

Chillventa Specialist Forums 2024

Chillventa Fachforen 2024

**CONNECTING
EXPERTS.**



CHILLVENTA

CAREL Applica

the installer's tool to improve
field-operations

REFRIGERANTS

DIGITALISATION

ENERGY

PERFORMANCE



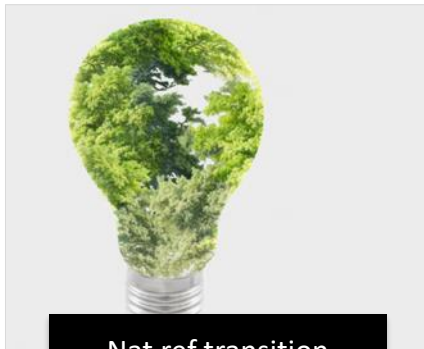
DRIVEN BY
THE FUTURE

Giovanni Carli
10/10/2024

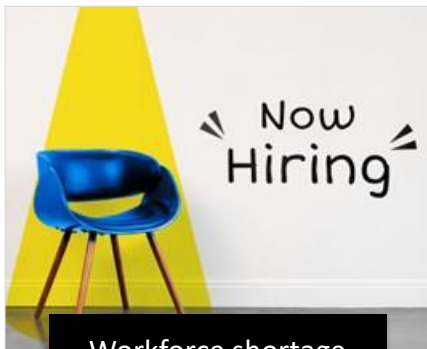
A challenging environment



Regulation



Nat ref transition



Workforce shortage



Technical skill shortage

What does this mean for HVAC / Refrigeration operators?



Higher technical complexity



New skills to acquire



Time is key!

The new resource: digitalization

HVAC/R operator's daily tasks



Commissioning



Service & maintenance



APPLICA



Digitalization is the new tool that simplifies HVAC / refrigeration operators' work, helping:

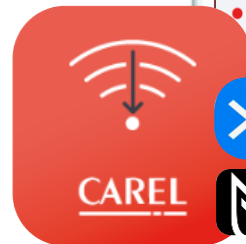
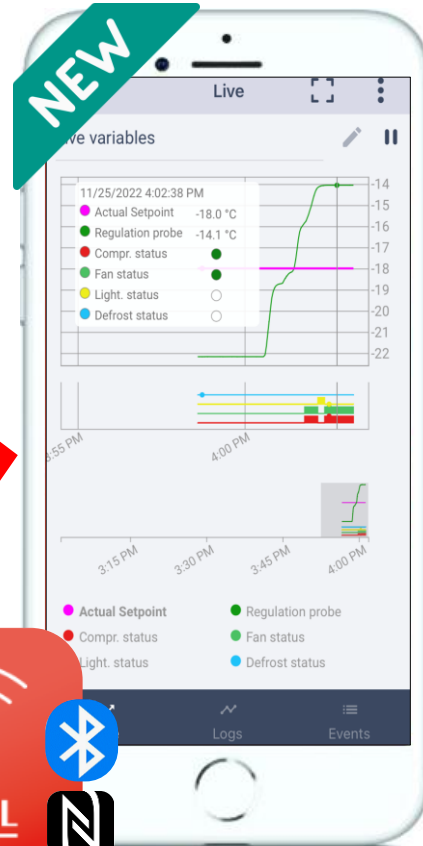
- **prevent errors** in unit configuration
- **save time** in the field



High usability interface



NEW



Applica

Smartphone app for HVAC / refrigeration operators working with CAREL electronic controllers that allows simplified configuration and maintenance



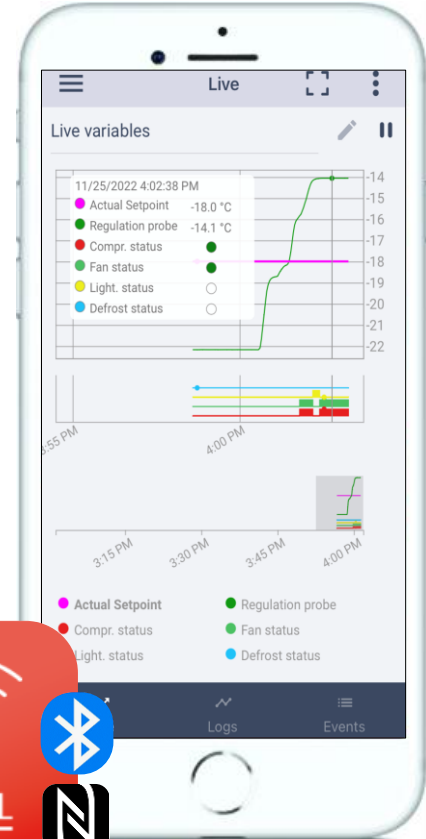
Higher usability



More features



More information



Applica

iJ – Refrigeration



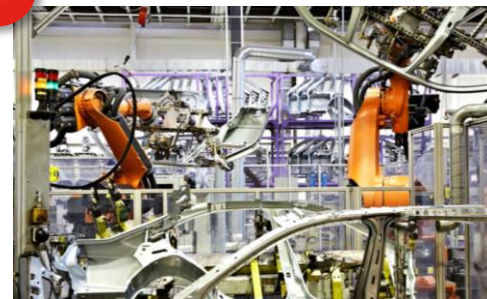
MPX zero & one – Food retail



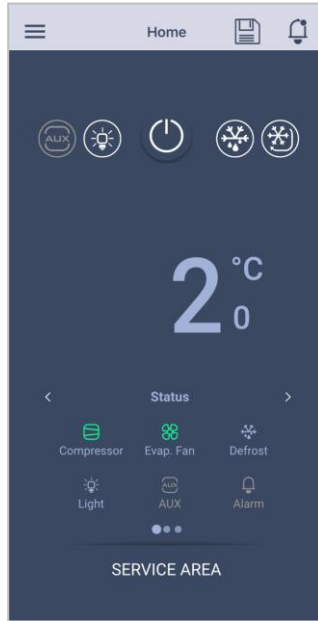
μRack – Condensing units



μChiller – Chillers



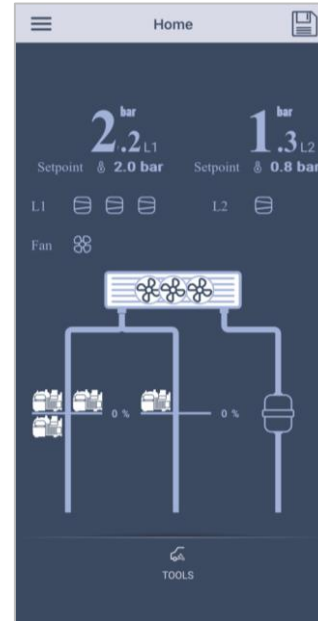
Applica



iJW – Refrigeration



MPX zero & one – Food retail



μRack – Condensing units



μChiller – Chillers



iJW, dedicated to ref. operators



*Synergy with APPLICA allows **faster configuration & maintenance in refrigeration applications***

Quick configuration



OLD



NEW

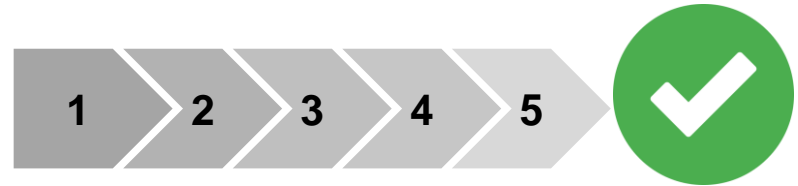


Quick configuration

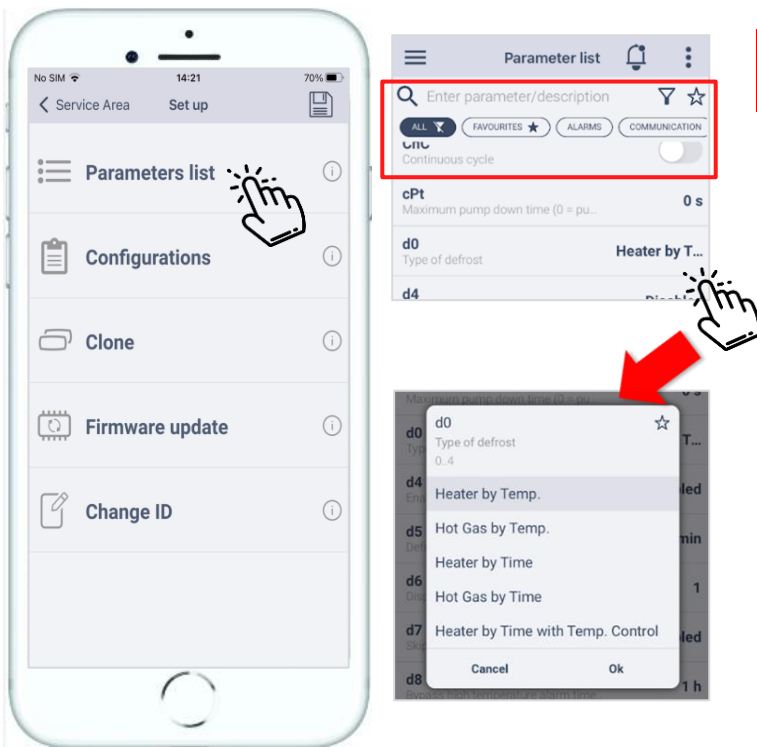


5-STEP CONFIGURATION WIZARD

- Complete unit configuration by answering 5 simple questions
- Exportable wiring diagrams
- Exportable configuration files



Simplified parameter access



PARAMETER LIST

- Full parameter list with **simplified description**
- **Search** by: parameter code, description
- **Category filters** (compressor, alarms, defrost, connectivity, etc.)
- Customisable **favourite parameter list**
- Programming **menu with simplified description**

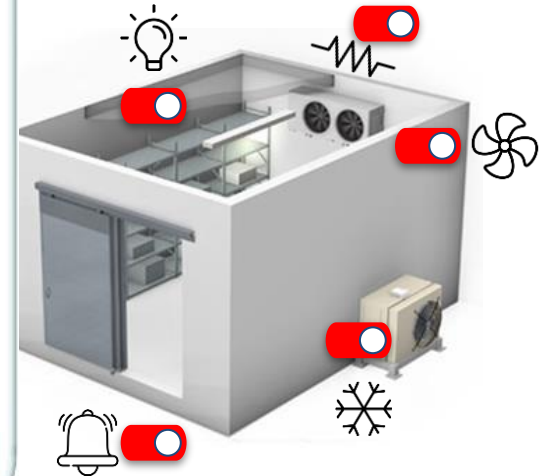
Error prevention

LOADS TEST MODE

- **Test connected loads outside of the regulation logic** to detect malfunctioning during commissioning or maintenance
- Once the test is completed, re-set «AUTO» mode to recover the regulation (**10 minutes automatic recovery timeout** for safety)



Manual loads turn on and turn off



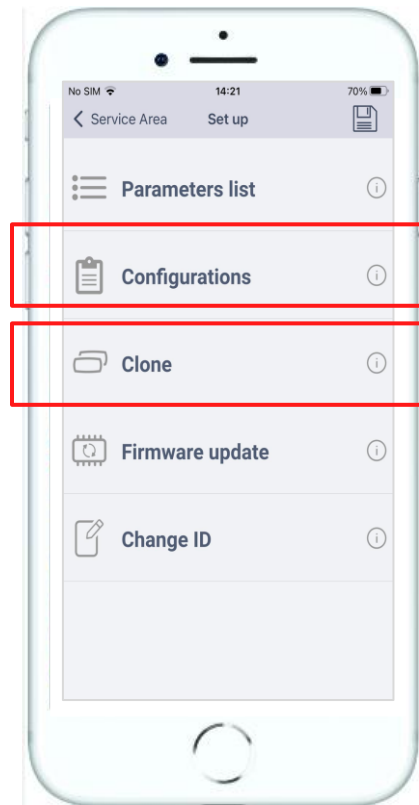
Smart configuration management

CONFIGURATION SET UP

- **Copy & paste configuration** to quickly configure multiple units with the same parameters
- **Local configuration storage** for backup
- **Device cloning** to generate an exact copy of the device (including logs)
- **Configuration comparison**



Configurations are stored locally on the smartphone



Simplified maintenance



OLD



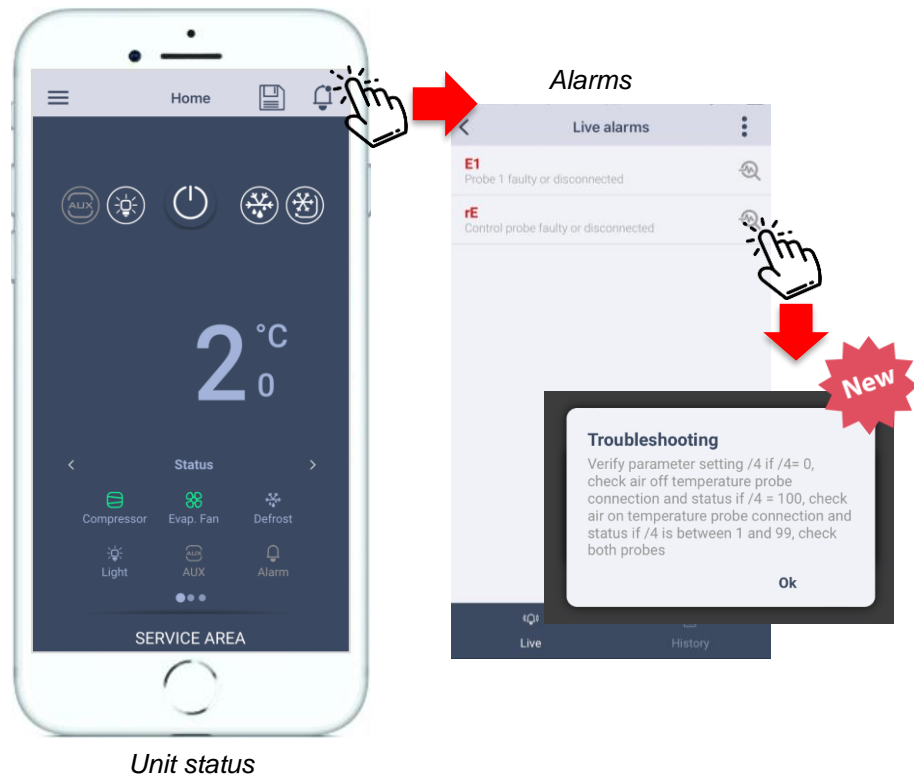
NEW



Guided troubleshooting

UNIT STATUS & ALARMS

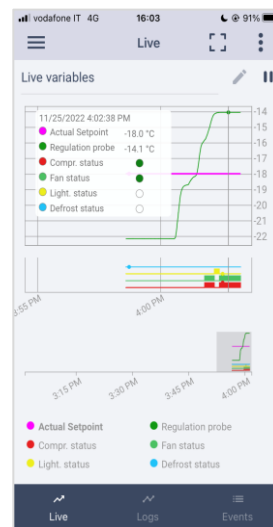
- Access to unit status:
 - Probe readings with UoM
 - Load status (on, off)
 - Direct functions (continuous cycle, defrost, light, aux, unit on/off)
- Alarms
- Alarm log (description, time, date)
- Alarm troubleshooting (new 1.4.0)



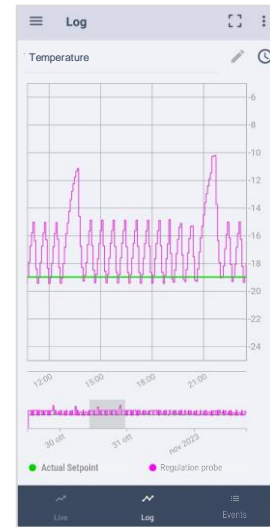
More in-depth information

DATA LOG & TRENDS

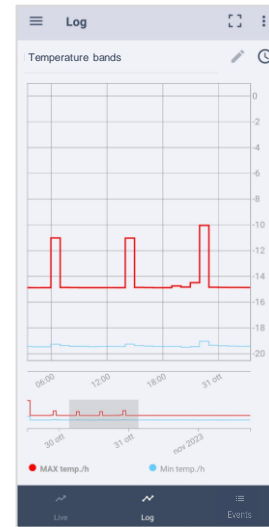
- Live variables (measured temperatures, outputs on/off, etc.)
- Data logs (sampling interval 1 datum/hour)
 - Temperature and set point over time (sampling interval 5 min)
 - Max & min temperature bands
 - Compressor logs [ON minutes/hour, starts/hour]
- Export and share (.xls)



Live variables



Temperature trend



Min-max temperatures

Key benefits of Applica



1. Provides the right **information** at the right time



2. **Prevents errors** in installation and configuration



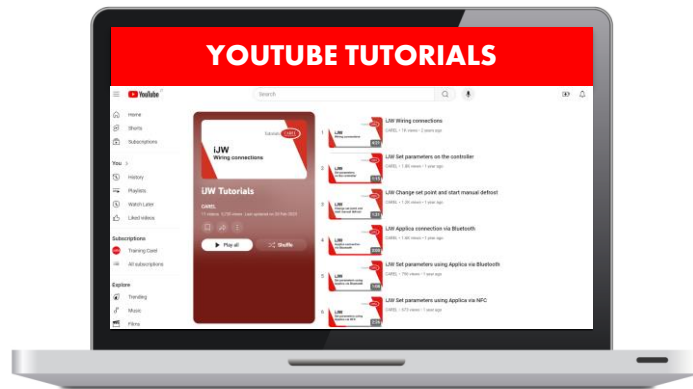
3. **Saves time** for first installation and maintenance

Education



Free learning portal to boost your technical skill and prepare for the next intervention

**Register for
free!**



Free video tutorials on CAREL Youtube channel to solve issues on field

**Scan for more
information**



Q&A and more information

CHILLVENTA

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Nuremberg 8 – 10.10.2024



WE ARE PART OF IT

Visit us
Hall 5 stand 304-306

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