

# **Ecocell® Evacuation Lifts**

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Where Innovation Meets Sustainability



## Introducing **Ecocell®:** Your Ultimate Solution for Compliant and Eco-Friendly Evacuation Lifts

Since its introduction to the UK market in 1998 by Morris Vermaport Ltd, the Ecocell® range of battery-powered lifts have revolutionised the way we approach energy consumption and emergency situations. These lifts have been meticulously engineered to not only reduce energy usage but also provide an integrated standby power supply, making them the perfect choice for evacuation and power loss scenarios. With a strong focus on accessibility, Ecocell® lifts address the needs of disabled individuals and other users, ensuring their safety and peace of mind.

The Ecocell® series offers a diverse selection of lift sizes, featuring both geared and gearless machines to cater to various requirements. Designed for efficiency and convenience, these lifts operate on a single-phase electrical input, making installation and maintenance hassle-free. In the event of a power outage, the Ecocell® employs an internal bank of batteries, enabling it to seamlessly complete up to 100 journeys. This remarkable feature exceeds the secondary power supply requirement mandated by BS9999 for evacuation lifts, ensuring compliance with industry standards.

Choose Ecocell® for a sustainable and reliable evacuation lift solution that not only prioritises safety and accessibility but also minimises environmental impact. With its cutting-edge technology and forward-thinking design, Ecocell® is the simplest and most effective way to ensure compliance and promote eco-friendliness in any building or facility.

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#### **Proven Energy Efficiency**

The Ecocell® lift has undergone independent verification by the renowned Environmental Technology Centre at the University of Nottingham, confirming its exceptional energy efficiency. It surpasses typical gearless MRL passenger lifts and geared traction lifts in terms of energy efficiency, providing twice the number of journeys for every £1.00 spent on energy compared to similar gearless MRL lifts and three times the number compared to geared traction lifts. By choosing Ecocell®, you not only contribute to sustainable practices but also significantly reduce energy consumption and lower operating costs.

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#### **Photovoltaic Power Option**

As an additional eco-friendly feature, Ecocell<sup>®</sup> lifts can be equipped with photovoltaic panels. These panels have the capability to recharge the batteries, and during periods of low usage, they can even power the lift for free, harnessing renewable energy to further minimise energy consumption and operating costs.

Significant Operational Cost Reduction

Ecocell® lifts offer significant cost savings compared to conventional traction and hydraulic lifts. Operating costs can be reduced by up to 10 times compared to conventional traction lifts and up to 15 times compared to conventional hydraulic lifts. The Ecocell® lift operates on a cost effective 240V, 50Hz, single-phase mains power supply, eliminating the need for expensive 415V, 3-phase supply. With no ongoing expenses for oil changes, flat-belt rope replacements, or generator servicing, you benefit from reduced lifecycle costs and lower energy expenses. Ecocell® is the most economical solution without compromising performance or safety.

#### Enhancing the Sustainability of the Built Environment

By choosing Ecocell® lifts, you actively contribute to the sustainability of the built environment. These eco-friendly lifts incorporate energyefficient technologies, reducing carbon footprint and achieving significant CO2 savings of 48,209 kg compared to hydraulic units and 17,368 kg compared to the average MRL lift over a 20-year period. Ecocell<sup>®</sup> lifts can be further enhanced by connecting them to renewable energy sources such as turbines or photovoltaic cells, neutralising their environmental impact. Moreover, the Ecocell® lift has been assessed to receive 2 credits under the BREEAM-Ene 06 category for "energy-efficient lifts." Ecocell® exemplifies a strong commitment to sustainability, offering a greener future for the built environment.

#### **Guaranteed Battery Life**

The Ecocell<sup>®</sup> lift guarantees the longevity of its batteries, providing reassurance to users. With careful engineering and rigorous testing, the battery system is designed to deliver reliable performance throughout its lifespan, ensuring peace of mind and minimal maintenance requirements.

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#### Integrated Secondary Power Supply

Ecocell® lifts feature an integrated battery backup system with 22 x 12V lead-acid batteries, each with individual charges, eliminating the need for costly external provisions to meet BS 9999 regulations. With over 100 trips possible on battery power alone, the lift ensures uninterrupted service during blackouts and functions as a reliable evacuation solution. By incorporating a robust battery backup system, Ecocell® lifts prioritise safety and convenience, surpassing current standards and providing uninterrupted lift service without unnecessary expenses.

## Why Choose Ecocell<sup>®</sup>?

#### **Seamless Compliance**

Ecocell® lifts effortlessly meet BS9999 evacuation standards, adapting easily to specific requirements. With a built-in secondary power supply, the conversion into an evacuation lift is seamless, ensuring compliance in a cost-effective manner. The Ecocell® lift also anticipates future requirements, aligning with EN81-76 and The London Plan (2021), providing peace of mind and a safe and compliant solution for new building designs.

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#### **Open Protocol and Flexibility**

The Ecocell® lift operates on an open protocol system, utilising industry-leading off-theshelf components such as the autodialler, controller, ropes, winding unit, doors, and buttons. This allows any qualified engineer to work on the equipment, reducing lead times and costs associated with high-priced OEM-manufactured kits. Moreover, the open protocol nature of Ecocell® lifts provides flexibility when selecting a maintenance provider, ensuring you have a wide range of options and competitive pricing.

#### **Versatile Options**

Ecocell<sup>®</sup> lifts are available in various sizes and configurations. You can choose between geared or gearless machines, and opt for a through car or open adjacent entrance configuration as options. With the ability to reach speeds of up to 1.6mps and travel distances of up to 40m, Ecocell<sup>®</sup> lifts provide efficient vertical transportation.

## Enhanced Accessibility and Self-Evacuation

The Ecocell® lift provides enhanced accessibility, ensuring buildings are accessible to all users. Whether it's a new installation or a replacement lift, Ecocell® promotes inclusivity by enabling convenient access for elderly and disabled individuals, meeting accessibility requirements. Additionally, the Ecocell® lift facilitates self-evacuation through an access control system, granting priority calls and fire recall isolation to disabled users. This feature enhances safety and independence during emergencies, allowing individuals to self-evacuate according to their Personal Emergency Evacuation Plan (PEEP).

Choose Ecocell® for an unparalleled combination of energy efficiency, compliance, cost savings, sustainability, and flexibility. Experience a lift solution that not only prioritises performance and safety but also aligns with your environmental and financial goals.

Contact us for more information regarding these standards and discover how Ecocell<sup>®</sup> can fulfil your evacuation lift requirements.

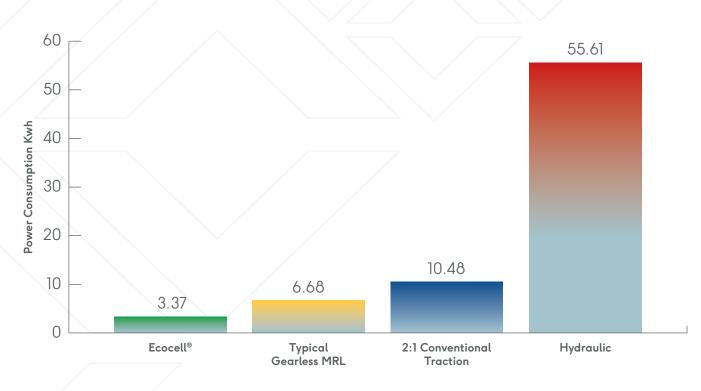
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## Tech Specs

Car capacity	6 Person	8 Person	10 Person	13 Person	13 Person			
(kg)	480	630	800	1000	1000			
Configuration	Single Entry	Single Entry	Single Entry	Single Entry Square	Single Entry Stretcher			
Car Size W x D (mm)	950 x 1300	1100 x 1400	1350 x 1400	1400 x 1600	1100 x 2100			
Shaft Size W x D (mm)	1550 x 1650	1650 x 1800	1900 x 1800	1950 x 2000	1600 x 2500			
Door Opening (mm)	800 - 900	800 - 900	800 - 900	800 - 1000	800 - 1000			
Minimum Pit Depth (mm)	1200	1200	1200	1200	1200			
Minimum Headroom (mm)	3600	3600	3600	3600	3600			
Max Travel (m)	40	40	40	40	40			
Speed (m/s)	1	1	1	1	1			
Power (V)	240v 1ph	240v 1ph	240v 1ph	240v 1ph	240v 1ph			
Amps (A)	50Hz 32 Amps	50Hz 32 Amps	50Hz 32 Amps	50Hz 32 Amps	50Hz 32 Amps			

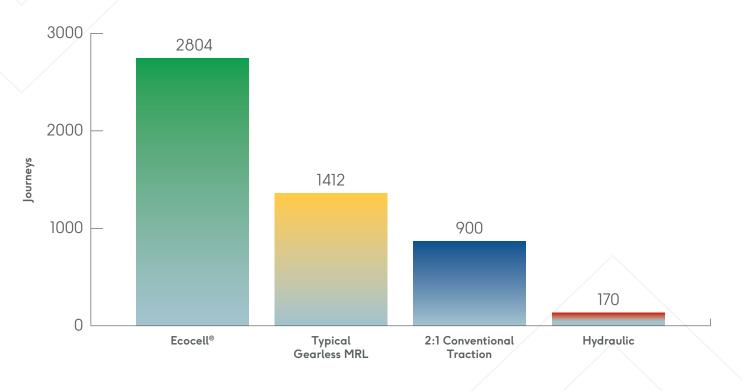
## Typical Benchmarks for 8 Person / 630Kg – 4 Stop Passenger Lifts

DWP Worsley Court - 1 Hour Snapshot Energy Consumptions									
	Hydraulic Lift	Ecocell® Lift							
Time	Hourly kWh	Hourly kWh							
'14:00 2011/10/11	0.3936	0.02676							
'15:00 2011/10/11	5.561	0.4038							
'16:00 2011/10/11	0.02499	0.04589							
Journey Counter									
Intermediate Up Journeys	37	40							
Full Up Travel Journeys	16	20							
Intermediate Down Journeys	32	40							
Full Down Travel Journeys	15	20							
Total Number of Journeys	100	120							
Average kWh per 1000 Journeys	55.61	3.365							

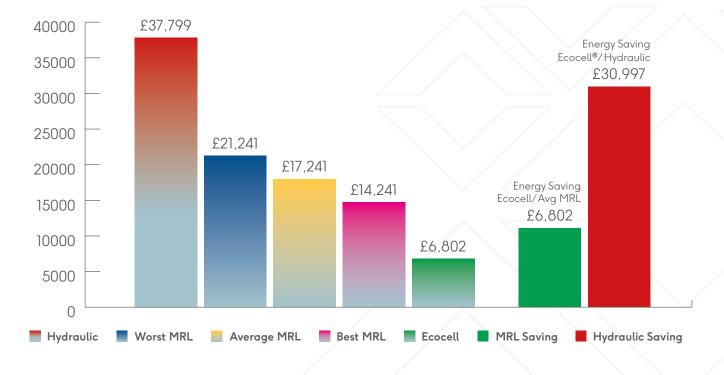


Power Consumption per 1000 Journeys

## Journeys per £1 of Electricity

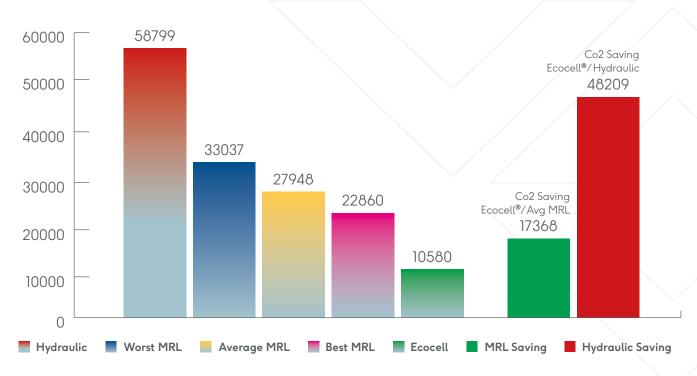


**\$** 5



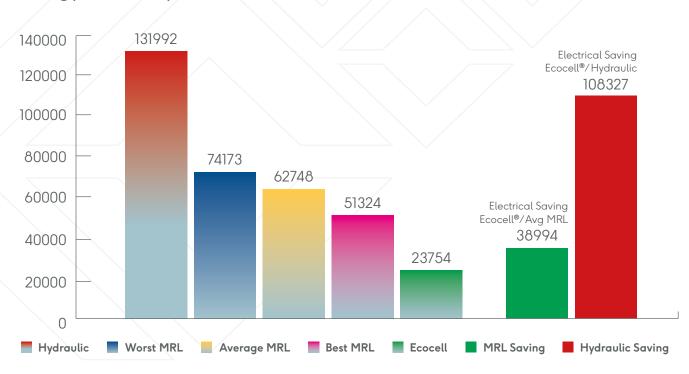
### 20 Year Energy Cost & Saving

### Co2 Savings over 20 Year Period



**\$** 

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## Energy Consumption over 20 Year Period

#### Ecocell® | Evacuation Lifts

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| 3.4267      | 3.3916  | 3.2883   
   
   | 3.2296   | 3.3931   
   
   | 3.4449  | 3.4130   | 3.3636  | 3.3451  | 3.3309   
  | 3.1978   
  | 3.4317   
   | 3.4686  
  | 3.4778   | 3.3094   | 3.4328  | 3.2781   
  | 3.3016   
  | 3.4774  | 3.3916   | 3.4404  | 70.83   |   |
| 6.1140      | 7.8707  | 6.9517   
   
   | 7.4858   | 7.6367   
   
   | 7.8005  | 7.2367   | 7.7582  | 8.0419  | 7.1697   
  | 7.1535   
  | 7.6834   
   | 7.8282  
  | 7.9404   | 7.4612   | 8.0425  | 7.5122   
  | 6.9706   
  | 7.5577  | 7.5841   | 4.44399   | 154.24  |   |
| 3.5418      | 4.8083  | 5.2512   
   
   | 7.0677   | 6.7495   
   
   | 6.8556  | 9.6784   | 10.2322   | 8.8126  | 9.2718   
  | 8.9596   
  | 8.9680   
   | 9.0275  
  | 9.1072   | 9.2713   | 8.4574  | 5.6188   
  | 5.6873   
  | 5.8113  | 5.5731   | 6.0132  | 154.76  |   |
| 41.8300     | 27.3194   | 41.1756  
   
   | 39.5101  | 42.0699  
   
   | 40.9583   | 42.2302  | 39.5601   | 41.8733   | 40.7921  
  | 40.0767  
  | 42.4990  
   | 39.8010   
  | 40.2213  | 42.5041  | 41.8360   | 40.4840  
  | 40.9512  
  | 42.1981   | 41.0049  | 40.1478   | 849.04  |   |
| 6.8444      | 9.6211  | 9.3119   
   
   | 9.3861   | 10.0383  
   
   | 9.9040  | 10.3034  | 10.0102   | 9.4677  | 9.5164   
  | 9.5482   
  | 10.2133  
   | 9.8444  
  | 9.5138   | 10.1952  | 9.8341  | 9.8850   
  | 9.2415   
  | 10.5776   | 9.6319   | 9.8099  | 202.70  |   |
| 12.4666     | 10.5112   | 5.8651   
   
   | 7.6161   | 9.0488   
   
   | 9.4337  | 8.9315   | 10.0234   | 11.0604   | 6.0551   
  | 8.6005   
  | 14.4157  
   | 8.4100  
  | 10.7185  | 9.3427   | 8.9506  | 6.0688   
  | 6.9548   
  | 10.4383   | 10.6668  | 6.3116  | 191.89  |   |
| 63.2478     | 56.9792   | 72.7733  
   
   | 104.722  | 77.9661  
   
   | 59.6509   | 60.5141  | 59.2467   | 60.4215   | 57.5826  
  | 56.0321  
  | 57.7371  
   | 60.9135   
  | 51.4803  | 51.2926  | 58.8823   | 60.5427  
  | 58.6315  
  | 66.9102   | 57.8876  | 60.9725   | 1314.39   |   |
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| 223         | 216   | 186  
   
   | 153  | 212  
   
   | 246   | 204  | 210   | 192   | 163  
  | 128  
  | 211  
   | 232   
  | 254  | 194  | 240   | 167  
  | 179  
  | 240   | 225  | 235   | 4310  |   |
| 264         | 295   | 169  
   
   | 231  | 247  
   
   | 279   | 206  | 296   | 287   | 191  
  | 211  
  | 269  
   | 285   
  | 278  | 267  | 295   | 253  
  | 183  
  | 264   | 239  | 149   | 5158  |   |
| 92          | 240   | 152  
   
   | 153  | 153  
   
   | 150   | 139  | 197   | 140   | 199  
  | 150  
  | 159  
   | 149   
  | 128  | 168  | 154   | 183  
  | 129  
  | 156   | 131  | 170   | 3292  |   |
| 822         | 595   | 796  
   
   | 769  | 850  
   
   | 825   | 887  | 686   | 771   | 793  
  | 777  
  | 849  
   | 692   
  | 724  | 819  | 843   | 827  
  | 810  
  | 867   | 801  | 780   | 16583   |   |
| 145         | 176   | 120  
   
   | 147  | 184  
   
   | 165   | 168  | 168   | 134   | 166  
  | 130  
  | 184  
   | 159   
  | 137  | 178  | 153   | 153  
  | 121  
  | 218   | 151  | 172   | 3329  |   |
| 166         | 148   | 66   
   
   | 90   | 122  
   
   | 116   | 124  | 152   | 147   | 84   
  | 108  
  | 217  
   | 112   
  | 147  | 126  | 121   | 72   
  | 74   
  | 129   | 158  | 97  | 2576  |   |
| 746         | 417   | 933  
   
   | 1423   | 947  
   
   | 731   | 720  | 739   | 791   | 772  
  | 730  
  | 689  
   | 771   
  | 634  | 631  | 741   | 826  
  | 781  
  | 814   | 689  | 687   | 16212   |   |
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| 0.0154      | 0.0157  | 0.0177   
   
   | 0.0211   | 0.0160   
   
   | 0.0140  | 0.0167   | 0.0160  | 0.0174  | 0.0204   
  | 0.0250   
  | 0.0163   
   | 0.0150  
  | 0.0137   | 0.0171   | 0.0143  | 0.0196   
  | 0.0184   
  | 0.0145  | 0.0151   | 0.0146  | 0.0164  |   |
| 0.0232      | 0.0267  | 0.0411   
   
   | 0.0324   | 0.0309   
   
   | 0.0280  | 0.0351   | 0.0262  | 0.0280  | 0.0375   
  | 0.0339   
  | 0.0286   
   | 0.0275  
  | 0.0286   | 0.0279   | 0.0273  | 0.0297   
  | 0.0381   
  | 0.0286  | 0.0317   | 0.0298  | 0.0299  |   |
| 0.0385      | 0.0200  | 0.0345   
   
   | 0.0462   | 0.0441   
   
   | 0.0457  | 0.0696   | 0.0519  | 0.0629  | 0.0466   
  | 0.0597   
  | 0.0564   
   | 0.0606  
  | 0.0711   | 0.0552   | 0.0549  | 0.0307   
  | 0.0441   
  | 0.0373  | 0.0425   | 0.0354  | 0.0470  | /   |
| 0.0509      | 0.0459  | 0.0517   
   
   | 0.0514   | 0.0495   
   
   | 0.0496  | 0.0476   | 0.0577  | 0.0543  | 0.0514   
  | 0.0516   
  | 0.0501   
   | 0.0575  
  | 0.0556   | 0.0519   | 0.0496  | 0.0490   
  | 0.0506   
  | 0.0487  | 0.0512   | 0.0515  | 0.0512  |   |
| 0.0472      | 0.0547  | 0.0776   
   
   | 0.0639   | 0.0546   
   
   | 0.0600  | 0.0613   | 0.0596  | 0.0707  | 0.0573   
  | 0.0734   
  | 0.0555   
   | 0.0619  
  | 0.0694   | 0.0573   | 0.0643  | 0.0646   
  | 0.0764   
  | 0.0485  | 0.0638   | 0.0570  | 0.0609  |   |
| 0.0751      | 0.0710  | 0.0889   
   
   | 0.0846   | 0.0742   
   
   | 0.0813  | 0.0720   | 0.0659  | 0.0752  | 0.0721   
  | 0.0796   
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   | 0.0751  
  | 0.0729   | 0.0741   | 0.0740  | 0.0843   
  | 0.0940   
  | 0.0809  | 0.0675   | 0.0651  | 0.0745  |   |
| 0.0848      | 0.1366  | 0.0780   
   
   | 0.0736   | 0.0823   
   
   | 0.0816  | 0.0840   | 0.0802  | 0.0764  | 0.0746   
  | 0.0768   
  | 0.0838   
   | 0.0790  
  | 0.0812   | 0.0813   | 0.0795  | 0.0733   
  | 0.0751   
  | 0.0822  | 0.0840   | 0.0888  | 0.0811  |   |
|             | a,2267   3,4267   6,1140   3,5418   41,8300   6,8444   12,4666   63,2478   223   264   92   145   166   746   0,0154   0,0232   0,0385   0,03751   0,0751 | a,apciona (W-H)       3.4267     3.3916       3.4267     3.6370       3.5467     4.8083       41.3000     27.3194       6.8444     9.6211       12.4666     10.512       63.2470     56.9722       23.3470     56.9722       24.300     2.95       25.3     2.95       26.3     1.6       26.3     1.6       26.3     1.6       27.3     2.16       28.3     1.6       29.3     1.6       20.3     1.6       3.400     1.6       3.401     1.6       3.5     1.6       3.6     1.6       3.7     1.6       3.6     1.6       3.6     1.6       3.6     1.6       3.6     1.6       3.7     1.6       3.6     1.6       3.7     1.6       4.6     1.6       5.7     1.6       6.0 <td>photoa (V-V-V)     Name       3.4367     3.3916     3.2863       3.4367     7.8707     6.9517       3.5410     7.8707     6.9517       3.5430     2.73194     4.1756       4.8030     2.73194     9.3116       6.8444     9.6211     9.3161       12.4660     10.5112     5.8651       6.32470     56.9792     12.7333       23.47     26.9792     12.733       24.48     10.5112     5.8651       24.59     12.4660     10.512       24.50     12.4660     10.512       24.50     12.4660     169       24.50     12.4660     169       24.50     145     169       25.5     169     12.51       26.41     12.61     12.61       145     14.61     12.61       145     14.71     13.21       146     14.71     13.21       147     14.11     14.11       148     14.11     14.11  1</td> <td>photos (K+V)     a.2883     3.2296       3.4307     3.3916     3.2863     3.2296       6.1140     7.8707     6.9517     7.4658       3.5418     4.8083     5.2512     7.0677       41.8300     27.3194     41.1756     39.5101       6.8444     9.6211     9.3119     9.3611       12.4666     10.5112     5.8651     7.6161       63.2478     56.9792     2.7.773     104.722       23.47     265     7.677     104.722       24.46     10.5112     5.8651     7.6161       63.247     265     7.2773     104.722       243     164     152     104.722       253     164     162     153       264     295     169     231       262     240     152     143       264     164     162     143       164     161     143     143       264     10.217     1021       174     0.1264     0.041 <td>ApploadAlsonAlsonAlsonAlsonAlsonAlsonAlson3.4307A,8107A,8408A,2408A,3407A,34073.5410A,8030A,25127,0677A,74983.5410A,2110A,3110A,3401A,34084.8440A,2110A,3117A,3401A,34085.8441A,6211A,3117A,3401A,34086.8444A,6211A,3117A,3401A,34086.8444A,6211A,3117A,3401A,34086.3444A,6211A,3117A,3401A,34086.3444A,611A,410A,410A,4106.3447A,617A,410A,410A,4106.3448A,617A,110A,410A,4107244A,404A,614A,513A,5147244A,410A,120A,120A,1207245A,410A,120A,120A,1207246A,410A,120A,120A,1207245A,410A,120A,120A,1207246A,140A,120A,120A,1207246A,140A,120A,120A,1207246A,140A,120A,120A,1207247A,140A,120A,120A,1207248A,140A,140A,120A,1207349A,140A,140A,140A,1407340A,140A,140A,140A,1407440A,140A,140A,1</td><td>pubolwwww3.42673.39163.28033.22463.39313.44493.1407.87076.95177.48587.63677.80513.54102.80035.25127.06776.74956.85564.13002.73144.17563.961040.96836.85644.83032.73144.17563.961040.96836.85644.84449.62119.31099.368110.03839.904012.466610.5125.86517.61619.04889.433763.247856.979272.77310.47227.96619.650922.316.979212.7733104.7227.96619.650924.415415215315315315325.429516915315315315326.419516215315315315327.424015215315415415326.419579616416416415327.41431201617164164154145143163121164154154146143163122161154164146163163163163164164146163163163163164164146163163163163164164146163163164</td><td>putoesPutoesPutoesPutoes3.42673.39163.28833.22923.39313.44493.41303.14007.87076.95177.63637.63057.23673.54184.80835.25127.06776.74956.85569.67844.130027.319441.17569.51014.049940.958342.23026.84449.2119.31199.386110.3039.904010.304112.466610.51125.86517.61619.04889.43378.931563.247826.979227.773104.7227.964150.650960.511123.4472455.65792.7753104.7227.964150.65060.51124.45816913.114.727.964150.65060.51125.459164153153154104104264164163153154104104274240152153153154164284164164163164164164164295164164164164164164164296169164164164164164164105164164164164164164164105164164164164164164164105164164164164164164164105164</td><td>Note 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   146     14.71     13.21       147     14.11     14.11       148     14.11     14.11  1 | photos (K+V)     a.2883     3.2296       3.4307     3.3916     3.2863     3.2296       6.1140     7.8707     6.9517     7.4658       3.5418     4.8083     5.2512     7.0677       41.8300     27.3194     41.1756     39.5101       6.8444     9.6211     9.3119     9.3611       12.4666     10.5112     5.8651     7.6161       63.2478     56.9792     2.7.773     104.722       23.47     265     7.677     104.722       24.46     10.5112     5.8651     7.6161       63.247     265     7.2773     104.722       243     164     152     104.722       253     164     162     153       264     295     169     231       262     240     152     143       264     164     162     143       164     161     143     143       264     10.217     1021       174     0.1264     0.041 <td>ApploadAlsonAlsonAlsonAlsonAlsonAlsonAlson3.4307A,8107A,8408A,2408A,3407A,34073.5410A,8030A,25127,0677A,74983.5410A,2110A,3110A,3401A,34084.8440A,2110A,3117A,3401A,34085.8441A,6211A,3117A,3401A,34086.8444A,6211A,3117A,3401A,34086.8444A,6211A,3117A,3401A,34086.3444A,6211A,3117A,3401A,34086.3444A,611A,410A,410A,4106.3447A,617A,410A,410A,4106.3448A,617A,110A,410A,4107244A,404A,614A,513A,5147244A,410A,120A,120A,1207245A,410A,120A,120A,1207246A,410A,120A,120A,1207245A,410A,120A,120A,1207246A,140A,120A,120A,1207246A,140A,120A,120A,1207246A,140A,120A,120A,1207247A,140A,120A,120A,1207248A,140A,140A,120A,1207349A,140A,140A,140A,1407340A,140A,140A,140A,1407440A,140A,140A,1</td> 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system&lt;</td><td>subscription     subscription     subscription&lt;</td><td>system     system     system&lt;</td><td>a state     b state     <t< td=""><td>Image11111<!--</td--></td></t<></td></th<></td></th<></td></td></td<></td></thp<></td> | ApploadAlsonAlsonAlsonAlsonAlsonAlsonAlson3.4307A,8107A,8408A,2408A,3407A,34073.5410A,8030A,25127,0677A,74983.5410A,2110A,3110A,3401A,34084.8440A,2110A,3117A,3401A,34085.8441A,6211A,3117A,3401A,34086.8444A,6211A,3117A,3401A,34086.8444A,6211A,3117A,3401A,34086.3444A,6211A,3117A,3401A,34086.3444A,611A,410A,410A,4106.3447A,617A,410A,410A,4106.3448A,617A,110A,410A,4107244A,404A,614A,513A,5147244A,410A,120A,120A,1207245A,410A,120A,120A,1207246A,410A,120A,120A,1207245A,410A,120A,120A,1207246A,140A,120A,120A,1207246A,140A,120A,120A,1207246A,140A,120A,120A,1207247A,140A,120A,120A,1207248A,140A,140A,120A,1207349A,140A,140A,140A,1407340A,140A,140A,140A,1407440A,140A,140A,1 | 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