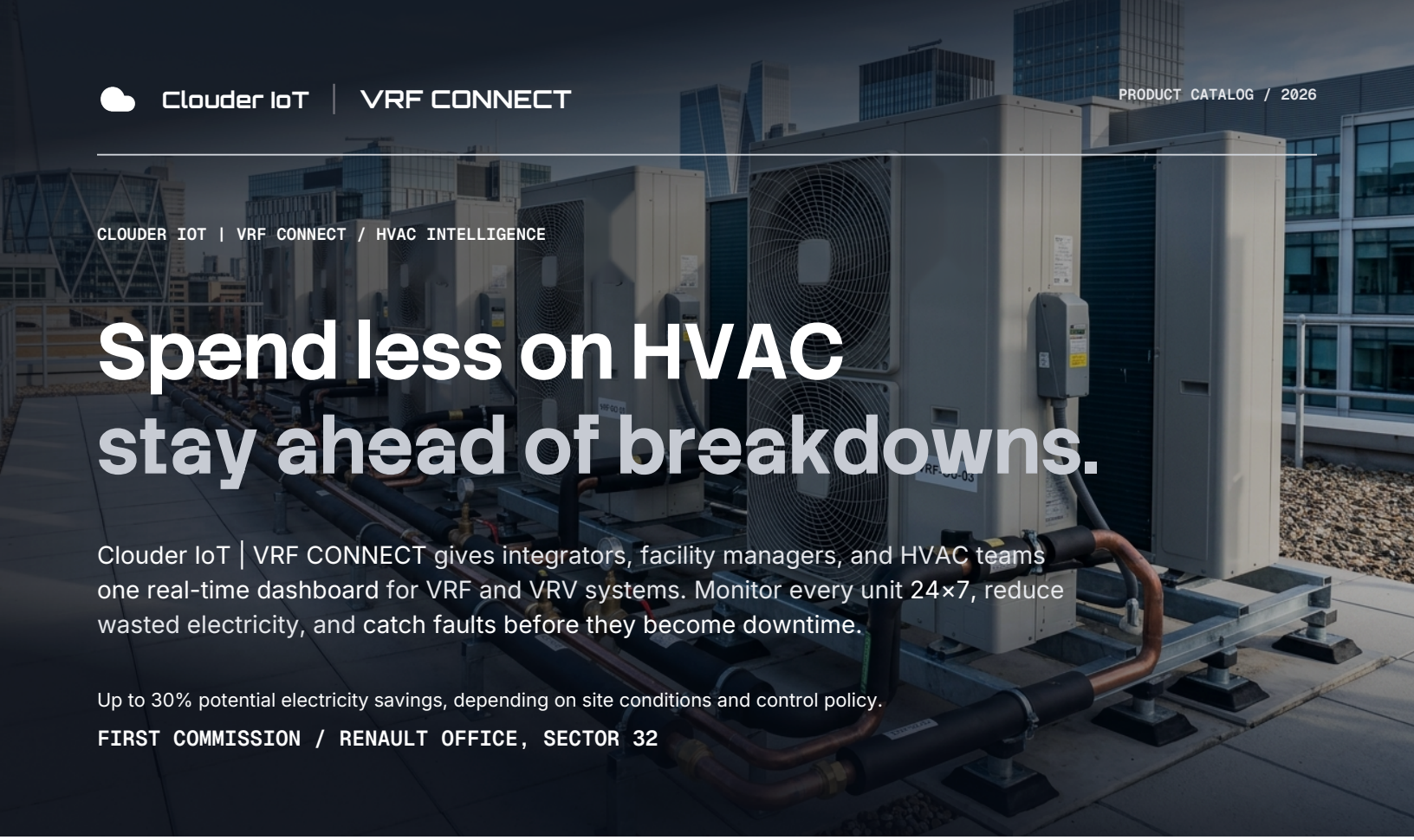


CLOUDER IOT | VRF CONNECT / HVAC INTELLIGENCE

Spend less on HVAC stay ahead of breakdowns.

Clouder IoT | VRF CONNECT gives integrators, facility managers, and HVAC teams one real-time dashboard for VRF and VRV systems. Monitor every unit 24×7, reduce wasted electricity, and catch faults before they become downtime.

Up to 30% potential electricity savings, depending on site conditions and control policy.

FIRST COMMISSION / RENAULT OFFICE, SECTOR 32

Core features

SIX ACTIVE

01 Continuous AI Monitoring

Continuous remote AI monitoring catches faults before they occur, drastically reducing failure rates, preventing breakdowns, and cutting downtime.

02 Smart Maintenance Reminders

Receive automatic notifications when air filters need changing, coils require cleaning, or scheduled service intervals are reached.

03 Automatic Scheduling

HVAC accounts for up to 70% of total electricity bills. Smart scheduling winds down vacant zones and prevents unnecessary AC runtime.

04 Plain-English Error Alerts

Get SMS and email alerts when unexpected parameters appear, translated by AI into simple, clear repair instructions.

05 Weather-Adaptive Controls

Automatically adjust setpoints and operation modes based on weather forecasts, outdoor temperatures, and utility rates to optimize efficiency.

06 Increased Machine Lifespan

Fixing faults early and maintaining fail-safe safety boundaries protects compressors from strain, significantly increasing VRF machine lifespan.

EVERY SCREEN IN THIS CATALOG APPEARS ONCE.

02 / ENHANCE CUSTOMER SERVICE

CLOUD STORAGE / CENTRAL MONITORING

Give every customer a clearer answer.

Cloud storage and central monitoring through a dashboard on laptop or mobile keep every indoor and outdoor unit visible in one operating view.

Use the signals that explain system health, not just the room temperature.

- COMPRESSOR CURRENT
- EVAPORATING TEMPERATURE
- CONDENSING TEMPERATURE
- AMBIENT TEMPERATURE
- REFRIGERANT PRESSURE
- FILTER STATUS
- EEV VALUE
- SUCTION TEMPERATURE
- LIQUID TEMPERATURE
- GAS TEMPERATURE

FIRST COMMISSION /
RENAULT OFFICE, SECTOR 32

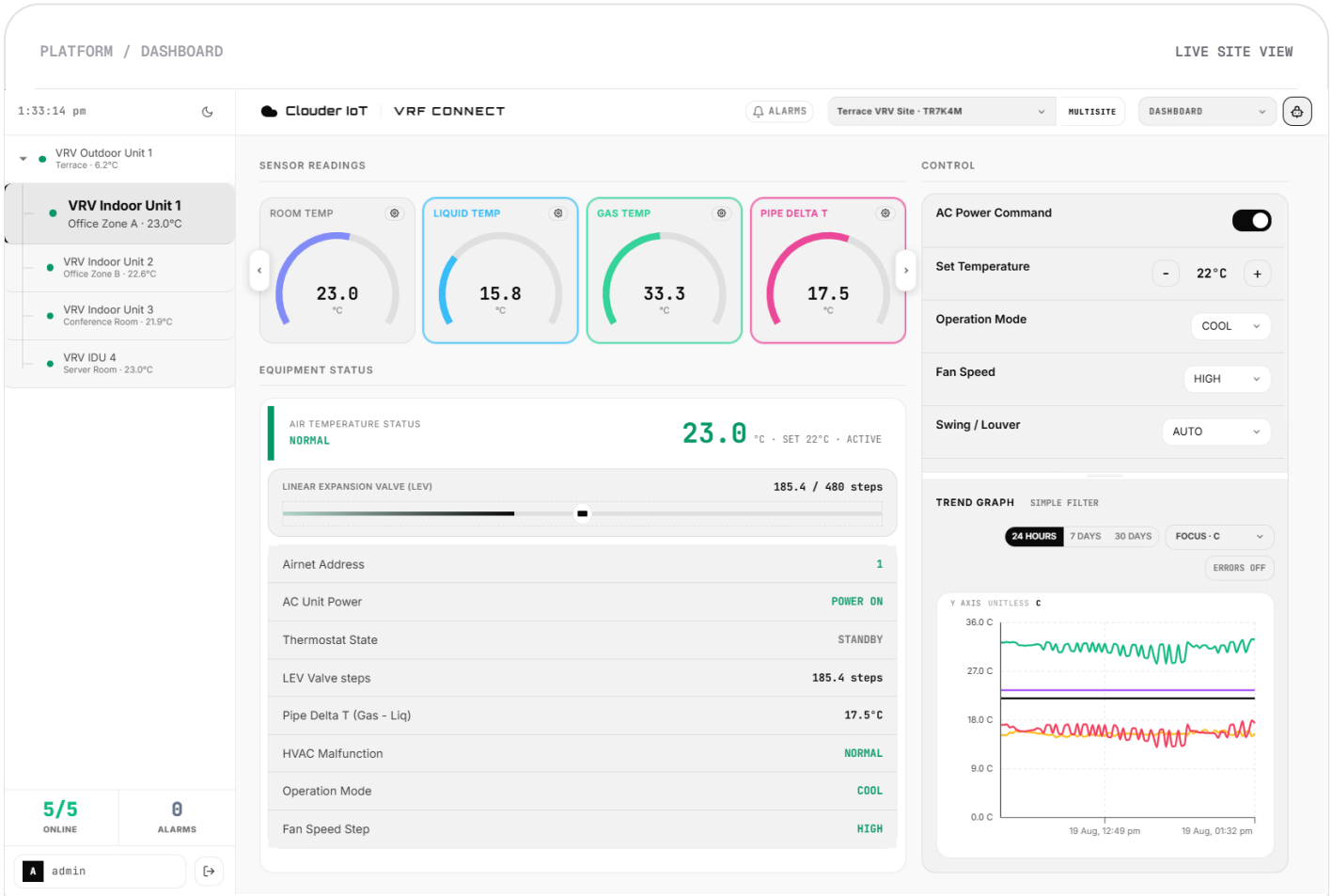
BETTER SERVICE STARTS WITH BETTER CONTEXT

Increase VRF machine lifespan by fixing faults before they occur. Lower failure rates, prevent breakdown probability, and reduce downtime.

03 / PLATFORM / TELEMETRY

See the whole site.

One real-time dashboard keeps indoor and outdoor units, room temperatures, controls, and recent trends together for 24×7 monitoring from a laptop or mobile device.



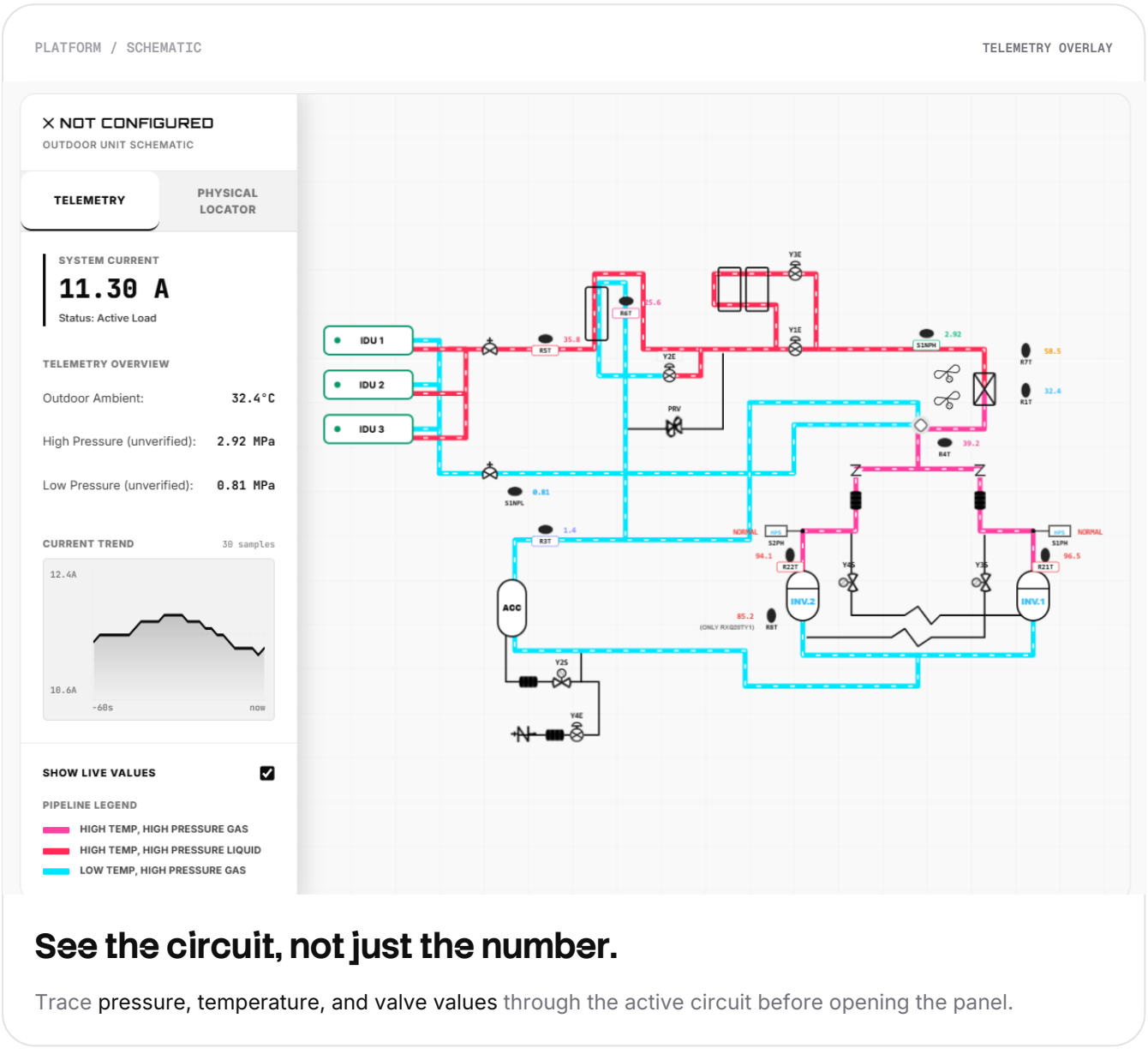
One operating surface.

Read the site, select a unit, compare the trend, and make an approved change from the same place.

04 / PLATFORM / FIELD CONTEXT

See the circuit the way a technician does.

The live schematic explains the circuit. Start with the whole system, then use the physical locator to find the same point on the outdoor unit.



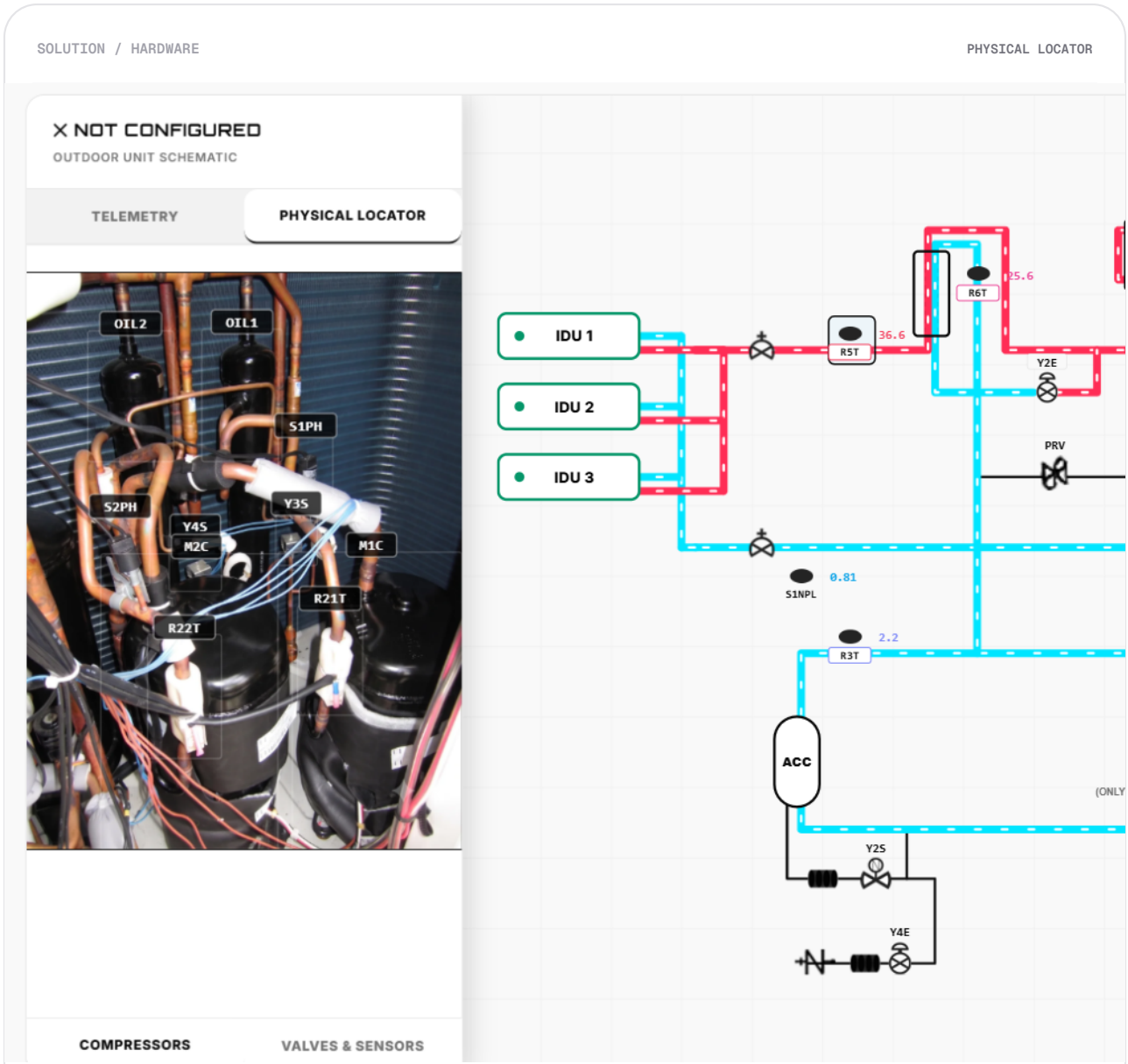
See the circuit, not just the number.

Trace pressure, temperature, and valve values through the active circuit before opening the panel.

05 / CONNECT THE SCREEN TO THE MACHINE

Save on repairs.

The physical locator pairs the drawing with a photo of the equipment, so a technician can move from a live value to the physical component without guesswork.



See the machine too.

Compare the diagram with the physical unit and find the marked sensor, valve, or compressor before the work begins.

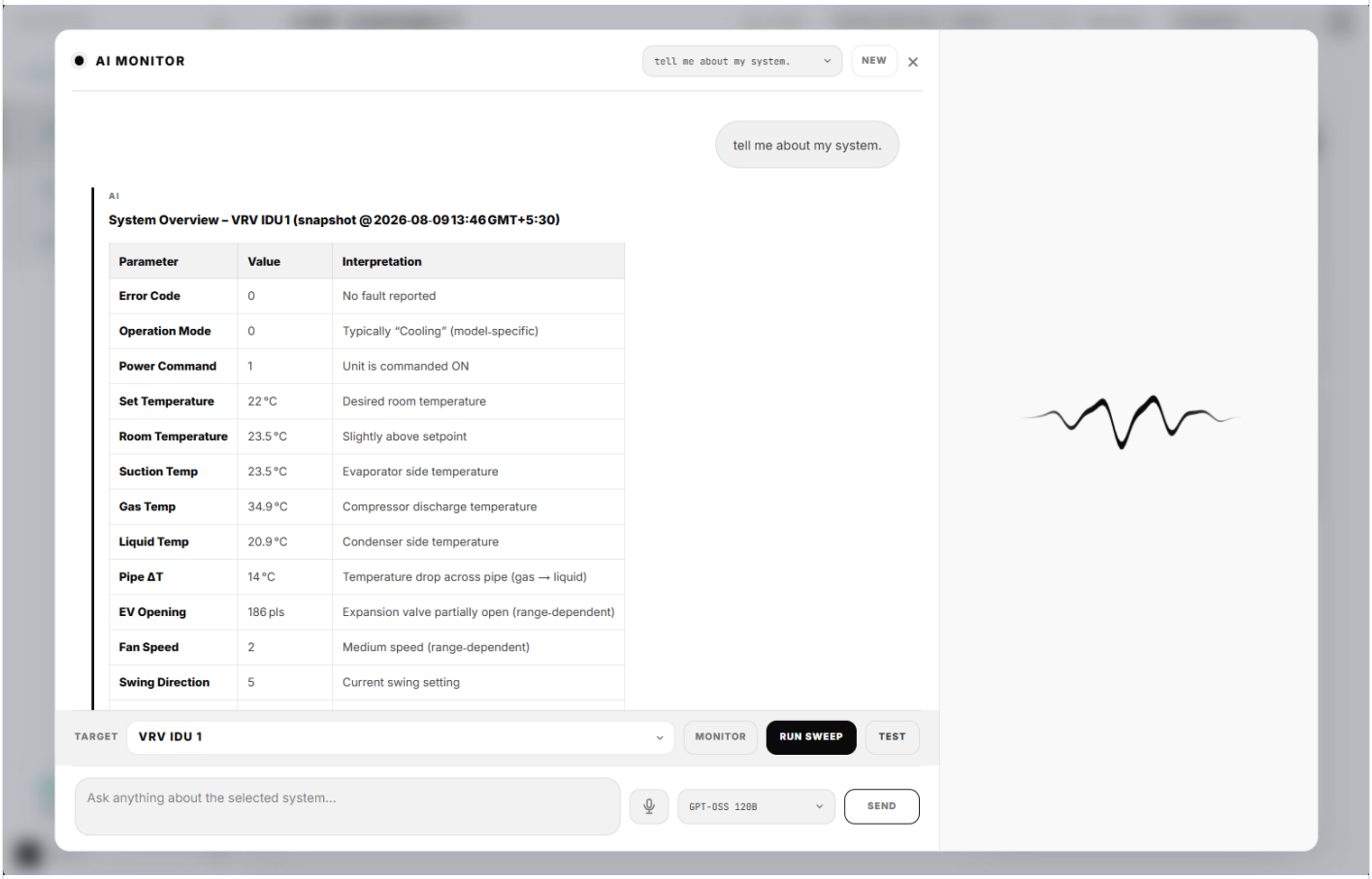
06 / AI, IN ONE SPECIFIC PLACE

Our AI predicts faults.
Before they happen.

Increase the lifespan of VRF machines by fixing faults before they occur. Continuous AI monitoring drastically reduces failure rates, prevents breakdown probability, and minimizes costly system downtime.

AI / LIVE MONITOR

LIVE DATA ATTACHED



A check without the extra digging.

The answer uses the selected unit's live operating snapshot, not a blank chat window.

07 / CONTROL / REGISTERS

Monitor the settings that matter.

CONTROL / REGISTERS

SCOPED ACCESS

Search by name, address...

ALL HR IR COILS DI

DAYS FOCUS · C ERRORS OFF

ADDRESS / ID	REGISTER NAME	VALUE	ACTIONS
PARAM 01	VRV Machine Type Code (IR)	VRV4S1	READ-ONLY
PARAM 02	Airnet Address (IR)	1	READ-ONLY
PARAM 03	VRV Machine Capacity (HP) (IR)	12 HP	READ-ONLY
PARAM 04	Compressor Load Current (IR)	9.5 A	READ-ONLY
PARAM 05	Evaporating Temperature (IR)	6.9 °C	READ-ONLY
PARAM 06	Condensing Temperature (IR)	51.8 °C	READ-ONLY
PARAM 07	System Malfunction Code (IR)	NORMAL (0)	READ-ONLY
PARAM 08	System Status Bitfields (IR)	—	READ-ONLY
PARAM 09	Demand State (IR)	—	READ-ONLY
PARAM 10	Operation Control Mode (IR)	—	READ-ONLY
PARAM 11	Total System Thermostat Capacity (IR)	— %	READ-ONLY
PARAM 12	Outdoor Power Consumption (IR)	— kW	READ-ONLY

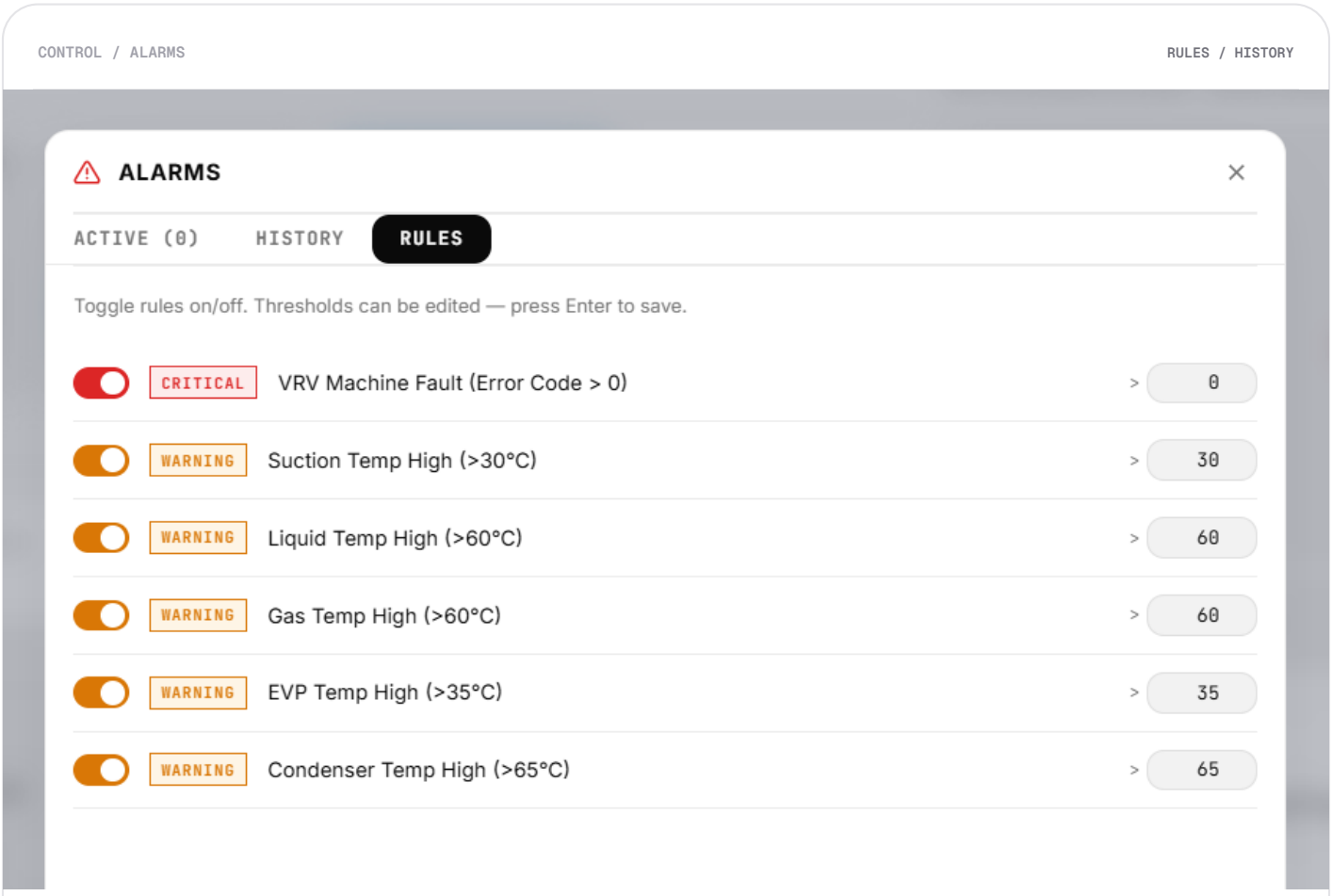
Monitor and control any approved parameter.

Room temperatures, surrounding rooms, setpoints, power, current, pressure, evaporating and condensing temperatures, valve position, alarms, trends, occupancy signals, and energy use can be brought into one operating view.

08 / CONTROL / ALARMS

Turn signals into alarms.
Rules that react early.

Set thresholds and custom automations that trigger alarms when a VRF/VRV parameter moves outside its expected range. Review active events, history, and the rule that caused each alert.



Build alarms around the site.

Set critical and warning thresholds for temperatures, pressure, compressor faults, and other signals. Rules can notify the team, trigger an approved automation, and leave an event history for follow-up.

09 / THE TOOLS AROUND THE SITE

REPORTS / LOGS / TERMINAL / AUTOMATION

Keep the work in one place.

Clouder IoT brings the tools around the live system into one operating surface, so teams can move from a reading to a decision without switching context.

REPORTS

Export maintenance records and clear client handoffs.

LOGS

Review commands, alarms, and activity when the reason matters.

TERMINAL

Use deeper diagnostic tools when a site needs a closer check.

CUSTOM AUTOMATIONS

Build schedules, occupancy rules, weather responses, and alerts.

AI-ASSISTED AUTOMATION

The AI can help create a rule, explain it, and leave approval with the team.

ONE OPERATING SURFACE / MANY WAYS TO ACT

TOOLS THAT STAY CLOSE TO THE MACHINE

Read, reason, automate, and leave a verified record.

10 / WHAT THE PLATFORM CAN SEE

Every useful signal.
One clearer picture.

Exact availability depends on the equipment and sensors connected at each site. Signals can include compressor current, evaporating and condensing temperatures, ambient temperature, refrigerant pressure, filter status, EEV position, and liquid, suction, and gas temperatures.

- Room temperatures
- Surrounding room temperatures
- Outdoor temperature
- Setpoints
- Operation mode
- Fan speed
- Power state
- Compressor current
- Pressure
- Evaporating temperature
- Condensing temperature
- Ambient temperature
- Filter status
- Liquid and gas temperatures
- Suction temperature
- Pipe delta T
- Valve position
- EEV opening
- Airnet address
- Unit capacity
- Demand and thermostat state
- Error and malfunction codes
- Outdoor power
- Cooling capacity
- Alarms and trends
- Occupancy signals
- Energy use

11 / FREQUENTLY ASKED QUESTIONS

Frequently asked questions.

How does VRF CONNECT save up to 30% on bills?

HVAC is the main guzzler of electricity, accounting for up to 70% of total commercial power bills. VRF CONNECT centrally manages setpoints, enforces weather-adaptive rules, and automates occupancy schedules to eliminate wasted cooling during vacant hours.

How does remote AI monitoring prevent breakdowns?

Continuous measuring of compressor current, evaporating and condensing temperatures, refrigerant pressure, and EEV values detects sensor drift and refrigerant restrictions before cutouts occur, avoiding emergency shutdowns.

How does early fault detection extend equipment life?

Fixing faults before they escalate and enforcing fail-safe safety boundaries protects compressors, coils, and valves from avoidable strain, significantly increasing the operating lifespan of VRF/VRV machines.

Can our team manage all indoor and outdoor units remotely?

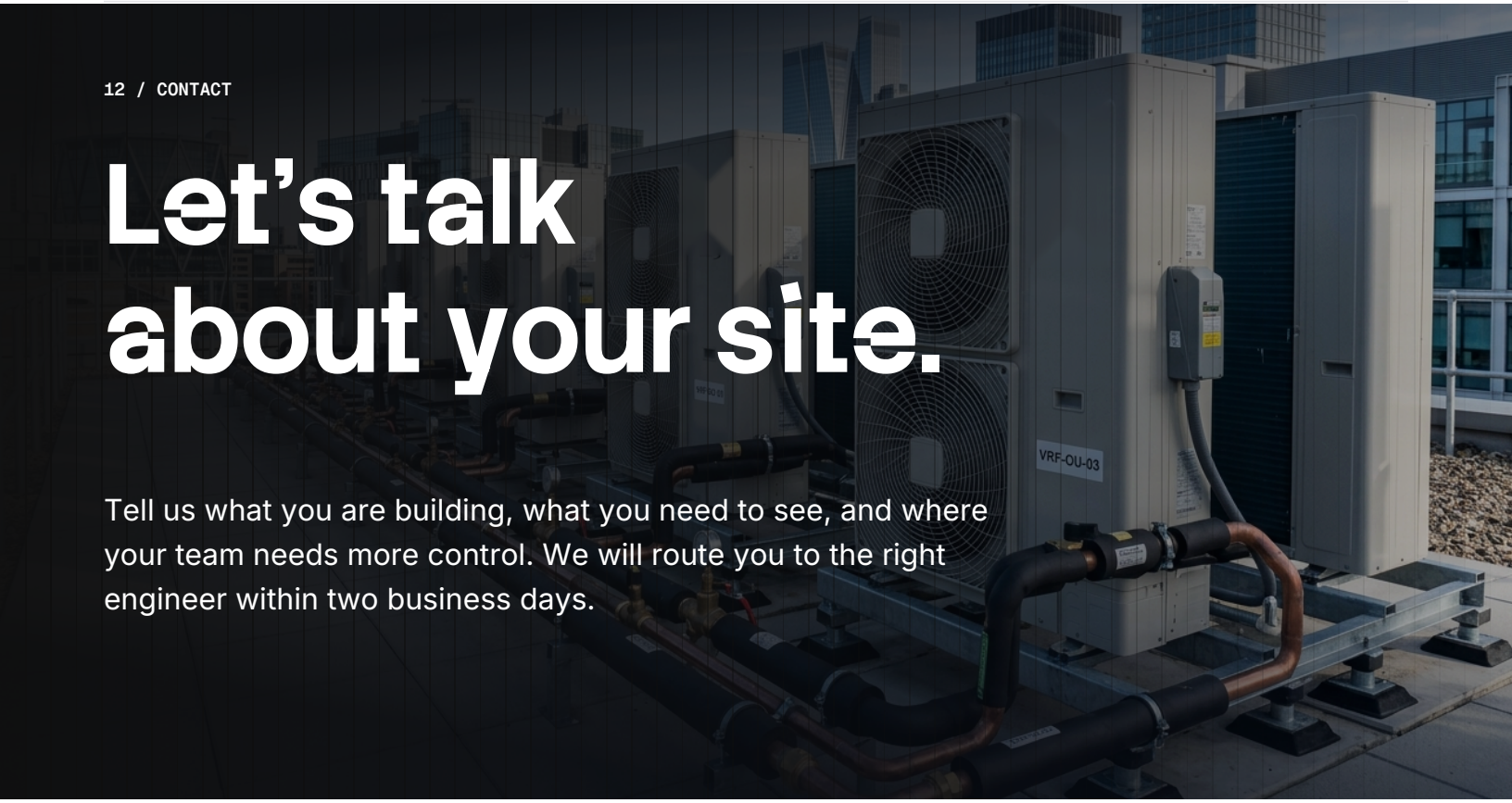
Yes. Integrators and facility managers can monitor, control, and service every unit 24×7 through a single real-time dashboard on laptop or mobile app, with instant SMS and email alerts.

What is the environmental and sustainability benefit?

Optimizing refrigerant cycle performance reduces grid energy consumption, while predictive maintenance minimizes failure rates and cuts down the volume of discarded scrap parts and burnt-out compressors sent to waste.

Which HVAC architectures and brands are supported?

VRF CONNECT is built for commercial VRF/VRV systems (Daikin, Mitsubishi, Toshiba, LG, etc.), interfacing via direct controller integration, Modbus TCP, and BACnet with zero disruption to existing infrastructure.



12 / CONTACT

Let’s talk about your site.

Tell us what you are building, what you need to see, and where your team needs more control. We will route you to the right engineer within two business days.

DIRECT LINE

EMAIL

info@clouder.world
arhanpopli@clouder.world

PHONE

+91 9811437994
+91 9818793614

OFFICE ADDRESS

Unit 104, DLF Star Tower, Sector 30
NH-48, Gurugram, Haryana 122001

Clouder IoT | VRF CONNECT

A CLEARER OPERATING SURFACE

Visibility for every VRF site.

clouderiot.com