | EC50Z-5 | EC75Z-3 |
|---------------------------------------|--------------------------|--------------------------------|--------------------------------|--------------------------------|---------------------------------|
| Compressor: | | | | | |
| Rated operating pressure | kg/cm ² (PSI) | 7.0 (100) | 7.0 (100) | 7.0 (100) | 7.0 (100) |
| Actual free-air delivery | m ³ /min(CFM) | 2.5 (88) | 3.7 (131) | 5.0 (177) | 7.5 (265) |
| Capacity of compressor oil | ltr.(U.S.Gal) | 16 (4.2) | 18 (4.8) | 21 (5.5) | 40 (10.6) |
| Capacity of air receiver | ltr.(U.S.Gal) | 39 (10.3) | 39 (10.3) | 39 (10.3) | 110 (29.1) |
| Air service cock | in. | Ø3/4" x 2 | Ø3/4" x 3 | Ø3/4" x 3 | Ø3/4" x 3 |
| Engine: | | | | | |
| Model | | KOMATSU 2D94 | KOMATSU 3D95S | KOMATSU 4D95S | KOMATSU 4D95L |
| Number of cylinders- bore x stroke | mm (in) | 2 - 94 x 106 (3.7" x 4.17") | 3 - 95 x 95 (3.74" x 3.74") | 4 - 95 x 95 (3.74" x 3.74") | 4 - 95 x 115 (3.74" x 4.53") |
| Piston displacement | ltr.(cu.in) | 1.47 (90) | 2.02 (123) | 2.69 (164) | 3.26 (199) |
| Rated output | HP(kW/RPM) | 25(19)/2500 | 35(26)/2650 | 45(33)/2800 | 64(48)/3000 |
| Capacity of lubricating oil | ltr.(U.S.Gal) | 5.6 (1.5) | 5.0 (1.3) | 7.0 (1.8) | 7.0 (1.8) |
| Capacity of fuel tank | ltr.(U.S.Gal) | 37 (9.8) | 60 (15.9) | 75 (19.8) | 120 (31.7) |
| Dimensions and weight: | | | | | |
| Overall length | mm(fi.in) | *2450 (8' 0") | 2545 (8' 4") | 2775 (9' 1") | *3060 (10' 0") |
| Overall width | mm(fi.in) | 1250 (4' 1") | 1175 (3'10") | 1175 (3'10") | 1350 (4' 5") |
| Overall height | mm(fi.in) | *1530 (5' 0") | *1450 (4' 9") | 1420 (4' 8") | *1600 (5' 3") |
| Dry weight(approx.) | kg(lb) | *700 (1,540) | *720 (1,590) | *845 (1,860) | *1100 (2,425) |

* indicates non noise-proof type.

Specifications

AIR COMPRESSORS

| Item | Model | EC105Z-1 | EC170Z-1 | EC210Z-1 | EC260Z-1 |
|---------------------------------------|--------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| Compressor: | | | | | |
| Rated operating pressure | kg/cm ² (PSI) | 7.0 (100) | 7.0 (100) | 7.0 (100) | 7.0 (100) |
| Actual free-air delivery | m ³ /min(CFM) | 11.0 (388) | 17.0 (600) | 21.0 (742) | 25.5 (900) |
| Capacity of compressor oil | ltr.(U.S.Gal) | 55 (14.5) | 70 (18.5) | 100 (26.4) | 120 (31.7) |
| Capacity of air receiver | ltr.(U.S.Gal) | 200 (52.8) | 290 (76.6) | 390 (103.0) | 470 (124) |
| Air service cock | in. | Ø2"×1, Ø3/4"×3 | Ø2"×1, Ø3/4"×3 | Ø2"×1, Ø3/4"×3 | Ø2"×1, Ø3/4"×3 |
| Engine: | | | | | |
| Model | | KOMATSU S4D105 | KOMATSU S6D105 | KOMATSU SA6D110 | KOMATSU S6D125 |
| Number of cylinders- bore x stroke | mm (in) | 4 - 105×125 (4.13"×4.92") | 6 - 105×125 (4.13"×4.92") | 6 - 110×125 (4.33"×4.92") | 6 - 125×150 (4.92"×5.91") |
| Piston displacement | ltr.(cu.in) | 4.33 (264) | 6.49 (396) | 7.13 (435) | 11.04 (674) |
| Rated output | HP(kW/RPM) | 101(75)/2400 | 152(113)/2500 | 189(141)/2500 | 228(170)/2150 |
| Capacity of lubricating oil | ltr.(U.S.Gal) | 15 (4.0) | 24 (6.3) | 28 (7.4) | 32 (8.5) |
| Capacity of fuel tank | ltr.(U.S.Gal) | 170 (44.9) | 300 (79.3) | 300 (79.3) | 400 (105.7) |
| Dimensions and weight: | | | | | |
| Overall length | mm(fi.in) | *2900 (9' 6") | *3500 (11' 6") | 3500 (11' 6") | 3900 (12'10") |
| Overall width | mm(fi.in) | 1400 (4' 7") | 1700 (5' 7") | 1700 (5' 7") | 1800 (5'11") |
| Overall height | mm(fi.in) | *1860 (6' 1") | *2130 (7' 0") | 2130 (7' 0") | 2050 (6' 9") |
| Dry weight(approx.) | kg(lb) | *1850 (4,080) | *2850 (6,280) | 2950 (6,500) | 3750 (8,270) |

* indicates non noise-proof type.