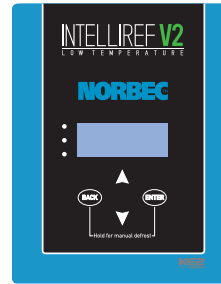


TECHNICAL SHEET



Intelliref V2



**Intelliref V2
Low Temperature**



Intelliref V2 Plus

CONTROLLER:

Part Number	0419-00078	0419-00079	0419-00081
Normal Operation Description	designed to simplify refrigeration control by combining the functions of a thermostat and defrost timeclock.	designed to simplify refrigeration control by combining the functions of a thermostat and defrost timeclock.	Designed to simplify refrigeration control without compromising on energy savings. Will only defrost when necessary and will manage Evaporator fan behavior (speed, run time, ...) with compressor cycles

REFRIGERATION CYCLE:

Evaporator Fan Management	No management available N.B.: Fans run continuously in a cooler. Typically no management of fan required	Management available. ON/OFF vs Temperature setpoint	<ul style="list-style-type: none"> • Run Continuously • Cycle based on room temperature and coil • Cycle based on temperature • Cycle on with compressor • Two speed fans based on room temperature • Variable speed fans using a 0-10v output
Valve Control	TEV (Thermal Expansion Valve)	TEV (Thermal Expansion Valve)	<ul style="list-style-type: none"> • TEV (Thermal Expansion Valve) • EEV (Electronic Expansion Valve)
Condensing unit (Compressor) protection	Nb of starts per hour	Nb of starts per hour	Minimum runtime and minimum off-time setpoints

DEFROST:

As Cooler (defrost type)	Air (off time)	<ul style="list-style-type: none"> • Air (off time) • Electric 	<ul style="list-style-type: none"> • Air • Electric • Can control Hot Gas
As Freezer (defrost type)	N/A	Electric	<ul style="list-style-type: none"> • Electric • Can control Hot Gas
Initiate Defrost	<ul style="list-style-type: none"> • Time • Interval • Manual 	<ul style="list-style-type: none"> • Time • Interval • Manual 	<ul style="list-style-type: none"> • On demand (self regulated) • Time • Run-Time
Terminate Defrost	Time	<ul style="list-style-type: none"> • Time • Coil Temperature 	<ul style="list-style-type: none"> • Time • Coil Temperature

Intelliref V2

Intelliref V2 Low Temperature

Intelliref V2 Plus

EMBEDDED DISPLAY:

Display	3 digits 7-segment LED	3 digits 7-segment LED	3 digits 7-segment LED
Defrost indicator	•	•	•
Compressor On-time indicator	•	•	•
Alarm indicator	•	•	•
Alarm code on display	•	•	•
Audible Buzzer		•	•
Buzzer and light - Remote install			Optional

COMMUNICATION:

Communication thru comprehensive Web interface on laptop with hardwire or WiFi connection	Available with LDA option	Available with LDA option	Available with LDA option
Data Logging	Available with LDA + Data logging option	Available with LDA + Data logging option	30 days (Basic) • More option with LDA + Data logging option
Communication port	ModBus with RS-485	ModBus with RS-485	ETHERNET TCP/IP, API, XML

ADDITIONAL INPUT

DOOR SWITCH		Optional	Optional
2 nd Temperature probe for one room		Optional	Optional

LDA OPTION**

Local dashboard access (for setup and alarm)	Via web interface, thru hardwire or WiFi connection		
Remote alarm	<ul style="list-style-type: none"> • E-mail • SMS / text message 		
Quantity of Intelliref controller that can be managed with LDA option	Up to 10		
Communication port	<ul style="list-style-type: none"> • ModBus with RS-485 • ETHERNET TCP/IP, API, XML 		

**Requires 120V electrical outlet (separate from refrigeration system and control preferable)

**Requires an internet connection and router, connection cable to router non included

DATA LOGGING OPTION***

Data collecting device	USB Flash Drive
Recording period	366 days
Quantity of Intelliref controller that can be managed with LDA option	Up to 10
Recording frequency	Every 5 min, up to once a day
Principal recorded information	<ul style="list-style-type: none"> • Time Stamp Room • Temp Setpoint • Room Temp • Alarm type • System mode (refrigeration cycle)
Data output file format	.csv, can be opened in Microsoft Excel or Access

**Requires 120V electrical outlet (separate from refrigeration system and control preferable)

**Requires an internet connection and router, connection cable to router non included