

RIDA®UNITY

Flexibility redefined – unlock your full potential

Complete
system IVDR
compliant!

03/2025



Efficient & fast:
automated processing of maximum number
of samples per run



Safe & intuitive:
seamless monitoring for reliable results



Flexible & universal:
free combination of up to 6 assays per run

More information:



<https://r-bio.io/unity20>

Why settle for less when precision and reliability matter?

Efficiently generate accurate results in molecular diagnostic labs based on cutting-edge PCR technology. The RIDA®UNITY system is a fully automated, highly advanced solution that streamlines your workflows. With sample-in, result-out simplicity, it delivers fast, reliable, and precise results every time - empowering your lab with unmatched efficiency and confidence with maximum walk-away and minimum manual efforts.



- 1 Touch screen monitor for intuitive operation
- 2 Automated nucleic acid extraction of up to 96 samples
- 3 Automated setup of real time PCR with up to 6 different PCR assays
- 4 Automated PCR run with up to 192 reactions
- 5 Automated result interpretation with RIDA®SEEK software

System benefits at a glance



Efficient & fast:

automated processing of maximum number of samples per run

- Fully automated processing of up to 96 extractions and 192 reactions per run
- Time to result 2.5 - 4.5 hours, 2 to 3 runs per workday
- Cross-matrix extraction of both DNA and RNA with ready-to-use reagents
- Full access to eluates allows eluate re-use and storage



Safe & intuitive:

seamless monitoring for reliable results

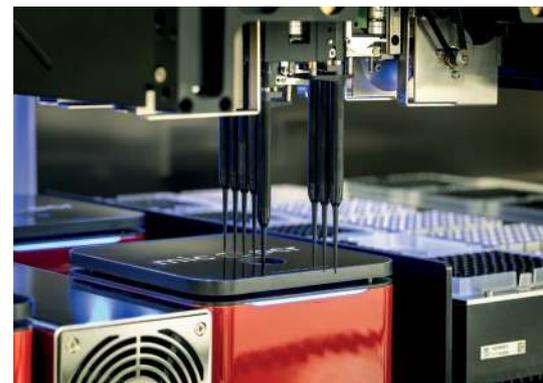
- Consistent barcoding of all reagents and consumables for maximum security and seamless traceability
- Comprehensive sensory system and process controls ensure stable workflows and reliable results
- Graphical software interfaces make the entire system easy to operate



Flexible & universal:

free combination of up to 6 assays per run

- RIDA®UNITY can be used to perform a complete workflow from extraction to PCR, extraction or PCR setup only or the combination of both
- Up to 6 assays of the continuously expanding portfolio can be combined across indications within the same run
- Workflow can be customized with additional external PCR cyclers to meet the needs of your laboratory



Gastrointestinal infections



Viruses

RIDA®UNITY Norovirus I & II

Art. No. UN1415
Norovirus GI (orf1/2 junction)
Norovirus GII (orf1/2 junction)

RIDA®UNITY Viral Stool Panel II

Art. No. UN1325
Rotavirus (NSP3)
Adenovirus (Hexon)
Astrovirus (CAP)

RIDA®UNITY Viral Stool Panel IV¹

(coming soon)
Art. No. UN1345
Norovirus GI/GII (orf1/2 junction)
Enterovirus (5'UTR)
Sapovirus (orf1)

RIDA®UNITY Hospital Stool Panel¹

(coming soon)
Art. No. UN0705
Norovirus GI/GII (orf1/2 junction)
Rotavirus (NSP3)
C. difficile Toxin A/B (tcdA/tcdB)

Bacteria

RIDA®UNITY *C. difficile*¹

Art. No. UN0835
C. difficile (16S rRNA)
C. difficile Toxin A/B (tcdA/tcdB)

RIDA®UNITY Bacterial Stool Panel

Art. No. UN2405
Campylobacter spp. (16S rRNA)
Salmonella spp. (ttr)
Yersinia enterocolitica (ystA/ystB)

RIDA®UNITY EHEC/EPEC²

Art. No. UN2205
EHEC (eae, stx1/stx2)
EPEC (eae)
STEC (stx1/stx2)
EIEC/*Shigella* spp. (ipaH)

RIDA®UNITY *E. coli* Stool Panel I^{1,2}

(coming soon)
Art. No. UN2285
Shiga Toxin 1 (stx1)
Shiga Toxin 2 (stx2)
EPEC (eae)

RIDA®UNITY *E. coli* Stool Panel III^{1,2}

(coming soon)
Art. No. UN2265
ETEC (LT/ST)
EIEC/*Shigella* spp. (ipaH)
EAEC (aat/aggR)

Parasites

RIDA®UNITY Parasitic Stool Panel II

Art. No. UN1725
Cryptosporidium spp. (ITS1-18S)
Entamoeba histolytica (ITS1-18S)
Giardia lamblia (ITS1-18S)

Benefits of the RIDA®UNITY assays for you:



Reuse of reagents
and eluates



Up to 6 different assays can
be combined in one run

Respiratory infections



Viruses

RIDA®UNITY Flu

Art. No. UN0505
Influenza A (M-Protein)
Influenza B (NP-Gen)

RIDA®UNITY Parainfluenza

Art. No. UN5805
Parainfluenza 1 (HN-Gen)
Parainfluenza 2/4 (HN-Gen)
Parainfluenza 3 (HN-Gen)

RIDA®UNITY RSV & hMPV

Art. No. UN5905
RSV A/B (F-Gen)
hMPV A/B (F-Glycoprotein)

RIDA®UNITY Flu & RSV¹

(coming soon)
Art. No. UN0545
Influenza A (M-Protein)
Influenza B (NP-Gen)
RSV A/B (F-Gen)

RIDA®UNITY SARS-CoV-2 DT¹

(coming soon)
Art. No. UN6810
SARS-CoV-2 (rdrp, E-Gen)

Bacteria

RIDA®UNITY CAP Bac

Art. No. UN2705
Chlamydomphila pneumoniae
(16s rRNA)
Legionella pneumophila
(16s rRNA)
Mycoplasma pneumoniae (IGS)

RIDA®UNITY Bordetella¹

(coming soon)
Art. No. UN2505
Bordetella pertussis (IS481)
Bordetella parapertussis (IS1001)
Bordetella holmesii (IS1001)

¹ Fully automated workflow with RIDA®UNITY, as well as manual processing with MagNA Pure96 + LightCycler®480 II/ CFX Opus 96 Dx validated.

² RIDA®UNITY E. coli assays – additionally validated for detection from culture samples



Requirement-specific
sample processing
possible



Ready-to-use
reagents



Extraction

RIDA®UNITY Universal Extraction Kit

Art. No. UN0001

Product key facts

- ✓ Suitable for extraction of both DNA and RNA
- ✓ Purification is based on the efficient and proven magnetic beads technology. It can be processed with up to 96 samples
- ✓ Opened kits can be re-used and combined with new kits
- ✓ Combination with the RIDA®UNITY Internal Control kit offers a universal process control from extraction to amplification



The RIDA®UNITY cartridge and magnetic beads



The extraction of up to 96 samples is processed fully automatically

Kit	Detection	Matrices				
		Stool	Nasal/throat swabs	Nasopharyngeal swabs	BAL	Cultures
RIDA®UNITY Universal Extraction kit	DNA/RNA	•	•	•	•	•

Matrices that can be processed with the RIDA®UNITY Universal Extraction kit

RIDA®UNITY Internal Control

Art. No. UN0010

Product key facts

- ✓ The RIDA®UNITY Internal Control kit is universally usable for all available DNA and RNA RIDA®UNITY assays
- ✓ The RIDA®UNITY Internal Control kit can be processed with up to 6 x 96 samples
- ✓ Opened kits can be re-used and combined with new kits
- ✓ Combination with the RIDA®UNITY Universal Extraction offers a universal process control from extraction to amplification



The RIDA®UNITY Internal control kit is universal for all RIDA®UNITY Assays

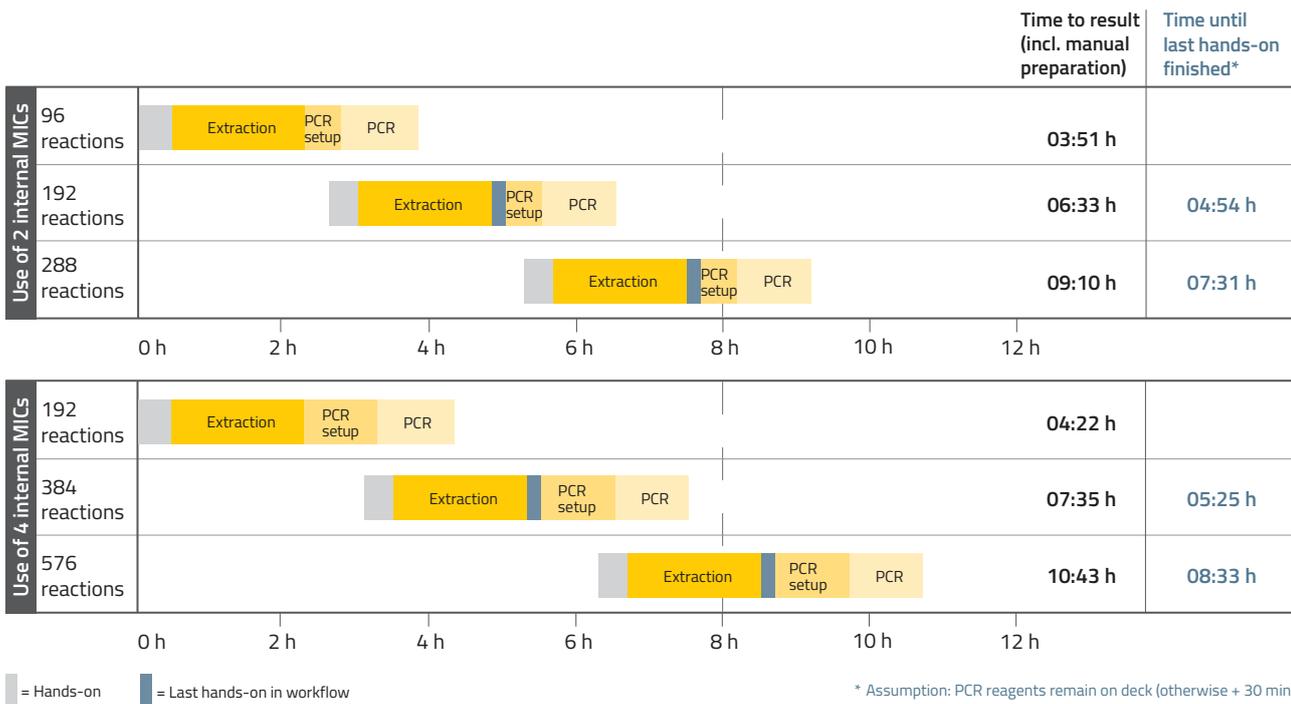


The RIDA®UNITY Internal control kit is combined with the RIDA®UNITY Universal Extraction kit

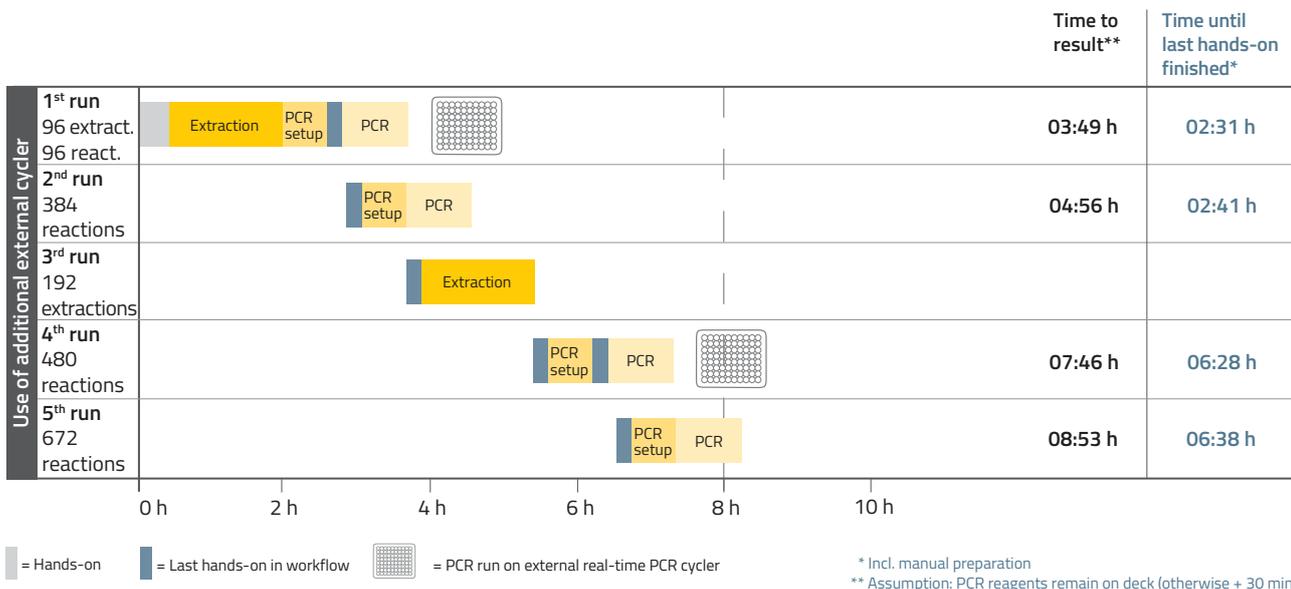


RIDA®UNITY workflows

Depending on the workload RIDA®UNITY allows you to process up to 3 runs or up to 384 reactions in one working day. Start processing the next samples while your PCR is still running.



With the addition of an external real-time PCR cycycler (i.e. Bio-Rad CFX 96 Dx or CFX Opus 96), the RIDA®UNITY system further expands result capacity. This option is fully validated, too.



RIDA[®]UNITY software

The RIDA[®]UNITY Software user interphase is designed for easy and intuitive operation of the RIDA[®]UNITY System. It controls the entire process, eliminating the need of using different software types for the individual steps.



Selecting the run you need

- The user-friendly interface makes it easy to set up a run
- Run can cover the complete workflow from Extraction to PCR, Extraction or PCR setup only or the combination of both



Loading consumables and samples

- Software and instrument's integrated LEDs guide the user while loading the system
- Sample tubes loaded into the carriers (primary tubes possible) are automatically read by the system



Confirming or adjusting sample requests

- Sample requests are loaded into the system via the bidirectional connection to the laboratory information system
- Depending on the user's access rights, sample requests can be edited easily

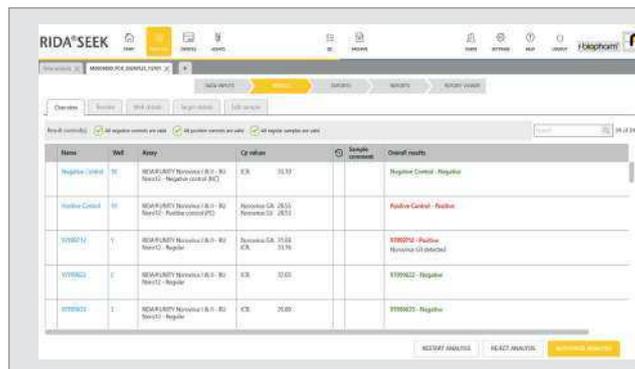


Loading of cyclers

- The software optimizes allocation of available cycler capacity
- The software shows exactly where which PCR assays will be run
- Assays can be deselected if necessary

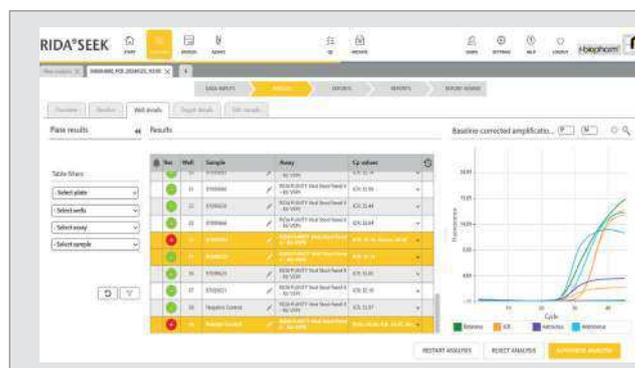
Automated result interpretation software RIDA®SEEK

Using the automated RIDA®SEEK software, the analysis and interpretation of PCR results is safe and reliable. The RIDA®SEEK software is included in the RIDA®UNITY system and might also be used for evaluation of manual RIDA®GENE assays.



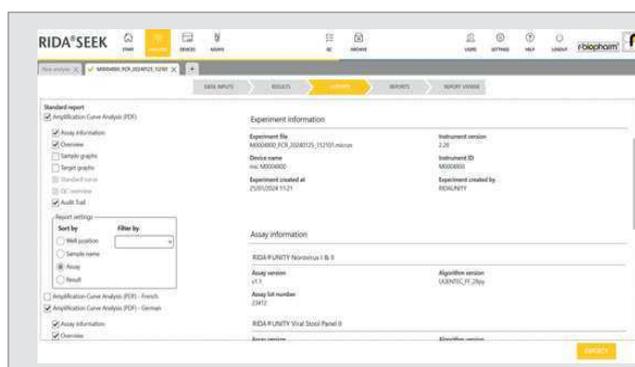
Results overview at a glance

- Run overview shows whether a run is valid based on the controls carried along
- Qualitative sample results are listed for all samples



Amplification curves can be viewed and confirmed

- Sample results for all channels can be viewed individually or together for selected/ filtered wells
- Results can be authorized



Authorized results are released

- Results authorized by the RIDA®SEEK analysis will be transferred to the laboratory information system
- Report can be defined according to laboratory needs
- To increase data security, the results are also stored on a local server

RIDA[®]UNITY service & support



We work with you to create your optimum workflow configuration through individual analysis of your specific requirements. Our qualified staff provides comprehensive after-sales services.

- Professional installation and on-site commissioning assistance
- In-depth training and education on using the system provided by our application specialists to ensure an optimal user experience
- Device qualification based on IQ/OQ
- Consultation and support in connecting to the laboratory infrastructure
- Reliable support for your laboratory routine

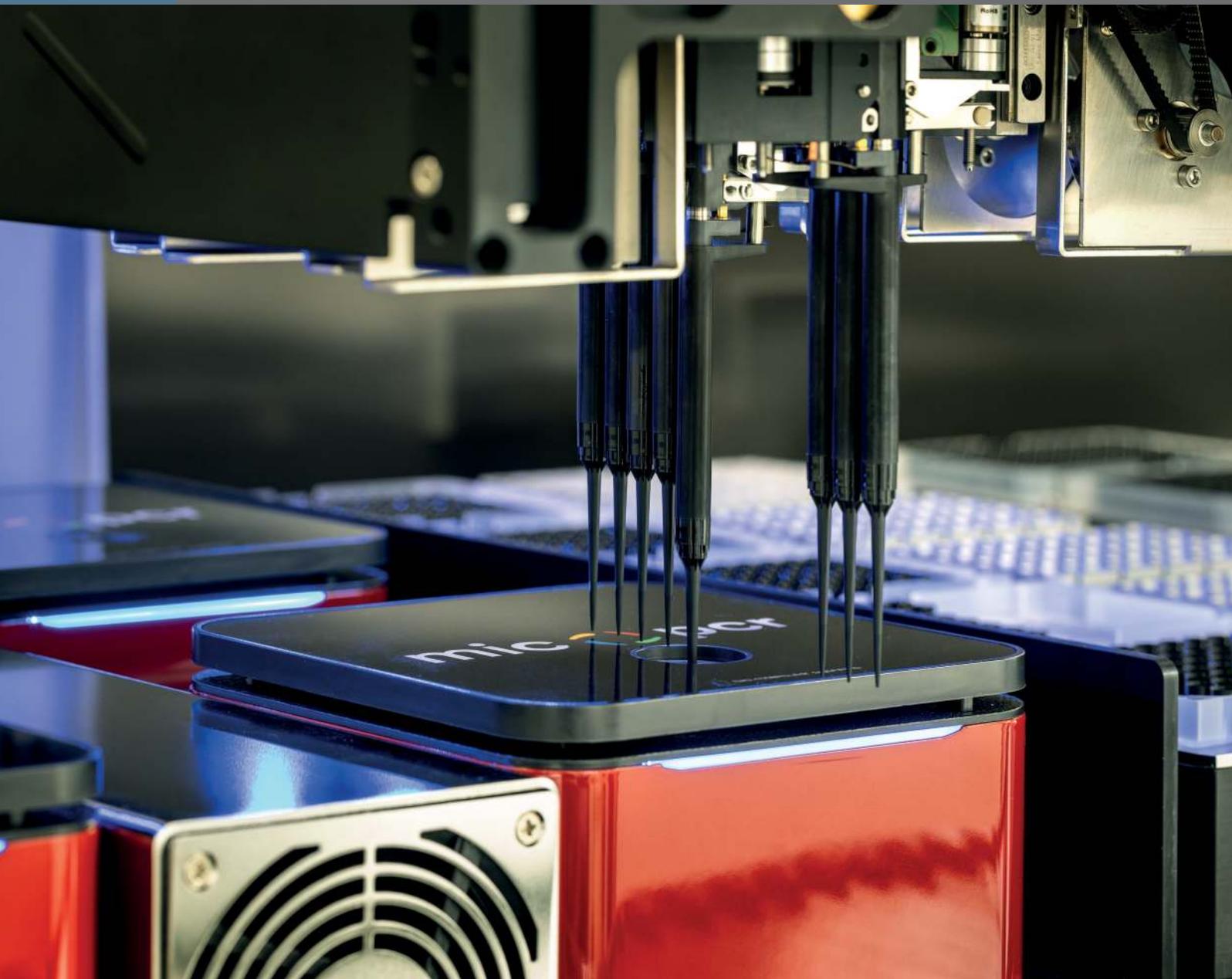


RIDA®UNITY device specifications



Technical data	
Dimensions (W x D x H)	1664 x 795 x 903 mm
Weight	170 kg
Sample throughput	96 reactions/run 192 reactions/run
Samples per day	Up to 288 samples Up to 384 reactions
Sample volume	200 µL
Reagent capacity	Up to 6 PCR tests parallel
LIS connectivity	Bidirectional CLSI LIS01 - A2 CLSI LIS02 - A2

Ambient conditions	
Ambient temperature	15 - 30 °C
Relative humidity	15 - 85 % (no condensation)



Contact us for more information:
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