

Room thermostat BACnet/Modbus

RDF400BN, RDF440BN, RDF460BN



For 2-pipe, 2-pipe with electric heater and 4-pipe fan coil units

- Selectable bus communication protocol: BACnet MS/TP or Modbus RTU Server
- Slim design with touch button and frameless backlit display
- Fan output:

- 1-speed and 3-speed fan (RDF400BN, RDF440BN) - DC 0...10 V fan (RDF440BN, RDF460BN)

Control output:

- 2-wire or 3-wire On/Off valve actuator (RDF400BN, RDF460BN) 3-position valve actuator (RDF400BN, RDF460BN) - DC valve actuator (RDF440BN)

2 multifunctional inputs for keycard, external sensor, etc.

- Operating modes: Comfort, Economy and Protection
- Automatic or manual fan speed control
- Automatic or manual heating/cooling changeover
- Commissioning via local HMI, bus or Siemens smartphone app Quick Config
- Mounting on recessed square 86 mm conduit box with 60.3 mm fixing centers
- Operating voltage:

- AC 100...230 V (RDF400BN, RDF460BN)

 AC/DC 24 V (RDF440BN)





The thermostat is designed for use with the following:

- Fan coil units with 1-/3-speed fan controlling (RDF400BN):
 - 2-pipe system, 2-wire On/Off valve actuator
 - 2-pipe system, 3-wire On/Off valve actuator
 - 2-pipe system, 3-position valve actuator
 - 2-pipe system with electric heater, 2-wire On/Off valve actuator
 - 4-pipe system, 2-wire On/Off valve actuator
- Fan coil units with 1-/3-speed or DC 0...10 V fan controlling (RDF440BN):
 - 2-pipe system, DC 0...10 V valve actuator
 - 4-pipe system, DC 0...10 V valve actuator and 1-/3-speed fan only
- Fan coil units with DC 0...10 V fan controlling (RDF460BN):
 - 2-pipe system, 2-wire On/Off valve actuator
 - 2-pipe system, 3-wire On/Off valve actuator
 - 2-pipe system, 3-position valve actuator
 - 2-pipe system with electric heater, 2-wire On/Off valve actuator
 - 4-pipe system, 2-wire On/Off valve actuator

Functions

General functions

- Room temperature control via built-in temperature sensor, external room temperature sensor or temperature from bus
- Selection of operating modes via operating mode button: Comfort or Economy
- Selection of automatic or manual fan mode
- Changeover between heating and cooling mode (automatic via local sensor or bus, or manually)
- Measured value adjustment of built-in or external temperature sensor
- Key lock function
- Configurable operating mode after power-up: Previous mode, Comfort or Protection
- Surge protection at power-up

Setpoints and display

- Min. and max. limitation of room temperature setpoint:
 - Comfort limitation (min. and max. limitation)
- Display of current room temperature or setpoint in °C, °F or both
- Display of time of day from bus

Setting

- Setting of commissioning and control parameters via:
 - Local HMI
 - BACnet/Modbus commissioning tool
 - Siemens smartphone app Quick Config
- Reloading factory settings
- User settings and control parameters are retained in case of power failure
- Parameter protection by password (disabled by default)

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Fan

- 1-speed, 3-speed or DC 0...10 V fan control
- Configurable fan kick in Economy
- · Configurable fan start kick
- Configurable fan operation in zero energy zone (dead zone)
- Fan operating hours counter

Inputs

- 2 multifunctional inputs, X1 (for sensor/dry contact/DC 0...10 V) and D1 (for dry contact), selectable for:
 - External room temperature sensor
 - Sensor for automatic heating/cooling changeover
 - Switch for remote heating/cooling changeover
 - Window contact to switch operating mode to Protection
 - External alarm source for status reporting via bus
 - Presence detector to switch operating mode to Comfort
 - Hotel presence detector to switch operating mode to Economy and lock the screen when the room is unoccupied
 - DC 0...10 V feedback signal of modulating valve state (RDF440BN)

Communication

- Selectable communication protocol: BACnet MS/TP or Modbus RTU Server
- Central control of setpoints and operating mode from bus
- Monitoring of device status via bus
- Parameter read/write via bus
- Forced operating mode to Protection via bus

Mechanical design

The thermostat consists of two parts:

- Control unit with user interface and I/O module
- Mounting plate to fit onto a square conduit box with 60.3 mm fixing centers.



Information	Description	Information	Description
6	Keylock	①	Alarm
AUTO 	Fan mode	<u>£</u> CO	Economy mode
SSS	Heating mode	_	Valve on
*	Cooling mode	SET	Setpoint adjustment
Р	Parameter setting	✓	Confirm
OFF	Protection mode	~	Exit
188.5	Temperature or parameter values, etc.	-18:8.8 ^{£c}	Secondary display

Button	Description	Button	Description
En .	Switch fan mode	\bigcirc	On / Off or confirm (\checkmark)
M	Mode selection or exit (♠)	+-	Increase, decrease or select

Type summary

Product no.			Control outputs			Fan types		Description	
		voltage	On/Off	3-pos	DC 010 V	On/Off (3-wire)	3-speed	DC 010 V	
RDF400BN	S55770-T508	AC 100230 V	✓	✓	-	√	√	-	Room thermostat BACnet/Modbus
RDF440BN	S55770-T509	AC/DC 24 V	-	-	√	-	✓	√	Room thermostat BACnet/Modbus
RDF460BN	S55770-T510	AC 100230 V	✓	✓	-	√	-	√	Room thermostat BACnet/Modbus

Ordering

When ordering, specify both product number / stock number and name: e.g. RDF400BN / S55770-T508 Room thermostat BACnet/Modbus

Order valve actuators and external sensors separately.

Equipment combinations

Type of units		Product no.	Data sheet *)
Cable temperature sensor or changeover sensor, cable length 2.5 m NTC (3 k Ω at 25 °C)	0	QAH11.1	N1840
Room temperature sensor NTC (3 kΩ at 25 °C)		QAA32	1747
Cable temperature sensor, PVC cable length 2 m NTC (10 k Ω at 25 °C)	O'	QAP1030.200	N1831
Room temperature sensor NTC (10 kΩ at 25 °C)		QAA2030	1745

On/Off actuators (RDF400BN, RDF460BN)

Type of units	Product no.	Data sheet *)	
Electromotive ON/OFF valve and actuator (only available in AP, UAE, SA and IN)		MVI/MXI	A6V11251892
Electromotive ON/OFF actuator	\$11)	SFA21	N4863
Zone valve actuator (only available in AP, UAE, SA and IN)	-	SUA	A6V10446174

3-positon actuators AC 230 V (RDF400BN, RDF460BN)

Type of unit		Product no.	Datasheet *)
Electric actuator, 3-position (for radiator valves) AC 230 V		SSA331	A6V11858276
Electric actuator, 3-position (for 2- and 3-port valves/VP45) AC 230 V	-	SSC31	4895
Electric actuator, 3-position (for small valves 2.5 mm) AC 230 V		SSP31	4864
Electric actuator, 3-position (for small valves 5.5 mm) AC 230 V	22	SSB31	4891
Electric actuator, 3-position (for small valve 5 mm) AC 230 V	5	SSD31	4861
Electric actuator, 3-position (for valves 5.5 mm) AC 230 V		SAS31	4581

DC 0...10 V actuators (RDF440BN)

Type of unit	Product no.	Datasheet *)	
Electric actuator, DC 010 V (for radiator valves)	5	SSA161	A6V11858278
Electric actuator, DC 010 V (for 2- and 3-port valves/VP45)		SSC161	A6V12681511
Electric actuator, DC 010 V (for small valves 2.5 mm)		SSF161	A6V12681511
Electric actuator, DC 010 V (for small valves 5.5 mm)		SSB161	A6V12681511

Type of unit	Product no.	Datasheet *)	
Electromotive actuator, DC 010 V (for valves 5.5 mm)		SAS61	4581
Electrothermal actuator, AC 24 V, NC, DC 010 V, 1 m		STA161	A6V14028280
Electrothermal actuator, AC 24 V, NO, DC 010 V, 1 m		STP161	A6V14028280

^{*)} All documents can be downloaded from http://siemens.com/bt/download.

Product documentation

Title	Product	Document ID
Mounting instruction	RDF400BNRDF440BNRDF460BN	A6V13989826A6V12905642A6V14064629
Basic documentation	All	A6V14153583
CE declaration	All	A5W00725824A
RCM declaration	All	A5W00727514A
UKCA declaration	All	A5W00725826A
Environmental product declaration	All	A5W00718438A

Related documents such as environmental declarations, CE declarations, etc., can also be downloaded at the following Internet address:

www.siemens.com/bt/download

Notes

Security

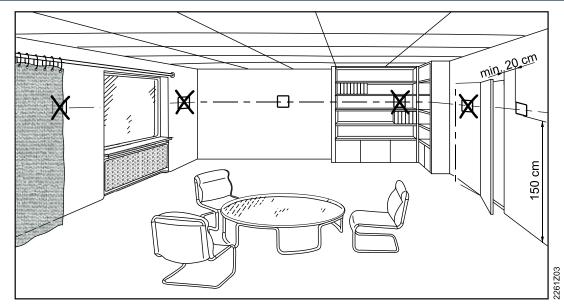
A CAUTION



National safety regulations

Failure to comply with national safety regulations may result in personal injury and property damage

• Observe any national provisions and comply with the appropriate safety regulations.



Mounting

- The device is suitable for mounting on a recessed square conduit box with 60.3 mm fixing centers.
- Recommended height: 1.5 m above the floor.
- Do not mount the devices in recesses, shelves, behind curtains or doors, or above or near heat sources.
- Avoid direct solar radiation and drafts.
- Avoid unheated (uncooled) building area such as outside walls.
- Seal the conduit box or the installation tube if any, as air currents can affect sensor readings.
- Adhere to allowed ambient conditions.

A WARNING



Device damage

Carefully read all wiring diagrams prior to installation to avoid damage to the device caused by incorrect wiring of high or low voltages.

See Mounting Instructions A6V13989826 (RDF400BN), A6V12905642 (RDF440BN) or A6V14064629 (RDF460BN) enclosed with the thermostat.

Wiring

A WARNING

Wire, protect and earth in compliance with local regulations.

Risk of fire and injury due to short-circuits!



- Adapt the line diameters as per local regulations to the rated value of the installed overcurrent protection device.
- The power supply line (AC 100...230 V or AC 24 V) must have an external circuit breaker with a rated current of no more than 10 A.
- Disconnect from supply before removing the device from its mounting plate.
- Isolate the cables of all SELV terminals for AC 100...230 V, e.g., BACnet/Modbus communication input BN+, BN- and REF for AC 100...230 V.
- Nominal power of electrical heater needs to be lower than 0.8 kW, additional security element must be installed. (RDF400BN, RDF460BN)

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Commissioning

After first power-up, all LCD segments light up for about 3 seconds. Afterwards, the device enters parameter setting mode and is ready for commissioning by qualified HVAC staff. When commissioning is finished and user exits parameter setting mode, the device restarts and is ready for normal operation.

The control parameters of device can be adjusted to ensure optimum performance of the entire system (see Control parameters in Basic documentation).

Applications and settinas

The room thermostats are delivered with a fixed set of applications and related parameters. Select and activate the relevant application and settings during commissioning using one of the following tools:

- Local HMI
- BACnet/Modbus commissioning tool
- Siemens smartphone app Quick Config

Commissioning via smartphone application Quick Config

The setting via the smartphone application Quick Config is used to set the application and parameters settings of the thermostat.

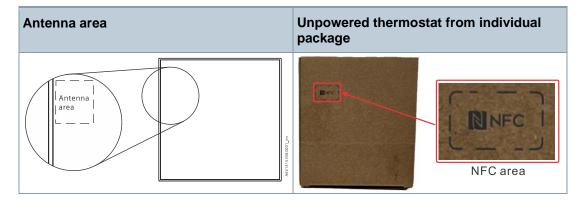
This tool allows for wireless setting of the thermostat with smartphone and read/write parameters.

The commissioning tool works directly after users scan either the antenna area of the thermostat or the NFC area on the individual package box.

NOTICE! Before scanning, users need make sure smartphone NFC area to ensure communication between smartphone and thermostat.

In addition, users can:

- Scan the antenna area without powering on the thermostat.
- Scan the NFC area without unpacking the thermostat from the individual box.



Notes

The commissioning via smartphone application Quick Config can be disabled via parameters to avoid unexpected changes of the thermostat.

Control sequence

Set the control sequence via parameter P02 depending on the application. Factory setting:

Application	Factory setting (P02)
2-pipe	2 = Cooling only
4-pipe	5 = Heating and cooling

power-up

Surge protection at When the thermostats are powered, the control outputs start at random to protect the electric system against overload. It takes up to 3 seconds for all thermostat outputs to function properly.

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The device has an internal sensor or external sensor connected via X1 for accurate temperature display. If the temperature reading is affected by the installation location, adjust the sensor via parameter P13 to correct the readings.

Setpoint and range limitation

For comfort and to save energy, we suggest to review all setpoint related parameters and adapt them as needed.

MAC address (BACnet)

The MAC address is assigned to "4" (factory setting). If necessary, engineer/installer can change the address value using the parameter P93.

Device address (Modbus)

The device address is assigned to "1" (factory setting). If necessary, engineer/installer can change the address value using the parameter P93.

Baud rate

The Baud rate is selectable. Five options, auto, 9600 bps, 19200 bps, 38400 bps and 76800 bps, are available for the BACnet network (38400 bps is default).

Four options, auto, 9600 bps, 19200 bps and 38400 bps, are available for the Modbus network (19200 bps is default).

Modbus data frame format

Modbus data frame format can be set to 1 = 1/8/E/1, 2 = 1/8/O/1, 3 = 1/8/N/1 or 4 = 1/8/N/2 (1/8/E/1 is default).

Disposal



This symbol or any other national label indicate that the product, its packaging, and, where applicable, any batteries may not be disposed of as domestic waste. Delete all personal data and dispose of the item(s) at separate collection and recycling facilities in accordance with local and national legislation.

For additional details, refer to Siemens information on disposal.

Cyber security disclaimer

Siemens provides a portfolio of products, solutions, systems and services that includes security functions that support the secure operation of plants, systems, machines and networks. In the field of Building Technologies, this includes building automation and control, fire safety, security management as well as physical security systems. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art security concept. Siemens' portfolio only forms one element of such a concept.

You are responsible for preventing unauthorized access to your plants, systems, machines and networks which should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. Additionally, Siemens' guidance on appropriate security measures should be taken into account. For additional information, please contact your Siemens sales representative or visit:

https://www.siemens.com/global/en/products/automation/topic-areas/industrial-cybersecurity.html

Siemens' portfolio undergoes continuous development to make it more secure. Siemens strongly recommends that updates are applied as soon as they are available and that the latest versions are used. Use of versions that are no longer supported, and failure to apply the latest updates may increase your exposure to cyber threats. Siemens strongly recommends to comply with security advisories on the latest security threats, patches and other related measures, published, among others, here:

<u>https://www.siemens.com/cert/</u> => 'Siemens Security Advisories'

Warranty

Technical data on specific applications are valid only together with Siemens products listed under "Equipment combinations". Siemens rejects any and all warranties in the event that third-party products are used.

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Power supply (RDF400BN)			
Operating voltage	AC 100230 V		
Frequency	50/60 Hz		
Power consumption	Max. 5 VA / 3 W		
Standby power consumption	1 VA / 0.5 W		



No internal fuse!

External preliminary protection with max. C 10 A circuit breaker in the supply line required under all circumstances.

Power supply (RDF440BN)				
Operating voltage	AC/DC 24 V			
Power consumption	Max. 5 VA / 3 W			
Standby power consumption	1.2 VA / 0.5 W			
External supply line protection (EU)	Circuit breaker max. 10 A Characteristic B, C, D according to EN 60898 or Power source with current limitation of max. 10 A			

Power supply (RDF460BN)	
AC 100230 V	
50/60 Hz	
Max. 5 VA / 3 W	
1 VA / 0.5 W	



• No internal fuse!

External preliminary protection with max. C 10 A circuit breaker in the supply line required under all circumstances.

BACnet interface	
Type Transmit mode Connection Baud rate MAC address Cable length Supported BACnet services	RS485 MSTP Up to 60 Auto, 9600, 19200, 38400 (default), 76800 0127, 4 (default) Max.1200 meters Read property-B, Read propertyMultiple-B, Write property-B, Write propertyMultiple-B, Who-is, Who-has, subscribe COV-B, subscribe COVP-B, etc.

Modbus interface	
Type Transmit mode Connection Baud rate Device address Cable length Identity Transmission format (start bit – data – parity – stop)	RS485 RTU Up to 32 Auto, 9600, 19200 (default), 38400 1127, 1 (default) Max.1200 meters Server 1 = 1-8-E-1 (default) / 2 = 1-8-O-1 / 3 = 1-8-N-1 / 4 = 1-8-N-2

Near field communication	
NFC	13.56 MHz
Max. magnetic field strength	<42 dBμA/m@10 m (depending on the NFC reader)

Wiring connections (RDF400BN)	
Diameter Power, input, and output (L, N, Q1, Q2, Q3, Y1, Y2) SELV signal (BN+, BN-, Ref, X1, M, D1) Wire	1.01.5 mm ² 0.51.5 mm ² Solid or prepared stranded

Wiring connections (RDF440BN)	
Diameter Power, input, and output (L1, Q1, Q2, Q3) SELV signal (G, G0, M, Y10, Y20, BN+, BN-, Ref, X1, M, D1) Wire	1.01.5 mm ² 0.51.5 mm ² Solid or prepared stranded

Wiring connections (RDF460BN)	
Diameter Power, input, and output (L, N, Y1, Y2) SELV signal (BN+, BN-, Ref, X1, M, D1, M, Y50) Wire	1.01.5 mm ² 0.51.5 mm ² Solid or prepared stranded

Output	
1-/3-speed fan (RDF400BN)	Q1Q3
Type	On/Off
Voltage	AC 100230 V
Maximum current	Min. 5(2) A
1-/3-speed fan (RDF440BN)	Q1Q3
Type	On/Off
Voltage	AC 24230 V
Maximum current	Min. 5(2) A
ECM fan (RDF440BN, RDF460BN)	RDF440BN: Y20, RDF460BN: Y50
Type	DC
Voltage	DC 010 V
Maximum current	Min. ±5 mA
Valve output (RDF400BN, RDF460BN)	Y1 (N.O.), Y2 (N.O.)
Voltage	AC 100230 V
Maximum current	Min. 5(2) A
Valve output (RDF440BN) Voltage Maximum current	Y10, Y20 DC 010 V Min. ±1 mA

A CAUTION



If fans must be connected in parallel, connect one fan directly, for additional fans, one relay for each speed.

Multifunctional input		
X1-M		
Temperature sensor input		
Туре	NTC 3k	
Temperature range	-2070 °C	
Temperature sensor input		
Туре	NTC 10k	
Temperature range	-2070 °C	

Multifunctional input	
Digital input	
Operating action	Selectable (NO/NC)
Contact sensing	DC 05 V, max. 5 mA
Insulation against mains	SELV

Operational data	
Hysteresis	
- Heating mode (P43)	0.56 K (factory setting: 2 K)
- Cooling mode (P44)	0.56 K (factory setting: 1 K)
P-band Xp	
- Heating mode (P43)	0.56 K (factory setting: 2 K)
- Cooling mode (P44)	0.56 K (factory setting: 1 K)
Setpoint setting range	
- Comfort mode (P20, P21)	540 °C
- Economy mode (P22, P23)	Off, 540 °C
- Protection mode (P50, P51)	Off, 540 °C
Built-in room temperature sensor	
- Measuring range	050 °C
- Accuracy at 25 °C	< ±0.5 K
- Temperature calibration range	- 5.0+5.0 K
Resolution of settings and display	
- Temperature setpoints	0.5 °C
- Current temperature value displayed	0.5 °C

Ambient conditions and protection classification	
Classification as per EN 60730 Function of automatic control devices Degree of pollution Overvoltage category Action type Rated impulse voltage Maximum altitude Software class	Type 1 2 III 1 as per EN 60730-1 4 kV as per EN 60730-1 3000 m as per EN 60730-1 A as per EN 60730-1
Classification of protection against electric shock	Device suited for use with equipment of protection class II.

Ambient conditions and protection classification		
Degree of protection of housing to EN 60529 (after mounting in position)		
Room automation station With terminal cover	IP30 IP30	
Climatic ambient conditions		
- Storage as per EN 60721-3-1 Temperature range Humidity range	-5+50 °C 595 % r.h.	
- Transport (packaged for transport) as per EN 60721-3-2 Temperature range	-25+70 °C	
Humidity range	595 % r.h.	
- Operation as per EN 60721-3-3 ¹⁾ Temperature range Humidity range	050 °C 595 % r.h.	
Mechanical ambient conditions		
Storage as per EN 60721-3-1 Transport as per EN 60721-3-2 Operation as per EN 60721-3-3	Class 1M2 Class 2M2 Class 3M2	

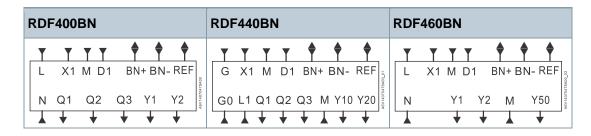
¹⁾ No condensation permitted.

Standards, directives and approvals		
Electromagnetic compatibility	For residential, commercial environments	
EU conformity (CE)	A5W00725824A *)	
RCM	A5W00727514A *)	
UKCA	A5W00725826A *)	
REACH	Regulation (EC) No 1907/2006 Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)	
RoHS	Directive 2011/65/EU restriction of the use of certain hazardous substances in electronic equipment	
Environmental compatibility	The product environmental declaration (A5W00718438A *) contains data on environmentally compatible product design and assessments (RoHS compliance, materials composition, packaging, environmental benefit, disposal).	

General		
Weight without/with package RDF400BN RDF440BN RDF460BN	 162.8 g / 256.4 g 155 g / 248.4 g 151.9 g / 247.4 g 	
Materials Control unit Mounting plate	PCPC + 10% GF	
Colors Frame Screen	White RAL 9016Black RAL 9005	
Housing flammability class according to UL94	V-0	

^{*)} The documents can be downloaded from http://siemens.com/bt/download.

Connection terminals



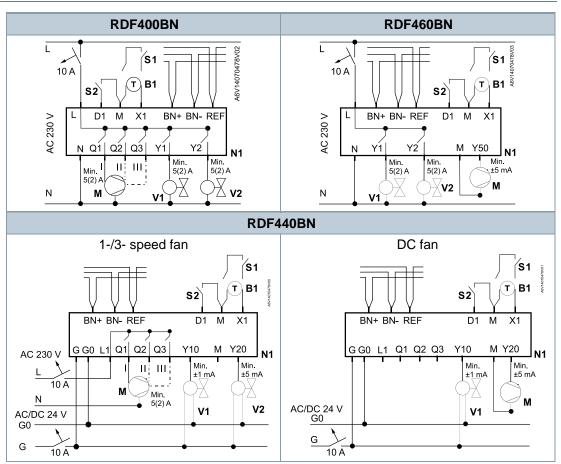
L, N	AC 100230 V power supply, mains and neutral
G, G0	AC/DC 24 V power supply
L1	Feed for relays AC 24230 V
Q1 **	Fan control output (relay output), Q1-low (AC 100230 V)
Q2 **	Fan control output (relay output), Q2-middle (AC 100230 V)
Q3 **	Fan control output (relay output), Q3 -high (AC 100230 V)
Y1 *	SPST relay output, 2-pipe cooling/heating, or 4-pipe heating, normally open (AC 100230 V)
Y2 *	SPST relay output, 2-pipe with electric heater, or 4-pipe cooling, normally open (AC 100230 V)
Y10	Control outputs "valve" DC 010 V, 2-pipe cooling/heating, or 4-pipe heating
Y20	Control outputs "valve" DC 010 V, 4-pipe cooling, and 2-pipe DC fan
Y50	Control output "Fan" DC 010 V
X1	Multifunctional input, e.g., sensor, switch or DC 010 V signal (actuator feedback)
М	Input reference ground for X1, D1
М	DC fan reference
D1	Digital input, e.g., switch
BN+, BN-	BACnet or Modbus terminals
REF	BACnet or Modbus reference ground

^{* 3-}wire valve and 3-position valve actuators can also be used for 2-pipe application with Y1 and Y2 connected and P04 configured.

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^{**} For RDF440BN, the relay voltage for Qx is AC 24...230 V.

^{***} Isolated for RDF440BN



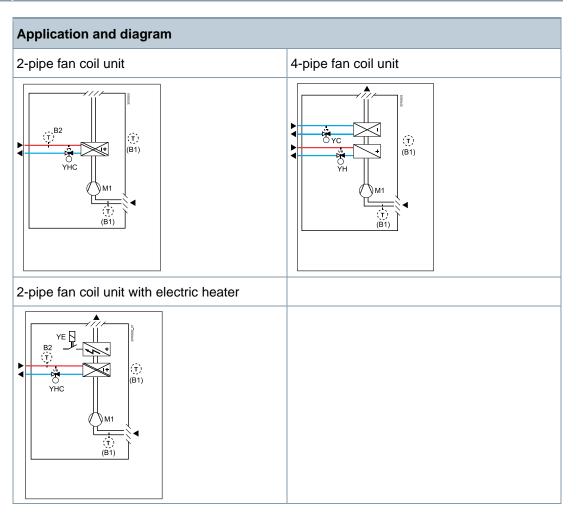
N1	RDF400BN/RDF440BN/RDF460BN
L, N	AC 100230 V power supply, mains and neutral
G, G0	AC/DC 24 V power supply
L1	Feed for relays AC 24230 V
Q1, Q2, Q3	Fan control output (relay output), Q1-low, Q2-middle, Q3-high (AC 100230 V)
Y1 *	SPST relay output, 2-pipe cooling/heating, or 4-pipe heating, normally open (AC 100230 V)
Y2 *	SPST relay output, 2-pipe with electric heater, or 4-pipe cooling, normally open (AC 100230 V)
Y10	Control outputs "valve" DC 010 V, 2-pipe cooling/heating, or 4-pipe heating
Y20	Control outputs "valve" DC 010 V, 4-pipe cooling, and 2-pipe DC fan
Y50	Control output "Fan" DC 010 V
X1	Multifunctional input, e.g., sensor, switch or DC 010 V signal (actuator feedback)
М	Input reference ground for X1, D1
M	DC fan reference
D1	Digital input, e.g., switch
BN+, BN- ***	BACnet or Modbus terminals
REF	BACnet or Modbus reference ground

^{* 3-}wire valve and 3-position valve actuators can also be used for 2-pipe application with Y1 and Y2 connected and P04 configured.

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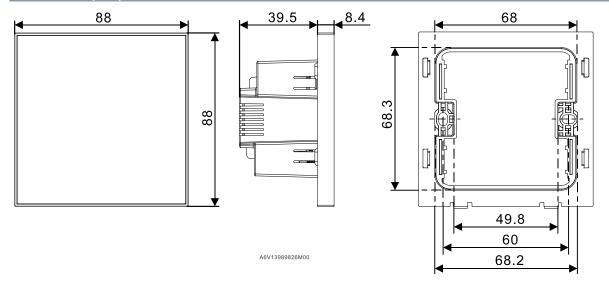
^{**} For RDF440BN, the relay voltage for Qx is AC 24...230 V.

^{***} Isolated for RDF440BN



YHC Heating/cooling valve actuator	YE Electric heater
YH Heating valve actuator	YC Cooling valve actuator
B1 External room temperature sensor (optional)	B2 Changeover sensor (optional)
M1 1-speed or 3-speed fan	

Dimensions (mm)



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