INSIGHTS REPORTS

A CleanSpace Insights Report is a helpful tool that provides site managers and supervisors with daily data-driven insights for a **CleanSpace CST ULTRA** fleet. The easy-to-read information shows details about individual respirator usage, how long the units have been worn each day, the protection provided and filter usage.

A **CleanSpace Insights Report** accessed via an online link. The interactive dashboard contains no personal user information and is referenced solely by the different respirator serial numbers that were active during the reporting period (seven days or fourteen days). Before accessing an Insights Report, a site must provide CleanSpace with some details such as the CST ULTRA serial numbers that are being reviewed . As the respirator data is automatically stored in the respirator's firmware, each CST ULTRA must be individually paired with the CleanSpace SMART App and syncronised prior to the report. A synch will securely upload the respirator data to the CleanSpace Cloud.

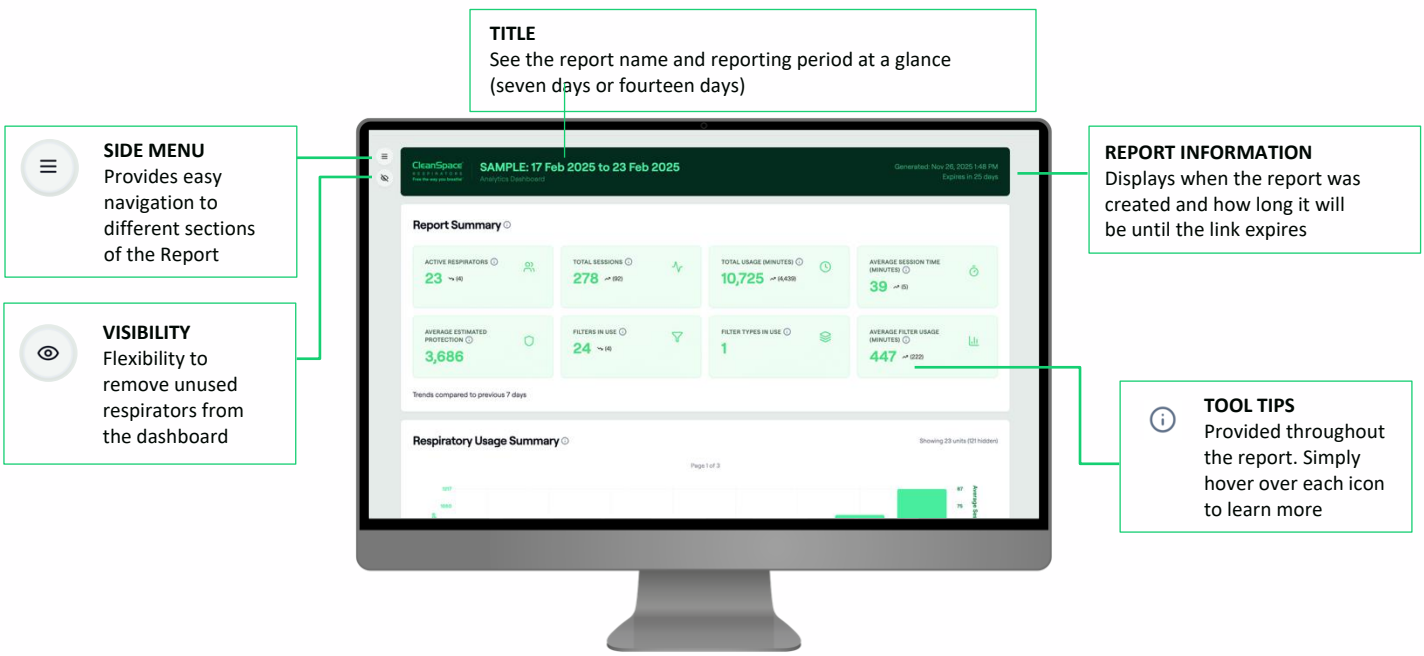
The data is converted to an easy-to-read format for a site manager or supervisor to identify respirator usage trends, protection levels and filter activity. These insights are essential for ensuring that equipment is used correctly, efficiently, and in line with safety requirements.

For security reasons, the online link is only valid for 30 days. However a new link for the same report period may be generated once the link has expired.

This supplement provides further information about an Insights Report, and highlights some areas where the information could support decision-making and maintenance.

To prepare and request an **Insights Report**, please visit https://cleanspacetechnology.com/documents/product-resources/CleanSpace-Preparation-Insights-Reports-Supplement-EN.pdf

REPORT FEATURES



REVIEW OF EACH SECTION OF THE REPORT

1. REPORT SUMMARY

The **Report Summary** section provides a top-level view of activity for the site's CST ULTRA respirators (identified by their serial numbers). It displays how respirators were active, the number of logged sessions, the total minutes of use and the average session time.

The data is compared to the data for the previous reporting period, providing the ability to identify changes in respirator usage behaviour or operational workload.

Example. In this sample report period below, 23 respirators were actively used (1). In total, the respirators completed 278 sessions (2). This totalled more than 10,725 minutes of use (3). The average session time was 39 minutes (4). The average estimated protection is 3686 indicating excellent protection (5). During this report period, 24 filters were in use (6). There was only one type of filter used (7). The average filter usage was 447 minutes (8).

(1) ACTIVE RESPIRATORS

23 out of 144 respirators were actively used.
Usage decreased by 4 respirators when compared to the data logged over previous 7-day period.

(2) TOTAL SESSIONS

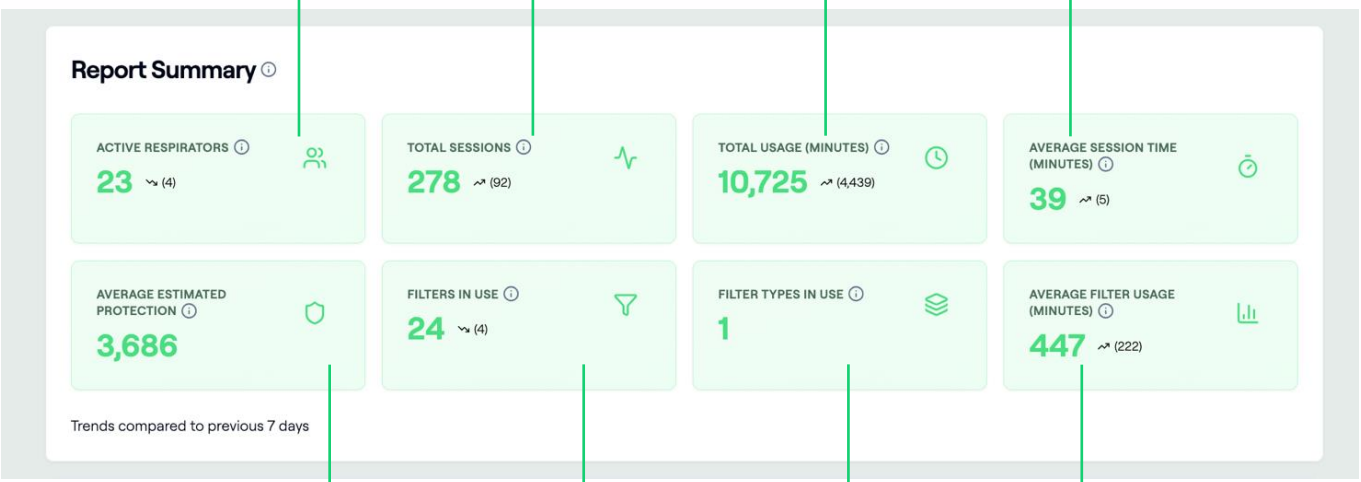
23 respirators logged a total of 278 sessions. This indicates an increase of 92 sessions when compared with the data logged over the previous 7-day period.

(3) TOTAL USAGE (MINUTES)

23 respirators logged a total of 10,725 minutes of use. This indicates an increase of 4,439 when compared with data logged over the previous 7-day period.

(4) AVERAGE SESSION TIME (MINUTES)

Each respirator was used for an average of 39 minutes. This was an average increase of 5 minutes when compared with the data logged over the previous 7-day period.



(5) AVERAGE ESTIMATED PROTECTION

The average estimated protection for each session over the reporting period was 3686. This indicates excellent protection.

(6) FILTERS IN USE

24 filters were in active use, which has decreased by 4 when compared with the data logged over the previous 7-day period. NOTE: 23 respirators are active, therefore one filter change has occured during this period.

(7) FILTER TYPES IN USE (MINUTES)

1 Filter Type was used. If respirators use different filter types during a report period, it will be displayed here.(e.g. CST1004, CST1006, etc).

(8) AVERAGE FILTER USAGE (MINUTES)

The average time that each filter was used (minutes) is 447, and is the total usage (10,725) divided by the number of filters in use (24).

TREND ARROW This displays an increased or decrease comparison to the previous data (7 days or 14 days). It is an indication of changes in operational activity.

2. RESPIRATOR USAGE SUMMARY

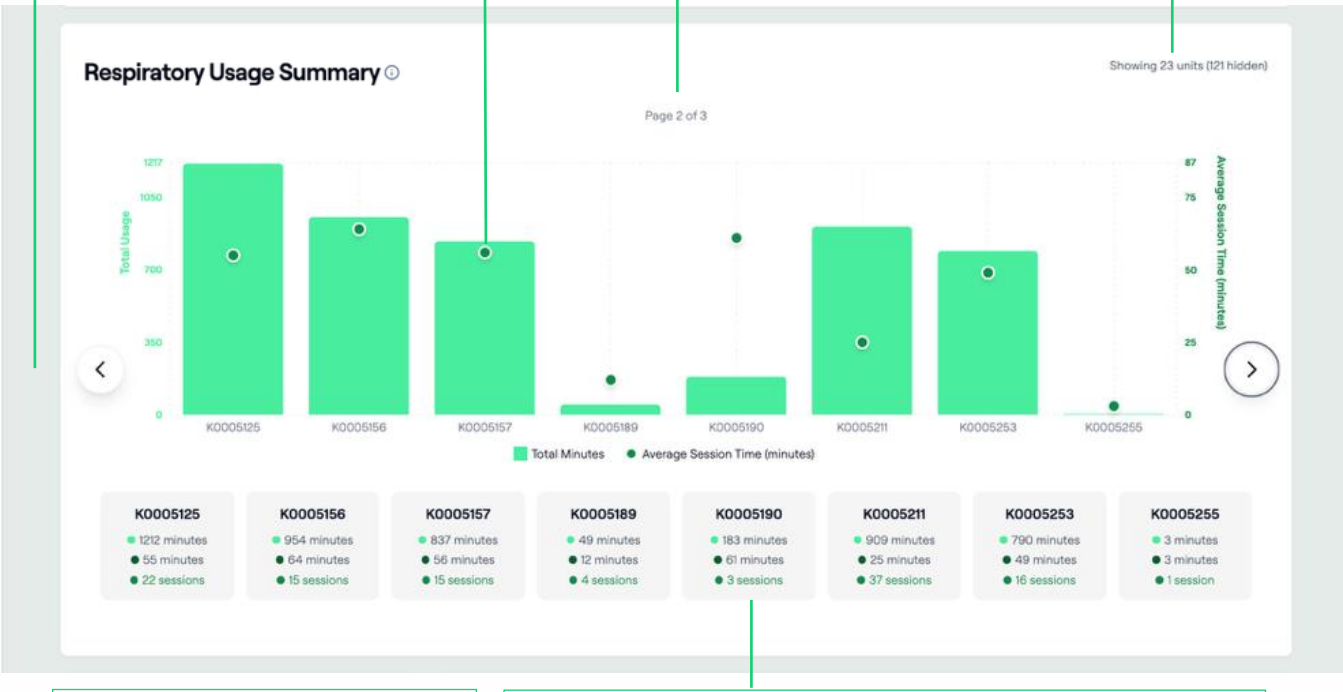
The **Respirator Usage Summary** displays a graph showing the performance of each respirator identified by individual serial numbers. The light green bar graph provides information on the total operating time and the dark green data point indicates the average session length. This visual comparison assists with identifing units that have high usage times, lower usage times of inactive use. Comparing usage patterns may provide an opportunity to review task allocation, equipment availability or manage consistent usage in contaminated areas.

Scroll left and right to see more respirators.

Displays current page and total number of pages.

Displays the number of units shown on the graph. **Example**: 23 units are shown. 121 units were not in use for this 7-day report period and have been hidden.
(Visibility may also be set to display ALL units in the report period on this graph)

Respirators are sorted sequentially by serial number from lowest



Each light green bar displays the respirator's total operating time in minutes for the reporting period. (right side Y-Axis)

Each dark green data point displays the average session time in minutes for the reporting period. (right side Y-Axis)

HOVER OVER THE GRAPH TO REVIEW INDIVIDUAL RESPIRATOR INFORMATION

- Total respirator use time (minutes)
- Average session time (minutes)
- Total number of sessions

3. ESTIMATED PROTECTION

Estimated Protection provides a real-world view of how effectively the wearer was protected each respirator protected during the reporting period.

NOTE: The estimated protection is measured by comparing the respirator output to the CleanSpace AirSensit algorithm and is a concept specific to CleanSpace. An estimated protection is not to be confused with a Nominal Protection Factor or a Fit Factor

The daily average chart displays a graph of the estimated protection for each respirator. Units with consistently high results is a demonstration of consistent performance. Lower or fluctuating averages may indicate potential issues such as poor respirator fit, improper use, or prompt a further investigation for maintenance or retraining needs.

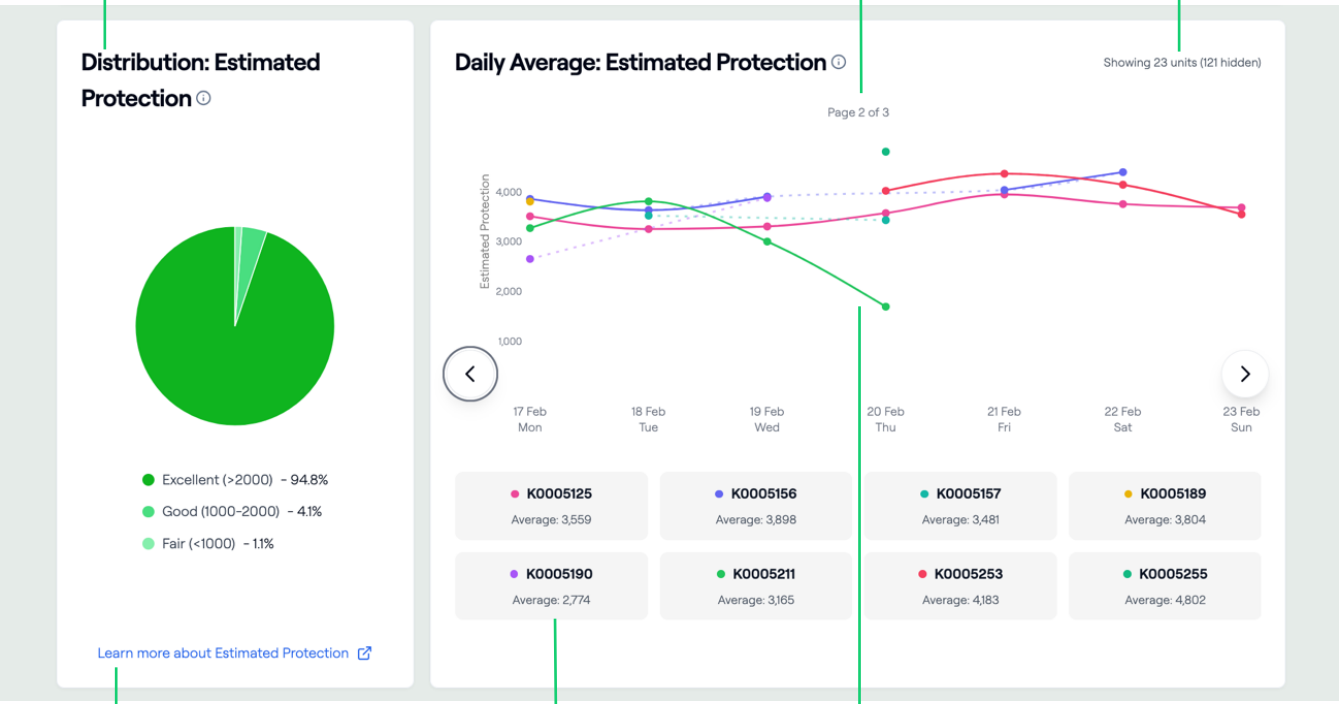
For more information on Estimated Protection please visit: https://cleanspacetechnology.com/estimated-protection/

DISTRIBUTION: ESTIMATED PROTECTION

The pie graph shows the estimated protection as an percentage over all sessions for the reporting period. **Example:** 94.8% of respirators produced an excellent estimated protection level, 4.1% gave good estimated protection and 1.1% gave fair estimation protection.

Displays current page and total number of pages.

Displays the number of units shown on the graph. **Example**: 23 units are shown. 121 units were not in use for this 7-day report period and have been hidden.
(Visibility may also be set to display ALL units in the report period on this graph)

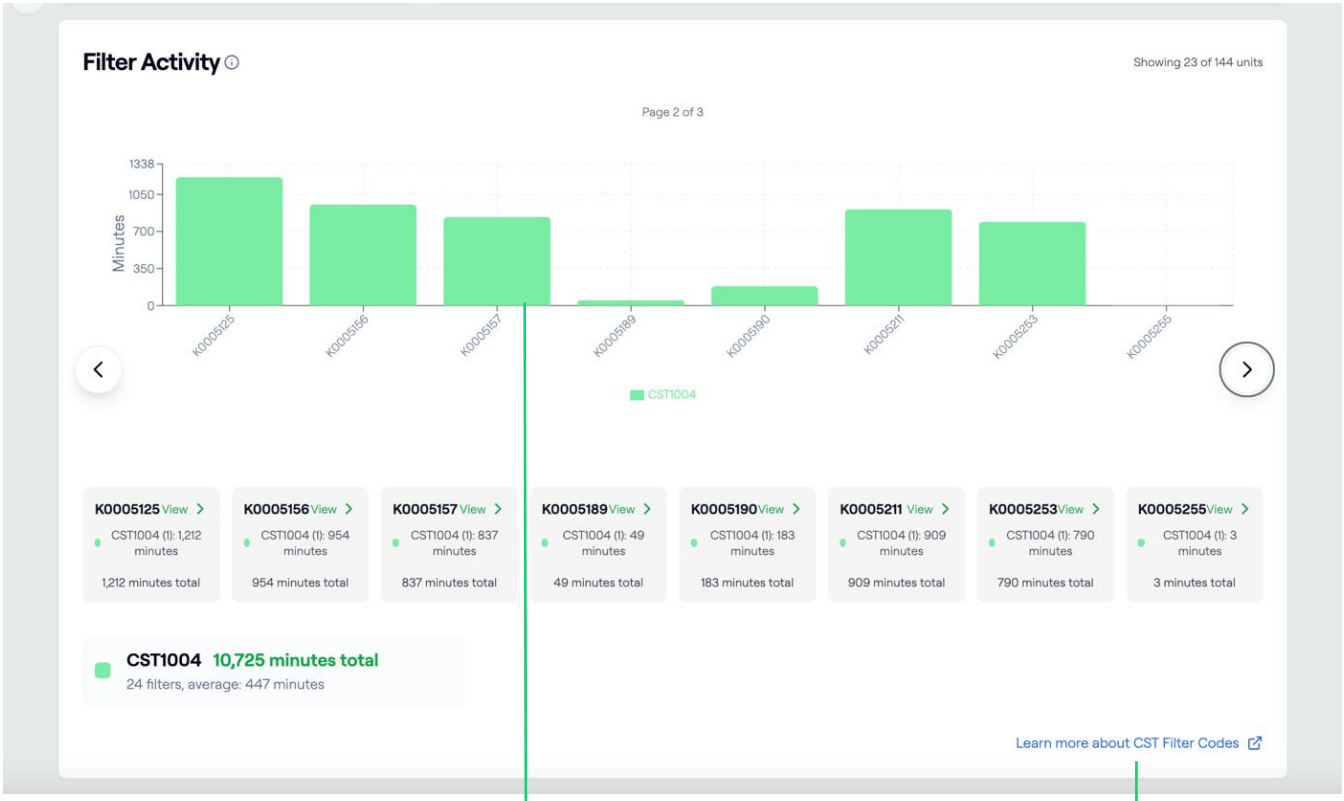


Click this link to learn more about Estimated Protection

Hover over different areas in the graph to display the estimated protection data for each active respirator

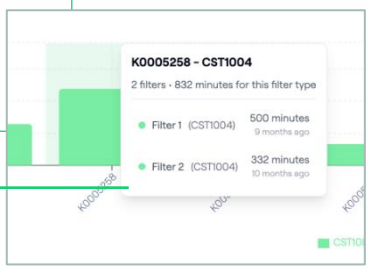
4. FILTER ACTIVITY

The Filter Activity section summarises filter types and usage for each respirator. This assists with filter lifespan monitoring and filter replacement strategies with greater accuracy.
The highest and lowest levels of use for each filter and type is displayed in minutes, identifying which respirators contribute most to overall consumption. This information is especially valuable when budgeting consumables or reviewing whether the correct filters are being used for specific tasks.



HOVER OVER THE GRAPH OR CLICK ON THE INDIVUDUAL RESPIRATOR DATA TO REVIEW FILTER ACTIVITY AND TYPE

- Total filter usage (minutes)
- Individual filter usage (minutes)



Click this link to learn more about CST filters.

5. DAILY USAGE HEAT MAP

The Daily Usage Heatmap is a visual snapshot of respirator usage each day. The higher the individual respirator usage (minutes) the darker the heat map indicator will be. It highlights regular or irregular usage patterns including days with no activity. Units with prolonged daily use are easy to identify by using the colour indicators. The assists teams to identify is access to CST ULTRAs is easily available or appropriately distributed. Unused devices may indicate storage issues, lack of access, or any potential non-compliance of use.

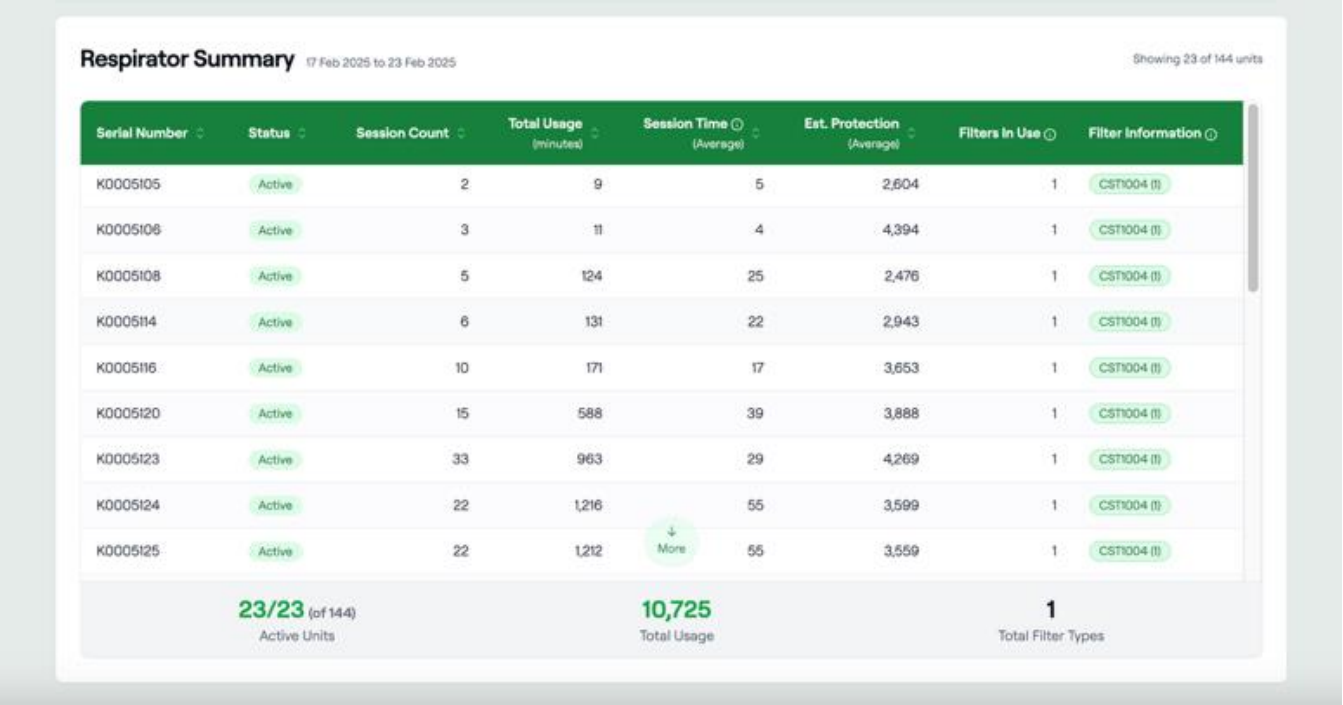
The heatmap provides a quick visual overview of total daily respirator usage in the columns and individual daily respirator usage through the reporting period in the rows.
Example 1: 17 Feb (column) displayed higher use (minutes) of respirators than 19 Feb (column). This which may relate to allocation of work.
Example 2: K0005120 (row) displays days with no use compared to K0005124 (row) which displays daily use.

More

Click here to reveal more data on the Daily Usage Heatmap.

6. RESPIRATOR SUMMARY

Lists the key metrics for each respirator in a tabled format.



The **CleanSpace Insights Report** is designed to give sites a clear understanding of CST ULTRA respirator activity, protection performance, and filter usage. This data may be used to optimise fleet performance, support worker safety, and ensure equipment is being used as intended.

Please visit the FAQs section of the CleanSpace website or contact CleanSpace at sales@cleanspacetechnology.com