

Notification of Change to ORCA Single Use

NDP22002-R2.2

This letter is to inform you of upcoming changes to the PCM coolant cassettes which form part of the ORCA Single Use packaging solutions that you purchase from DGP Intelsius.

ORCA Single Use is now qualified for use with 2 to 8°C, 15 to 25°C and -15 to -25°C for all four sizes with foam-based coolants. Qualification testing provided a significant improvement in duration across all sizes, 4L, 11L, 23L & 50L



The new ORCA Single Use cassettes hold PCM in a phenolic foam brick held within a plastic barrier film bag. This method of PCM encapsulation allows for an increased PCM fill across the same surface area, compared to gel bag in boxes and improves melt across brick compared to gel bags by preventing pooling due to gravity as PCM melts. This results in more consistent temperature control in system payload space and prevents bulging.

Intelsius have changed the specifications of the ORCA Single Use cassettes to improve thermal performance and product reliability. The cassettes have also been updated with a temperature probe aperture for improved accuracy and ease of use when validating surface temperatures in the conditioning process.

These new cassettes have their own qualification reports and supersede existing documentation. A summary of the product specification changes is listed below.

ORCA Single-Use 2°C to 8°C						
Size	Old QR Number	Duration	System Mass	New QR Number	Duration	System Mass
4L	QR17004.3	76:40	7.0kg	NDP22002-J002-R1.3	80:30	6.5kg
11L	QR17005.2	99:30	9.5kg	NDP22002-J002-R2.3	104:00	10.6kg
23L	QR17006.2	98:40	17.5kg	NDP22002-J002-R3.3	119:50	15.9kg
50L	QR17007.4	98:20	20.6kg	NDP22002-J002-R4	100:10	21.0kg

ORCA Single-Use 15°C to 25°C						
Size	Old QR Number	Duration	System Mass	New QR Number	Duration	System Mass
4L	QR17008.2	93:10	6.3kg	NDP22002-J002-R5	96:50	6.0kg
11L	QR17009.2	88:00	9.5kg	NDP22002-J002-R6	119:50	9.5kg
23L	QR17010.2	108:10	14.1kg	NDP22002-J002-R7	109:00	12.7kg
50L	QR17011.2	108:10	19.7kg	NDP22002-J002-R8	116:40	19.1kg

ORCA Single-Use -25°C to -15°C						
Size	Old QR Number	Duration	System Mass	New QR Number	Duration	System Mass
4L	N/A	N/A	N/A	NDP21014-J002-R1.1	76:30	8.5kg
11L	N/A	N/A	N/A	NDP21014-J002-R2.1	109:10	13.1kg
23L	N/A	N/A	N/A	NDP21014-J002-R3.1	139:40	20.9kg
50L	N/A	N/A	N/A	NDP21014-J002-R4	94:10	26.2kg

This change is part of a change to all ORCA Single Use systems. We have previously notified of changes to ORCA Single Use 2 to 8°C & -25 to -15°C for 4L, 11L and 23L, which is currently available. You will start to see changes to the ORCA Single Use 2 to 8°C and -25 to -25°C 50L & 15 to 25°C 4L, 11L, 23L & 50L systems in all regions/globally from 1st September 2025.

If you have any questions or comments about these changes, please contact compliance@intelsius.com with "ORCA S Cassettes" in the email subject line.



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