



ON-GROUND GAS-SEALED GRAIN SILOS



APPLICATION

Suitable for rural and commercial grain storage.

Long term grain storage with phosphine or controlled atmosphere insect control.

Ask for further information on the importance of sealed silos in the drive to control insects and maintain grain free of chemical residue.

COMMERCIAL AND SPECIAL REQUIREMENTS

The Company has a range of non-standard options and variations for specific applications.

These include:

- Range of unloader size and duty cycle designs.
- Roof loads to carry conveyors.
- Designs for high wind and seismic regions.
- Storage of products other than grain.
- Design and construct of integrated storage and conveying systems.
- Custom size/geometry silos.

FEATURES

- All galvanised construction.
- Pest eradication without chemical residue and risk of insect resistance.
- Bin is protected with high capacity oil bath relief valve.
- Clean design - no internal stiffeners.
- All structural seals use high quality, long lasting materials.
- Sight glass level indication (one in each 1100mm wall strake).
- Range of unload and sweep auger combinations to suit each application.
- Kotzur 5 year warranty.

ENGINEERING STANDARDS & DESIGN REFERENCES

- AS 3774 Loads on Bulk Solids Containers (Equivalent to Eurocode 1, Part 4, Silos and Tanks).
- AS 1170.2 Wind Actions.
- AS 1170.4 Earthquake Actions.
- AS 4100 Steel Structures.
- AS 2628 Sealing Grain Silos for Fumigation.
- Design of Steel Bins for Storage of Bulk Solids - Gaylord and Gaylord.
- AWRA Technical Note 14 - Design and Construction of Welded Steel Bins.
- Structural Design of Steel Bins for Bulk Solids - Trahair et. al.

SPECIFICATIONS Effective 12 January 2026

| GP 12 SERIES | CAPACITY M ³ | CAPACITY WHEAT T ⁽¹⁾ | MAX LOAD T ⁽²⁾ | DIAMETER M | HEIGHT TO CENTRE ⁽³⁾ | HEIGHT TO EAVE | AUGER LENGTH M (FT) ⁽⁴⁾ |
|--------------|-------------------------|---------------------------------|---------------------------|------------|---------------------------------|----------------|------------------------------------|
| GP 12-5 | 424 | 352 | 390 | 9.2 | 8.6 | 6.0 | 15.5 (51') |
| GP 12-6 | 496 | 412 | 456 | 9.2 | 9.7 | 7.1 | 17.4 (57') |
| GP 12-7 | 568 | 471 | 523 | 9.2 | 10.8 | 8.2 | 19.3 (63') |
| GP 12-8 | 640 | 531 | 589 | 9.2 | 11.9 | 9.3 | 21.2 (70') |
| GP 12-9 | 712 | 591 | 655 | 9.2 | 13.0 | 10.4 | 23.2 (76') |
| GP 12-10 | 784 | 651 | 721 | 9.2 | 14.1 | 11.5 | 25.1 (82') |
| GP 12-11 | 856 | 710 | 788 | 9.2 | 15.2 | 12.6 | 27.0 (89') |
| GP 12-12 | 928 | 770 | 854 | 9.2 | 16.3 | 13.7 | 28.9 (95') |
| GP 15 SERIES | CAPACITY M ³ | CAPACITY WHEAT T ⁽¹⁾ | MAX LOAD T ⁽²⁾ | DIAMETER M | HEIGHT TO CENTRE ⁽³⁾ | HEIGHT TO EAVE | AUGER LENGTH M (FT) ⁽⁴⁾ |
| GP 15-6 | 797 | 661 | 733 | 11.4 | 10.0 | 7.1 | 18.6 (61') |
| GP 15-7 | 910 | 755 | 837 | 11.4 | 11.1 | 8.2 | 20.5 (67') |
| GP 15-8 | 1022 | 848 | 940 | 11.4 | 12.2 | 9.3 | 22.5 (74') |
| GP 15-9 | 1135 | 942 | 1044 | 11.4 | 13.3 | 10.4 | 24.4 (80') |
| GP 15-10 | 1247 | 1035 | 1147 | 11.4 | 14.4 | 11.5 | 26.3 (86') |
| GP 15-11 | 1360 | 1129 | 1251 | 11.4 | 15.5 | 12.6 | 28.2 (93') |
| GP 15-12 | 1472 | 1222 | 1354 | 11.4 | 16.6 | 13.7 | 30.2 (99') |
| GP 15-13 | 1583 | 1314 | 1456 | 11.4 | 17.7 | 14.8 | 31.4 (103') |
| GP 15-14 | 1696 | 1408 | 1560 | 11.4 | 18.8 | 15.9 | N/A |
| GP 15-15 | 1809 | 1502 | 1664 | 11.4 | 19.9 | 17.0 | N/A |
| GP 15-16 | 1922 | 1595 | 1768 | 11.4 | 21.0 | 18.1 | N/A |
| GP 15-17 | 2035 | 1689 | 1872 | 11.4 | 22.1 | 19.2 | N/A |
| GP 15-18 | 2148 | 1783 | 1976 | 11.4 | 23.2 | 20.3 | N/A |
| GP 18 SERIES | CAPACITY M ³ | CAPACITY WHEAT T ⁽¹⁾ | MAX LOAD T ⁽²⁾ | DIAMETER M | HEIGHT TO CENTRE ⁽³⁾ | HEIGHT TO EAVE | AUGER LENGTH M (FT) ⁽⁴⁾ |
| GP 18-5 | 1019 | 846 | 938 | 13.7 | 9.7 | 6.0 | 18.0 (60') |
| GP 18-6 | 1181 | 980 | 1087 | 13.7 | 10.8 | 7.1 | 19.9 (66') |
| GP 18-7 | 1343 | 1115 | 1236 | 13.7 | 11.9 | 8.2 | 21.8 (72') |
| GP 18-8 | 1505 | 1249 | 1385 | 13.7 | 13.0 | 9.3 | 23.7 (78') |
| GP 18-9 | 1667 | 1384 | 1534 | 13.7 | 14.1 | 10.4 | 25.6 (84') |
| GP 18-10 | 1829 | 1518 | 1683 | 13.7 | 15.2 | 11.5 | 27.5 (90') |
| GP 18-11 | 1991 | 1653 | 1832 | 13.7 | 16.3 | 12.6 | 29.5 (97') |
| GP 18-12 | 2153 | 1787 | 1981 | 13.7 | 17.4 | 13.7 | 31.4 (103') |
| GP 18-13 | 2315 | 1921 | 2130 | 13.7 | 18.5 | 14.8 | 33.3 (109') |
| GP 18-14 | 2477 | 2056 | 2279 | 13.7 | 19.6 | 15.9 | N/A |
| GP 18-15 | 2639 | 2190 | 2428 | 13.7 | 20.7 | 17.0 | N/A |
| GP 18-16 | 2801 | 2325 | 2577 | 13.7 | 21.8 | 18.1 | N/A |
| GP 20 SERIES | CAPACITY M ³ | CAPACITY WHEAT T ⁽¹⁾ | MAX LOAD T ⁽²⁾ | DIAMETER M | HEIGHT TO CENTRE ⁽³⁾ | HEIGHT TO EAVE | AUGER LENGTH M (FT) ⁽⁴⁾ |
| GP 20-10 | 2258 | 1874 | 2077 | 15.2 | 16.0 | 11.5 | 28.8 (94') |
| GP 20-11 | 2457 | 2040 | 2261 | 15.2 | 17.1 | 12.6 | 30.78 (101') |
| GP 20-12 | 2657 | 2205 | 2444 | 15.2 | 18.2 | 13.7 | 32.76 (107') |
| GP 20-13 | 2856 | 2370 | 2628 | 15.2 | 19.3 | 14.8 | 34.74 (114'") |
| GP 20-14 | 3055 | 2536 | 2811 | 15.2 | 20.4 | 15.9 | 36.72 (121') |
| GP 20-15 | 3255 | 2701 | 2994 | 15.2 | 21.5 | 17.0 | 38.1 (125') |
| GP 20-16 | 3454 | 2867 | 3178 | 15.2 | 22.6 | 18.1 | N/A |
| GP 20-17 | 3653 | 3032 | 3361 | 15.2 | 23.7 | 19.2 | N/A |
| GP 20-18 | 3853 | 3198 | 3545 | 15.2 | 24.8 | 20.3 | N/A |

| GP 20 SERIES | CAPACITY M ³ | CAPACITY WHEAT T ⁽¹⁾ | MAX LOAD T ⁽²⁾ | DIAMETER M | HEIGHT TO CENTRE ⁽³⁾ | HEIGHT TO EAVE | AUGER LENGTH M (FT) ⁽⁴⁾ |
|--------------|-------------------------|---------------------------------|---------------------------|------------|---------------------------------|----------------|------------------------------------|
| GP 20-19 | 4052 | 3363 | 3728 | 15.2 | 25.9 | 21.4 | N/A |
| GP 20-20 | 4251 | 3529 | 3911 | 15.2 | 27.0 | 22.5 | N/A |
| GP 22 SERIES | CAPACITY M ³ | CAPACITY WHEAT T ⁽¹⁾ | MAX LOAD T ⁽²⁾ | DIAMETER M | HEIGHT TO CENTRE ⁽³⁾ | HEIGHT TO EAVE | AUGER LENGTH M (FT) ⁽⁴⁾ |
| GP 22-10 | 2777 | 2304 | 2555 | 16.7 | 16.4 | 11.5 | 29.5 (97') |
| GP 22-11 | 3020 | 2506 | 2778 | 16.7 | 17.5 | 12.6 | 31.4 (103') |
| GP 22-12 | 3262 | 2707 | 3001 | 16.7 | 18.6 | 13.7 | 33.3 (109') |
| GP 22-13 | 3505 | 2909 | 3224 | 16.7 | 19.7 | 14.8 | 35.46 (117') |
| GP 22-14 | 3747 | 3110 | 3447 | 16.7 | 20.8 | 15.9 | 38.1 (125') |
| GP 22-15 | 3990 | 3311 | 3670 | 16.7 | 21.9 | 17.0 | N/A |
| GP 22-16 | 4232 | 3513 | 3893 | 16.7 | 23.0 | 18.1 | N/A |
| GP 22-17 | 4475 | 3714 | 4117 | 16.7 | 24.1 | 19.2 | N/A |
| GP 22-18 | 4717 | 3915 | 4340 | 16.7 | 25.2 | 20.3 | N/A |
| GP 22-19 | 4960 | 4116 | 4563 | 16.7 | 26.3 | 21.4 | N/A |
| GP 22-20 | 5202 | 4318 | 4786 | 16.7 | 27.4 | 22.5 | N/A |
| GP 22-21 | 5445 | 4519 | 5009 | 16.7 | 28.5 | 23.6 | N/A |
| GP 22-22 | 5687 | 4720 | 5232 | 16.7 | 29.6 | 24.7 | N/A |
| GP 24 SERIES | CAPACITY M ³ | CAPACITY WHEAT T ⁽¹⁾ | MAX LOAD T ⁽²⁾ | DIAMETER M | HEIGHT TO CENTRE ⁽³⁾ | HEIGHT TO EAVE | AUGER LENGTH M (FT) ⁽⁴⁾ |
| GP 24-12 | 3899 | 3236 | 3587 | 18.2 | 18.7 | 13.2 | N/A |
| GP 24-13 | 4186 | 3474 | 3851 | 18.2 | 19.8 | 14.3 | N/A |
| GP 24-14 | 4473 | 3712 | 4115 | 18.2 | 20.9 | 15.4 | N/A |
| GP 24-15 | 4759 | 3950 | 4379 | 18.2 | 22.0 | 16.5 | N/A |
| GP 24-16 | 5046 | 4188 | 4643 | 18.2 | 23.1 | 17.6 | N/A |
| GP 24-17 | 5333 | 4426 | 4906 | 18.2 | 24.2 | 18.7 | N/A |
| GP 24-18 | 5620 | 4664 | 5170 | 18.2 | 25.3 | 19.8 | N/A |
| GP 24-19 | 5907 | 4902 | 5434 | 18.2 | 26.4 | 20.9 | N/A |
| GP 24-20 | 6193 | 5141 | 5698 | 18.2 | 27.5 | 22.0 | N/A |
| GP 24-21 | 6480 | 5379 | 5962 | 18.2 | 28.6 | 23.1 | N/A |
| GP 24-22 | 6767 | 5617 | 6226 | 18.2 | 29.7 | 24.2 | N/A |
| GP 24-23 | 7054 | 5855 | 6489 | 18.2 | 30.8 | 25.3 | N/A |
| GP 24-24 | 7341 | 6093 | 6753 | 18.2 | 31.9 | 26.4 | N/A |
| GP 24-25 | 7627 | 6331 | 7017 | 18.2 | 33.0 | 27.5 | N/A |
| GP 24-26 | 7914 | 6569 | 7281 | 18.2 | 34.1 | 28.6 | N/A |
| GP 26 SERIES | CAPACITY M ³ | CAPACITY WHEAT T ⁽¹⁾ | MAX LOAD T ⁽²⁾ | DIAMETER M | HEIGHT TO CENTRE ⁽³⁾ | HEIGHT TO EAVE | AUGER LENGTH M (FT) ⁽⁴⁾ |
| GP 26-12 | 4624 | 3838 | 4254 | 19.7 | 19.4 | 13.2 | N/A |
| GP 26-13 | 4961 | 4117 | 4564 | 19.7 | 20.5 | 14.3 | N/A |
| GP 26-14 | 5297 | 4397 | 4874 | 19.7 | 21.6 | 15.4 | N/A |
| GP 26-15 | 5634 | 4676 | 5184 | 19.7 | 22.7 | 16.5 | N/A |
| GP 26-16 | 5971 | 4956 | 5493 | 19.7 | 23.8 | 17.6 | N/A |
| GP 26-17 | 6308 | 5236 | 5803 | 19.7 | 24.9 | 18.7 | N/A |
| GP 26-18 | 6645 | 5515 | 6113 | 19.7 | 26.0 | 19.8 | N/A |
| GP 26-19 | 6982 | 5795 | 6423 | 19.7 | 27.1 | 20.9 | N/A |
| GP 26-20 | 7318 | 6074 | 6733 | 19.7 | 28.2 | 22.0 | N/A |
| GP 26-21 | 7655 | 6354 | 7043 | 19.7 | 29.3 | 23.1 | N/A |
| GP 26-22 | 7992 | 6633 | 7353 | 19.7 | 30.4 | 24.2 | N/A |
| GP 26-23 | 8329 | 6913 | 7663 | 19.7 | 31.5 | 25.3 | N/A |
| GP 26-24 | 8666 | 7193 | 7973 | 19.7 | 32.6 | 26.4 | N/A |
| GP 26-25 | 9003 | 7472 | 8282 | 19.7 | 33.7 | 27.5 | N/A |
| GP 26-26 | 9339 | 7752 | 8592 | 19.7 | 34.8 | 28.6 | N/A |

| GP 30 SERIES | CAPACITY M ³ | CAPACITY WHEAT T ⁽¹⁾ | MAX LOAD T ⁽²⁾ | DIAMETER M | HEIGHT TO CENTRE ⁽³⁾ | HEIGHT TO EAVE | AUGER LENGTH M (FT) ⁽⁴⁾ |
|--------------|-------------------------|---------------------------------|---------------------------|------------|---------------------------------|----------------|------------------------------------|
| GP 30-12 | 6297 | 5227 | 5793 | 22.8 | 20.0 | 13.2 | N/A |
| GP 30-13 | 6747 | 5600 | 6207 | 22.8 | 21.1 | 14.3 | N/A |
| GP 30-14 | 7197 | 5973 | 6621 | 22.8 | 22.2 | 15.4 | N/A |
| GP 30-15 | 7647 | 6347 | 7035 | 22.8 | 23.3 | 16.5 | N/A |
| GP 30-16 | 8096 | 6720 | 7449 | 22.8 | 24.4 | 17.6 | N/A |
| GP 30-17 | 8546 | 7093 | 7863 | 22.8 | 25.5 | 18.7 | N/A |
| GP 30-18 | 8996 | 7467 | 8276 | 22.8 | 26.6 | 19.8 | N/A |
| GP 30-19 | 9446 | 7840 | 8690 | 22.8 | 27.7 | 20.9 | N/A |
| GP 30-20 | 9896 | 8214 | 9104 | 22.8 | 28.8 | 22.0 | N/A |
| GP 30-21 | 10346 | 8587 | 9518 | 22.8 | 29.9 | 23.1 | N/A |
| GP 30-22 | 10796 | 8960 | 9932 | 22.8 | 31.0 | 24.2 | N/A |
| GP 30-23 | 11245 | 9334 | 10345 | 22.8 | 32.1 | 25.3 | N/A |
| GP 30-24 | 11695 | 9707 | 10760 | 22.8 | 33.2 | 26.4 | N/A |
| GP 30-25 | 12145 | 10080 | 11169 | 22.8 | 34.3 | 27.5 | N/A |
| GP 30-26 | 12595 | 10454 | 11587 | 22.8 | 35.4 | 28.6 | N/A |
| GP 32 SERIES | CAPACITY M ³ | CAPACITY WHEAT T ⁽¹⁾ | MAX LOAD T ⁽²⁾ | DIAMETER M | HEIGHT TO CENTRE ⁽³⁾ | HEIGHT TO EAVE | AUGER LENGTH M (FT) ⁽⁴⁾ |
| GP 32-18 | 10269 | 8523 | 9447 | 24.3 | 27.1 | 19.8 | N/A |
| GP 32-19 | 10779 | 8947 | 9917 | 24.3 | 28.2 | 20.9 | N/A |
| GP 32-20 | 11289 | 9370 | 10386 | 24.3 | 29.3 | 22.0 | N/A |
| GP 32-21 | 11800 | 9794 | 10856 | 24.3 | 30.4 | 23.1 | N/A |
| GP 32-22 | 12310 | 10217 | 11325 | 24.3 | 31.5 | 24.2 | N/A |
| GP 32-23 | 12820 | 10641 | 11795 | 24.3 | 32.6 | 25.3 | N/A |
| GP 32-24 | 13330 | 11064 | 12264 | 24.3 | 33.7 | 26.4 | N/A |
| GP 32-25 | 13841 | 11488 | 12733 | 24.3 | 34.8 | 27.5 | N/A |
| GP 32-26 | 14351 | 11911 | 13203 | 24.3 | 35.9 | 28.6 | N/A |
| GP 32-27 | 14861 | 12335 | 13672 | 24.3 | 37.0 | 29.7 | N/A |
| GP 32-28 | 15371 | 12758 | 14142 | 24.3 | 38.1 | 30.8 | N/A |
| GP 32-29 | 15882 | 13182 | 14611 | 24.3 | 39.2 | 31.9 | N/A |
| GP 32-30 | 16392 | 13605 | 15080 | 24.3 | 40.3 | 33.0 | N/A |
| GP 36 SERIES | CAPACITY M ³ | CAPACITY WHEAT T ⁽¹⁾ | MAX LOAD T ⁽²⁾ | DIAMETER M | HEIGHT TO CENTRE ⁽³⁾ | HEIGHT TO EAVE | AUGER LENGTH M (FT) ⁽⁴⁾ |
| GP 36-18 | 13168 | 10929 | 12115 | 27.4 | 28.0 | 19.8 | N/A |
| GP 36-19 | 13814 | 11466 | 12709 | 27.4 | 29.1 | 20.9 | N/A |
| GP 36-20 | 14460 | 12002 | 13303 | 27.4 | 30.2 | 22.0 | N/A |
| GP 36-21 | 15106 | 12538 | 13897 | 27.4 | 31.3 | 23.1 | N/A |
| GP 36-22 | 15752 | 13074 | 14491 | 27.4 | 32.4 | 24.2 | N/A |
| GP 36-23 | 16398 | 13610 | 15086 | 27.4 | 33.5 | 25.3 | N/A |
| GP 36-24 | 17043 | 14146 | 15680 | 27.4 | 34.6 | 26.4 | N/A |
| GP 36-25 | 17689 | 14682 | 16274 | 27.4 | 35.7 | 27.5 | N/A |
| GP 36-26 | 18335 | 15218 | 16868 | 27.4 | 36.8 | 28.6 | N/A |
| GP 36-27 | 18987 | 15759 | 17468 | 27.4 | 37.9 | 29.7 | N/A |
| GP 36-28 | 19627 | 16290 | 18057 | 27.4 | 39.0 | 30.8 | N/A |
| GP 36-29 | 20273 | 16827 | 18651 | 27.4 | 40.1 | 31.9 | N/A |
| GP 36-30 | 20919 | 17363 | 19245 | 27.4 | 41.2 | 33.0 | N/A |

1 - Wheat capacity based on typical consolidated/compacted bulk density in silo. **2** - Max load based on engineering design for wheat at 920kg/m3 - this load will vary for products with differing properties. **3** - Overall height allows for 400mm concrete height - this will vary with unloader options. **4** - Auger lengths are indicative only and are based on 35° angle. As differing auger brands elevate to different angles, always check individual auger height.

Actual tonnage capacity achieved in silos will vary according to a number of factors including bulk density (test weight), angle of repose and headspace volume (for aeration).

SPIRAL STAIRCASE & WALKWAY BETWEEN SILOS



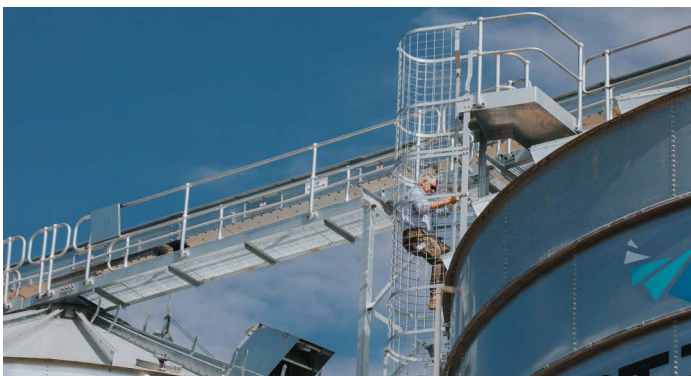
SILO ACCESS OPTIONS

All of our flat bottom silos can be fitted with a spiral staircase or ladder, as well as being combined with a walkway between silos that are positioned next to each other.

Our spiral staircase system was introduced in 2014 and, as with our ladders, all components are designed by Kotzur and fully comply with relevant Australian quality and safety standards.



SPIRAL STAIRCASE VS LADDER



LADDER & WALKWAY



SILO WALKWAY

WARRANTY - Kotzur Pty Ltd are confident in the quality of the products they design, manufacture and supply.

The following warranties apply:

- Structures including footings, elevator towers, walkways, silos etc - 5 years.
- Mechanical equipment including conveyors but excluding drive motors - 12 months.
- OEM equipment including drive motors and gearboxes - supplier warranty (generally 3 months).

This guarantee covers faulty design, engineering and workmanship; however this does not include problems arising from factors over which Kotzur has no control. These factors include footings constructed by others, negligent damage, unintended use of products, poor maintenance or care, normal wear and tear. Equipment manufactured by others and brought in by Kotzur Pty Ltd (e.g. Silo unloaders, aeration equipment) carry their respective manufacturers warranty. Please note this warranty excludes consequential losses.

SILO AERATION OPTIONS

Grain aeration is a powerful tool that offers harvest flexibility and better control of grain quality in storage; therefore increasing marketing opportunities both at harvest and during storage.

Without aeration, grain in storage will retain its harvest temperature and moisture for long periods of time. This can lead to increase insect activity, moulding and quality degradation.

Aeration Cooling Solutions

Aeration cooling aims to maintain grain quality during storage. By maintaining low temperature and creating uniformity through the grain, mould and insects are less likely to develop. Cooling can be achieved with airflow rates of 2-3 l/s/T (litres per second per tonne).

- **In-floor Aeration System:** Is the solution for flat bottom silos.

Aeration Drying Solutions

Aeration drying relies on a high volume of air passing through the grain to slowly remove moisture.

Aeration drying requires higher airflow rates of 15-50 l/s/T in order to effectively move drying fronts through and carry moisture out of the stored grain.

- **Full-floor Aeration System:** Aeration drying for flat bottom silos is achieved through full-floor aeration system. This ensures high volume of air passing through the grain.



IN-FLOOR AERATION SYSTEM



Kotzur Aeration Controller

The Kotzur Aeration Controller has been designed to operate the silo fans for a determined number of hours per day, when the ambient weather conditions are optimum for cooling.

The unit is equipped with a temperature and humidity sensor that reads the ambient temperature and humidity in 'real time'. These readings are used in the controller to calculate the 'wet bulb' temperature, which is then compared to a 'set point' temperature. When the wet bulb temperature is above the set point temperature the fans will automatically turn on.

The set point temperature is set initially at 15°C. This temperature is automatically adjusted to account for actual weather conditions, for example; if the temperature does not drop below 15°C in one day, the set point temperature is increased, likewise if it does not rise above 15°C it will decrease.



KOTZUR AERATION CONTROLLER

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